Online Appendix for 'How to Prevent Civil War Recurrence' and MSMMF

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Contents

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```
knitr::include_graphics(c("rmarkdown.png","rpart.png","readxl.png"))
```

This RMarkdown file provides further details on robustness estimations of the manuscript:

1. **Monograph**: "How to Prevent Civil War Recurrence: Learning from Failure" published by Oxford University Press 2025.
2. **Article**: "Multi-Stage Mixed-Methods Framework (MSMMF): Using Machine Learning, Regression and Qualitative Research Methods to Generate and Test Hypotheses" https://journals.sagepub.com/doi/pdf/10.1177/01925121241293109. Accompanying method publication for the monographie.

1) Codebook for CoR-D

The codebook can be found on the data repository of the University of Birmingham here: https://doi.org/10.25500/edata.bham.00001328

2) Install Packages, Load Data Set, Prepare the Data

```
# In case you need to install package please use the following code.
#install.packages(c("readxl", "caTools", "rpart", "rpart.plot", "dplyr"))
#install.packages(c("tidyverse", "randomForest", "C50", "Statamarkdown"))
#install.packages(c("partykit", "knitr", "gtExtras","rvg", "remotes"))
#install.packages(c("writexl", "ggplot2", "ISLR2", "viridis", "gt", "glue"))
#install.packages(c("pdftools", "reactablefmtr", "tidytuesdayR", "officer"))
#install.packages("ggtext")
#install.packages("officer")
#install.packages("rvg")
#install.packages(c("openxlsx"))
#install.packages(c("devtoolsn"))

#packageVersion("rpart") # '4.1.23'
#packageVersion("randomForest") # '4.7.1.1'
#packageVersion("C50") # '0.1.8'
#packageVersion("rpart.plot") # '3.1.2'
#packageVersion("caTools") # '1.18.2'

#devtools::install_github('araastat/reprtree')
#packageurl <- "https://cran.r-project.org/src/contrib/Archive/rpart/rpart_4.1-11.tar.gz"

#remotes::install_github("timelyportfolio/dataui")
library(dataui) #NN
```

3) Replication Code 'How to Prevent Civil War Recurrence'

Phase I - Quantitative and Qualitative Hypotheses Generating

Step 1 Read/Import Data Set Into R for Machine Learning Analysis.

```
# rm(list = ls())  # You might have to delete all objects in the workspace first

library(readxl)
library(openxlsx)

setwd("~/Library/CloudStorage/OneDrive-SharedLibraries-UniversityofBirmingham/Giuditta Fontana (Political Science and International Studies) - USIP - CW recurrence/Publications/Book USIP/Full Manuscript and Mat
usip_data  <- read.xlsx("CoR-D.xlsx", sheet = 1)
```

```r
library(dplyr)
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##     filter, lag

## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

Step 2: Split Data into Training and Testing Data

Generate a training and testing data set for the machine learning part. Training data set to be used for training the algorithm. Testing data set to be used for testing the predictive accuracy of the data set.

```
##########################################################################
##########################################################################
############### Generate Training and Testing Data Sets #############
##########################################################################
##########################################################################

library(caTools)

set.seed(6980)

############## Setting Last Five Tries #################
usip_data_last_five <- usip_data[which(usip_data$last_five_tries == '1'), ]

# Use 70% of dataset as training set and 30% as test set
sample <- sample.split(usip_data_last_five$Success, SplitRatio = 0.70)

# Assign the sample to the dataset
usip_data_last_five$sample <- sample

# **Sort the dataset by `sample` before storing**
usip_data_last_five <- usip_data_last_five[order(usip_data_last_five$sample), ]

# Create training and testing subsets
data_train_five  <- subset(usip_data_last_five, sample == TRUE)
data_test_five   <- subset(usip_data_last_five, sample == FALSE)

# Check dataset dimensions
dim(data_train_five)
```

```
## [1]  49 275
```

```
dim(data_test_five)
```

```
## [1]  21 275
```

```
#############################################################################################

set.seed(6980)

# Filter dataset for last six tries
usip_data_last_six <- usip_data[which(usip_data$last_six_tries == '1'), ]

# 70% Train, 30% Test split
sample <- sample.split(usip_data_last_six$Success, SplitRatio = 0.7)
usip_data_last_six$sample <- sample

# Sort by sample (optional)
usip_data_last_six <- usip_data_last_six[order(usip_data_last_six$sample), ]

# Create Train/Test datasets
data_train_six <- subset(usip_data_last_six, sample == TRUE)
data_test_six  <- subset(usip_data_last_six, sample == FALSE)

dim(data_train_six)
```

```
## [1]  59 275
```

```
dim(data_test_six)
```

```
## [1]  25 275
```

Step 3 Using the Training Data Set, Train the Algorithm Using CART

```
     #          #          #          #          #          #
    ###        ###        ###        ###        ###        ###
   #####      #####      #####      #####      #####      #####
 ########   ########   ########   ########   ########   ########
##########  ##########  ##########  ##########  ##########  ##########
    ##         ##         ##         ##         ##         ##


#############################################################################
#############################################################################
############################## DECISION TREE ###############################
#############################################################################
#############################################################################

library(rpart)
library(rpart.plot)

#############################################################################
#############################################################################
# Provisions Only # Provisions Only # Provisions Only # Provisions Only #
#############################################################################
#############################################################################

modl2021_usip_5.ctree <- rpart(as.factor(data_train_five$Success) ~
Amnesty_Enabling    + Amn_Presc + Amn_Rec   +
Anti_corr_Enab  + Anti_corr_Presc   + Anti_corr_Rec +
Change_leader + Child_sol_Enab  + Child_sol_Presc   +
Child_sol_Rec   + Election_Enab + Election_Presc +
Election_Rec    + Confl_crime_vet_Enab  + Confl_crime_vet_Pres  +
Demob_Enab + Demob_Pres + Demob_Rec + Demob_gender  + Disam_Enab    +
Disarm_Presc    + Disarm_Rec    + Disarm_gender + Econ_recov_devel_Enab +
Econ_recov_devel_Presc  + Econ_recov_devel_Rec +
Econ_recov_devel_margin_groups_E + Econ_recov_devel_margin_groups_P +
Econ_recov_devel_margin_groups_R    + Exch_infor_mil_capab_Enab +
Exch_infor_mil_capab_Presc  + Exch_infor_mil_capab_Rec  +
Hyb_just_Enab + Hyb_just_Presc  +  Hyb_just_Rec +
Incl_p_con_soc_civ_soc_Enab + Incl_p_con_soc_civ_soc_Presc  +
Incl_p_con_soc_civ_soc_Rec + Incl_p_con_soc_gender_Enab + Incl_p_con_soc_gender_Presc +
Incl_p_con_soc_gender_Rec + Incl_p_con_soc_indig_Enab   +
Incl_p_con_soc_indig_Presc + Incl_p_con_soc_indig_Rec   +
Incl_p_con_soc_disadv_grps_Enab + Incl_p_con_soc_disadv_grps_Presc  +
Incl_p_con_soc_disadv_grps_Rec  + Incl_p_con_soc_victim_Enab    +
Incl_p_con_soc_victim_Presc + Incl_p_con_soc_victim_Rec +
Incl_p_con_soc_youth_Enab + Incl_p_con_soc_youth_Presc  +
Incl_p_con_soc_youth_Rec    + Incl_negot_civ_soc    + Incl_negot_Gender +
Incl_negot_victim + Int_inv_impl_assi_Enab  + Int_inv_impl_assi_Presc   +
Int_inv_impl_assi_Rec + Int_invl_mon_ver_Enab   + Int_invl_mon_ver_Presc    +
Int_invl_mon_ver_Rec + Int_invl_mon_ver_hyb_Enab + Int_invl_mon_ver_hyb_Presc +
Int_invl_mon_ver_hyb_Rec + Int_invl_PKO_Enab    + Int_invl_PKO_Presc +
Int_invl_PKO_Rec    + Inter_obs_wthdr_Enab  + Inter_obs_wthdr_Presc +
Inter_obs_wthdr_Rec + Indiv_Mediator    + Int_med_states    + Int_med_other_bod +
Int_med_regi_org    + Int_med_UN    + Mech_dial_Enab    +  Mech_dial_Presc  +
Mech_dial_Rec + Media_ref_Enab  + Media_ref_Presc   + Media_ref_Rec +
Mediation_gender    + Mediation_Hyb + Non_ter_auton_Enab    +
```

```
Non_ter_auton_Presc + Non_ter_auton_Rec + Prison_rel_Enab   +
Prison_rel_Presc    +  Prison_rel_Rec   + Prohib_prop_Enab  +
Prohib_prop_Presc   + Prohib_prop_Rec   + Prosec_conf_crim_Enab +
Prosec_conf_crim_Presc  + Prosec_conf_crim_Rec  + Prot_leader_war_part  +
PS_admin_Enab   + PS_admin_Presc    + PS_admin_Rec  + PS_admin_gender_Enab  +
PS_admin_gender_Presc + PS_admin_gender_Rec + PS_milit_Enab + PS_milit_Presc +
PS_milit_Rec + PS_milit_gender_Enab + PS_milit_gender_Presc +
PS_milit_gender_Rec + PS_other_bod_Enab + PS_other_bod_Presc +
PS_other_bod_Rec + PS_other_bod_gender_Enab + PS_other_bod_gender_Presc +
PS_other_bod_gender_Rec + PS_polit_Enab + PS_polit_Presc    +
PS_polit_Rec    + PS_polit_gender_Enab  +
PS_polit_gender_Presc   + PS_polit_gender_Rec   + Rebel_fragm_Excl  +
Rebel_fragm_Incl + Reinteg_Enab + Reinteg_Pres  + Reinteg_Rec   +
Reinteg_gender  + Restor_meas_gender_Enab   + Restor_meas_gender_Presc  +
Restor_meas_gender_Rec  + Restor_meas_incl  + Restor_meas_recon_bod_Enab    +
Restor_meas_recon_bod_Presc + Restor_meas_recon_bod_Rec +
Restor_meas_repar_Enab  + Restor_meas_repar_Presc   + Restor_meas_repar_Rec +
Restor_meas_truth_Enabling  + Restor_meas_truth_Presc   + Restor_meas_truth_Rec +
Sequenc_prov    + SSR_jnt_arm_Enab  + SSR_jnt_arm_Presc + SSR_jnt_arm_Rec   +
SSR_jnt_arm_gender  + SSR_exist_forc_Enab   + SSR_exist_forc_Presc  +
SSR_exist_forc_Rec  + SSR_exist_forc_gender + Transf_pol_part_Enab  +
Transf_pol_part_Presc   + Transf_pol_part_Rec   + TSG_fiscal_Enab   +
TSG_fiscal_Presc    + TSG_fiscal_Rec    + TSG_econ_enab +  TSG_econ_Presc   +
TSG_econ_Rec    + TSG_edu_cult_Enab + TSG_edu_cult_Presc    + TSG_edu_cult_Rec  +
TSG_secur_Enab  + TSG_secur_Presc   + TSG_secur_Rec + TSG_welfare_Enab  +
TSG_welfare_Presc   + TSG_welfare_Rec   + TSG_PS_local_Enab +
TSG_PS_local_Presc  + TSG_PS_local_Rec  + TSG_rep_parl_Enab +
TSG_rep_parl_Presc  + TSG_rep_parl_Rec  + Wthdrwl_foreign_forc_Enab +
Wthdrwl_foreign_forc_Presc  + Wthdrwl_foreign_forc_Rec
, data = data_train_five, control =  list(cp = 0.0000000001, minbucket = 2))
modl2021_usip_5.ctree
```

```
## n= 49
##
## node), split, n, loss, yval, (yprob)
##       * denotes terminal node
##
## 1) root 49 10 0 (0.79591837 0.20408163)
##   2) Incl_p_con_soc_gender_Enab< 0.5 46  7 0 (0.84782609 0.15217391)
##     4) Hyb_just_Enab< 0.5 44  5 0 (0.88636364 0.11363636)
##       8) Int_med_UN< 0.5 41  3 0 (0.92682927 0.07317073) *
##       9) Int_med_UN>=0.5 3  1 1 (0.33333333 0.66666667) *
##     5) Hyb_just_Enab>=0.5 2  0 1 (0.00000000 1.00000000) *
##   3) Incl_p_con_soc_gender_Enab>=0.5 3  0 1 (0.00000000 1.00000000) *
```

Produce decision to export for manuscript

% redefine the command that creates the figure no.

```
rpart.plot(modl2021_usip_5.ctree, type = 4, varlen = -12, faclen = 4)
```

```
# Figure Last Five Peace Tries
pdf(file = 'five_years_provisions_only.pdf')
invisible(dev.off())
```

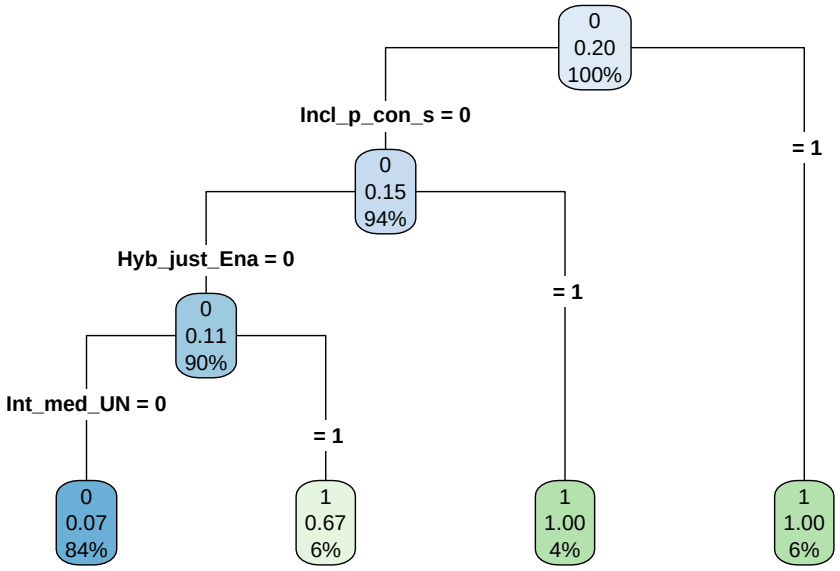


Figure A.1: Decision Tree for the Last Five Tries.

Step 4 Test the Predictive Accuracy of the Algorithm

```
### Examine fitted values:
pred2021_usip_5.ctree <- predict(modl2021_usip_5.ctree, type = "class")
#pred2021_usip_5.ctree
pred2021_usip_5.ctree.prop <- predict(modl2021_usip_5.ctree, type = "prob")
#pred2021_usip_5.ctree.prop

#head(pred2021_usip_5.ctree)
#head(usip_data_last_five$Success)

pred2021_usip_5.ctree.num.test  <- as.numeric(pred2021_usip_5.ctree)

pred2021_usip_5.ctree.num <- as.numeric(pred2021_usip_5.ctree) - 1

prop.table(table(pred2021_usip_5.ctree.num, data_train_five$Success), 2)
```

```
##
## pred2021_usip_5.ctree.num          0          1
##                         0 0.97435897 0.30000000
##                         1 0.02564103 0.70000000
```

```
################### Predicting Test Set ####################################

pred2021_usip_5_test.ctree.num <-predict(modl2021_usip_5.ctree,
                                         data_test_five, type = "class")

prop.table(table(pred2021_usip_5_test.ctree.num, data_test_five$Success), 2)
```

```
##
## pred2021_usip_5_test.ctree.num          0          1
##                              0 0.94117647 0.75000000
##                              1 0.05882353 0.25000000
```

```
##########################################################################
##########################################################################
# Controls Only # Controls Only # Controls Only # Controls Only #
```

```
##############################################################################
##############################################################################

modl2021_usip_5a.ctree <- rpart(as.factor(data_train_five$Success) ~
al_religion2000 + bmr_dem + ccp_equal + ccp_freerel +
  ccp_hr + cspf_sfi + cumulative_intensity_trans + discrimpop +
  dr_pg + dr_eg + egip_groups_count + excl_groups_count +
  fe_etfra + intensity_level_trans + ldiscrimpop +
  icrg_qog + lp_catho80 + lp_muslim80 + lp_no_cpm80 +
  lp_protmg80 + regaut_egip_groups_count + regaut_groups_count +
  regautexclpop + regautpop + side_a_2nd_binary + side_b_2nd_binary +
  vdem_corr + vdem_delibdem + vdem_dl_delib + vdem_edcomp_thick +
  vdem_egal + vdem_egaldem + vdem_exbribe + vdem_excrptps +
  vdem_execorr + vdem_exembez + vdem_exthftps + vdem_gender +
  vdem_jucorrdc + vdem_libdem + vdem_liberal + vdem_mecorrpt +
  vdem_partip + vdem_partipdem + vdem_polyarchy + vdem_pubcorr +
  warhist + warhist_gov + warhist_terr + wdi_gdpcapgr + wdi_gdpcapcon2010 +
  wdi_gdpcapcur + wdi_mobile + wdi_mortinf + wdi_mortinff + wdi_mortinfm +
  wdi_refori_trans + wdi_tele + wgov_minmil + wgov_totmil,
data = data_train_five, control =  list(cp = 0.0000000001, minbucket = 2))
modl2021_usip_5a.ctree
```

```
## n= 49
##
## node), split, n, loss, yval, (yprob)
##       * denotes terminal node
##
## 1) root 49 10 0 (0.7959184 0.2040816)
##   2) wdi_gdpcapgr>=-8.168271 47  8 0 (0.8297872 0.1702128) *
##   3) wdi_gdpcapgr< -8.168271 2  0 1 (0.0000000 1.0000000) *
```

```
rpart.plot(modl2021_usip_5a.ctree, type = 4, varlen = -12, faclen = 4)
```

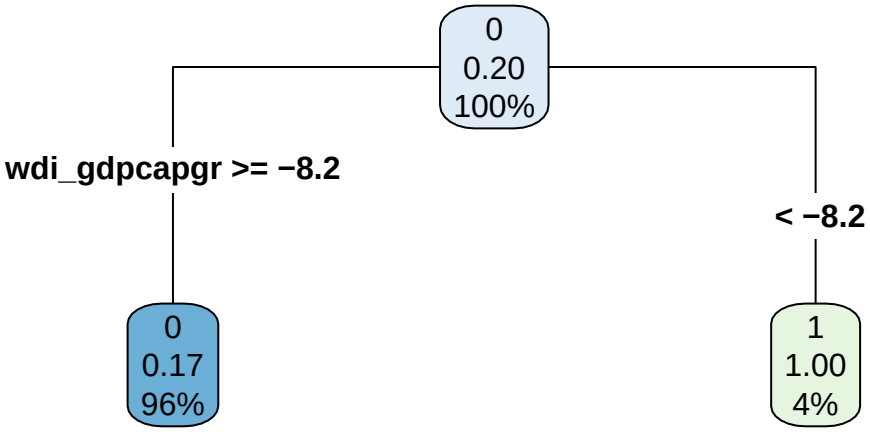


Figure A.2: Decision Tree for the Controls Only (Last Five Tries).

```
pdf(file = 'five_years_controls_only.pdf')
dev.off()
```

```
## pdf
##   2
```

```
### Examine fitted values:
pred2021_usip_5a.ctree <- predict(modl2021_usip_5a.ctree, type = "class")
```

```
#pred2021_usip_5a.ctree
pred2021_usip_5a.ctree.prop <- predict(modl2021_usip_5a.ctree, type = "prob")
#pred2021_usip_5a.ctree.prop
pred2021_usip_5a.ctree.prop <- predict(modl2021_usip_5a.ctree, type = "prob")
#head(pred2021_usip_5a.ctree)
#head(data_train_five$Success)
pred2021_usip_5a.ctree.num.test  <- as.numeric(pred2021_usip_5a.ctree)
#head(pred2021_usip_5a.ctree.num.test)
pred2021_usip_5a.ctree.num <- as.numeric(pred2021_usip_5a.ctree) - 1
#pred2021_usip_5a.ctree.num
length(pred2021_usip_5a.ctree)
```

```
## [1] 49
```

```
length(data_train_five$Success)
```

```
## [1] 49
```

```
prop.table(table(pred2021_usip_5a.ctree.num, data_train_five$Success), 2)
```

```
##
## pred2021_usip_5a.ctree.num   0   1
##                          0 1.0 0.8
##                          1 0.0 0.2
```

```
################### Predicting Test Set ##############################
pred2021_usip_5a_test.ctree.num <-predict(modl2021_usip_5a.ctree,
                                          data_test_five, type = "class")

prop.table(table(pred2021_usip_5a_test.ctree.num, data_test_five$Success), 2)
```

```
##
## pred2021_usip_5a_test.ctree.num 0 1
##                               0 1 1
##                               1 0 0
```

```
##############################################################################
##############################################################################
# Provisions and All Controls # Provisions and All Controls #
##############################################################################
##############################################################################

modl2021_usip_5b.ctree <- rpart(as.factor(data_train_five$Success) ~
Incl_p_con_soc_gender_Enab + Int_med_UN + Hyb_just_Enab +
al_religion2000 + bmr_dem + ccp_equal + ccp_freerel +
  ccp_hr + cspf_sfi + cumulative_intensity_trans + discrimpop +
  dr_pg + dr_eg + egip_groups_count + excl_groups_count +
  fe_etfra + intensity_level_trans + ldiscrimpop +
  icrg_qog + lp_catho80 + lp_muslim80 + lp_no_cpm80 +
  lp_protmg80 + regaut_egip_groups_count + regaut_groups_count +
  regautexclpop + regautpop + side_a_2nd_binary + side_b_2nd_binary +
  vdem_corr + vdem_delibdem + vdem_dl_delib + vdem_edcomp_thick +
  vdem_egal + vdem_egaldem + vdem_exbribe + vdem_excrptps +
  vdem_execorr + vdem_exembez + vdem_exthftps + vdem_gender +
  vdem_jucorrdc + vdem_libdem + vdem_liberal + vdem_mecorrpt +
  vdem_partip + vdem_partipdem + vdem_polyarchy + vdem_pubcorr +
  warhist + warhist_gov + warhist_terr + wdi_gdpcapgr + wdi_gdpcapcon2010 +
  wdi_gdpcapcur + wdi_mobile + wdi_mortinf + wdi_mortinff + wdi_mortinfm +
  wdi_refori_trans + wdi_tele + wgov_minmil + wgov_totmil, data = data_train_five,
```

```
control =  list(cp = 0.0000000001, minbucket = 2))
rpart.plot(modl2021_usip_5b.ctree, type = 4, varlen = -12, faclen = 4)
```

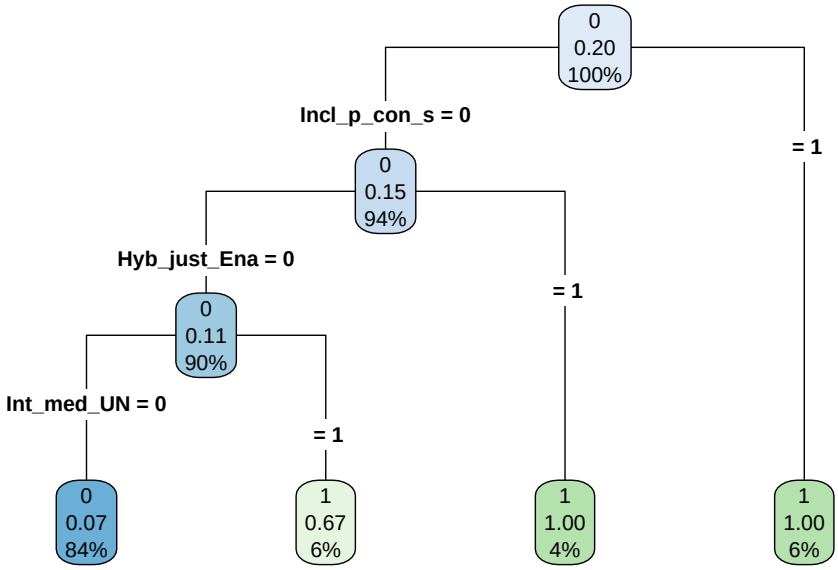


Figure A.3: Decision Tree for Provisions and All Controls (Last Five Tries).

```
pdf(file = 'five_years_provisions_all_controls.pdf')
rpart.plot(
  modl2021_usip_5b.ctree,
  type = 4,  # Removes probability and text labels
  varlen = -12,  # Displays full variable names
  faclen = 4,  # Displays full factor labels
  tweak = 1.2  # Adjusts spacing (optional)
)
dev.off()
```

```
## pdf
##   2
```

```
### Examine fitted values:
pred2021_usip_5b.ctree <- predict(modl2021_usip_5b.ctree, type = "class")
#pred2021_usip_5b.ctree
pred2021_usip_5b.ctree.prop <- predict(modl2021_usip_5b.ctree, type = "prob")
#pred2021_usip_5b.ctree.prop
pred2021_usip_5b.ctree.prop <- predict(modl2021_usip_5b.ctree, type = "prob")
#head(pred2021_usip_5b.ctree)
#head(data_train_five$Success)
pred2021_usip_5b.ctree.num.test  <- as.numeric(pred2021_usip_5b.ctree)
#head(pred2021_usip_5b.ctree.num.test)
pred2021_usip_5b.ctree.num <- as.numeric(pred2021_usip_5b.ctree) - 1
#pred2021_usip_5b.ctree.num
#length(pred2021_usip_5b.ctree)
#length(data_train_five$Success)

prop.table(table(pred2021_usip_5b.ctree.num, data_train_five$Success), 2)
```

```
##
## pred2021_usip_5b.ctree.num          0          1
##                          0 0.97435897 0.30000000
```

```
##                           1 0.02564103 0.70000000
```

```
################### Predicting Test Set ########################################

pred2021_usip_5b_test.ctree.num <-predict(modl2021_usip_5b.ctree,
                                          data_test_five, type = "class")

prop.table(table(pred2021_usip_5b_test.ctree.num, data_test_five$Success), 2)
```

```
##
## pred2021_usip_5b_test.ctree.num          0          1
##                               0 0.94117647 0.75000000
##                               1 0.05882353 0.25000000
```

```
################################################################################
################################################################################
# Provisions and Identified Controls
################################################################################
################################################################################

modl2021_usip_5c.ctree <- rpart(as.factor(data_train_five$Success) ~
Incl_p_con_soc_gender_Enab + Int_med_UN + Hyb_just_Enab + wdi_gdpcapgr,
data = data_train_five,
control =  list(cp = 0.0000000001, minbucket = 2))

rpart.plot(modl2021_usip_5c.ctree, type = 4, varlen = -12, faclen = 4)
```

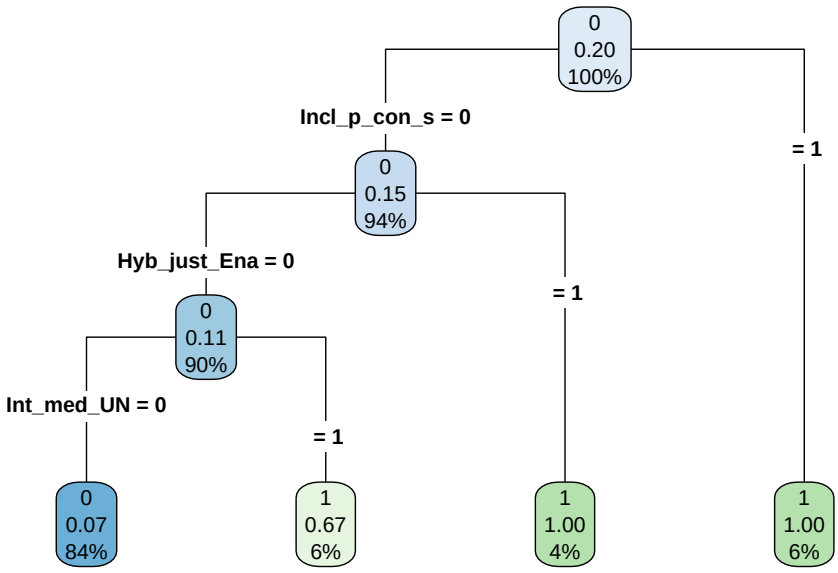


Figure A.4: Decision Tree for Provisions and Identified Controls (Last Five Tries).

```
pdf(file = 'five_years_iden_provisions_iden_controls.pdf')
dev.off()
```

```
## pdf
##   2
```

```
### Examine fitted values:
pred2021_usip_5c.ctree <- predict(modl2021_usip_5c.ctree, type = "class")
#pred2021_usip_5c.ctree
pred2021_usip_5c.ctree.prop <- predict(modl2021_usip_5c.ctree, type = "prob")
#pred2021_usip_5c.ctree.prop
```

```
pred2021_usip_5c.ctree.prop <- predict(modl2021_usip_5c.ctree, type = "prob")
#head(pred2021_usip_5c.ctree)
#head(data_train_five$Success)
pred2021_usip_5c.ctree.num.test  <- as.numeric(pred2021_usip_5c.ctree)
#head(pred2021_usip_5c.ctree.num.test)
pred2021_usip_5c.ctree.num <- as.numeric(pred2021_usip_5c.ctree) - 1
#pred2021_usip_5c.ctree.num
#length(pred2021_usip_5c.ctree)
#length(data_train_five$Success)

prop.table(table(pred2021_usip_5c.ctree.num, data_train_five$Success), 2)
```

```
##
## pred2021_usip_5c.ctree.num          0          1
##                          0 0.97435897 0.30000000
##                          1 0.02564103 0.70000000
```

```
################### Predicting Test Set #########################

pred2021_usip_5c_test.ctree.num <-predict(modl2021_usip_5c.ctree,
                                          data_test_five, type = "class")
prop.table(table(pred2021_usip_5c_test.ctree.num, data_test_five$Success), 2)
```

```
##
## pred2021_usip_5c_test.ctree.num          0          1
##                               0 0.94117647 0.75000000
##                               1 0.05882353 0.25000000
```

```
################################################################################
################################################################################
######################### Provisions and GDP Growth ############################
################################################################################
################################################################################

modl2021_usip_5d.ctree <- rpart(as.factor(data_train_five$Success) ~
Incl_p_con_soc_gender_Enab + Int_med_UN + Hyb_just_Enab + wdi_gdpcapgr
, data = data_train_five, control =  list(cp = 0.0000000001, minbucket = 2))
rpart.plot(modl2021_usip_5d.ctree, type = 4, varlen = -12, faclen = 4)
```

```
pdf(file = 'five_years_iden_provisions_gdp.pdf')
dev.off()
```

```
## pdf
##   2
```

```
### Examine fitted values:
pred2021_usip_5d.ctree <- predict(modl2021_usip_5d.ctree, type = "class")
#pred2021_usip_5d.ctree
pred2021_usip_5d.ctree.prop <- predict(modl2021_usip_5d.ctree, type = "prob")
#pred2021_usip_5d.ctree.prop
pred2021_usip_5d.ctree.prop <- predict(modl2021_usip_5d.ctree, type = "prob")
#head(pred2021_usip_5d.ctree)
#head(data_train_five$Success)
pred2021_usip_5d.ctree.num.test  <- as.numeric(pred2021_usip_5d.ctree)
#head(pred2021_usip_5d.ctree.num.test)
pred2021_usip_5d.ctree.num <- as.numeric(pred2021_usip_5d.ctree) - 1
#pred2021_usip_5d.ctree.num
#length(pred2021_usip_5d.ctree)
```

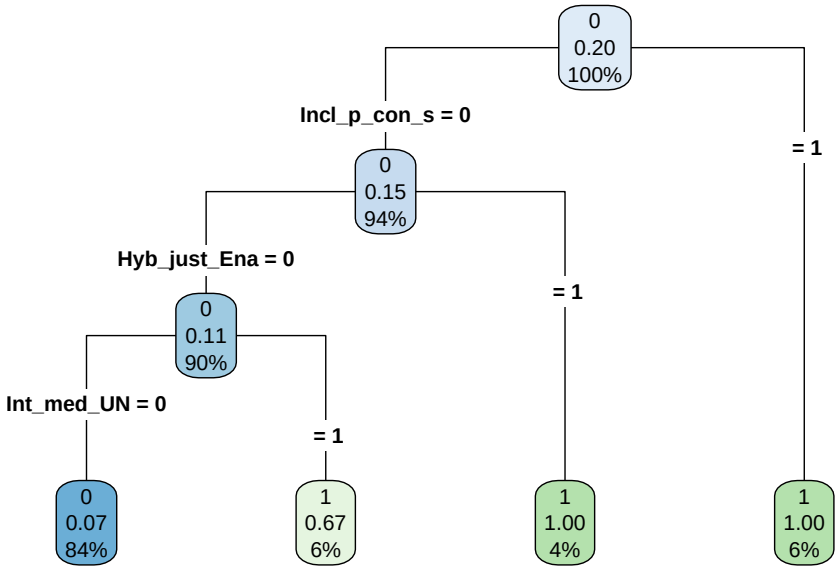


Figure A.5: Decision Tree for Provisions and GDP (Last Five Tries).

```
#length(data_train_five$Success)

prop.table(table(pred2021_usip_5d.ctree.num, data_train_five$Success), 2)
```

```
##
## pred2021_usip_5d.ctree.num          0          1
##                          0 0.97435897 0.30000000
##                          1 0.02564103 0.70000000
```

```
################### Predicting Test Set ########################################

pred2021_usip_5d_test.ctree.num <-predict(modl2021_usip_5d.ctree,
                                          data_test_five, type = "class")

prop.table(table(pred2021_usip_5d_test.ctree.num, data_test_five$Success), 2)
```

```
##
## pred2021_usip_5d_test.ctree.num          0          1
##                               0 0.94117647 0.75000000
##                               1 0.05882353 0.25000000
```

Robustness Checks for Step 4

```
     #          #          #          #          #          #
    ###        ###        ###        ###        ###        ###
   #####      #####      #####      #####      #####      #####
  ########   ########   ########   ########   ########   ########
##########  ##########  ##########  ##########  ##########  ##########
    ##         ##         ##         ##         ##         ##


#########################################################################
#########################################################################
############################ DECISION TREE ############################
############################    6 Tries    ############################
############################ DECISION TREE ############################
#########################################################################
#########################################################################


#########################################################################################
#########################################################################################
# Provisions Only # Provisions Only # Provisions Only # Provisions Only #
#########################################################################################
#########################################################################################

modl2021_usip_6.ctree <- rpart(as.factor(data_train_six$Success) ~
Amnesty_Enabling    + Amn_Presc + Amn_Rec   +
Anti_corr_Enab  + Anti_corr_Presc   + Anti_corr_Rec +
Change_leader + Child_sol_Enab  + Child_sol_Presc   +
Child_sol_Rec   + Election_Enab + Election_Presc +
Election_Rec    + Confl_crime_vet_Enab  + Confl_crime_vet_Pres  +
Demob_Enab + Demob_Pres + Demob_Rec + Demob_gender  + Disam_Enab    +
Disarm_Presc    + Disarm_Rec    + Disarm_gender + Econ_recov_devel_Enab +
Econ_recov_devel_Presc  + Econ_recov_devel_Rec +
Econ_recov_devel_margin_groups_E + Econ_recov_devel_margin_groups_P +
Econ_recov_devel_margin_groups_R    + Exch_infor_mil_capab_Enab +
Exch_infor_mil_capab_Presc  + Exch_infor_mil_capab_Rec  +
Hyb_just_Enab + Hyb_just_Presc  +  Hyb_just_Rec +
Incl_p_con_soc_civ_soc_Enab + Incl_p_con_soc_civ_soc_Presc  +
Incl_p_con_soc_civ_soc_Rec + Incl_p_con_soc_gender_Enab + Incl_p_con_soc_gender_Presc +
Incl_p_con_soc_gender_Rec + Incl_p_con_soc_indig_Enab   +
Incl_p_con_soc_indig_Presc + Incl_p_con_soc_indig_Rec   +
Incl_p_con_soc_disadv_grps_Enab + Incl_p_con_soc_disadv_grps_Presc  +
Incl_p_con_soc_disadv_grps_Rec  + Incl_p_con_soc_victim_Enab    +
Incl_p_con_soc_victim_Presc + Incl_p_con_soc_victim_Rec +
Incl_p_con_soc_youth_Enab + Incl_p_con_soc_youth_Presc  +
Incl_p_con_soc_youth_Rec    + Incl_negot_civ_soc    + Incl_negot_Gender +
Incl_negot_victim + Int_inv_impl_assi_Enab  + Int_inv_impl_assi_Presc   +
Int_inv_impl_assi_Rec + Int_invl_mon_ver_Enab   + Int_invl_mon_ver_Presc    +
Int_invl_mon_ver_Rec + Int_invl_mon_ver_hyb_Enab + Int_invl_mon_ver_hyb_Presc +
Int_invl_mon_ver_hyb_Rec + Int_invl_PKO_Enab    + Int_invl_PKO_Presc +
Int_invl_PKO_Rec    + Inter_obs_wthdr_Enab  + Inter_obs_wthdr_Presc +
Inter_obs_wthdr_Rec + Indiv_Mediator    + Int_med_states    + Int_med_other_bod +
Int_med_regi_org    + Int_med_UN    + Mech_dial_Enab    +  Mech_dial_Presc  +
Mech_dial_Rec + Media_ref_Enab  + Media_ref_Presc   + Media_ref_Rec +
Mediation_gender    + Mediation_Hyb + Non_ter_auton_Enab    +
```

```
Non_ter_auton_Presc + Non_ter_auton_Rec + Prison_rel_Enab   +
Prison_rel_Presc    +  Prison_rel_Rec   + Prohib_prop_Enab  +
Prohib_prop_Presc   + Prohib_prop_Rec   + Prosec_conf_crim_Enab +
Prosec_conf_crim_Presc  + Prosec_conf_crim_Rec  + Prot_leader_war_part  +
PS_admin_Enab   + PS_admin_Presc    + PS_admin_Rec  + PS_admin_gender_Enab  +
PS_admin_gender_Presc + PS_admin_gender_Rec + PS_milit_Enab + PS_milit_Presc +
PS_milit_Rec + PS_milit_gender_Enab + PS_milit_gender_Presc +
PS_milit_gender_Rec + PS_other_bod_Enab + PS_other_bod_Presc +
PS_other_bod_Rec + PS_other_bod_gender_Enab + PS_other_bod_gender_Presc +
PS_other_bod_gender_Rec + PS_polit_Enab + PS_polit_Presc    +
PS_polit_Rec    + PS_polit_gender_Enab  +
PS_polit_gender_Presc   + PS_polit_gender_Rec   + Rebel_fragm_Excl  +
Rebel_fragm_Incl + Reinteg_Enab + Reinteg_Pres  + Reinteg_Rec   +
Reinteg_gender  + Restor_meas_gender_Enab   + Restor_meas_gender_Presc  +
Restor_meas_gender_Rec  + Restor_meas_incl  + Restor_meas_recon_bod_Enab    +
Restor_meas_recon_bod_Presc + Restor_meas_recon_bod_Rec +
Restor_meas_repar_Enab  + Restor_meas_repar_Presc   + Restor_meas_repar_Rec +
Restor_meas_truth_Enabling  + Restor_meas_truth_Presc   + Restor_meas_truth_Rec +
Sequenc_prov    + SSR_jnt_arm_Enab  + SSR_jnt_arm_Presc + SSR_jnt_arm_Rec   +
SSR_jnt_arm_gender  + SSR_exist_forc_Enab   + SSR_exist_forc_Presc  +
SSR_exist_forc_Rec  + SSR_exist_forc_gender + Transf_pol_part_Enab  +
Transf_pol_part_Presc   + Transf_pol_part_Rec   + TSG_fiscal_Enab   +
TSG_fiscal_Presc    + TSG_fiscal_Rec    + TSG_econ_enab +  TSG_econ_Presc   +
TSG_econ_Rec    + TSG_edu_cult_Enab + TSG_edu_cult_Presc    + TSG_edu_cult_Rec  +
TSG_secur_Enab  + TSG_secur_Presc   + TSG_secur_Rec + TSG_welfare_Enab  +
TSG_welfare_Presc   + TSG_welfare_Rec   + TSG_PS_local_Enab +
TSG_PS_local_Presc  + TSG_PS_local_Rec  + TSG_rep_parl_Enab +
TSG_rep_parl_Presc  + TSG_rep_parl_Rec  + Wthdrwl_foreign_forc_Enab +
Wthdrwl_foreign_forc_Presc  + Wthdrwl_foreign_forc_Rec
, data = data_train_six, control =  list(cp = 0.0000000001, minbucket = 2))
modl2021_usip_6.ctree
```

Robustness 1: Repeat Step 3-4 for Six (Instead of Five) Tries

```
## n= 59
##
## node), split, n, loss, yval, (yprob)
##       * denotes terminal node
##
## 1) root 59 10 0 (0.83050847 0.16949153)
##   2) Incl_p_con_soc_gender_Enab< 0.5 54  6 0 (0.88888889 0.11111111)
##     4) Hyb_just_Enab< 0.5 52  4 0 (0.92307692 0.07692308)
##       8) Int_med_UN< 0.5 49  2 0 (0.95918367 0.04081633) *
##       9) Int_med_UN>=0.5 3  1 1 (0.33333333 0.66666667) *
##     5) Hyb_just_Enab>=0.5 2  0 1 (0.00000000 1.00000000) *
##   3) Incl_p_con_soc_gender_Enab>=0.5 5  1 1 (0.20000000 0.80000000) *
```

Produce decision to export for manuscript

```
rpart.plot(modl2021_usip_6.ctree, type = 4, varlen = -12, faclen = 4)
```

```
# Figure X Last Six Peace Tries
pdf(file = 'six_years_provisions_only.pdf')
invisible(dev.off())
```

```
### Examine fitted values:
pred2021_usip_6.ctree <- predict(modl2021_usip_6.ctree, type = "class")
#pred2021_usip_6.ctree
```

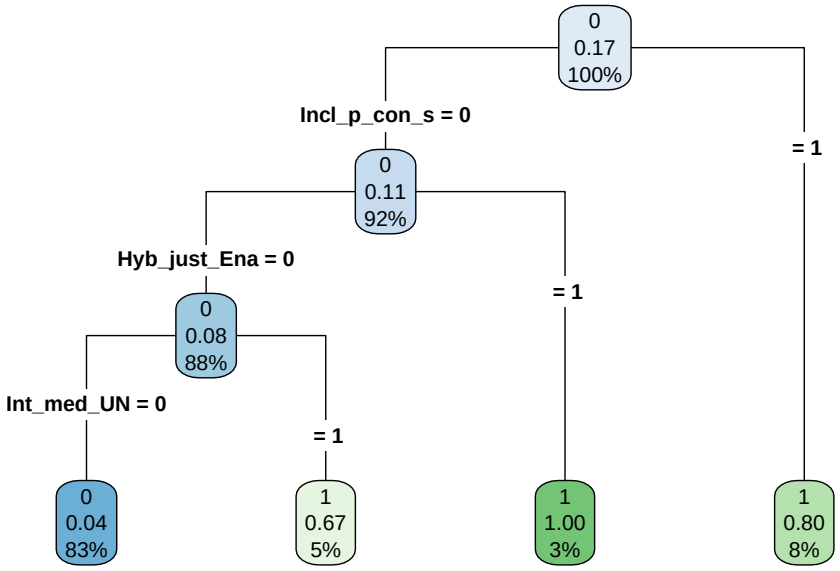


Figure A.6: Decision Tree for Provisions for the Last Six Tries.

```
pred2021_usip_6.ctree.prop <- predict(modl2021_usip_6.ctree, type = "prob")
#pred2021_usip_6.ctree.prop

#head(pred2021_usip_6.ctree)
#head(usip_data_last_six$Success)

pred2021_usip_6.ctree.num.test  <- as.numeric(pred2021_usip_6.ctree)
#head(pred2021_usip_6.ctree.num.test)

pred2021_usip_6.ctree.num <- as.numeric(pred2021_usip_6.ctree) - 1
#pred2021_usip_6.ctree.num
#length(pred2021_usip_6.ctree)
#length(data_train_six$Success)

prop.table(table(pred2021_usip_6.ctree.num, data_train_six$Success), 2)
```

```
##
## pred2021_usip_6.ctree.num          0          1
##                         0 0.95918367 0.20000000
##                         1 0.04081633 0.80000000
```

```
################### Predicting Test Set ####################################

pred2021_usip_6_test.ctree.num <-predict(modl2021_usip_6.ctree,
                                         data_test_six, type = "class")

prop.table(table(pred2021_usip_6_test.ctree.num, data_test_six$Success), 2)
```

```
##
## pred2021_usip_6_test.ctree.num 0 1
##                              0 1 1
##                              1 0 0
```

```
############################################################################
############################################################################
# Controls Only # Controls Only # Controls Only # Controls Only # Controls Only
```

```
##############################################################################
##############################################################################

modl2021_usip_6a.ctree <- rpart(as.factor(data_train_six$Success) ~
al_religion2000 + bmr_dem + ccp_equal + ccp_freerel +
  ccp_hr + cspf_sfi + cumulative_intensity_trans + discrimpop +
  dr_pg + dr_eg + egip_groups_count + excl_groups_count +
  fe_etfra + intensity_level_trans + ldiscrimpop +
  icrg_qog + lp_catho80 + lp_muslim80 + lp_no_cpm80 +
  lp_protmg80 + regaut_egip_groups_count + regaut_groups_count +
  regautexclpop + regautpop + side_a_2nd_binary + side_b_2nd_binary +
  vdem_corr + vdem_delibdem + vdem_dl_delib + vdem_edcomp_thick +
  vdem_egal + vdem_egaldem + vdem_exbribe + vdem_excrptps +
  vdem_execorr + vdem_exembez + vdem_exthftps + vdem_gender +
  vdem_jucorrdc + vdem_libdem + vdem_liberal + vdem_mecorrpt +
  vdem_partip + vdem_partipdem + vdem_polyarchy + vdem_pubcorr +
  warhist + warhist_gov + warhist_terr + wdi_gdpcapgr + wdi_gdpcapcon2010 +
  wdi_gdpcapcur + wdi_mobile + wdi_mortinf + wdi_mortinff + wdi_mortinfm +
  wdi_refori_trans + wdi_tele + wgov_minmil + wgov_totmil,
data = data_train_six, control =  list(cp = 0.0000000001, minbucket = 2))
modl2021_usip_6a.ctree
```

```
## n= 59
##
## node), split, n, loss, yval, (yprob)
##       * denotes terminal node
##
## 1) root 59 10 0 (0.8305085 0.1694915)
##   2) vdem_corr< 0.914 57  8 0 (0.8596491 0.1403509) *
##   3) vdem_corr>=0.914 2  0 1 (0.0000000 1.0000000) *
```

```
rpart.plot(modl2021_usip_6a.ctree, type = 4, varlen = -12, faclen = 4)
```

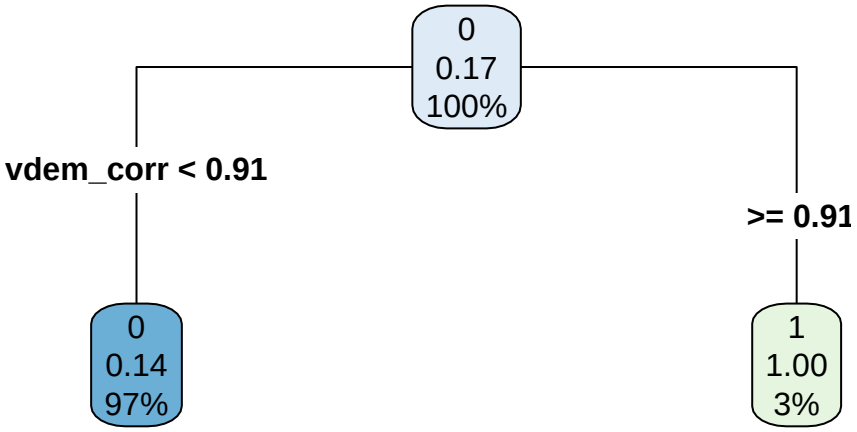


Figure A.7: Decision Tree for Controls Only (Last Six Tries).

```
pdf(file = 'six_years_controls_only.pdf')
dev.off()
```

```
## pdf
##   2
```

```
### Examine fitted values:
pred2021_usip_6a.ctree <- predict(modl2021_usip_6a.ctree, type = "class")
```

```r
#pred2021_usip_6a.ctree
pred2021_usip_6a.ctree.prop <- predict(modl2021_usip_6a.ctree, type = "prob")
#pred2021_usip_6a.ctree.prop
pred2021_usip_6a.ctree.prop <- predict(modl2021_usip_6a.ctree, type = "prob")
#head(pred2021_usip_6a.ctree)
#head(data_train_six$Success)
pred2021_usip_6a.ctree.num.test  <- as.numeric(pred2021_usip_6a.ctree)
#head(pred2021_usip_6a.ctree.num.test)
pred2021_usip_6a.ctree.num <- as.numeric(pred2021_usip_6a.ctree) - 1
#pred2021_usip_6a.ctree.num
length(pred2021_usip_6a.ctree)
```

```
## [1] 59
```

```r
#length(data_train_six$Success)

prop.table(table(pred2021_usip_6a.ctree.num, data_train_six$Success), 2)
```

```
##
## pred2021_usip_6a.ctree.num   0   1
##                          0 1.0 0.8
##                          1 0.0 0.2
```

```r
#################### Predicting Test Set ##############################
pred2021_usip_6a_test.ctree.num <-predict(modl2021_usip_6a.ctree,
                                          data_test_six, type = "class")

prop.table(table(pred2021_usip_6a_test.ctree.num, data_test_six$Success), 2)
```

```
##
## pred2021_usip_6a_test.ctree.num 0 1
##                               0 1 1
##                               1 0 0
```

```r
###############################################################################
###############################################################################
# Provisions and All Controls # Provisions and All Controls #
###############################################################################
###############################################################################

modl2021_usip_6b.ctree <- rpart(as.factor(data_train_six$Success) ~
Incl_p_con_soc_gender_Enab + Int_med_UN + Hyb_just_Enab +
al_religion2000 + bmr_dem + ccp_equal + ccp_freerel +
  ccp_hr + cspf_sfi + cumulative_intensity_trans + discrimpop +
  dr_pg + dr_eg + egip_groups_count + excl_groups_count +
  fe_etfra + intensity_level_trans + ldiscrimpop +
  icrg_qog + lp_catho80 + lp_muslim80 + lp_no_cpm80 +
  lp_protmg80 + regaut_egip_groups_count + regaut_groups_count +
  regautexclpop + regautpop + side_a_2nd_binary + side_b_2nd_binary +
  vdem_corr + vdem_delibdem + vdem_dl_delib + vdem_edcomp_thick +
  vdem_egal + vdem_egaldem + vdem_exbribe + vdem_excrptps +
  vdem_execorr + vdem_exembez + vdem_exthftps + vdem_gender +
  vdem_jucorrdc + vdem_libdem + vdem_liberal + vdem_mecorrpt +
  vdem_partip + vdem_partipdem + vdem_polyarchy + vdem_pubcorr +
  warhist + warhist_gov + warhist_terr + wdi_gdpcapgr + wdi_gdpcapcon2010 +
  wdi_gdpcapcur + wdi_mobile + wdi_mortinf + wdi_mortinff + wdi_mortinfm +
  wdi_refori_trans + wdi_tele + wgov_minmil + wgov_totmil, data = data_train_six,
control =  list(cp = 0.0000000001, minbucket = 2))
```

```
rpart.plot(modl2021_usip_6b.ctree, type = 4, varlen = -12, faclen = 4)
```

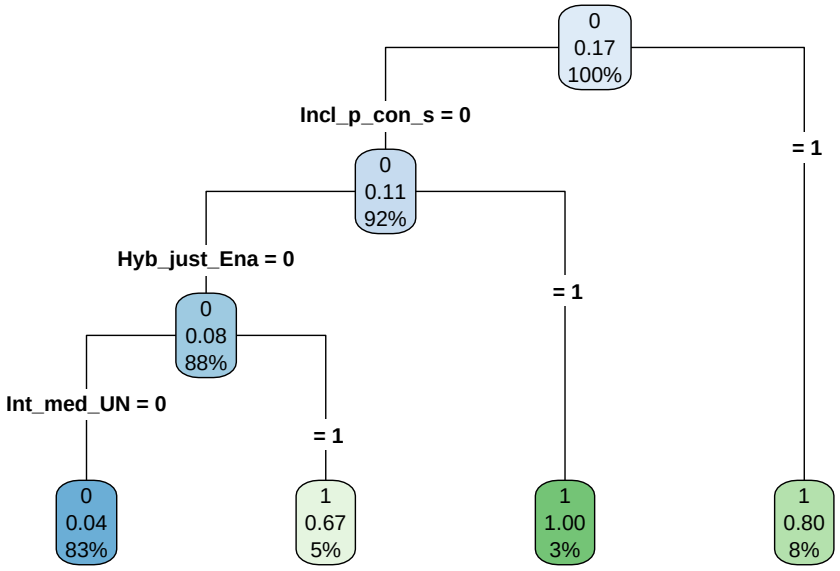


Figure A.8: Decision Tree for Provisions and All Controls (Last Six Tries).

```
### Examine fitted values:
pred2021_usip_6b.ctree <- predict(modl2021_usip_6b.ctree, type = "class")
#pred2021_usip_6b.ctree
pred2021_usip_6b.ctree.prop <- predict(modl2021_usip_6b.ctree, type = "prob")
#pred2021_usip_6b.ctree.prop
pred2021_usip_6b.ctree.prop <- predict(modl2021_usip_6b.ctree, type = "prob")
#head(pred2021_usip_6b.ctree)
#head(data_train_six$Success)
pred2021_usip_6b.ctree.num.test  <- as.numeric(pred2021_usip_6b.ctree)
#head(pred2021_usip_6b.ctree.num.test)
pred2021_usip_6b.ctree.num <- as.numeric(pred2021_usip_6b.ctree) - 1
#pred2021_usip_6b.ctree.num
#length(pred2021_usip_6b.ctree)
#length(data_train_six$Success)

prop.table(table(pred2021_usip_6b.ctree.num, data_train_six$Success), 2)
```

```
##
## pred2021_usip_6b.ctree.num          0          1
##                          0 0.95918367 0.20000000
##                          1 0.04081633 0.80000000
```

```
################### Predicting Test Set ###################################

pred2021_usip_6b_test.ctree.num <-predict(modl2021_usip_6b.ctree,
                                          data_test_six, type = "class")

prop.table(table(pred2021_usip_6b_test.ctree.num, data_test_six$Success), 2)
```

```
##
## pred2021_usip_6b_test.ctree.num 0 1
##                               0 1 1
##                               1 0 0
```

```
##############################################################################
##############################################################################
# Provisions and Identified Controls
##############################################################################
##############################################################################

modl2021_usip_6c.ctree <- rpart(as.factor(data_train_six$Success) ~
Incl_p_con_soc_gender_Enab + Int_med_UN + Hyb_just_Enab + vdem_corr ,
data = data_train_six,
control =  list(cp = 0.0000000001, minbucket = 2))

rpart.plot(modl2021_usip_6c.ctree, type = 4, varlen = -12, faclen = 4)
```

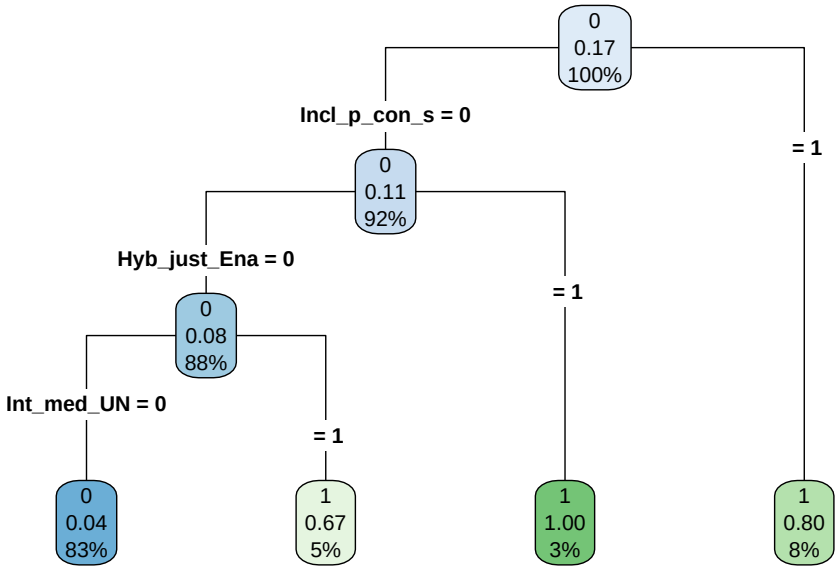


Figure A.9: Decision Tree for Provisions and Identified Controls (Last Six Tries).

```
pdf(file = 'six_years_iden_provisions_iden_controls.pdf')
dev.off()
```

```
## pdf
##   2
```

```
### Examine fitted values:
pred2021_usip_6c.ctree <- predict(modl2021_usip_6c.ctree, type = "class")
#pred2021_usip_6c.ctree
pred2021_usip_6c.ctree.prop <- predict(modl2021_usip_6c.ctree, type = "prob")
#pred2021_usip_6c.ctree.prop
pred2021_usip_6c.ctree.prop <- predict(modl2021_usip_6c.ctree, type = "prob")
#head(pred2021_usip_6c.ctree)
#head(data_train_six$Success)
pred2021_usip_6c.ctree.num.test  <- as.numeric(pred2021_usip_6c.ctree)
#head(pred2021_usip_6c.ctree.num.test)
pred2021_usip_6c.ctree.num <- as.numeric(pred2021_usip_6c.ctree) - 1
#pred2021_usip_6c.ctree.num
#length(pred2021_usip_6c.ctree)
#length(data_train_six$Success)

prop.table(table(pred2021_usip_6c.ctree.num, data_train_six$Success), 2)
```

```
##
## pred2021_usip_6c.ctree.num          0          1
##                          0 0.95918367 0.20000000
##                          1 0.04081633 0.80000000
```

```
################## Predicting Test Set #########################

pred2021_usip_6c_test.ctree.num <-predict(modl2021_usip_6c.ctree,
                                          data_test_six, type = "class")

prop.table(table(pred2021_usip_6c_test.ctree.num, data_test_six$Success), 2)
```

```
##
## pred2021_usip_6c_test.ctree.num 0 1
##                               0 1 1
##                               1 0 0
```

```
#############################################################################
#############################################################################
######################### Provisions and GDP  ###############################
#############################################################################
#############################################################################

modl2021_usip_6d.ctree <- rpart(as.factor(data_train_six$Success) ~
Incl_p_con_soc_gender_Enab + Int_med_UN + Hyb_just_Enab + wdi_gdpcapgr
, data = data_train_six, control =  list(cp = 0.0000000001, minbucket = 2))
rpart.plot(modl2021_usip_6d.ctree, type = 4, varlen = -12, faclen = 4)
```

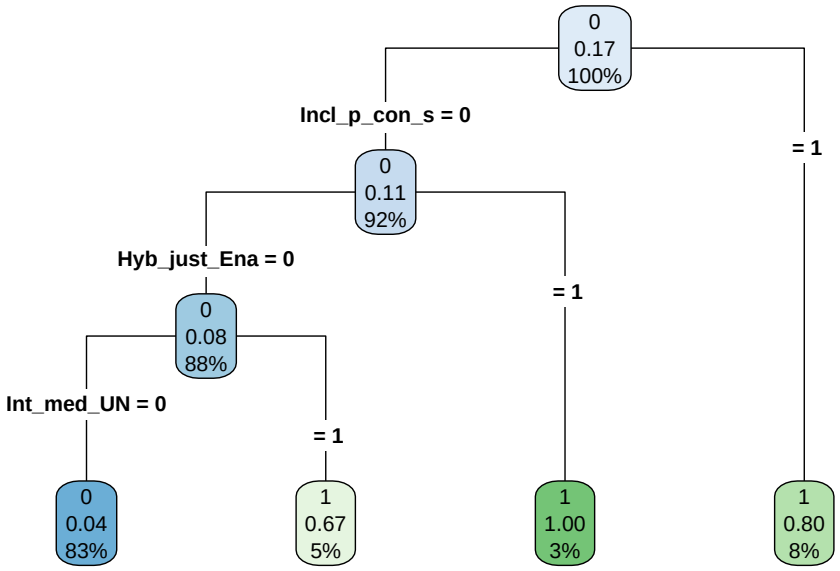


Figure A.10: Decision Tree for Provisions and GDP (Last Six Tries).

```
pdf(file = 'six_years_iden_provisions_gdp.pdf')
dev.off()
```

```
## pdf
##   2
```

```
### Examine fitted values:
pred2021_usip_6d.ctree <- predict(modl2021_usip_6d.ctree, type = "class")
#pred2021_usip_6d.ctree
pred2021_usip_6d.ctree.prop <- predict(modl2021_usip_6d.ctree, type = "prob")
```

```r
#pred2021_usip_6d.ctree.prop
pred2021_usip_6d.ctree.prop <- predict(modl2021_usip_6d.ctree, type = "prob")
#head(pred2021_usip_6d.ctree)
#head(data_train_six$Success)
pred2021_usip_6d.ctree.num.test  <- as.numeric(pred2021_usip_6d.ctree)
#head(pred2021_usip_6d.ctree.num.test)
pred2021_usip_6d.ctree.num <- as.numeric(pred2021_usip_6d.ctree) - 1
#pred2021_usip_6d.ctree.num
#length(pred2021_usip_6d.ctree)
#length(data_train_six$Success)

prop.table(table(pred2021_usip_6d.ctree.num, data_train_six$Success), 2)
```

```
##
## pred2021_usip_6d.ctree.num          0          1
##                          0 0.95918367 0.20000000
##                          1 0.04081633 0.80000000
```

```r
################### Predicting Test Set ########################################

pred2021_usip_6d_test.ctree.num <-predict(modl2021_usip_6d.ctree,
                                          data_test_six, type = "class")

prop.table(table(pred2021_usip_6d_test.ctree.num, data_test_six$Success), 2)
```

```
##
## pred2021_usip_6d_test.ctree.num 0 1
##                               0 1 1
##                               1 0 0
```

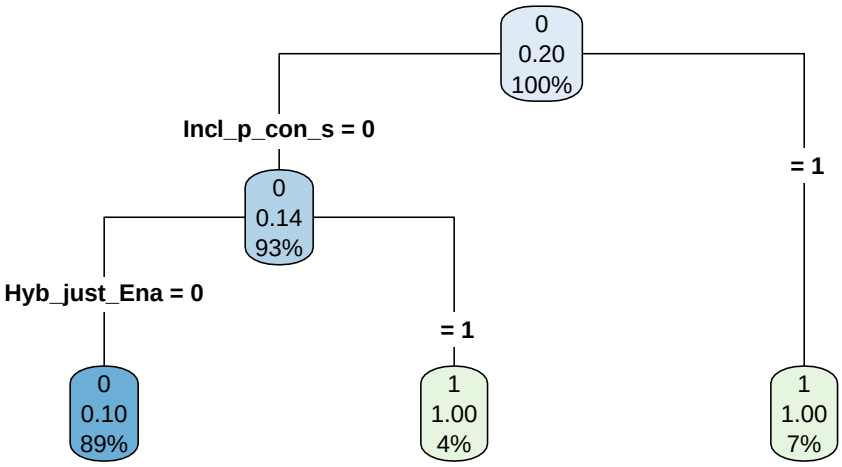
```
library(rpart)
library(rpart.plot)
library(tidyverse)
library(writexl)
```

```
# Initialize empty lists to store results
model_results_list_5 <- list()
used_vars_list_5 <- list()

# Create a directory for plots (if it doesn't exist)
if (!dir.exists("Decision_Tree_Plots")) {
  dir.create("Decision_Tree_Plots")
}

# Loop over peace_process values from 1 to 14
for (i in 1:14) {

# Subset data excluding the current peace_process
data_train_five_i <- subset(data_train_five, peace_process != i)

# Fit the rpart model
model <- rpart(as.factor(Success) ~
Amnesty_Enabling + Amn_Presc + Amn_Rec +
Anti_corr_Enab + Anti_corr_Presc + Anti_corr_Rec +
Change_leader + Child_sol_Enab + Child_sol_Presc +
Child_sol_Rec + Election_Enab + Election_Presc +
Election_Rec + Confl_crime_vet_Enab  + Confl_crime_vet_Pres +
Demob_Enab + Demob_Pres + Demob_Rec + Demob_gender + Disam_Enab +
Disarm_Presc + Disarm_Rec  + Disarm_gender + Econ_recov_devel_Enab +
Econ_recov_devel_Presc + Econ_recov_devel_Rec +
Econ_recov_devel_margin_groups_E + Econ_recov_devel_margin_groups_P +
Econ_recov_devel_margin_groups_R + Exch_infor_mil_capab_Enab +
Exch_infor_mil_capab_Presc + Exch_infor_mil_capab_Rec +
Hyb_just_Enab + Hyb_just_Presc + Hyb_just_Rec +
Incl_p_con_soc_civ_soc_Enab + Incl_p_con_soc_civ_soc_Presc +
Incl_p_con_soc_civ_soc_Rec + Incl_p_con_soc_gender_Enab + Incl_p_con_soc_gender_Presc +
Incl_p_con_soc_gender_Rec + Incl_p_con_soc_indig_Enab +
Incl_p_con_soc_indig_Presc + Incl_p_con_soc_indig_Rec +
Incl_p_con_soc_disadv_grps_Enab + Incl_p_con_soc_disadv_grps_Presc +
Incl_p_con_soc_disadv_grps_Rec + Incl_p_con_soc_victim_Enab +
Incl_p_con_soc_victim_Presc + Incl_p_con_soc_victim_Rec +
Incl_p_con_soc_youth_Enab + Incl_p_con_soc_youth_Presc +
Incl_p_con_soc_youth_Rec + Incl_negot_civ_soc + Incl_negot_Gender +
Incl_negot_victim + Int_inv_impl_assi_Enab + Int_inv_impl_assi_Presc +
Int_inv_impl_assi_Rec + Int_invl_mon_ver_Enab + Int_invl_mon_ver_Presc +
Int_invl_mon_ver_Rec + Int_invl_mon_ver_hyb_Enab + Int_invl_mon_ver_hyb_Presc +
Int_invl_mon_ver_hyb_Rec + Int_invl_PKO_Enab + Int_invl_PKO_Presc +
Int_invl_PKO_Rec + Inter_obs_wthdr_Enab + Inter_obs_wthdr_Presc +
Inter_obs_wthdr_Rec + Indiv_Mediator + Int_med_states + Int_med_other_bod +
Int_med_regi_org + Int_med_UN + Mech_dial_Enab + Mech_dial_Presc +
Mech_dial_Rec + Media_ref_Enab + Media_ref_Presc + Media_ref_Rec +
Mediation_gender + Mediation_Hyb + Non_ter_auton_Enab +
Non_ter_auton_Presc + Non_ter_auton_Rec + Prison_rel_Enab +
Prison_rel_Presc + Prison_rel_Rec + Prohib_prop_Enab +
```

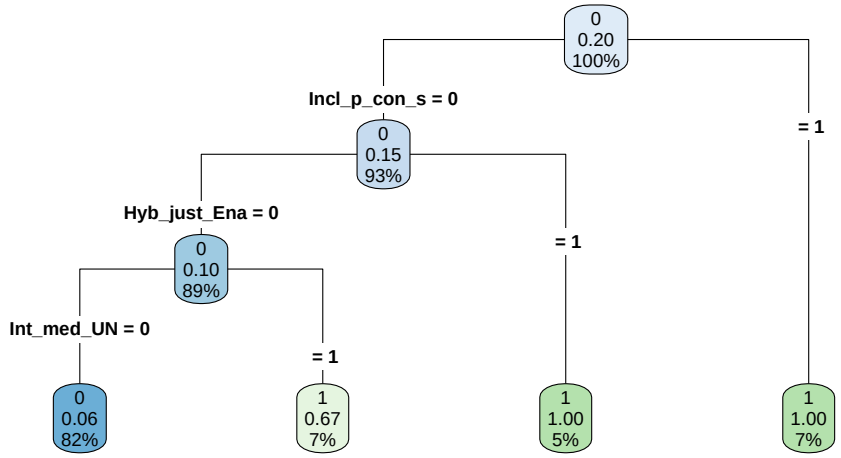
```
Prohib_prop_Presc + Prohib_prop_Rec + Prosec_conf_crim_Enab +
Prosec_conf_crim_Presc + Prosec_conf_crim_Rec + Prot_leader_war_part +
PS_admin_Enab + PS_admin_Presc + PS_admin_Rec + PS_admin_gender_Enab +
PS_admin_gender_Presc + PS_admin_gender_Rec + PS_milit_Enab + PS_milit_Presc +
PS_milit_Rec + PS_milit_gender_Enab + PS_milit_gender_Presc +
PS_milit_gender_Rec + PS_other_bod_Enab + PS_other_bod_Presc +
PS_other_bod_Rec + PS_other_bod_gender_Enab + PS_other_bod_gender_Presc +
PS_other_bod_gender_Rec + PS_polit_Enab + PS_polit_Presc +
PS_polit_Rec + PS_polit_gender_Enab +
PS_polit_gender_Presc + PS_polit_gender_Rec + Rebel_fragm_Excl +
Rebel_fragm_Incl + Reinteg_Enab + Reinteg_Pres + Reinteg_Rec +
Reinteg_gender + Restor_meas_gender_Enab + Restor_meas_gender_Presc +
Restor_meas_gender_Rec + Restor_meas_incl + Restor_meas_recon_bod_Enab +
Restor_meas_recon_bod_Presc + Restor_meas_recon_bod_Rec +
Restor_meas_repar_Enab + Restor_meas_repar_Presc + Restor_meas_repar_Rec +
Restor_meas_truth_Enabling + Restor_meas_truth_Presc + Restor_meas_truth_Rec +
Sequenc_prov + SSR_jnt_arm_Enab + SSR_jnt_arm_Presc + SSR_jnt_arm_Rec +
SSR_jnt_arm_gender + SSR_exist_forc_Enab + SSR_exist_forc_Presc +
SSR_exist_forc_Rec + SSR_exist_forc_gender + Transf_pol_part_Enab +
Transf_pol_part_Presc + Transf_pol_part_Rec + TSG_fiscal_Enab +
TSG_fiscal_Presc + TSG_fiscal_Rec + TSG_econ_enab + TSG_econ_Presc +
TSG_econ_Rec + TSG_edu_cult_Enab + TSG_edu_cult_Presc + TSG_edu_cult_Rec +
TSG_secur_Enab + TSG_secur_Presc + TSG_secur_Rec + TSG_welfare_Enab +
TSG_welfare_Presc + TSG_welfare_Rec + TSG_PS_local_Enab +
TSG_PS_local_Presc + TSG_PS_local_Rec + TSG_rep_parl_Enab +
TSG_rep_parl_Presc + TSG_rep_parl_Rec + Wthdrwl_foreign_forc_Enab +
Wthdrwl_foreign_forc_Presc + Wthdrwl_foreign_forc_Rec,
data = data_train_five_i,
control =  list(cp = 0.0000000001, minbucket = 2))

# Store model summary
model_results_list_5[[i]] <- data.frame(Peace_Process = i,
                                        Summary = capture.output(print(model)))

# Extract only variables that appear in the tree (not all important variables)
used_vars <- unique(model$frame$var)
used_vars <- used_vars[used_vars != "<leaf>"] # Remove "<leaf>" appears model output

used_vars_list_5[[i]] <- data.frame(Peace_Process = i, Variable = used_vars)

# Save the decision tree plot as a PNG file
png(filename = sprintf("Decision_Tree_Plots/decision_tree_peace_process_%d.png",
                       i), width = 1200, height = 800)
rpart.plot(model, type = 4, varlen = -12, faclen = 4,
           main = sprintf("Decision Tree for Excluding Peace Process %d", i))
dev.off()

 # Plot the tree directly in the R console
  rpart.plot(model, type = 4, varlen = -12, faclen = 4,
             main = sprintf("Decision Tree for Excluding Peace Process %d", i),
             cex.main = 1.0)
}
```

Robustness 2: Check for Robust Pattern: Jackknife Five and Six Tries

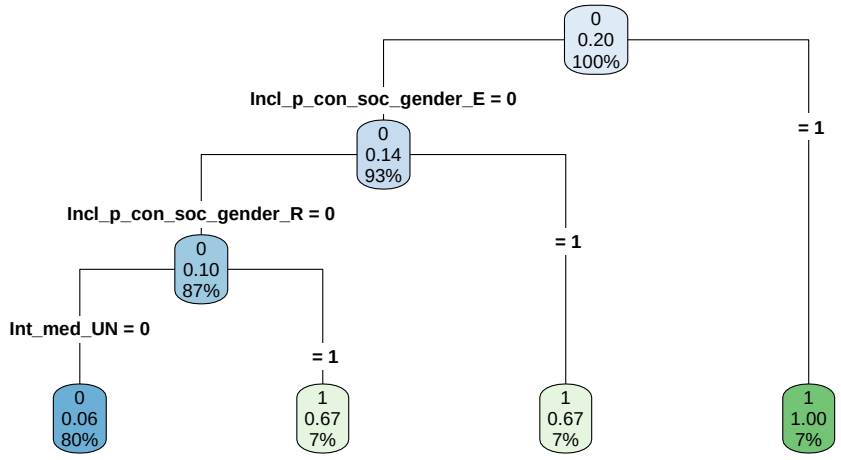
Decision Tree for Excluding Peace Process 1



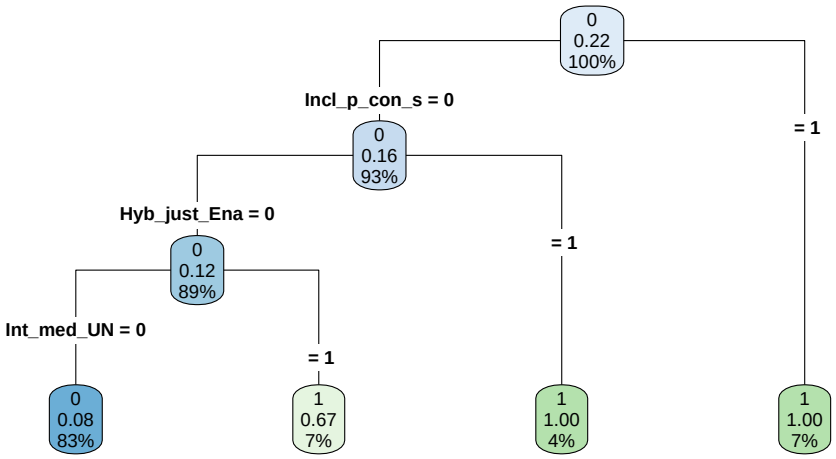
Decision Tree for Excluding Peace Process 2



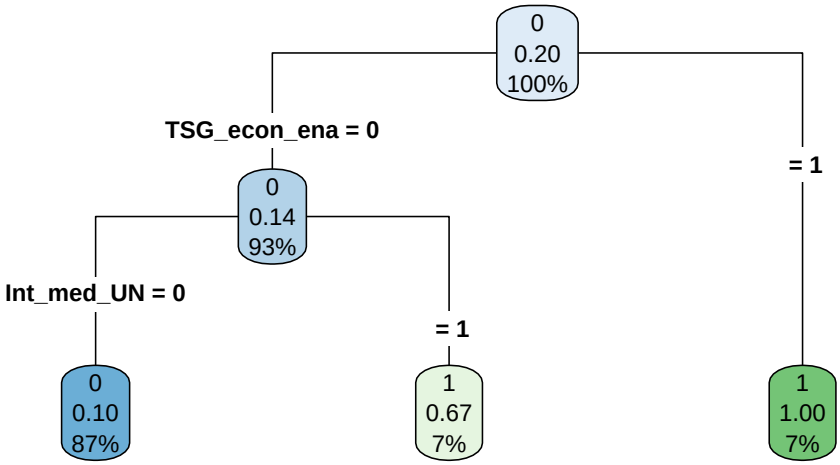
Decision Tree for Excluding Peace Process 3



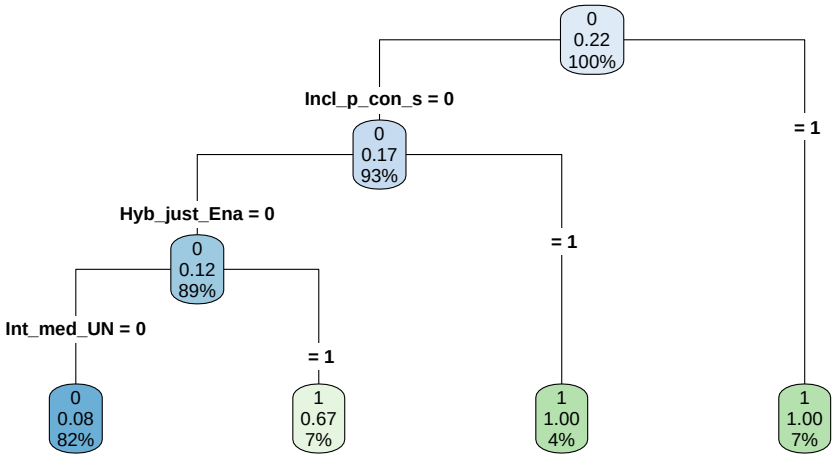
Decision Tree for Excluding Peace Process 4



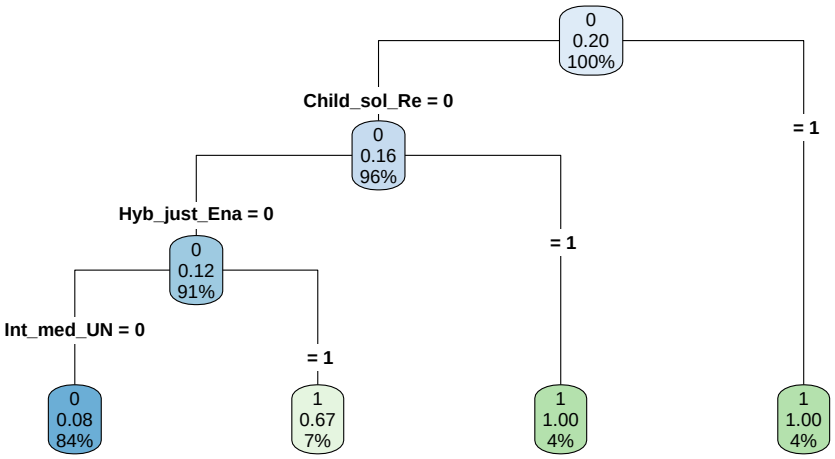
Decision Tree for Excluding Peace Process 5



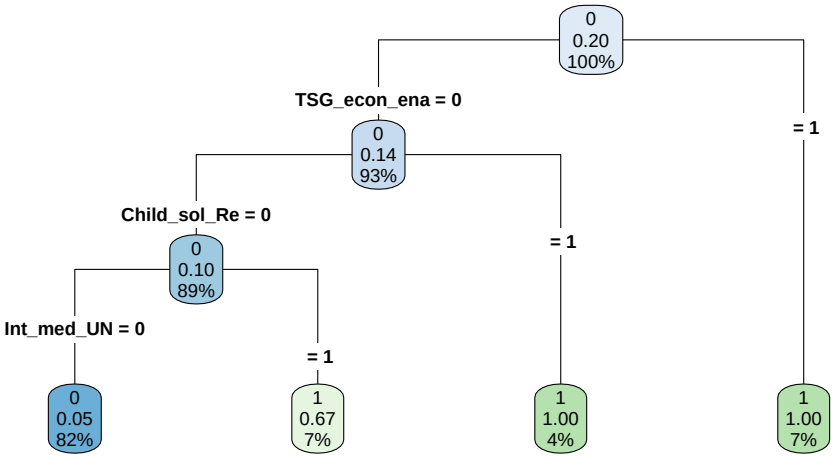
Decision Tree for Excluding Peace Process 6



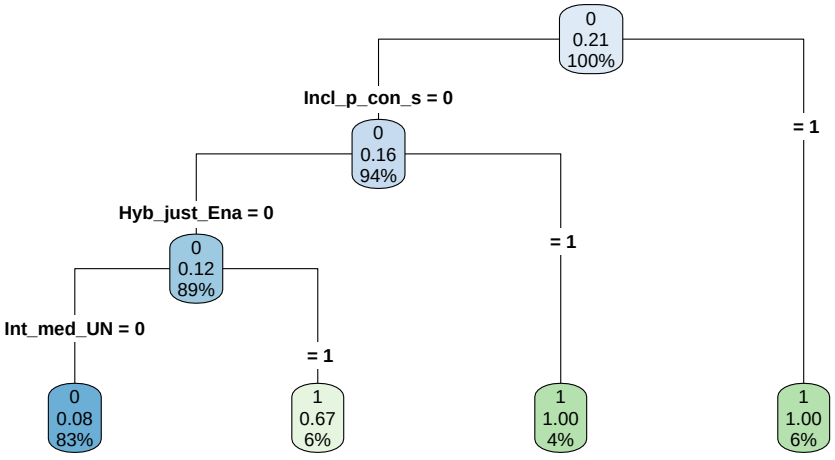
Decision Tree for Excluding Peace Process 7



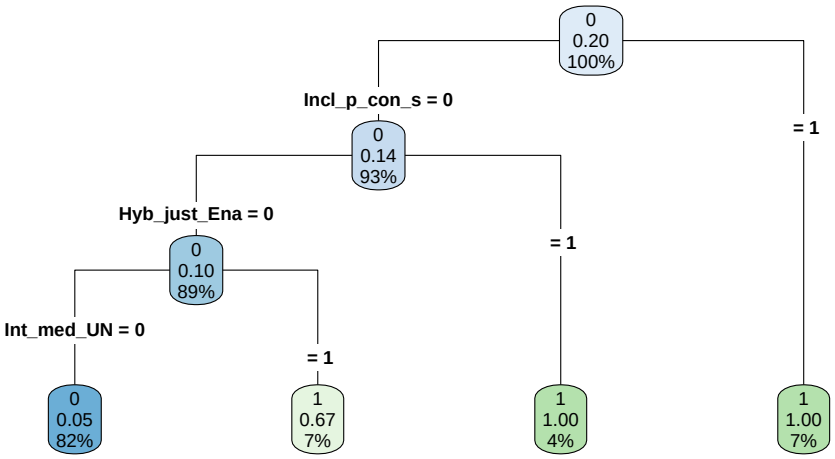
Decision Tree for Excluding Peace Process 8



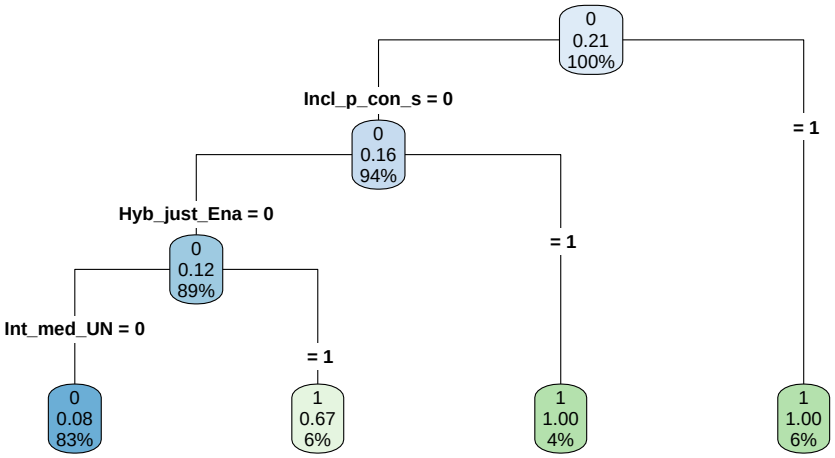
Decision Tree for Excluding Peace Process 9



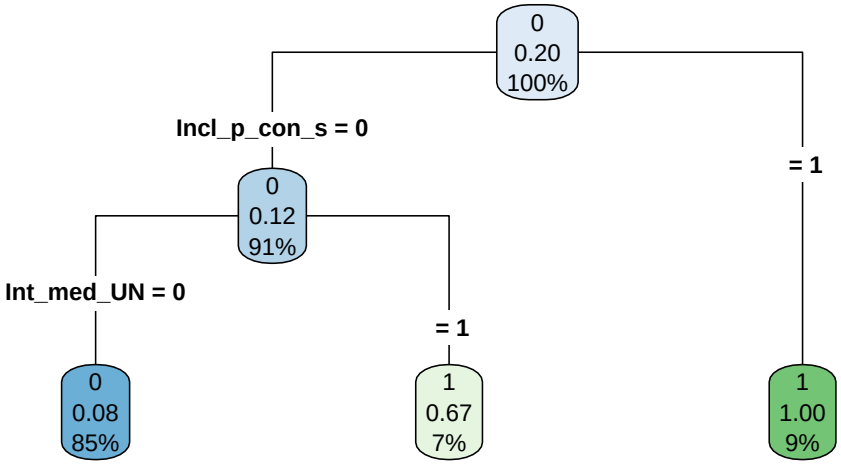
Decision Tree for Excluding Peace Process 10



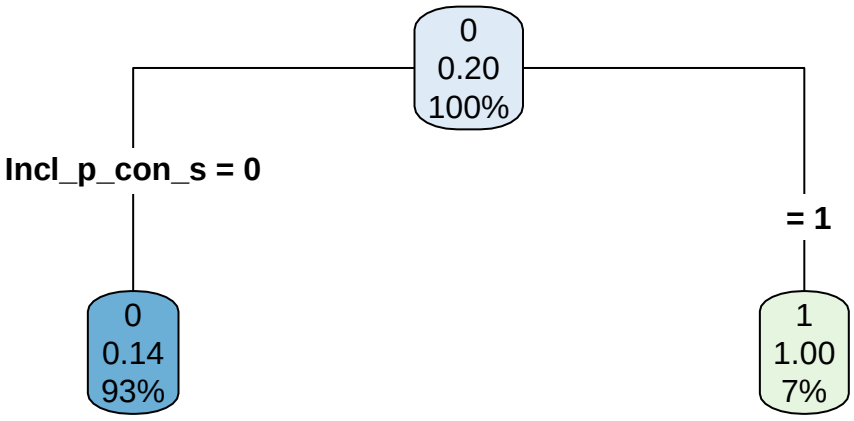
Decision Tree for Excluding Peace Process 11



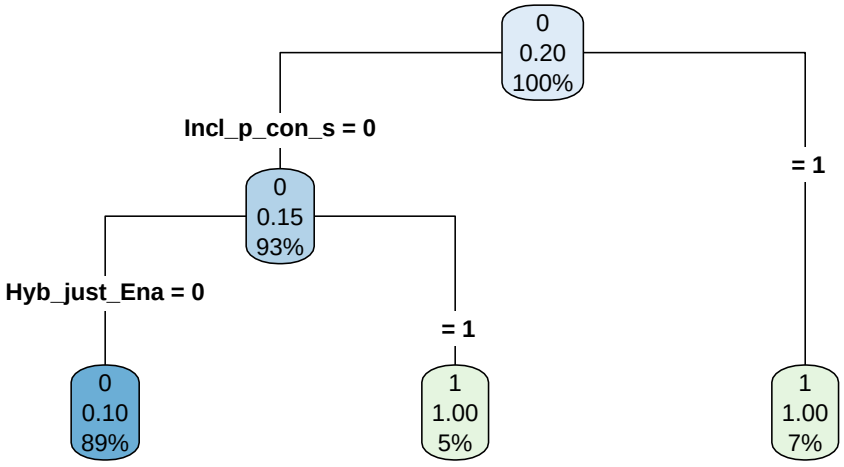
Decision Tree for Excluding Peace Process 12



Decision Tree for Excluding Peace Process 13



Decision Tree for Excluding Peace Process 14



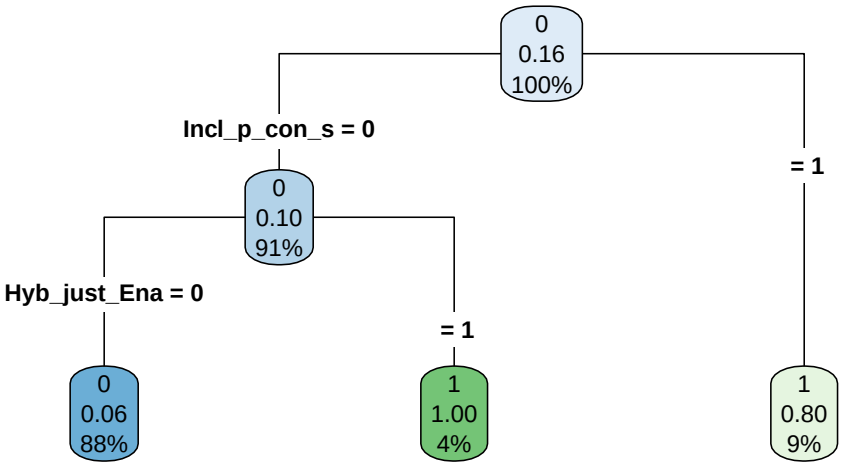

```
# Combine results for Jackknife 5
final_results_5 <- do.call(rbind, model_results_list_5)
final_used_vars_5 <- do.call(rbind, used_vars_list_5)

# Add explicit "Variable" column before pivoting
df_wide_5 <- final_used_vars_5 %>%
  mutate(Value = 1) %>%
  pivot_wider(names_from = Peace_Process, values_from = Value,
              values_fill = list(Value = 0)) %>%
  mutate(Jackknife = "Jackknife_5")


# Export results for Jackknife 5
write_xlsx(final_results_5, "jackknife5_model_results.xlsx")
write_xlsx(df_wide_5, "jackknife5_transformed_data.xlsx")

print("All results saved successfully!")
```

```
## [1] "All results saved successfully!"
```

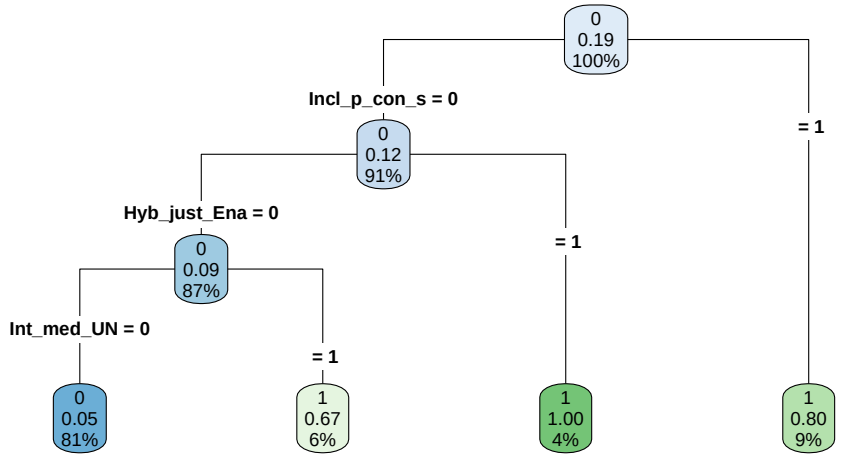
```r
# Initialize empty lists to store results
model_results_list_6 <- list()
used_vars_list_6 <- list()

# Create a directory for plots (if it doesn't exist)
if (!dir.exists("Decision_Tree_Plots")) {
  dir.create("Decision_Tree_Plots")
}

# Loop over peace_process values from 1 to 14
for (i in 1:14) {

# Subset data excluding the current peace_process
data_train_six_i <- subset(data_train_six, peace_process != i)

# Fit the rpart model
model <- rpart(as.factor(Success) ~
Amnesty_Enabling + Amn_Presc + Amn_Rec +
Anti_corr_Enab + Anti_corr_Presc + Anti_corr_Rec +
Change_leader + Child_sol_Enab + Child_sol_Presc +
Child_sol_Rec + Election_Enab + Election_Presc +
Election_Rec + Confl_crime_vet_Enab  + Confl_crime_vet_Pres +
Demob_Enab + Demob_Pres + Demob_Rec + Demob_gender + Disam_Enab +
Disarm_Presc + Disarm_Rec  + Disarm_gender + Econ_recov_devel_Enab +
Econ_recov_devel_Presc + Econ_recov_devel_Rec +
Econ_recov_devel_margin_groups_E + Econ_recov_devel_margin_groups_P +
Econ_recov_devel_margin_groups_R + Exch_infor_mil_capab_Enab +
Exch_infor_mil_capab_Presc + Exch_infor_mil_capab_Rec +
Hyb_just_Enab + Hyb_just_Presc + Hyb_just_Rec +
Incl_p_con_soc_civ_soc_Enab + Incl_p_con_soc_civ_soc_Presc +
Incl_p_con_soc_civ_soc_Rec + Incl_p_con_soc_gender_Enab + Incl_p_con_soc_gender_Presc +
Incl_p_con_soc_gender_Rec + Incl_p_con_soc_indig_Enab +
Incl_p_con_soc_indig_Presc + Incl_p_con_soc_indig_Rec +
Incl_p_con_soc_disadv_grps_Enab + Incl_p_con_soc_disadv_grps_Presc +
Incl_p_con_soc_disadv_grps_Rec + Incl_p_con_soc_victim_Enab +
Incl_p_con_soc_victim_Presc + Incl_p_con_soc_victim_Rec +
Incl_p_con_soc_youth_Enab + Incl_p_con_soc_youth_Presc +
Incl_p_con_soc_youth_Rec + Incl_negot_civ_soc + Incl_negot_Gender +
Incl_negot_victim + Int_inv_impl_assi_Enab + Int_inv_impl_assi_Presc +
Int_inv_impl_assi_Rec + Int_invl_mon_ver_Enab + Int_invl_mon_ver_Presc +
Int_invl_mon_ver_Rec + Int_invl_mon_ver_hyb_Enab + Int_invl_mon_ver_hyb_Presc +
Int_invl_mon_ver_hyb_Rec + Int_invl_PKO_Enab + Int_invl_PKO_Presc +
Int_invl_PKO_Rec + Inter_obs_wthdr_Enab + Inter_obs_wthdr_Presc +
Inter_obs_wthdr_Rec + Indiv_Mediator + Int_med_states + Int_med_other_bod +
Int_med_regi_org + Int_med_UN + Mech_dial_Enab + Mech_dial_Presc +
Mech_dial_Rec + Media_ref_Enab + Media_ref_Presc + Media_ref_Rec +
Mediation_gender + Mediation_Hyb + Non_ter_auton_Enab +
Non_ter_auton_Presc + Non_ter_auton_Rec + Prison_rel_Enab +
Prison_rel_Presc + Prison_rel_Rec + Prohib_prop_Enab +
Prohib_prop_Presc + Prohib_prop_Rec + Prosec_conf_crim_Enab +
Prosec_conf_crim_Presc + Prosec_conf_crim_Rec + Prot_leader_war_part +
PS_admin_Enab + PS_admin_Presc + PS_admin_Rec + PS_admin_gender_Enab +
PS_admin_gender_Presc + PS_admin_gender_Rec + PS_milit_Enab + PS_milit_Presc +
PS_milit_Rec + PS_milit_gender_Enab + PS_milit_gender_Presc +
PS_milit_gender_Rec + PS_other_bod_Enab + PS_other_bod_Presc +
PS_other_bod_Rec + PS_other_bod_gender_Enab + PS_other_bod_gender_Presc +
```

```
PS_other_bod_gender_Rec + PS_polit_Enab + PS_polit_Presc +
PS_polit_Rec + PS_polit_gender_Enab +
PS_polit_gender_Presc + PS_polit_gender_Rec + Rebel_fragm_Excl +
Rebel_fragm_Incl + Reinteg_Enab + Reinteg_Pres + Reinteg_Rec +
Reinteg_gender + Restor_meas_gender_Enab + Restor_meas_gender_Presc +
Restor_meas_gender_Rec + Restor_meas_incl + Restor_meas_recon_bod_Enab +
Restor_meas_recon_bod_Presc + Restor_meas_recon_bod_Rec +
Restor_meas_repar_Enab + Restor_meas_repar_Presc + Restor_meas_repar_Rec +
Restor_meas_truth_Enabling + Restor_meas_truth_Presc + Restor_meas_truth_Rec +
Sequenc_prov + SSR_jnt_arm_Enab + SSR_jnt_arm_Presc + SSR_jnt_arm_Rec +
SSR_jnt_arm_gender + SSR_exist_forc_Enab + SSR_exist_forc_Presc +
SSR_exist_forc_Rec + SSR_exist_forc_gender + Transf_pol_part_Enab +
Transf_pol_part_Presc + Transf_pol_part_Rec + TSG_fiscal_Enab +
TSG_fiscal_Presc + TSG_fiscal_Rec + TSG_econ_enab + TSG_econ_Presc +
TSG_econ_Rec + TSG_edu_cult_Enab + TSG_edu_cult_Presc + TSG_edu_cult_Rec +
TSG_secur_Enab + TSG_secur_Presc + TSG_secur_Rec + TSG_welfare_Enab +
TSG_welfare_Presc + TSG_welfare_Rec + TSG_PS_local_Enab +
TSG_PS_local_Presc + TSG_PS_local_Rec + TSG_rep_parl_Enab +
TSG_rep_parl_Presc + TSG_rep_parl_Rec + Wthdrwl_foreign_forc_Enab +
Wthdrwl_foreign_forc_Presc + Wthdrwl_foreign_forc_Rec,
data = data_train_six_i,
control = rpart.control(cp = 0.0000000001, minbucket = 2))

# Store model summary
model_results_list_6[[i]] <- data.frame(Peace_Process = i, Summary =
                                        capture.output(print(model)))

# Extract only variables that appear in the tree (not all important variables)
used_vars <- unique(model$frame$var)
used_vars <- used_vars[used_vars != "<leaf>"]  # Remove "<leaf>" from output

used_vars_list_6[[i]] <- data.frame(Peace_Process = i, Variable = used_vars)

# Save the decision tree plot as a PNG file
png(filename = sprintf("Decision_Tree_Plots/decision_tree_peace_process_%d.png",
                       i), width = 1200, height = 800)
rpart.plot(model, type = 4, varlen = -12, faclen = 4, main =
             sprintf("Decision Tree for Excluding Peace Process %d", i))
dev.off()

 # Plot the tree directly in the R console
  rpart.plot(model, type = 4, varlen = -12, faclen = 4,
             main = sprintf("Decision Tree for Peace Process %d", i),
             cex.main = 1.0)
}
```

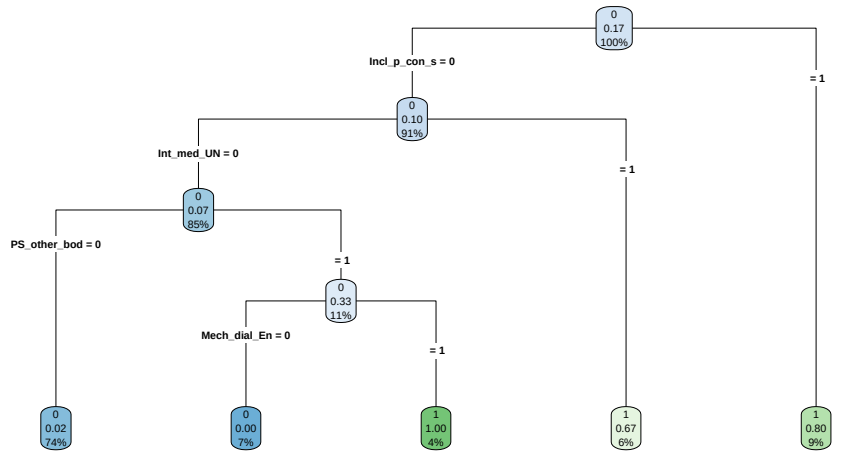
Decision Tree for Peace Process 1



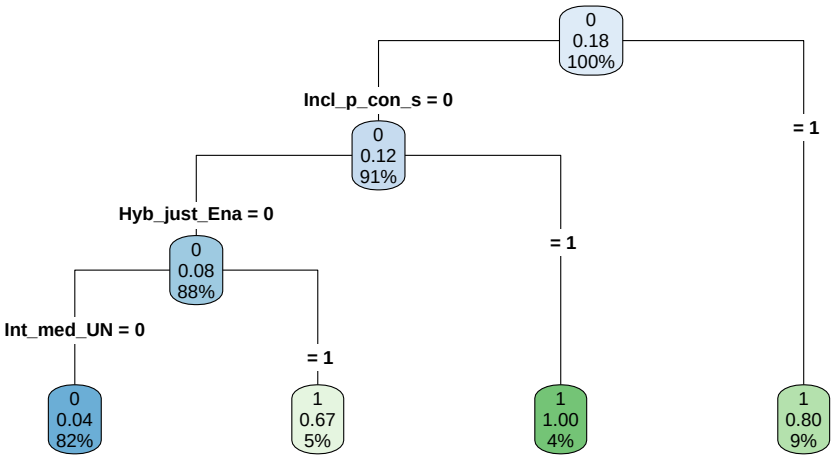
Decision Tree for Peace Process 2



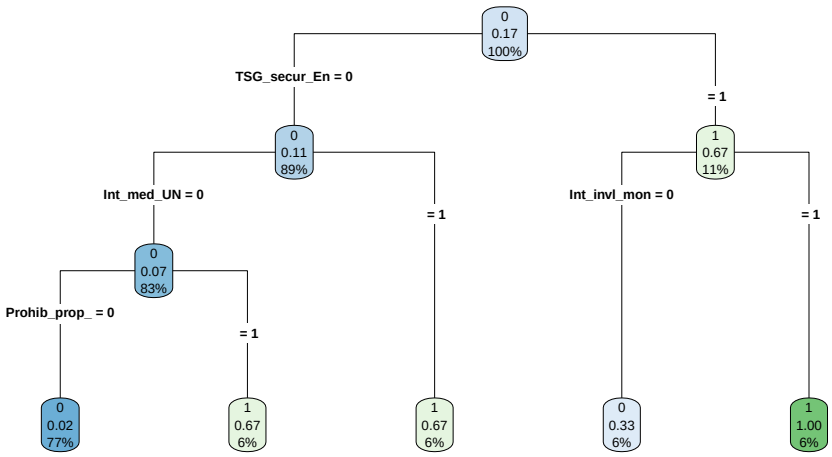
Decision Tree for Peace Process 3



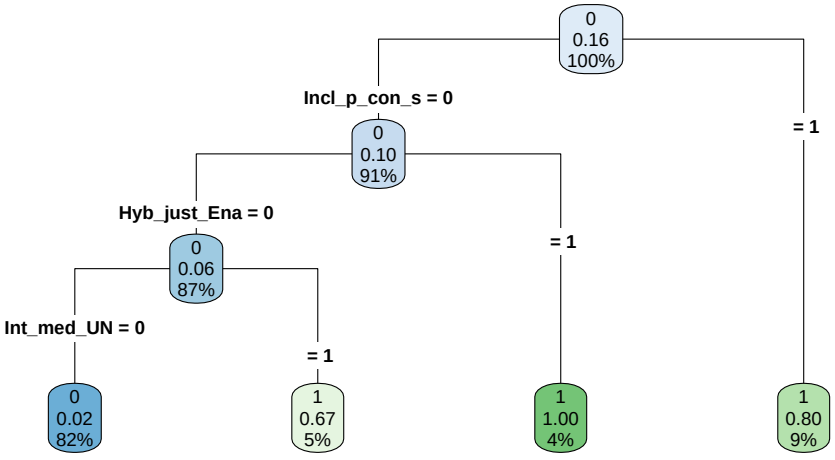
Decision Tree for Peace Process 4



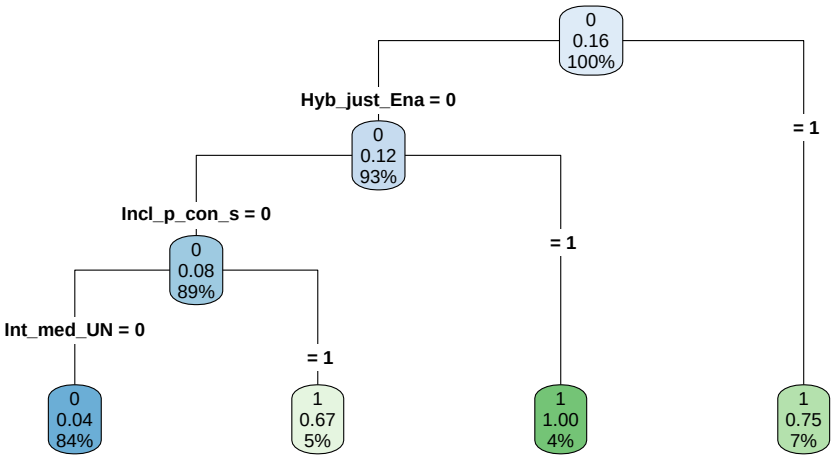
Decision Tree for Peace Process 5



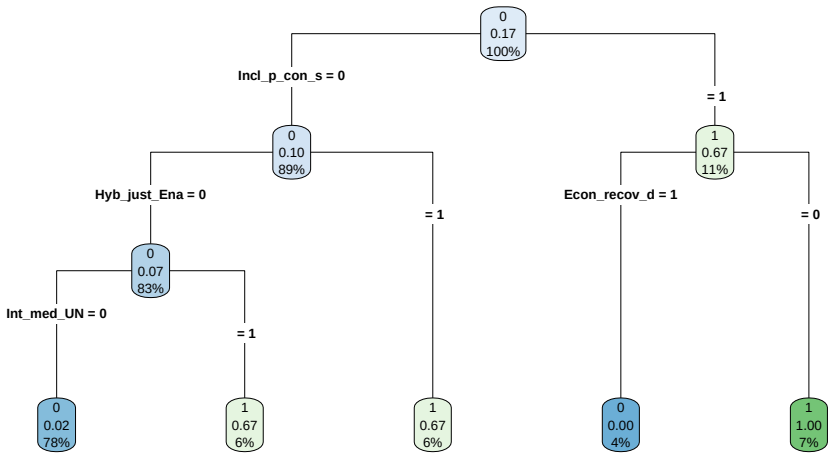
Decision Tree for Peace Process 6



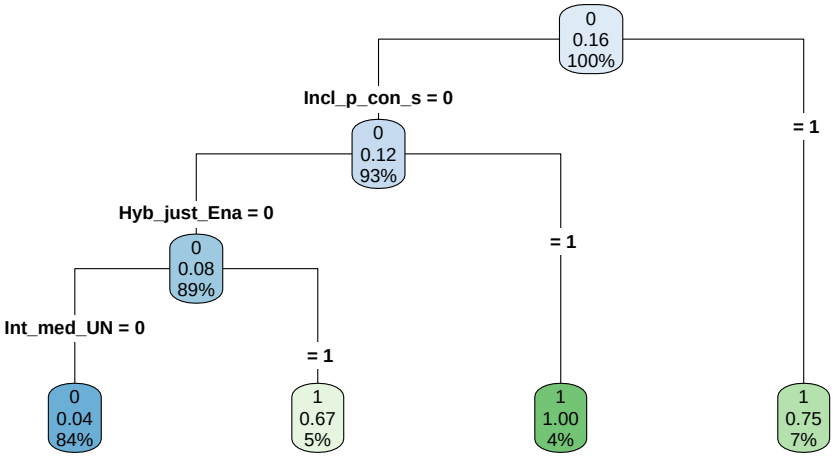
Decision Tree for Peace Process 7



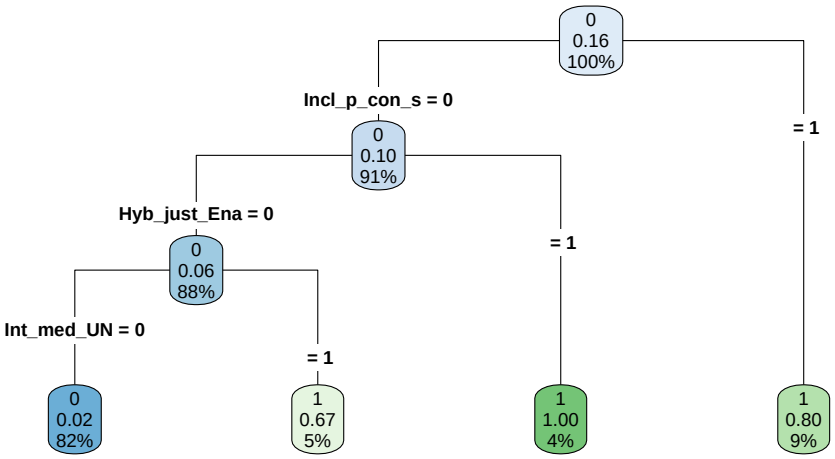
Decision Tree for Peace Process 8



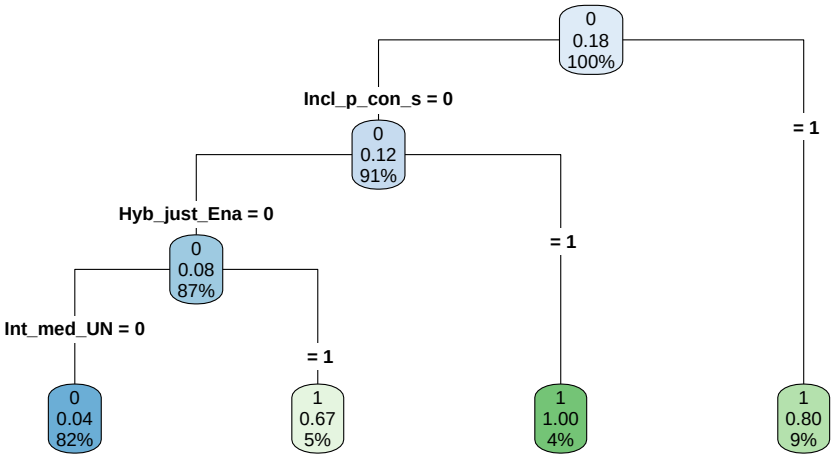
Decision Tree for Peace Process 9



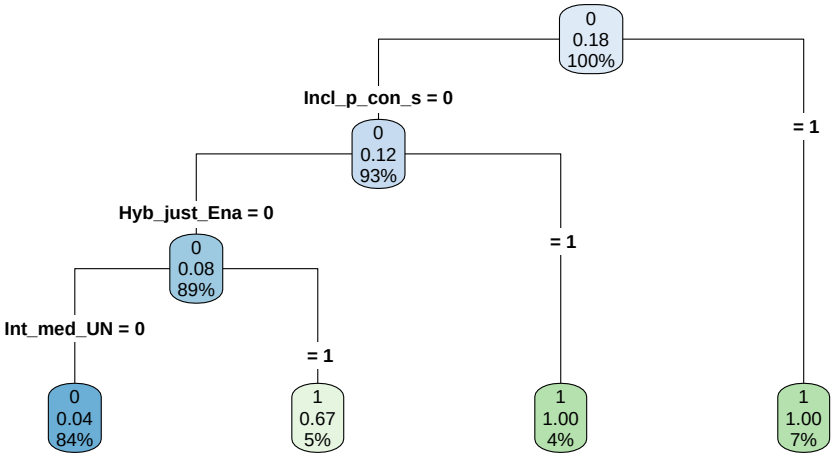
Decision Tree for Peace Process 10

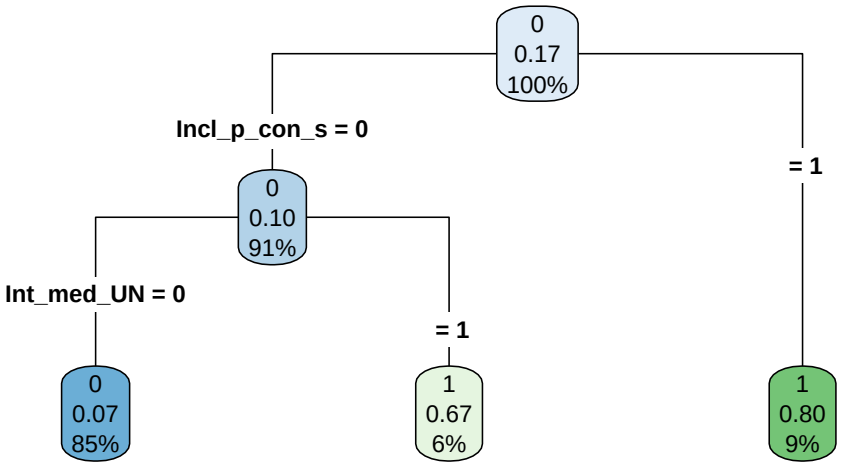


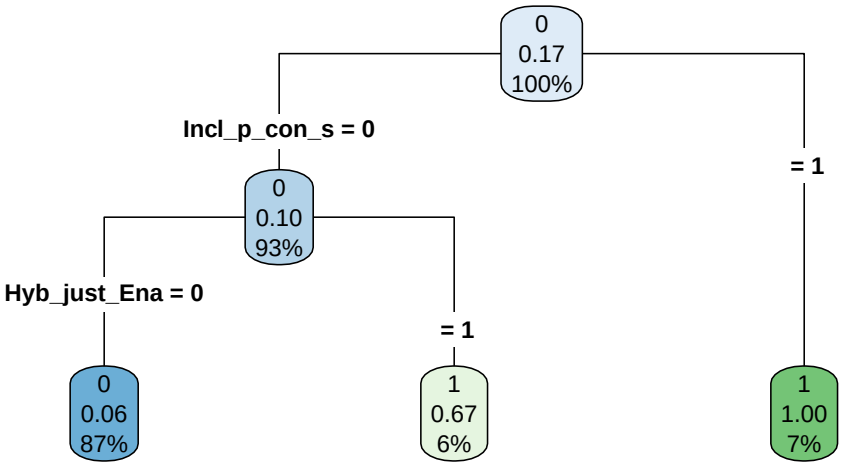
Decision Tree for Peace Process 11



Decision Tree for Peace Process 12








```
# Combine results for Jackknife 6
final_results_6 <- do.call(rbind, model_results_list_6)
final_used_vars_6 <- do.call(rbind, used_vars_list_6)

#df_wide_6 <- final_used_vars_6 %>%
#  mutate(Value = 1) %>%  # TRUE to 1
#  pivot_wider(names_from = Variable, values_from = Value,
#values_fill = list(Value = 0)) # FALSE to 0

df_wide_6 <- final_used_vars_6 %>%
  mutate(Value = 1) %>%
  pivot_wider(names_from = Peace_Process, values_from = Value,
              values_fill = list(Value = 0)) %>%
  mutate(Jackknife = "Jackknife_6")



# Export results for Jackknife 6
write_xlsx(final_results_6, "jackknife6_model_results.xlsx")
write_xlsx(df_wide_6, "jackknife6_transformed_data.xlsx")
```

```r
print("All results saved successfully!")
```

```
## [1] "All results saved successfully!"
```

```
##############################################################################
##############################################################################
######################### Boosting Tree C50 ##################################
##############################################################################
##############################################################################


library(C50)

# Define factor levels based on your classification problem
levels <- c("0", "1")  # Adjust these to match your data factor levels

# Create cost matrix with proper dimnames
error_cost <- matrix(c(0, 5,   # Cost of misclassifying "0" as "1"
                       1, 0),  # Cost of misclassifying "1" as "0"
                     nrow = 2, byrow = TRUE)

dimnames(error_cost) <- list(Predicted = levels, Actual = levels)

# Train C5.0 model with the corrected cost matrix
C50.ctree_five_id_prov_id_control <- C5.0(
  as.factor(data_train_five$Success) ~ Incl_p_con_soc_gender_Enab + Int_med_UN +
    Hyb_just_Enab + wdi_gdpcapgr,
  data = data_train_five,
  trials = 5,
  rules = FALSE,
  costs = error_cost  # Ensure the cost matrix is correctly formatted
)

# Display model summary
summary(C50.ctree_five_id_prov_id_control)
```

Robustness 3: Boosted Trees Five Tries

```
##
## Call:
## C5.0.formula(formula = as.factor(data_train_five$Success)
##  ~ Incl_p_con_soc_gender_Enab + Int_med_UN + Hyb_just_Enab + wdi_gdpcapgr,
##  data = data_train_five, trials = 5, rules = FALSE, costs = error_cost)
##
##
## C5.0 [Release 2.07 GPL Edition]      Thu Jan 15 11:17:49 2026
## -------------------------------
##
## Class specified by attribute `outcome'
##
## Read 49 cases (5 attributes) from undefined.data
## Read misclassification costs from undefined.costs
##
## -----  Trial 0:  -----
##
## Decision tree:
##
## Incl_p_con_soc_gender_Enab > 0: 1 (3)
## Incl_p_con_soc_gender_Enab <= 0:
## :...Hyb_just_Enab > 0: 1 (2)
```

```
##     Hyb_just_Enab <= 0:
##     :...Int_med_UN <= 0: 0 (41/3)
##         Int_med_UN > 0: 1 (3/1)
##
## -----  Trial 1:  -----
##
## Decision tree:
##
## Incl_p_con_soc_gender_Enab > 0: 1 (2.4)
## Incl_p_con_soc_gender_Enab <= 0:
## :...Hyb_just_Enab > 0: 1 (1.6)
##     Hyb_just_Enab <= 0:
##     :...wdi_gdpcapgr > 4.021826: 1 (9.4/5.2)
##         wdi_gdpcapgr <= 4.021826:
##         :...wdi_gdpcapgr <= -9.684601: 1 (0.8)
##             wdi_gdpcapgr > -9.684601: 0 (31.6/1.7)
##
## -----  Trial 2:  -----
##
## Decision tree:
##
## Incl_p_con_soc_gender_Enab > 0: 1 (1.9)
## Incl_p_con_soc_gender_Enab <= 0:
## :...Hyb_just_Enab > 0: 1 (1.3)
##     Hyb_just_Enab <= 0:
##     :...Int_med_UN > 0: 1 (4.9/3.6)
##         Int_med_UN <= 0:
##         :...wdi_gdpcapgr > 4.611106: 0 (15.6)
##             wdi_gdpcapgr <= 4.611106:
##             :...wdi_gdpcapgr <= -0.211698: 0 (10.5)
##                 wdi_gdpcapgr > -0.211698: 1 (17.4/12.5)
##
## -----  Trial 3:  -----
##
## Decision tree:
##
## Incl_p_con_soc_gender_Enab > 0: 1 (1.5)
## Incl_p_con_soc_gender_Enab <= 0:
## :...Hyb_just_Enab > 0: 1 (1)
##     Hyb_just_Enab <= 0:
##     :...Int_med_UN <= 0: 0 (50.8/3.9)
##         Int_med_UN > 0: 1 (5.6/4.5)
##
## -----  Trial 4:  -----
##
## Decision tree:
##
## Incl_p_con_soc_gender_Enab > 0: 1 (1.4)
## Incl_p_con_soc_gender_Enab <= 0:
## :...wdi_gdpcapgr <= 4.021826:
##     :...Int_med_UN <= 0: 0 (27.6/0.5)
##     :   Int_med_UN > 0: 1 (0.5)
##     wdi_gdpcapgr > 4.021826:
##     :...wdi_gdpcapgr <= 4.611106: 1 (9.6/3.7)
##         wdi_gdpcapgr > 4.611106: 0 (11.5/0.5)
##
```

```
##
## Evaluation on training data (49 cases):
##
## Trial           Decision Tree
## -----      ----------------------
##    Size      Errors   Cost
##
##    0      4    4( 8.2%)   0.33
##    1      5    7(14.3%)   0.22
##    2      6   16(32.7%)   0.33
##    3      4    4( 8.2%)   0.33
##    4      5    5(10.2%)   0.35
## boost              3( 6.1%)   0.14   <<
##
##
##     (a)   (b)    <-classified as
##    ----  ----
##      37     2    (a): class 0
##       1     9    (b): class 1
##
##
##  Attribute usage:
##
##  100.00% Incl_p_con_soc_gender_Enab
##   93.88% Hyb_just_Enab
##   91.84% Int_med_UN
##   89.80% wdi_gdpcapgr
##
##
## Time: 0.0 secs
```

```
predC50.ctree_five_id_prov_id_control <- predict(C50.ctree_five_id_prov_id_control,
                                                 newdata=data_test_five)
prop.table(table(predC50.ctree_five_id_prov_id_control, data_test_five$Success), 1)
```

```
##
## predC50.ctree_five_id_prov_id_control         0         1
##                                     0 0.8421053 0.1578947
##                                     1 0.5000000 0.5000000
```

```
library(partykit)
```

```
## Loading required package: grid
```

```
## Loading required package: libcoin
```

```
## Loading required package: mvtnorm
```

```
# Convert C5.0 model to partykit tree
tree <- as.party(C50.ctree_five_id_prov_id_control)

# Plot the tree
pdf(file = 'boosted_five_tries.pdf')
plot(tree)
dev.off()
```

```
## pdf
##   2
```

```
# Train C5.0 model with the corrected cost matrix
C50.ctree_five_id_prov_id_control <- C5.0(
  as.factor(data_train_five$Success) ~ Incl_p_con_soc_gender_Enab + Int_med_UN +
Hyb_just_Enab +
Amn_Enab    + Amn_Presc + Amn_Rec   +
Anti_corr_Enab  + Anti_corr_Presc   + Anti_corr_Rec +
Change_leader + Child_sol_Enab  + Child_sol_Presc   +
Child_sol_Rec   + Election_Enab + Election_Presc +
Election_Rec    + Confl_crime_vet_Enab  + Confl_crime_vet_Pres  +
Demob_Enab + Demob_Pres + Demob_Rec + Demob_gender  + Disam_Enab    +
Disarm_Presc    + Disarm_Rec    + Disarm_gender + Econ_recov_devel_Enab +
Econ_recov_devel_Presc  + Econ_recov_devel_Rec +
Econ_recov_devel_margin_groups_E + Econ_recov_devel_margin_groups_P +
Econ_recov_devel_margin_groups_R    + Exch_infor_mil_capab_Enab +
Exch_infor_mil_capab_Presc  + Exch_infor_mil_capab_Rec  +
Hyb_just_Enab + Hyb_just_Presc  +  Hyb_just_Rec +
Incl_p_con_soc_civ_soc_Enab + Incl_p_con_soc_civ_soc_Presc  +
Incl_p_con_soc_civ_soc_Rec + Incl_p_con_soc_gender_Enab + Incl_p_con_soc_gender_Presc +
Incl_p_con_soc_gender_Rec + Incl_p_con_soc_indig_Enab   +
Incl_p_con_soc_indig_Presc + Incl_p_con_soc_indig_Rec   +
Incl_p_con_soc_disadv_grps_Enab + Incl_p_con_soc_disadv_grps_Presc  +
Incl_p_con_soc_disadv_grps_Rec  + Incl_p_con_soc_victim_Enab    +
Incl_p_con_soc_victim_Presc + Incl_p_con_soc_victim_Rec +
Incl_p_con_soc_youth_Enab + Incl_p_con_soc_youth_Presc  +
Incl_p_con_soc_youth_Rec    + Incl_negot_civ_soc    + Incl_negot_Gender +
Incl_negot_victim + Int_inv_impl_assi_Enab  + Int_inv_impl_assi_Presc   +
Int_inv_impl_assi_Rec + Int_invl_mon_ver_Enab   + Int_invl_mon_ver_Presc    +
Int_invl_mon_ver_Rec + Int_invl_mon_ver_hyb_Enab + Int_invl_mon_ver_hyb_Presc +
Int_invl_mon_ver_hyb_Rec + Int_invl_PKO_Enab    + Int_invl_PKO_Presc +
Int_invl_PKO_Rec    + Inter_obs_wthdr_Enab  + Inter_obs_wthdr_Presc +
Inter_obs_wthdr_Rec + Indiv_Mediator    + Int_med_states    + Int_med_other_bod +
Int_med_regi_org    + Int_med_UN    + Mech_dial_Enab    +  Mech_dial_Presc  +
Mech_dial_Rec + Media_ref_Enab  + Media_ref_Presc   + Media_ref_Rec +
Mediation_gender    + Mediation_Hyb + Non_ter_auton_Enab    +
Non_ter_auton_Presc + Non_ter_auton_Rec + Prison_rel_Enab   +
Prison_rel_Presc    +  Prison_rel_Rec   + Prohib_prop_Enab  +
Prohib_prop_Presc   + Prohib_prop_Rec   + Prosec_conf_crim_Enab +
Prosec_conf_crim_Presc  + Prosec_conf_crim_Rec  + Prot_leader_war_part  +
PS_admin_Enab   + PS_admin_Presc    + PS_admin_Rec  + PS_admin_gender_Enab  +
PS_admin_gender_Presc + PS_admin_gender_Rec + PS_milit_Enab + PS_milit_Presc +
PS_milit_Rec + PS_milit_gender_Enab + PS_milit_gender_Presc +
PS_milit_gender_Rec + PS_other_bod_Enab + PS_other_bod_Presc +
PS_other_bod_Rec + PS_other_bod_gender_Enab + PS_other_bod_gender_Presc +
PS_other_bod_gender_Rec + PS_polit_Enab + PS_polit_Presc    +
PS_polit_Rec    + PS_polit_gender_Enab  +
PS_polit_gender_Presc   + PS_polit_gender_Rec   + Rebel_fragm_Excl  +
Rebel_fragm_Incl + Reinteg_Enab + Reinteg_Pres  + Reinteg_Rec   +
Reinteg_gender  + Restor_meas_gender_Enab   + Restor_meas_gender_Presc  +
Restor_meas_gender_Rec  + Restor_meas_incl  + Restor_meas_recon_bod_Enab    +
Restor_meas_recon_bod_Presc + Restor_meas_recon_bod_Rec +
Restor_meas_repar_Enab  + Restor_meas_repar_Presc   + Restor_meas_repar_Rec +
Restor_meas_truth_Enabling  + Restor_meas_truth_Presc   + Restor_meas_truth_Rec +
Sequenc_prov    + SSR_jnt_arm_Enab  + SSR_jnt_arm_Presc + SSR_jnt_arm_Rec   +
SSR_jnt_arm_gender  + SSR_exist_forc_Enab   + SSR_exist_forc_Presc  +
SSR_exist_forc_Rec  + SSR_exist_forc_gender + Transf_pol_part_Enab  +
Transf_pol_part_Presc   + Transf_pol_part_Rec   + TSG_fiscal_Enab   +
```

```
TSG_fiscal_Presc    + TSG_fiscal_Rec    + TSG_econ_enab +  TSG_econ_Presc   +
TSG_econ_Rec    + TSG_edu_cult_Enab + TSG_edu_cult_Presc    + TSG_edu_cult_Rec  +
TSG_secur_Enab  + TSG_secur_Presc   + TSG_secur_Rec + TSG_welfare_Enab  +
TSG_welfare_Presc   + TSG_welfare_Rec   + TSG_PS_local_Enab +
TSG_PS_local_Presc  + TSG_PS_local_Rec  + TSG_rep_parl_Enab +
TSG_rep_parl_Presc  + TSG_rep_parl_Rec  + Wthdrwl_foreign_forc_Enab +
Wthdrwl_foreign_forc_Presc  + Wthdrwl_foreign_forc_Rec +
al_religion2000 + bmr_dem  +
cspf_sfi + cumulative_intensity_trans + discrimpop +
dr_pg + dr_eg + egip_groups_count + excl_groups_count +
fe_etfra + intensity_level_trans + ldiscrimpop +
icrg_qog + lp_catho80 + lp_muslim80 + lp_no_cpm80 +
lp_protmg80 + regaut_egip_groups_count + regaut_groups_count +
regautexclpop + regautpop + side_a_2nd_binary + side_b_2nd_binary +
vdem_corr + vdem_delibdem + vdem_dl_delib + vdem_edcomp_thick +
vdem_egal + vdem_egaldem + vdem_exbribe + vdem_excrptps +
vdem_execorr + vdem_exembez + vdem_exthftps + vdem_gender +
vdem_jucorrdc + vdem_libdem + vdem_liberal + vdem_mecorrpt +
vdem_partip + vdem_partipdem + vdem_polyarchy + vdem_pubcorr +
warhist + warhist_gov + warhist_terr + wdi_gdpcapgr + wdi_gdpcapcon2010 +
wdi_gdpcapcur + wdi_mobile + wdi_mortinf + wdi_mortinff + wdi_mortinfm +
wdi_refori_trans + wdi_tele + wgov_minmil + wgov_totmil,
  data = data_train_five,
  trials = 5,
  rules = FALSE,
  costs = error_cost  # Ensure the cost matrix is correctly formatted
)

# Display model summary
summary(C50.ctree_five_id_prov_id_control)
```

```
##
## Call:
## C5.0.formula(formula = as.factor(data_train_five$Success)
##  + wdi_tele + wgov_minmil + wgov_totmil, data = data_train_five, trials =
##  5, rules = FALSE, costs = error_cost)
##
##
## C5.0 [Release 2.07 GPL Edition]      Thu Jan 15 11:17:49 2026
## -------------------------------
##
## Class specified by attribute `outcome'
##
## Read 49 cases (234 attributes) from undefined.data
## Read misclassification costs from undefined.costs
##
## -----  Trial 0:  -----
##
## Decision tree:
##
## Incl_p_con_soc_gender_Enab > 0: 1 (3)
## Incl_p_con_soc_gender_Enab <= 0:
## :...Hyb_just_Enab > 0: 1 (2)
##     Hyb_just_Enab <= 0:
##     :...Child_sol_Rec > 0: 1 (1)
##         Child_sol_Rec <= 0:
```

```
##         :...Int_med_UN > 0: 1 (3/1)
##             Int_med_UN <= 0:
##             :...PS_other_bod_gender_Presc > 0: 1 (1)
##                 PS_other_bod_gender_Presc <= 0:
##                 :...Mech_dial_Rec <= 0: 0 (36)
##                     Mech_dial_Rec > 0: 1 (3/2)
##
## -----  Trial 1:  -----
##
## Decision tree:
##
## Incl_p_con_soc_gender_Enab > 0: 1 (2.3)
## Incl_p_con_soc_gender_Enab <= 0:
## :...Hyb_just_Enab > 0: 1 (1.5)
##     Hyb_just_Enab <= 0:
##     :...Child_sol_Rec > 0: 1 (0.8)
##         Child_sol_Rec <= 0:
##         :...PS_other_bod_gender_Presc > 0: 1 (0.8)
##             PS_other_bod_gender_Presc <= 0:
##             :...Wthdrwl_foreign_forc_Enab > 0: 1 (1.5/0.8)
##                 Wthdrwl_foreign_forc_Enab <= 0:
##                 :...wdi_gdpcapgr <= -9.684601: 1 (0.8)
##                     wdi_gdpcapgr > -9.684601:
##                     :...wdi_mortinf <= 23.7: 1 (1.5/0.8)
##                         wdi_mortinf > 23.7: 0 (49.5)
##
## -----  Trial 2:  -----
##
## Decision tree:
##
## Incl_p_con_soc_gender_Enab > 0: 1 (1.7)
## Incl_p_con_soc_gender_Enab <= 0:
## :...Hyb_just_Enab > 0: 1 (1.1)
##     Hyb_just_Enab <= 0:
##     :...Amn_Enab > 0: 0 (36.1)
##         Amn_Enab <= 0:
##         :...Int_med_UN > 0: 1 (1.1)
##             Int_med_UN <= 0:
##             :...Child_sol_Rec > 0: 1 (0.6)
##                 Child_sol_Rec <= 0:
##                 :...Int_med_states <= 0: 0 (22.6)
##                     Int_med_states > 0: 1 (2.9/1.7)
##
## -----  Trial 3:  -----
##
## Decision tree:
##
## Incl_p_con_soc_gender_Enab > 0: 1 (1.3)
## Incl_p_con_soc_gender_Enab <= 0:
## :...Hyb_just_Enab <= 0: 0 (69.6/2.2)
##     Hyb_just_Enab > 0: 1 (0.9)
##
## -----  Trial 4:  -----
##
## Decision tree:
##
```

```
## Child_sol_Rec > 0: 1 (1.4)
## Child_sol_Rec <= 0:
## :...PS_other_bod_gender_Presc > 0: 1 (1.1)
##     PS_other_bod_gender_Presc <= 0:
##     :...TSG_econ_enab > 0: 1 (1)
##         TSG_econ_enab <= 0:
##         :...Int_med_UN <= 0: 0 (50.8/1.4)
##             Int_med_UN > 0: 1 (5.7/3.5)
##
##
## Evaluation on training data (49 cases):
##
## Trial           Decision Tree
## -----      ----------------------
##    Size      Errors   Cost
##
##    0      7    3( 6.1%)   0.06
##    1      8    2( 4.1%)   0.04
##    2      7    3( 6.1%)   0.06
##    3      3    5(10.2%)   0.51
##    4      5    3( 6.1%)   0.22
## boost             0( 0.0%)   0.00   <<
##
##
##     (a)   (b)    <-classified as
##    ----  ----
##      39          (a): class 0
##            10    (b): class 1
##
##
##  Attribute usage:
##
##  100.00% Incl_p_con_soc_gender_Enab
##  100.00% Child_sol_Rec
##   95.92% PS_other_bod_gender_Presc
##   93.88% Hyb_just_Enab
##   93.88% TSG_econ_enab
##   91.84% Int_med_UN
##   89.80% Amn_Enab
##   85.71% Wthdrwl_foreign_forc_Enab
##   79.59% Mech_dial_Rec
##   79.59% wdi_mortinf
##   77.55% wdi_gdpcapgr
##   71.43% Int_med_states
##
##
## Time: 0.0 secs
```

```
predC50.ctree_five_id_prov_id_control <- predict(C50.ctree_five_id_prov_id_control,
                                                 newdata=data_test_five)
prop.table(table(predC50.ctree_five_id_prov_id_control, data_test_five$Success), 1)
```

```
##
## predC50.ctree_five_id_prov_id_control         0         1
##                                     0 0.8421053 0.1578947
##                                     1 0.5000000 0.5000000
```

```r
library(partykit)

# Convert C5.0 model to partykit tree
tree <- as.party(C50.ctree_five_id_prov_id_control)

# Plot the tree
pdf(file = 'boosted_five_tries_2.pdf')
plot(tree)
dev.off()
```

```
## pdf
##   2
```

```
# Random Forest
library(randomForest)
```

Robustness 4: Random Forest Five Tries

```
## randomForest 4.7-1.1

## Type rfNews() to see new features/changes/bug fixes.

##
## Attaching package: 'randomForest'

## The following object is masked from 'package:ggplot2':
##
##     margin

## The following object is masked from 'package:dplyr':
##
##     combine
```

```
library(rpart)
library(rpart.plot)

set.seed(6980)

mRF.controls.all <- randomForest(as.factor(data_train_five$Success) ~
Amn_Enab    + Amn_Presc + Amn_Rec   +
Anti_corr_Enab  + Anti_corr_Presc   + Anti_corr_Rec +
Change_leader + Child_sol_Enab  + Child_sol_Presc   +
Child_sol_Rec   + Election_Enab + Election_Presc +
Election_Rec    + Confl_crime_vet_Enab  + Confl_crime_vet_Pres  +
Demob_Enab + Demob_Pres + Demob_Rec + Demob_gender  + Disam_Enab    +
Disarm_Presc    + Disarm_Rec    + Disarm_gender + Econ_recov_devel_Enab +
Econ_recov_devel_Presc  + Econ_recov_devel_Rec +
Econ_recov_devel_margin_groups_E + Econ_recov_devel_margin_groups_P +
Econ_recov_devel_margin_groups_R    + Exch_infor_mil_capab_Enab +
Exch_infor_mil_capab_Presc  + Exch_infor_mil_capab_Rec  +
Hyb_just_Enab + Hyb_just_Presc  +  Hyb_just_Rec +
Incl_p_con_soc_civ_soc_Enab + Incl_p_con_soc_civ_soc_Presc  +
Incl_p_con_soc_civ_soc_Rec + Incl_p_con_soc_gender_Enab + Incl_p_con_soc_gender_Presc +
Incl_p_con_soc_gender_Rec + Incl_p_con_soc_indig_Enab   +
Incl_p_con_soc_indig_Presc + Incl_p_con_soc_indig_Rec   +
Incl_p_con_soc_disadv_grps_Enab + Incl_p_con_soc_disadv_grps_Presc  +
Incl_p_con_soc_disadv_grps_Rec  + Incl_p_con_soc_victim_Enab    +
Incl_p_con_soc_victim_Presc + Incl_p_con_soc_victim_Rec +
Incl_p_con_soc_youth_Enab + Incl_p_con_soc_youth_Presc  +
Incl_p_con_soc_youth_Rec    + Incl_negot_civ_soc    + Incl_negot_Gender +
Incl_negot_victim + Int_inv_impl_assi_Enab  + Int_inv_impl_assi_Presc   +
Int_inv_impl_assi_Rec + Int_invl_mon_ver_Enab   + Int_invl_mon_ver_Presc    +
Int_invl_mon_ver_Rec + Int_invl_mon_ver_hyb_Enab + Int_invl_mon_ver_hyb_Presc +
Int_invl_mon_ver_hyb_Rec + Int_invl_PKO_Enab    + Int_invl_PKO_Presc +
Int_invl_PKO_Rec    + Inter_obs_wthdr_Enab  + Inter_obs_wthdr_Presc +
Inter_obs_wthdr_Rec + Indiv_Mediator    + Int_med_states    + Int_med_other_bod +
Int_med_regi_org    + Int_med_UN    + Mech_dial_Enab    +  Mech_dial_Presc  +
Mech_dial_Rec + Media_ref_Enab  + Media_ref_Presc   + Media_ref_Rec +
Mediation_gender    + Mediation_Hyb + Non_ter_auton_Enab    +
Non_ter_auton_Presc + Non_ter_auton_Rec + Prison_rel_Enab   +
Prison_rel_Presc    +  Prison_rel_Rec   + Prohib_prop_Enab  +
```

```
Prohib_prop_Presc   + Prohib_prop_Rec   + Prosec_conf_crim_Enab +
Prosec_conf_crim_Presc  + Prosec_conf_crim_Rec  + Prot_leader_war_part  +
PS_admin_Enab   + PS_admin_Presc    + PS_admin_Rec  + PS_admin_gender_Enab  +
PS_admin_gender_Presc + PS_admin_gender_Rec + PS_milit_Enab + PS_milit_Presc +
PS_milit_Rec + PS_milit_gender_Enab + PS_milit_gender_Presc +
PS_milit_gender_Rec + PS_other_bod_Enab + PS_other_bod_Presc +
PS_other_bod_Rec + PS_other_bod_gender_Enab + PS_other_bod_gender_Presc +
PS_other_bod_gender_Rec + PS_polit_Enab + PS_polit_Presc    +
PS_polit_Rec    + PS_polit_gender_Enab  +
PS_polit_gender_Presc   + PS_polit_gender_Rec   + Rebel_fragm_Excl  +
Rebel_fragm_Incl + Reinteg_Enab + Reinteg_Pres  + Reinteg_Rec   +
Reinteg_gender  + Restor_meas_gender_Enab   + Restor_meas_gender_Presc  +
Restor_meas_gender_Rec  + Restor_meas_incl  + Restor_meas_recon_bod_Enab    +
Restor_meas_recon_bod_Presc + Restor_meas_recon_bod_Rec +
Restor_meas_repar_Enab  + Restor_meas_repar_Presc   + Restor_meas_repar_Rec +
Restor_meas_truth_Enabling  + Restor_meas_truth_Presc   + Restor_meas_truth_Rec +
Sequenc_prov    + SSR_jnt_arm_Enab  + SSR_jnt_arm_Presc + SSR_jnt_arm_Rec   +
SSR_jnt_arm_gender  + SSR_exist_forc_Enab   + SSR_exist_forc_Presc  +
SSR_exist_forc_Rec  + SSR_exist_forc_gender + Transf_pol_part_Enab  +
Transf_pol_part_Presc   + Transf_pol_part_Rec   + TSG_fiscal_Enab   +
TSG_fiscal_Presc    + TSG_fiscal_Rec    + TSG_econ_enab +  TSG_econ_Presc   +
TSG_econ_Rec    + TSG_edu_cult_Enab + TSG_edu_cult_Presc    + TSG_edu_cult_Rec  +
TSG_secur_Enab  + TSG_secur_Presc   + TSG_secur_Rec + TSG_welfare_Enab  +
TSG_welfare_Presc   + TSG_welfare_Rec   + TSG_PS_local_Enab +
TSG_PS_local_Presc  + TSG_PS_local_Rec  + TSG_rep_parl_Enab +
TSG_rep_parl_Presc  + TSG_rep_parl_Rec  + Wthdrwl_foreign_forc_Enab +
Wthdrwl_foreign_forc_Presc  + Wthdrwl_foreign_forc_Rec +
al_religion2000 + bmr_dem + ccp_equal + ccp_freerel +
ccp_hr + cspf_sfi + cumulative_intensity_trans + discrimpop +
dr_pg + dr_eg + egip_groups_count + excl_groups_count +
fe_etfra + intensity_level_trans + ldiscrimpop +
icrg_qog + lp_catho80 + lp_muslim80 + lp_no_cpm80 +
lp_protmg80 + regaut_egip_groups_count + regaut_groups_count +
regautexclpop + regautpop + side_a_2nd_binary + side_b_2nd_binary +
vdem_corr + vdem_delibdem + vdem_dl_delib + vdem_edcomp_thick +
vdem_egal + vdem_egaldem + vdem_exbribe + vdem_excrptps +
vdem_execorr + vdem_exembez + vdem_exthftps + vdem_gender +
vdem_jucorrdc + vdem_libdem + vdem_liberal + vdem_mecorrpt +
vdem_partip + vdem_partipdem + vdem_polyarchy + vdem_pubcorr +
warhist + warhist_gov + warhist_terr + wdi_gdpcapgr + wdi_gdpcapcon2010 +
wdi_gdpcapcur + wdi_mobile + wdi_mortinf + wdi_mortinff + wdi_mortinfm +
wdi_refori_trans + wdi_tele + wgov_minmil + wgov_totmil ,
data = data_train_five, ntree=2000, mtry = 3, importance=TRUE, na.action=na.omit)

varImpPlot(mRF.controls.all, cex=0.4)
```

```
varImpPlot(mRF.controls.all,
           n.var = min(15, nrow(mRF.controls.all$importance)), cex=0.4)
```

```
# Install if not already installed
#install.packages("writexl")

# Load the package
library(writexl)

# Convert matrix to a data frame
```

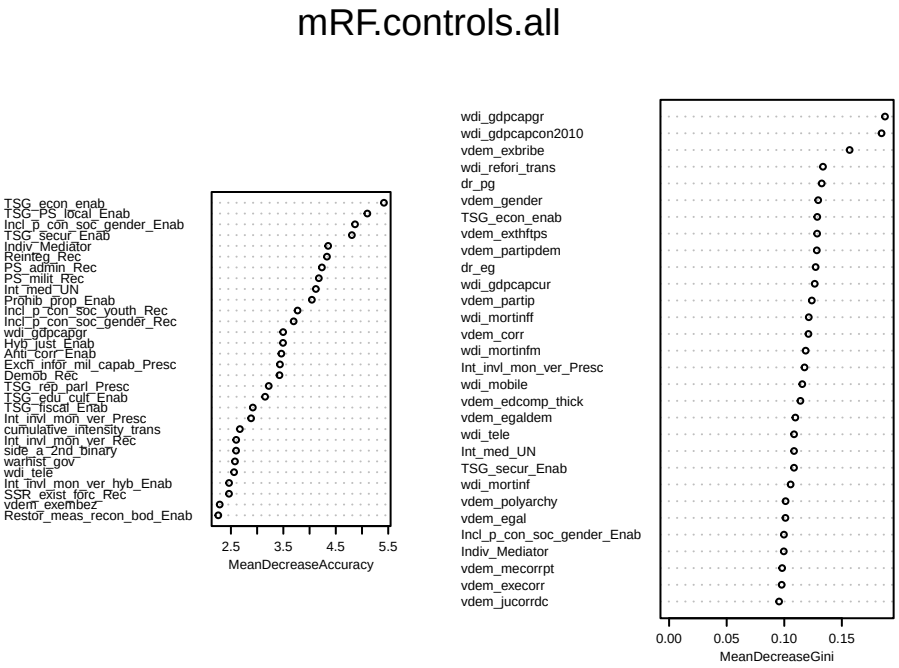


Figure A.11: Random Forest Trees for All Provisions for the Last Five.

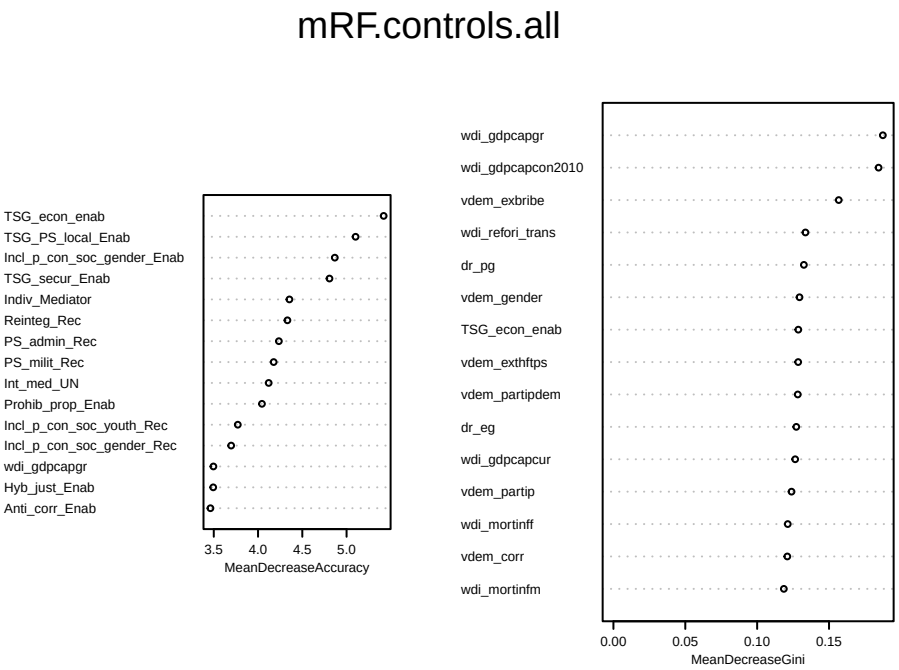


Figure A.12: Random Forest Trees for All Provisions for the Last Five.

```r
my_df <- as.data.frame(mRF.controls.all$importance)

# Export to Excel
write_xlsx(my_df, "output.xlsx")
```

```r
# Load required libraries
library(randomForest)
library(ggplot2)
library(ggtext)


library(ggplot2)
library(officer)
```

```
##
## Attaching package: 'officer'
```

```
## The following object is masked from 'package:readxl':
##
##     read_xlsx
```

```r
library(rvg)


# Extract variable importance from the trained model
importance_data <- importance(mRF.controls.all)  # Check what columns exist
print(head(importance_data))  # Debugging step
```

```
##                          0         1 MeanDecreaseAccuracy MeanDecreaseGini
## Amn_Enab        -2.404668 -1.393422            -2.403554       0.03608812
## Amn_Presc       -0.315112 -1.228934            -0.874624       0.05311504
## Amn_Rec         -2.430678 -1.864379            -2.396893       0.01242982
## Anti_corr_Enab   3.441447  3.002852             3.462202       0.07100746
## Anti_corr_Presc  0.000000  0.000000             0.000000       0.03570167
## Anti_corr_Rec    0.000000  0.000000             0.000000       0.00000000
```

```r
# For classification problems, use MeanDecreaseAccuracy
importance_df <- data.frame(Variable = rownames(importance_data),
                            Importance = importance_data[, 3])
# Select first importance column

custom_labels <- c(
"Hyb_just_Enab" = "Plural Justice (enabling)",
"SSR_jnt_arm_Presc" = "Joint Army (prescribing)",
"PS_other_bod_Enab" = "Power-sharing on other bodies/commissions (enabling)",
"Incl_p_con_soc_gender_Enab" = "Inclusion of women in post-conflict society (enabling)",
"dr_pg" = "Political globalization ",
"Int_inv_impl_assi_Rec" = "Third party assistance in implementation (recommendation)",
"Int_med_UN" = "UN-led mediation",
"PS_milit_Rec" = " Power-sharing in the security forces (recommendation)",
"vdem_execorr" = "Executive corruption index",
"wdi_mobile" = "Mobile cellular subscriptions",
"TSG_secur_Enab" = "Territorial self governance in security (enabling) ",
"Indiv_Mediator" = "Individual Mediator",
"TSG_edu_cult_Enab" = "Territorial Self-Governance in Education (enabling)",
"TSG_fiscal_Enab" = " Territorial Self-Governance fiscal (enabling)",
"TSG_econ_enab" = " Territorial Self-Governance in the economy (enabling)",
"Anti_corr_Enab" = "Anti-Corruption measures (enabling)",
```

```
"TSG_rep_parl_Presc" = "Commitment to a regional assembly/parliament (prescribing)",
"vdem_pubcorr" = "Public sector corruption index",
"Prohib_prop_Enab" = "Bans for hostile propaganda (enabling)",
"PS_admin_Rec" = "Power-sharing representation in public administration (recommendation)",
"Reinteg_Rec"= "Reintegration of former combatants/soldiers (recommendation)",
"TSG_PS_local_Enab" = "Power-sharing in the local assembly/parliament (enabling)",
"Incl_p_con_soc_youth_Presc" = "Inclusion of youth in post-conflict society (prescribing) " ,
"Incl_p_con_soc_youth_Rec" = "Inclusion of youth in post-conflict society (recommendation) ",
"Incl_p_con_soc_gender_Rec" = "Inclusion of women in post-conflict society (recommendation) " ,
"wdi_gdpcapgr"  = "GPD per capita growth"
)


# Apply custom labels, keeping original names if no match
importance_df$Variable <- ifelse(importance_df$Variable %in% names(custom_labels),
                                 custom_labels[importance_df$Variable],
                                 importance_df$Variable)

# Sort by importance (largest values first)
importance_df <- importance_df[order(importance_df$Importance, decreasing=TRUE), ]

# Select top N variables (adjust as needed)
top_n <- 15
importance_top <- head(importance_df, top_n)

# Plot using ggplot2
p_mda <- ggplot(importance_top, aes(x=reorder(Variable, Importance), y=Importance)) +
  geom_col(fill="grey") +
  coord_flip() +
  labels(title="Mean Decrease Accuracy", x="Variables", y="Importance") +
  theme_minimal()



pdf("mean_decrease_accuracy.pdf", width = 7, height = 5, pointsize = 10)
print(p_mda)
dev.off()
```

```
## pdf
##   2
```

```
p_mda
```


Mean De
Territorial Self−Governance in the economy (enabling)
Power−sharing in the local assembly/parliament (enabling)
Inclusion of women in post−conflict society (enabling)
Territorial self governance in security (enabling)
Individual Mediator
Reintegration of former combatants/soldiers (recommendation)
Power−sharing representation in public administration (recommendation)
Power−sharing in the security forces (recommendation)
UN−led mediation
Bans for hostile propaganda (enabling)
Inclusion of youth in post−conflict society (recommendation)
Inclusion of women in post−conflict society (recommendation)
GPD per capita growth
Plural Justice (enabling)
Anti−Corruption measures (enabling)
Variables
0
2
4
Importance

```
library(remotes) # you may need to install the remotes package
#install_github("hemken/Statamarkdown")
```

```
use "lasso.dta"

/*
splitsample if Success!=., generate(sample) split(.75 .25) rseed(12345)

label define slabel 1 "Training" 2 "Validation"

label values sample slabel
*/
tabulate sample
```

Robustness 5: Lasso Regression in Stata for Five Tries

```
     sample |      Freq.     Percent        Cum.
------------+-----------------------------------
   Training |        119       74.84       74.84
 Validation |         40       25.16      100.00
------------+-----------------------------------
      Total |        159      100.00
```

```
********** CV Lasso ******************

use "lasso.dta"

lasso probit Success (Incl_p_con_soc_gender_Enab Int_med_UN Hyb_just_Enab) ///
wdi_gdpcapgr if sample==1,  selection(cv) iter(50000000)  nolog rseed(12345)
estimates store cv1
lassocoef, display(coef)
lassogof cv1, over(sample)



* Provisions only *
lasso probit Success (Incl_p_con_soc_gender_Enab Int_med_UN Hyb_just_Enab) ///
Amn_Enab-Wthdrwl_foreign_forc_Rec ///
if sample==1,  selection(cv) iter(50000000)  nolog rseed(12345)
estimates store cv2
lassocoef, display(coef)
lassogof cv2, over(sample)



* Control only *
lasso probit Success (Incl_p_con_soc_gender_Enab Int_med_UN Hyb_just_Enab) ///
icrg_qog ///
wdi_gdpcapcon2010 ///
wdi_gdpcapcur ///
wdi_mobile ///
egip_groups_count   ///
excl_groups_count  lp_catho80  lp_muslim80  lp_no_cpm80  lp_protmg80  dr_eg  ///
dr_pg  bmr_dem  regaut_excl_groups_count regautpop   regaut_groups_count  ///
```

```
ccp_freerel  wdi_refori_trans  wdi_mortinf  wdi_mortinff  wdi_mortinfm  ///
al_religion2000   warhist_gov  al_religion2000  regaut_egip_groups_count  ///
regautexclpop warhist_terr  warhist   fe_etfra  ccp_hr  intensity_level_trans ///
cumulative_intensity_trans  wgov_minmil  wgov_totmil   ccp_equal  discrimpop  ///
side_b_2nd_binary  side_a_2nd_binary  ldiscrimpop  wdi_tele  vdem_corr  ///
vdem_delibdem  vdem_dl_delib  vdem_edcomp_thick  vdem_egal  vdem_egaldem   ///
vdem_exbribe  vdem_excrptps  vdem_execorr  vdem_exembez  vdem_exthftps ///
vdem_gender  vdem_jucorrdc  vdem_libdem  vdem_liberal  vdem_mecorrpt  ///
vdem_partip  vdem_partipdem  vdem_polyarchy   vdem_pubcorr   cspf_sfi  ///
wdi_gdpcapgr ///
if sample==1,  selection(cv) iter(50000000)  nolog rseed(12345)
estimates store cv3
lassocoef, display(coef)
lassogof cv3, over(sample)


* Provisions and Controls *
lasso probit Success (Incl_p_con_soc_gender_Enab Int_med_UN Hyb_just_Enab) ///
Amn_Enab-Wthdrwl_foreign_forc_Rec ///
icrg_qog ///
wdi_gdpcapcon2010 ///
wdi_gdpcapcur ///
wdi_mobile ///
egip_groups_count   ///
excl_groups_count  lp_catho80  lp_muslim80  lp_no_cpm80  lp_protmg80  dr_eg  ///
dr_pg  bmr_dem  regaut_excl_groups_count regautpop   regaut_groups_count  ///
ccp_freerel  wdi_refori_trans  wdi_mortinf  wdi_mortinff  wdi_mortinfm  ///
al_religion2000   warhist_gov  al_religion2000  regaut_egip_groups_count  ///
regautexclpop warhist_terr  warhist   fe_etfra  ccp_hr  intensity_level_trans ///
cumulative_intensity_trans  wgov_minmil  wgov_totmil   ccp_equal  discrimpop  ///
side_b_2nd_binary  side_a_2nd_binary  ldiscrimpop  wdi_tele  vdem_corr  ///
vdem_delibdem  vdem_dl_delib  vdem_edcomp_thick  vdem_egal  vdem_egaldem   ///
vdem_exbribe  vdem_excrptps  vdem_execorr  vdem_exembez  vdem_exthftps ///
vdem_gender  vdem_jucorrdc  vdem_libdem  vdem_liberal  vdem_mecorrpt  ///
vdem_partip  vdem_partipdem  vdem_polyarchy   vdem_pubcorr   cspf_sfi  ///
wdi_gdpcapgr ///
if sample==1,  selection(cv) iter(50000000)  nolog rseed(12345)
estimates store cv4
lassocoef, display(coef)
lassogof cv4, over(sample)


estimates store cv4
lassogof cv4, over(sample)
cvplot
```

```
Lasso probit model                          No. of obs        =        109
                                            No. of covariates =          4
Selection: Cross-validation                 No. of CV folds   =         10

------------------------------------------------------------------------------
         |                                No. of      Out-of-
         |                               nonzero       sample      CV mean
      ID |     Description      lambda     coef.   dev. ratio     deviance
---------+--------------------------------------------------------------------
       1 |    first lambda    .0037699         4      -45.0683     26.25881
```

```
      29 |   lambda before    .0002786         4      -45.0187     26.23053
    * 30 | selected lambda    .0002539         4      -45.0183     26.23034
------------------------------------------------------------------------------
* lambda selected by cross-validation.
Note: Minimum of CV function not found; lambda selected based on stop()
      stopping criterion.



-------------------------------------
                           |       cv1
---------------------------+---------
Incl_p_con_soc_gender_Enab |  960952.6
                Int_med_UN | -1.18e+09
             Hyb_just_Enab |  3.13e+09
              wdi_gdpcapgr |  .2950031
                     _cons |  3.53e+08
-------------------------------------
Legend:
  b - base level
  e - empty cell
  o - omitted


Penalized coefficients
------------------------------------------------------------
                         |                 Deviance
Name             sample |    Deviance        ratio        Obs
-------------------------+----------------------------------
cv1                      |
               Training |    .2976814       0.4777        109
             Validation |    .4043547       0.4808         38
------------------------------------------------------------


Lasso probit model                          No. of obs        =        119
                                            No. of covariates =        114
Selection: Cross-validation                 No. of CV folds   =         10

------------------------------------------------------------------------------
         |                                No. of      Out-of-
         |                               nonzero       sample      CV mean
      ID |     Description      lambda     coef.   dev. ratio     deviance
---------+--------------------------------------------------------------------
       1 |    first lambda    .1921715         3
       4 |   lambda before    .1453707         4
     * 5 | selected lambda    .1324564         4
------------------------------------------------------------------------------
* lambda selected by cross-validation.
Note: Minimum of CV function not found; lambda selected based on stop()
      stopping criterion.



-------------------------------------
                           |       cv2
```

```
--------------------------+----------
Incl_p_con_soc_gender_Enab |  1.30e+09
                Int_med_UN |  3.36e+08
             Hyb_just_Enab | -3.77e+08
              Disarm_Presc |   .103871
                     _cons |  2.72e+08
------------------------------------
Legend:
  b - base level
  e - empty cell
  o - omitted


Penalized coefficients
------------------------------------------------------------------
                         |                 Deviance
Name             sample |    Deviance        ratio        Obs
-----------------------+----------------------------------
cv2                      |
               Training |    .2554824       0.5233        119
             Validation |    .4084006       0.4580         40
------------------------------------------------------------------

string variables not allowed in varlist;
ccp_freerel is a string variable
r(109);

r(109);
```

```
use "lasso.dta"

*************** Adaptive Lasso ********************

* Short
lasso probit Success (Incl_p_con_soc_gender_Enab Int_med_UN Hyb_just_Enab) ///
wdi_gdpcapgr if sample==1,  selection(adaptive) iter(50000000)  nolog rseed(12345)
estimates store adaptive1
lassocoef, display(coef)
lassogof adaptive1, over(sample)


* Provisions only
lasso probit Success (Incl_p_con_soc_gender_Enab Int_med_UN Hyb_just_Enab) ///
Amn_Enab-Wthdrwl_foreign_forc_Rec ///
if sample==1,  selection(adaptive) iter(50000000)  nolog rseed(12345)
estimates store adaptive2
lassocoef, display(coef)
lassogof adaptive2, over(sample)


* Control only *
lasso probit Success (Incl_p_con_soc_gender_Enab Int_med_UN Hyb_just_Enab) ///
icrg_qog ///
wdi_gdpcapcon2010 ///
wdi_gdpcapcur ///
wdi_mobile ///
```

```
egip_groups_count   ///
excl_groups_count  lp_catho80  lp_muslim80  lp_no_cpm80  lp_protmg80  dr_eg  ///
dr_pg  bmr_dem  regaut_excl_groups_count regautpop   regaut_groups_count  ///
ccp_freerel  wdi_refori_trans  wdi_mortinf  wdi_mortinff  wdi_mortinfm  ///
al_religion2000   warhist_gov  al_religion2000  regaut_egip_groups_count  ///
regautexclpop warhist_terr  warhist   fe_etfra  ccp_hr  intensity_level_trans ///
cumulative_intensity_trans  wgov_minmil  wgov_totmil   ccp_equal  discrimpop  ///
side_b_2nd_binary  side_a_2nd_binary  ldiscrimpop  wdi_tele  vdem_corr  ///
vdem_delibdem  vdem_dl_delib  vdem_edcomp_thick  vdem_egal  vdem_egaldem   ///
vdem_exbribe  vdem_excrptps  vdem_execorr  vdem_exembez  vdem_exthftps ///
vdem_gender  vdem_jucorrdc  vdem_libdem  vdem_liberal  vdem_mecorrpt  ///
vdem_partip  vdem_partipdem  vdem_polyarchy   vdem_pubcorr   cspf_sfi  ///
wdi_gdpcapgr ///
if sample==1,  selection(adaptive) iter(50000000)  nolog rseed(12345)
estimates store adaptive3
lassocoef, display(coef)
lassogof adaptive3, over(sample)


* Provisions and Controls
lasso probit Success (Incl_p_con_soc_gender_Enab Int_med_UN Hyb_just_Enab) ///
Amn_Enab-Wthdrwl_foreign_forc_Rec ///
icrg_qog ///
wdi_gdpcapcon2010 ///
wdi_gdpcapcur ///
wdi_mobile ///
egip_groups_count   ///
excl_groups_count  lp_catho80  lp_muslim80  lp_no_cpm80  lp_protmg80  dr_eg  ///
dr_pg  bmr_dem  regaut_excl_groups_count regautpop   regaut_groups_count  ///
ccp_freerel  wdi_refori_trans  wdi_mortinf  wdi_mortinff  wdi_mortinfm  ///
al_religion2000   warhist_gov  al_religion2000  regaut_egip_groups_count  ///
regautexclpop warhist_terr  warhist   fe_etfra  ccp_hr  intensity_level_trans ///
cumulative_intensity_trans  wgov_minmil  wgov_totmil   ccp_equal  discrimpop  ///
side_b_2nd_binary  side_a_2nd_binary  ldiscrimpop  wdi_tele  vdem_corr  ///
vdem_delibdem  vdem_dl_delib  vdem_edcomp_thick  vdem_egal  vdem_egaldem   ///
vdem_exbribe  vdem_excrptps  vdem_execorr  vdem_exembez  vdem_exthftps ///
vdem_gender  vdem_jucorrdc  vdem_libdem  vdem_liberal  vdem_mecorrpt  ///
vdem_partip  vdem_partipdem  vdem_polyarchy   vdem_pubcorr   cspf_sfi  ///
wdi_gdpcapgr ///
if sample==1,  selection(adaptive) iter(50000000)  nolog rseed(12345)
estimates store adaptive4
lassocoef, display(coef)
lassogof adaptive4, over(sample)


estimates store adaptive4
lassogof adaptive4, over(sample)
cvplot
```

```
Lasso probit model                          No. of obs         =        109
                                            No. of covariates  =          4
Selection: Adaptive                         No. of lasso steps =          2

Final adaptive step results
------------------------------------------------------------------------------
         |                                  No. of      Out-of-
```

```
        |                                nonzero       sample      CV mean
     ID |     Description      lambda     coef.   dev. ratio     deviance
--------+-------------------------------------------------------------------
     31 |    first lambda    .0037699         4      -45.0683     26.25881
     59 |   lambda before    .0002786         4      -45.0187     26.23053
   * 60 | selected lambda    .0002539         4      -45.0183     26.23034
-------------------------------------------------------------------------
* lambda selected by cross-validation in final adaptive step.



-------------------------------------
                          | adaptive1
--------------------------+----------
Incl_p_con_soc_gender_Enab |  960952.6
                Int_med_UN | -1.18e+09
             Hyb_just_Enab |  3.13e+09
              wdi_gdpcapgr |  .2950031
                     _cons |  3.53e+08
-------------------------------------
Legend:
  b - base level
  e - empty cell
  o - omitted


Penalized coefficients
------------------------------------------------------------
                        |                 Deviance
Name             sample |    Deviance        ratio        Obs
------------------------+-----------------------------------
adaptive1               |
               Training |    .2976814       0.4777        109
             Validation |    .4043547       0.4808         38
------------------------------------------------------------


Lasso probit model                        No. of obs         =        119
                                          No. of covariates  =        114
Selection: Adaptive                       No. of lasso steps =          2

Final adaptive step results
-------------------------------------------------------------------------
        |                                No. of      Out-of-
        |                               nonzero       sample      CV mean
     ID |     Description      lambda     coef.   dev. ratio     deviance
--------+----------------------------------------------------------------
      6 |    first lambda    .0493413         3      -0.0577     .5668432
     15 |   lambda before    .0213587         4       0.6382     .1938779
   * 16 | selected lambda    .0194612         4       0.6390      .193448
     17 |    lambda after    .0177324         4       0.6390     .1934483
     55 |     last lambda    .0005169         4       0.5302     .2517962
-------------------------------------------------------------------------
* lambda selected by cross-validation in final adaptive step.
```

```
-------------------------------------
                          | adaptive2
--------------------------+----------
Incl_p_con_soc_gender_Enab |  1.30e+09
               Int_med_UN |  3.36e+08
            Hyb_just_Enab | -3.77e+08
             Disarm_Presc |    .29095
                    _cons |  2.72e+08
-------------------------------------
Legend:
  b - base level
  e - empty cell
  o - omitted


Penalized coefficients
------------------------------------------------------------------
                        |                 Deviance
Name             sample |    Deviance        ratio        Obs
------------------------+-----------------------------------------
adaptive2               |
              Training |    .2153429       0.5982        119
            Validation |    .4535935       0.3981         40
------------------------------------------------------------------

string variables not allowed in varlist;
ccp_freerel is a string variable
r(109);

r(109);
```

```
#############################################################################
#
# All Provisions and All Controls
#
#############################################################################


modl2021_usip_5_provisions_controls.ctree <- rpart(as.factor(data_train_five$Success) ~
Amnesty_Enabling    + Amn_Presc + Amn_Rec   +
Anti_corr_Enab  + Anti_corr_Presc   + Anti_corr_Rec +
Change_leader + Child_sol_Enab  + Child_sol_Presc   +
Child_sol_Rec   + Election_Enab + Election_Presc +
Election_Rec    + Confl_crime_vet_Enab  + Confl_crime_vet_Pres  +
Demob_Enab + Demob_Pres + Demob_Rec + Demob_gender  + Disam_Enab    +
Disarm_Presc    + Disarm_Rec    + Disarm_gender + Econ_recov_devel_Enab +
Econ_recov_devel_Presc  + Econ_recov_devel_Rec +
Econ_recov_devel_margin_groups_E + Econ_recov_devel_margin_groups_P +
Econ_recov_devel_margin_groups_R    + Exch_infor_mil_capab_Enab +
Exch_infor_mil_capab_Presc  + Exch_infor_mil_capab_Rec  +
Hyb_just_Enab + Hyb_just_Presc  +  Hyb_just_Rec +
Incl_p_con_soc_civ_soc_Enab + Incl_p_con_soc_civ_soc_Presc  +
Incl_p_con_soc_civ_soc_Rec  + Incl_p_con_soc_gender_Enab    + Incl_p_con_soc_gender_Presc   +
Incl_p_con_soc_gender_Rec + Incl_p_con_soc_indig_Enab   +
Incl_p_con_soc_indig_Presc + Incl_p_con_soc_indig_Rec   +
Incl_p_con_soc_disadv_grps_Enab + Incl_p_con_soc_disadv_grps_Presc  +
Incl_p_con_soc_disadv_grps_Rec  + Incl_p_con_soc_victim_Enab    +
Incl_p_con_soc_victim_Presc + Incl_p_con_soc_victim_Rec +
Incl_p_con_soc_youth_Enab + Incl_p_con_soc_youth_Presc  +
Incl_p_con_soc_youth_Rec    + Incl_negot_civ_soc    + Incl_negot_Gender +
Incl_negot_victim + Int_inv_impl_assi_Enab  + Int_inv_impl_assi_Presc   +
Int_inv_impl_assi_Rec + Int_invl_mon_ver_Enab   + Int_invl_mon_ver_Presc    +
Int_invl_mon_ver_Rec + Int_invl_mon_ver_hyb_Enab + Int_invl_mon_ver_hyb_Presc +
Int_invl_mon_ver_hyb_Rec + Int_invl_PKO_Enab    + Int_invl_PKO_Presc +
Int_invl_PKO_Rec    + Inter_obs_wthdr_Enab  + Inter_obs_wthdr_Presc +
Inter_obs_wthdr_Rec + Indiv_Mediator    + Int_med_states    + Int_med_other_bod +
Int_med_regi_org    + Int_med_UN    + Mech_dial_Enab    +  Mech_dial_Presc  +
Mech_dial_Rec + Media_ref_Enab  + Media_ref_Presc   + Media_ref_Rec +
Mediation_gender    + Mediation_Hyb + Non_ter_auton_Enab    +
Non_ter_auton_Presc + Non_ter_auton_Rec + Prison_rel_Enab   +
Prison_rel_Presc    +  Prison_rel_Rec   + Prohib_prop_Enab  +
Prohib_prop_Presc   + Prohib_prop_Rec   + Prosec_conf_crim_Enab +
Prosec_conf_crim_Presc  + Prosec_conf_crim_Rec  + Prot_leader_war_part  +
PS_admin_Enab   + PS_admin_Presc    + PS_admin_Rec  + PS_admin_gender_Enab  +
PS_admin_gender_Presc + PS_admin_gender_Rec + PS_milit_Enab + PS_milit_Presc +
PS_milit_Rec + PS_milit_gender_Enab + PS_milit_gender_Presc +
PS_milit_gender_Rec + PS_other_bod_Enab + PS_other_bod_Presc +
PS_other_bod_Rec + PS_other_bod_gender_Enab + PS_other_bod_gender_Presc +
PS_other_bod_gender_Rec + PS_polit_Enab + PS_polit_Presc    +
PS_polit_Rec    + PS_polit_gender_Enab  +
PS_polit_gender_Presc   + PS_polit_gender_Rec   + Rebel_fragm_Excl  +
Rebel_fragm_Incl + Reinteg_Enab + Reinteg_Pres  + Reinteg_Rec   +
Reinteg_gender  + Restor_meas_gender_Enab   + Restor_meas_gender_Presc  +
Restor_meas_gender_Rec  + Restor_meas_incl  + Restor_meas_recon_bod_Enab    +
Restor_meas_recon_bod_Presc + Restor_meas_recon_bod_Rec +
Restor_meas_repar_Enab  + Restor_meas_repar_Presc   + Restor_meas_repar_Rec +
```

```
Restor_meas_truth_Enabling  + Restor_meas_truth_Presc   + Restor_meas_truth_Rec +
Sequenc_prov    + SSR_jnt_arm_Enab  + SSR_jnt_arm_Presc + SSR_jnt_arm_Rec   +
SSR_jnt_arm_gender  + SSR_exist_forc_Enab   + SSR_exist_forc_Presc  +
SSR_exist_forc_Rec  + SSR_exist_forc_gender + Transf_pol_part_Enab  +
Transf_pol_part_Presc   + Transf_pol_part_Rec   + TSG_fiscal_Enab   +
TSG_fiscal_Presc    + TSG_fiscal_Rec    + TSG_econ_enab +  TSG_econ_Presc   +
TSG_econ_Rec    + TSG_edu_cult_Enab + TSG_edu_cult_Presc    + TSG_edu_cult_Rec  +
TSG_secur_Enab  + TSG_secur_Presc   + TSG_secur_Rec + TSG_welfare_Enab  +
TSG_welfare_Presc   + TSG_welfare_Rec   + TSG_PS_local_Enab +
TSG_PS_local_Presc  + TSG_PS_local_Rec  + TSG_rep_parl_Enab +
TSG_rep_parl_Presc  + TSG_rep_parl_Rec  + Wthdrwl_foreign_forc_Enab +
Wthdrwl_foreign_forc_Presc  + Wthdrwl_foreign_forc_Rec +
al_religion2000 + bmr_dem + ccp_equal + ccp_freerel +
ccp_hr + cspf_sfi + cumulative_intensity_trans + discrimpop +
dr_pg + dr_eg + egip_groups_count + excl_groups_count +
fe_etfra + intensity_level_trans + ldiscrimpop +
icrg_qog + lp_catho80 + lp_muslim80 + lp_no_cpm80 +
lp_protmg80 + regaut_egip_groups_count + regaut_groups_count +
regautexclpop + regautpop + side_a_2nd_binary + side_b_2nd_binary +
vdem_corr + vdem_delibdem + vdem_dl_delib + vdem_edcomp_thick +
vdem_egal + vdem_egaldem + vdem_exbribe + vdem_excrptps +
vdem_execorr + vdem_exembez + vdem_exthftps + vdem_gender +
vdem_jucorrdc + vdem_libdem + vdem_liberal + vdem_mecorrpt +
vdem_partip + vdem_partipdem + vdem_polyarchy + vdem_pubcorr +
warhist + warhist_gov + warhist_terr + wdi_gdpcapgr + wdi_gdpcapcon2010 +
wdi_gdpcapcur + wdi_mobile + wdi_mortinf + wdi_mortinff + wdi_mortinfm +
wdi_refori_trans + wdi_tele + wgov_minmil + wgov_totmil
, data = data_train_five, control =  list(cp = 0.0000000001, minbucket = 2))
rpart.plot(modl2021_usip_5_provisions_controls.ctree, type = 4,
           varlen = -12, faclen = 4)
```

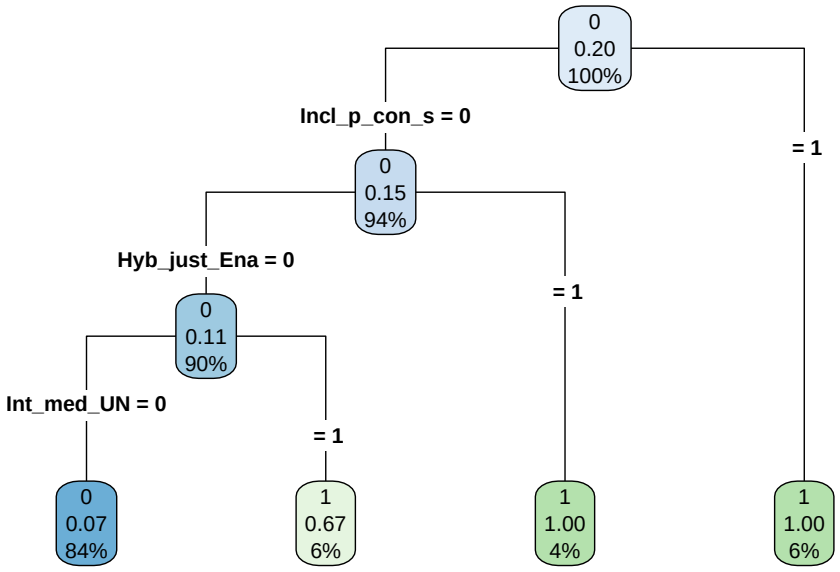


Figure A.13: Decision Tree All Provisions and All Controls (Last Five Tries).

```
### Examine fitted values:
pred2021_usip_5_provisions_controls.ctree <-
  predict(modl2021_usip_5_provisions_controls.ctree, type = "class")
```

```
#pred2021_usip_5_provisions_controls.ctree
pred2021_usip_5_provisions_controls.ctree.prop <-
  predict(modl2021_usip_5_provisions_controls.ctree, type = "prob")
#pred2021_usip_5_provisions_controls.ctree.prop

#head(pred2021_usip_5_provisions_controls.ctree)
#head(usip_data_last_five$Success)

pred2021_usip_provisions_controls.ctree.num.test  <-
  as.numeric(pred2021_usip_5_provisions_controls.ctree)
#head(pred2021_usip_5_provisions_controls.ctree.num.test)

pred2021_usip_5_provisions_controls.ctree.num <-
  as.numeric(pred2021_usip_5_provisions_controls.ctree) - 1
# For the record, these were the numbers when carrying out the estimation
#pred2021_usip_5_provisions_controls.ctree.num
#length(pred2021_usip_5_provisions_controls.ctree)
#length(data_train_five$Success)

prop.table(table(pred2021_usip_5_provisions_controls.ctree.num,
                 data_train_five$Success), 2)
```

Robustness 6: Repeat and Identify for Robust Pattern for All Tries

```
pred2021_usip_5_provisions_controls.ctree.num          0          1
                                            0 0.97435897 0.30000000
                                            1 0.02564103 0.70000000
```

```
# For the record, these were the numbers when carrying out the estimation
#pred2021_usip_5_provisions_controls.ctree.num          0          1
#                                            0 0.96428571 0.28571429
#                                            1 0.03571429 0.71428571

#################### Predicting Test Set #####################################

pred2021_usip_5_test_provisions_controls.ctree.num <-
  predict(modl2021_usip_5_provisions_controls.ctree,
                                         data_test_five, type = "class")

prop.table(table(pred2021_usip_5_test_provisions_controls.ctree.num,
                 data_test_five$Success), 2)
```

```
pred2021_usip_5_test_provisions_controls.ctree.num          0          1
                                                 0 0.94117647 0.75000000
                                                 1 0.05882353 0.25000000
```

```
# For the record, these were the numbers when carrying out the estimation
#pred2021_usip_5_test_provisions_controls.ctree.num          0          1
#                                                 0 0.94117647 0.250
#                                                 1 0.05882353 0.75000000
```

```
modl2021_usip_5a.ctree_more_controls <- rpart(as.factor(data_train_five$Success) ~
al_religion2000 + bmr_dem + ccp_equal + ccp_freerel +
ccp_hr + cspf_sfi + cumulative_intensity_trans + discrimpop +
dr_pg + dr_eg + egip_groups_count + excl_groups_count +
fe_etfra + intensity_level_trans + ldiscrimpop +
```

```
icrg_qog + lp_catho80 + lp_muslim80 + lp_no_cpm80 +
lp_protmg80 + regaut_egip_groups_count + regaut_groups_count +
regautexclpop + regautpop + side_a_2nd_binary + side_b_2nd_binary +
vdem_corr + vdem_delibdem + vdem_dl_delib + vdem_edcomp_thick +
vdem_egal + vdem_egaldem + vdem_exbribe + vdem_excrptps +
vdem_execorr + vdem_exembez + vdem_exthftps + vdem_gender +
vdem_jucorrdc + vdem_libdem + vdem_liberal + vdem_mecorrpt +
vdem_partip + vdem_partipdem + vdem_polyarchy + vdem_pubcorr +
warhist + warhist_gov + warhist_terr + wdi_gdpcapgr + wdi_gdpcapcon2010 +
wdi_gdpcapcur + wdi_mobile + wdi_mortinf + wdi_mortinff + wdi_mortinfm +
wdi_refori_trans + wdi_tele + wgov_minmil + wgov_totmil +
ross_oil_value_2000 + wdi_wip + wdi_lfpf + cspf_sfi
, data = data_train_five, control =  list(cp = 0.0000000001, minbucket = 2))

modl2021_usip_5a.ctree_more_controls
```

```
n= 49

node), split, n, loss, yval, (yprob)
      * denotes terminal node

1) root 49 10 0 (0.7959184 0.2040816)
  2) wdi_gdpcapgr>=-8.168271 47  8 0 (0.8297872 0.1702128) *
  3) wdi_gdpcapgr< -8.168271 2  0 1 (0.0000000 1.0000000) *
```

```
rpart.plot(modl2021_usip_5a.ctree_more_controls, type = 4,
           varlen = -12, faclen = 4)
```

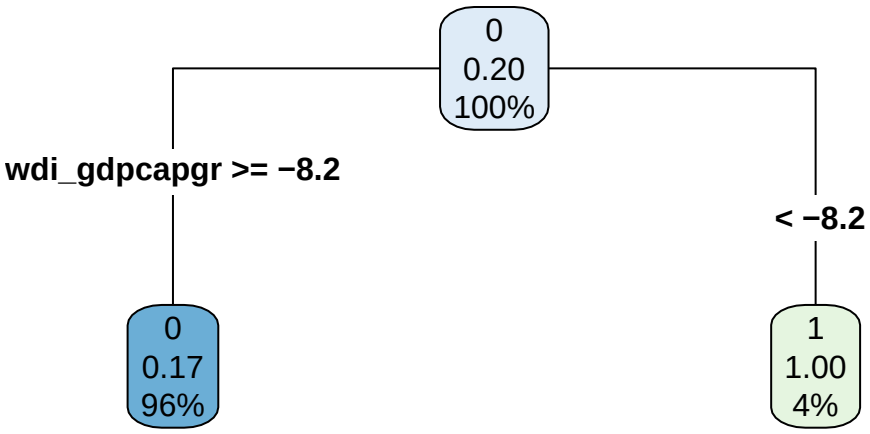


Figure A.14: Decision Tree All Controls Plus Four Additional Ones (Last Five Tries).

Step 6 Regression Analysis to Choose Case Studies

```
use "case_selection_14th_july_2025.dta"

logit Success Incl_p_con_soc_gender_Enab Int_med_UN Hyb_just_Enab ///
peace_failure peace_failure_sqd peace_failure_cub if last_five_tries==1

*Iteration 0:  Log likelihood =  -35.02817
*Iteration 1:  Log likelihood =  -25.24174
*Iteration 2:  Log likelihood = -23.813496
*Iteration 3:  Log likelihood = -23.477541
```

```
*Iteration 4:  Log likelihood = -23.474429
*Iteration 5:  Log likelihood = -23.474428
*
*Logistic regression                                      Number of obs =     70
*                                                         LR chi2(6)    =  23.11
*                                                         Prob > chi2   = 0.0008
*Log likelihood = -23.474428                              Pseudo R2     = 0.3298
*
*------------------------------------------------------------------------------
*                     Success | Coefficient  Std. err.      z    P>|z|     [95% *conf. interval]
*-----------------------------+------------------------------------------------
*Incl_p_con_soc_gender_Enab |   2.491296   1.303159     1.91   0.056    -.0628482 *    5.04544
*                  Int_med_UN |   5.080831   2.229617     2.28   0.023     .7108614 *     9.4508
*              Hyb_just_Enab |   2.564837   1.507389     1.70   0.089     -.389592 *   5.519265
*              peace_failure |   1.853529   1.237587     1.50   0.134    -.5720963 *   4.279155
*          peace_failure_sqd |  -.1448638   .1045513    -1.39   0.166    -.3497806 *   .0600531
*          peace_failure_cub |   .0035507   .0026543     1.34   0.181    -.0016517 *   .0087531
*                      _cons |  -9.039306   4.474732    -2.02   0.043    -17.80962 *  -.2689921
*------------------------------------------------------------------------------

estadd fitstat

*Measures of Fit for logit of Success
*
*Log-Lik Intercept Only:      -35.028     Log-Lik Full Model:          -23.474
*D(63):                        46.949     LR(6):                        23.107
*                                         Prob > LR:                     0.001
*McFadden's R2:                 0.330     McFadden's Adj R2:             0.130
*Maximum Likelihood R2:         0.281     Cragg & Uhler's R2:            0.445
*McKelvey and Zavoina's R2:     0.621     Efron's R2:                    0.400
*Variance of y*:                8.679     Variance of error:             3.290
*Count R2:                      0.900     Adj Count R2:                  0.500
*AIC:                           0.871     AIC*n:                        60.949
*BIC:                        -220.706     BIC':                          2.383

margins, dydx(*)

*Average marginal effects                                 Number of obs = 70
*Model VCE: OIM
*
*Expression: Pr(Success), predict()
*dy/dx wrt:  Incl_p_con_soc_gender_Enab Int_med_UN Hyb_just_Enab peace_failure *peace_failure_sqd
*            peace_failure_cub
*
*------------------------------------------------------------------------------
*                            |            Delta-method
*                            |      dy/dx   std. err.      z    P>|z|     [95% *conf. interval]
*----------------------------+-------------------------------------------------
*Incl_p_con_soc_gender_Enab |   .2565581   .1187371     2.16   0.031     .0238376 *   .4892786
*                  Int_med_UN |    .523233   .2099701     2.49   0.013     .1116991 *   .9347669
*              Hyb_just_Enab |   .2641314   .1459644     1.81   0.070    -.0219535 *   .5502163
*              peace_failure |   .1908797   .1246288     1.53   0.126    -.0533883 *   .4351477
*          peace_failure_sqd |  -.0149183   .0105321    -1.42   0.157    -.0355608 *   .0057241
*          peace_failure_cub |   .0003657    .000267     1.37   0.171    -.0001577 *    .000889
*------------------------------------------------------------------------------
```

```
estimates store probit_five_gender, title(Model Medium Tree)
drop pred_probit_five_gender
predict pred_probit_five_gender, pr


logit Success Incl_p_con_soc_gender_Enab Int_med_UN Hyb_just_Enab  ///
peace_failure peace_failure_sqd peace_failure_cub

*Iteration 0:  Log likelihood = -47.382573
*Iteration 1:  Log likelihood = -40.106885
*Iteration 2:  Log likelihood = -34.179207
*Iteration 3:  Log likelihood = -30.825598
*Iteration 4:  Log likelihood = -29.854373
*Iteration 5:  Log likelihood = -29.735182
*Iteration 6:  Log likelihood = -29.734135
*Iteration 7:  Log likelihood = -29.734135
*
*Logistic regression                                     Number of obs =    159
*                                                       LR chi2(6)    =  35.30
*                                                       Prob > chi2   = 0.0000
*Log likelihood = -29.734135                            Pseudo R2     = 0.3725
*
*------------------------------------------------------------------------------
*                     Success | Coefficient  Std. err.      z    P>|z|     [95% *conf. interval]
*-----------------------------+------------------------------------------------
*Incl_p_con_soc_gender_Enab |   2.158286   1.081073     2.00   0.046     .0394225 *   4.277149
*                  Int_med_UN |   4.914077   1.927592     2.55   0.011     1.136067 *   8.692087
*              Hyb_just_Enab |   3.414219   1.566384     2.18   0.029     .3441631 *   6.484275
*              peace_failure |   2.621575   1.315178     1.99   0.046     .0438734 *   5.199276
*           peace_failure_sqd |  -.2044964   .1084949    -1.88   0.059    -.4171424 *   .0081496
*           peace_failure_cub |   .0050087   .0027191     1.84   0.065    -.0003206 *    .010338
*                       _cons |  -12.66457   4.945735    -2.56   0.010    -22.35803 *  -2.971105
*------------------------------------------------------------------------------


estadd fitstat


*Measures of Fit for logit of Success
*
*Log-Lik Intercept Only:      -47.383     Log-Lik Full Model:          -29.734
*D(152):                       59.468     LR(6):                        35.297
*                                         Prob > LR:                     0.000
*McFadden's R2:                 0.372     McFadden's Adj R2:             0.225
*Maximum Likelihood R2:         0.199     Cragg & Uhler's R2:            0.443
*McKelvey and Zavoina's R2:     0.806     Efron's R2:                    0.356
*Variance of y*:               16.932     Variance of error:             3.290
*Count R2:                      0.931     Adj Count R2:                  0.214
*AIC:                           0.462     AIC*n:                        73.468
*BIC:                        -711.005     BIC':                         -4.883


margins, dydx(*)
```

```
*Average marginal effects                                       Number of obs = 159
*Model VCE: OIM

*Expression: Pr(Success), predict()
*dy/dx wrt:  Incl_p_con_soc_gender_Enab Int_med_UN Hyb_just_Enab peace_failure *peace_failure_sqd
*            peace_failure_cub
*
*------------------------------------------------------------------------------
*                            |            Delta-method
*                            |      dy/dx   std. err.      z    P>|z|     [95% *conf. interval]
*----------------------------+-------------------------------------------------------------
*Incl_p_con_soc_gender_Enab |    .115838   .0554243     2.09   0.037     .0072083 *   .2244677
*                Int_med_UN |    .263745   .1017591     2.59   0.010     .0643008 *   .4631892
*             Hyb_just_Enab |   .1832457    .081114     2.26   0.024     .0242651 *   .3422262
*             peace_failure |   .1407034   .0711387     1.98   0.048      .001274 *   .2801328
*         peace_failure_sqd |  -.0109756   .0058416    -1.88   0.060     -.022425 *   .0004738
*         peace_failure_cub |   .0002688   .0001458     1.84   0.065    -.0000169 *   .0005546
*------------------------------------------------------------------------------


estimates store probit_all_gender, title(Model Medium Tree)
drop pred_probit_all_gender
predict pred_probit_all_gender, pr


browse Agreement_Name Year country_cow_code ///
Incl_p_con_soc_gender_Enab  ///
Int_med_UN Hyb_just_Enab  ///
pred_probit_five_gender pred_probit_all_gender




/*
esttab ///
logit_five_gender logit_all_gender ///
using results-regression-for-case-selection.rtf, ///
replace style(tex)  width(1.0\textwidth) cells(b(star fmt(2)) se(par)) ///
stats(N r2_mf r2_ct ///
aic , fmt(0 2 2 0   ) labels(`"Observations"' ///
`"\(Mc Faddens R^{2}\)"' `"\(Count R^{2}\)"' ///
`"AIC"' )) ///
starlevels(+ 0.10 * 0.05 ** 0.01) ///
noconstant ///
label ///
numbers ///
nobaselevels ///
compress ///
varwidth(1) ///
modelwidth(1) ///
alignment(c) width(\hsize) ///
nogaps lines ///
nodepvars ////
noconstant ///
nodepvars ///
note("\tiny{Note:+significant at 10\%; *significant at 5\%; **significant at 1\%.
```

```
Clustered standard errors are in parantheses. Estimations performed using Stata
17. Constant surpressed from output.}") ///
title(Analysing the peace success using logit analysis.)
*/
```

```
Iteration 0:  Log likelihood =  -35.02817
Iteration 1:  Log likelihood =  -25.24174
Iteration 2:  Log likelihood = -23.813496
Iteration 3:  Log likelihood = -23.477541
Iteration 4:  Log likelihood = -23.474429
Iteration 5:  Log likelihood = -23.474428

Logistic regression                                     Number of obs =     70
                                                        LR chi2(6)    =  23.11
                                                        Prob > chi2   = 0.0008
Log likelihood = -23.474428                             Pseudo R2     = 0.3298

------------------------------------------------------------------------------
             Success | Coefficient  Std. err.      z    P>|z|     [95% conf. interval]
---------------------+--------------------------------------------------------------
Incl_p_con_soc_gender_Enab |   2.491296   1.303159     1.91   0.056    -.0628482     5.04544
          Int_med_UN |   5.080831   2.229617     2.28   0.023     .7108614      9.4508
        Hyb_just_Enab |   2.564837   1.507389     1.70   0.089     -.389592    5.519265
        peace_failure |   1.853529   1.237587     1.50   0.134    -.5720963    4.279155
   peace_failure_sqd |  -.1448638   .1045513    -1.39   0.166    -.3497806    .0600531
   peace_failure_cub |   .0035507   .0026543     1.34   0.181    -.0016517    .0087531
               _cons |  -9.039306   4.474732    -2.02   0.043    -17.80962   -.2689921
------------------------------------------------------------------------------


Measures of Fit for logit of Success

Log-Lik Intercept Only:      -35.028     Log-Lik Full Model:          -23.474
D(63):                        46.949     LR(6):                        23.107
                                         Prob > LR:                     0.001
McFadden's R2:                 0.330     McFadden's Adj R2:             0.130
Maximum Likelihood R2:         0.281     Cragg & Uhler's R2:            0.445
McKelvey and Zavoina's R2:     0.621     Efron's R2:                    0.400
Variance of y*:                8.679     Variance of error:             3.290
Count R2:                      0.900     Adj Count R2:                  0.500
AIC:                           0.871     AIC*n:                        60.949
BIC:                        -220.706     BIC':                          2.383

added scalars:
                e(dev) =  46.948855
             e(dev_df) =  63
               e(lrx2) =  23.107484
            e(lrx2_df) =  6
             e(lrx2_p) =  .00076127
              e(r2_mf) =  .32984144
           e(r2_mfadj) =  .13000228
              e(r2_ml) =  .28115312
              e(r2_cu) =  .44456954
              e(r2_mz) =  .62093376
              e(r2_ef) =  .39992186
            e(v_ystar) =  8.6788739
```

```
           e(v_error) =  3.2898681
             e(r2_ct) =  .9
          e(r2_ctadj) =  .5
              e(aic0) =  .87069793
             e(aic_n) =  60.948855
              e(bic0) =  -220.70634
             e(bic_p) =  2.3834875
             e(n_rhs) =  6
            e(n_parm) =  7


Average marginal effects                                        Number of obs = 70
Model VCE: OIM

Expression: Pr(Success), predict()
dy/dx wrt:  Incl_p_con_soc_gender_Enab Int_med_UN Hyb_just_Enab peace_failure peace_failure_sqd
            peace_failure_cub

------------------------------------------------------------------------------
                             |            Delta-method
                             |      dy/dx   std. err.      z    P>|z|     [95% conf. interval]
-----------------------------+------------------------------------------------------------------
Incl_p_con_soc_gender_Enab |   .2565581   .1187371     2.16   0.031     .0238376    .4892786
                Int_med_UN |    .523233   .2099701     2.49   0.013     .1116991    .9347669
             Hyb_just_Enab |   .2641314   .1459644     1.81   0.070    -.0219535    .5502163
             peace_failure |   .1908797   .1246288     1.53   0.126    -.0533883    .4351477
          peace_failure_sqd |  -.0149183   .0105321    -1.42   0.157    -.0355608    .0057241
          peace_failure_cub |   .0003657    .000267     1.37   0.171    -.0001577     .000889
------------------------------------------------------------------------------




Iteration 0:  Log likelihood = -47.382573
Iteration 1:  Log likelihood = -40.106885
Iteration 2:  Log likelihood = -34.179207
Iteration 3:  Log likelihood = -30.825598
Iteration 4:  Log likelihood = -29.854373
Iteration 5:  Log likelihood = -29.735182
Iteration 6:  Log likelihood = -29.734135
Iteration 7:  Log likelihood = -29.734135

Logistic regression                                     Number of obs =    159
                                                        LR chi2(6)    =  35.30
                                                        Prob > chi2   = 0.0000
Log likelihood = -29.734135                             Pseudo R2     = 0.3725

------------------------------------------------------------------------------
                     Success | Coefficient  Std. err.      z    P>|z|     [95% conf. interval]
-----------------------------+------------------------------------------------------------------
Incl_p_con_soc_gender_Enab |   2.158286   1.081073     2.00   0.046     .0394225    4.277149
                Int_med_UN |   4.914077   1.927592     2.55   0.011     1.136067    8.692087
             Hyb_just_Enab |   3.414219   1.566384     2.18   0.029     .3441631    6.484275
             peace_failure |   2.621575   1.315178     1.99   0.046     .0438734    5.199276
          peace_failure_sqd |  -.2044964   .1084949    -1.88   0.059    -.4171424    .0081496
```

```
        peace_failure_cub |   .0050087   .0027191     1.84   0.065    -.0003206     .010338
                    _cons |  -12.66457   4.945735    -2.56   0.010    -22.35803   -2.971105
------------------------------------------------------------------------------------------


Measures of Fit for logit of Success

Log-Lik Intercept Only:      -47.383     Log-Lik Full Model:          -29.734
D(152):                       59.468     LR(6):                        35.297
                                         Prob > LR:                     0.000
McFadden's R2:                 0.372     McFadden's Adj R2:             0.225
Maximum Likelihood R2:         0.199     Cragg & Uhler's R2:            0.443
McKelvey and Zavoina's R2:     0.806     Efron's R2:                    0.356
Variance of y*:               16.932     Variance of error:             3.290
Count R2:                      0.931     Adj Count R2:                  0.214
AIC:                           0.462     AIC*n:                        73.468
BIC:                        -711.005     BIC':                         -4.883

added scalars:
                e(dev) =  59.46827
             e(dev_df) =  152
               e(lrx2) =  35.296876
            e(lrx2_df) =  6
             e(lrx2_p) =  3.775e-06
              e(r2_mf) =  .37246686
           e(r2_mfadj) =  .22473322
              e(r2_ml) =  .19907897
              e(r2_cu) =  .44339023
              e(r2_mz) =  .80570482
              e(r2_ef) =  .35551579
            e(v_ystar) =  16.93232
            e(v_error) =  3.2898681
              e(r2_ct) =  .93081761
           e(r2_ctadj) =  .21428571
              e(aic0) =  .46206459
              e(aic_n) =  73.46827
              e(bic0) =  -711.00517
              e(bic_p) =  -4.883451
              e(n_rhs) =  6
            e(n_parm) =  7


Average marginal effects                                    Number of obs = 159
Model VCE: OIM

Expression: Pr(Success), predict()
dy/dx wrt:  Incl_p_con_soc_gender_Enab Int_med_UN Hyb_just_Enab peace_failure peace_failure_sqd
            peace_failure_cub

------------------------------------------------------------------------------------------
                           |            Delta-method
                           |      dy/dx   std. err.      z    P>|z|     [95% conf. interval]
---------------------------+--------------------------------------------------------------
Incl_p_con_soc_gender_Enab |    .115838   .0554243     2.09   0.037     .0072083    .2244677
                Int_med_UN |    .263745   .1017591     2.59   0.010     .0643008    .4631892
             Hyb_just_Enab |   .1832457    .081114     2.26   0.024     .0242651    .3422262
```

```
            peace_failure |   .1407034   .0711387     1.98   0.048      .001274    .2801328
        peace_failure_sqd |  -.0109756   .0058416    -1.88   0.060     -.022425    .0004738
        peace_failure_cub |   .0002688   .0001458     1.84   0.065    -.0000169    .0005546
------------------------------------------------------------------------------------------
```

```
request ignored because of batch mode
```

knitr::kable(iris2, format = "latex", booktabs = TRUE)

	(1) Model Five Tries b/se
Success	
Gender Inclusion (Enab)	2.49+
	(1.30)
UN Mediation	5.08*
	(2.23)
Traditional/Religious Justice Body	2.56+
	(1.51)
Time since last Success	1.85
	(1.24)
peace_failure_sqd	-0.14
	(0.10)
peace_failure_cub	0.00
	(0.00)
Observations	70
$McFaddensR^2$	0.33
$CountR^2$	0.90
AIC	61

Note:+significant at 10%; *significant at 5%; **significant at 1%. Clustered standard errors are in para

Step 6 Choose Case Studies - Graphical Illustration (Part II)

```
library(readxl)
library(ggplot2)
library(dplyr)
library(ggrepel)


data <- suppressWarnings(read_excel("prediction_graph_3_october_2025.xlsx"))
```

```
New names:
* `` -> `...1`
```

```
data <- data %>%
  mutate(Combined_Label = paste(name, Date3, sep = " - "))


filtered_data <- data %>% filter(final_and_second_final == 1)

# Smaller Data Set
filtered_data <- filtered_data %>%
  mutate(Combined_Label = paste(name, Date3, sep = " - "))



##############################################
# UN Mediation # UN Mediation # UN Mediation
##############################################

un <- ggplot(filtered_data, aes(x = UN_Mediation,
  y = Predicted_End_of_Conflict, label = Combined_Label)) +
  geom_point(color = "blue", size = 2, alpha = 0.7) +
  geom_text_repel(size = 3, color = "blue", max.overlaps = 10) +
  labs(
    title = "Predicted End of Conflict",
    x = "UN Mediation (Dummy Variable)",
    y = "Predicted End of Conflict"
  ) +
  theme_minimal()
ggsave("un_last_two_tries.png", width = 8, height = 6, dpi = 300)
```

```
Warning: ggrepel: 7 unlabeled data points (too many overlaps). Consider
increasing max.overlaps
```

```
library(devEMF)
emf("un_last_two_tries.emf", width = 8, height = 6)
print(un)
```

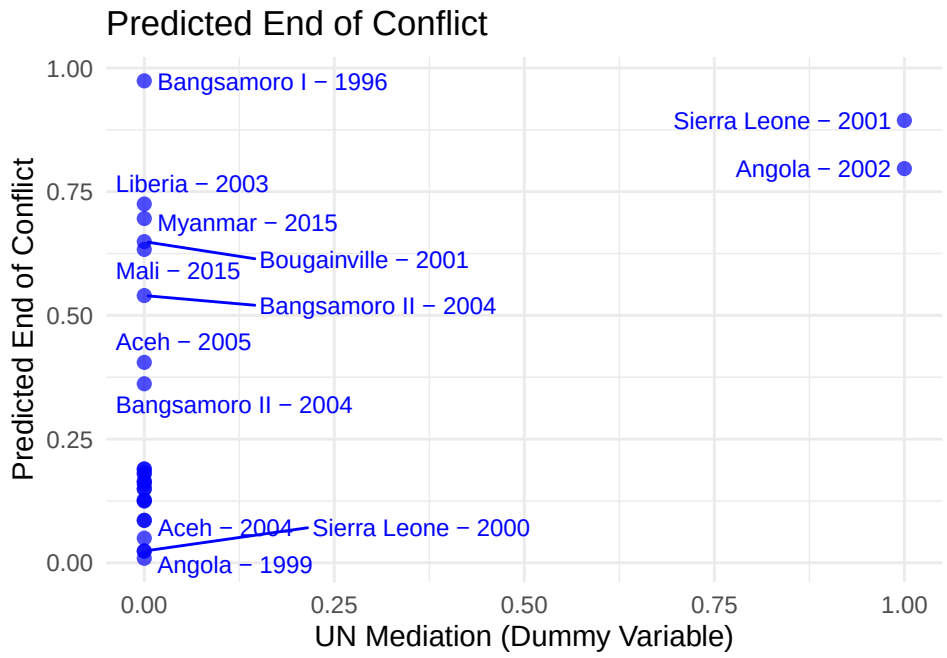
```
Warning: ggrepel: 7 unlabeled data points (too many overlaps). Consider
increasing max.overlaps
```

```
dev.off()
```

```
pdf
  2
```

```
un
```

```
Warning: ggrepel: 15 unlabeled data points (too many overlaps). Consider
increasing max.overlaps
```




```
##############################################
# Inclusion_of_Women # Inclusion_of_Women
##############################################

gender <- ggplot(filtered_data, aes(x = Inclusion_of_Women,
  y = Predicted_End_of_Conflict, label = Combined_Label)) +
  geom_point(color = "blue", size = 2, alpha = 0.7) +
  geom_text_repel(size = 3, color = "blue", max.overlaps = 10) +
  labs(
    title = "Predicted End of Conflict",
    x = "Inclusion of Women (Dummy Variable)",
    y = "Predicted End of Conflict"
  ) +
  theme_minimal()
ggsave("gender_last_two_tries.png", width = 8, height = 6, dpi = 300)
```

```
Warning: ggrepel: 7 unlabeled data points (too many overlaps). Consider
increasing max.overlaps
```

```
emf("gender_last_two_tries.emf", width = 8, height = 6)
print(gender)
```

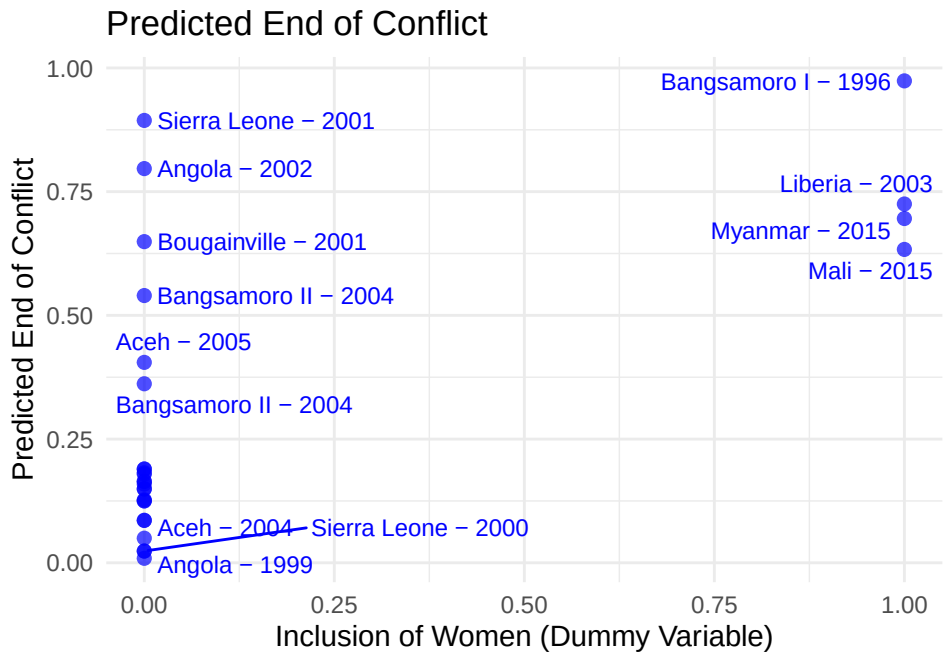
```
Warning: ggrepel: 7 unlabeled data points (too many overlaps). Consider
increasing max.overlaps
```

```
dev.off()
```

```
pdf
  2
```

```
gender
```

```
Warning: ggrepel: 15 unlabeled data points (too many overlaps). Consider
increasing max.overlaps
```




```
##############################################
# Plural Justice # # Plural Justice #
##############################################

justice <- ggplot(filtered_data, aes(x = Plural_Justice,
  y = Predicted_End_of_Conflict, label = Combined_Label)) +
  geom_point(color = "blue", size = 2, alpha = 0.7) +
  geom_text_repel(size = 3, color = "blue", max.overlaps = 10) +
  labs(
    title = "Predicted End of Conflict",
    x = "Plural Justice (Dummy Variable)",
    y = "Predicted End of Conflict"
  ) +
  theme_minimal()
ggsave("plural_justice_last_two_tries.png", width = 8, height = 6, dpi = 300)
```

```
Warning: ggrepel: 7 unlabeled data points (too many overlaps). Consider
increasing max.overlaps
```

```
emf("plural_justice_last_two_tries.emf", width = 8, height = 6)
print(justice)
```

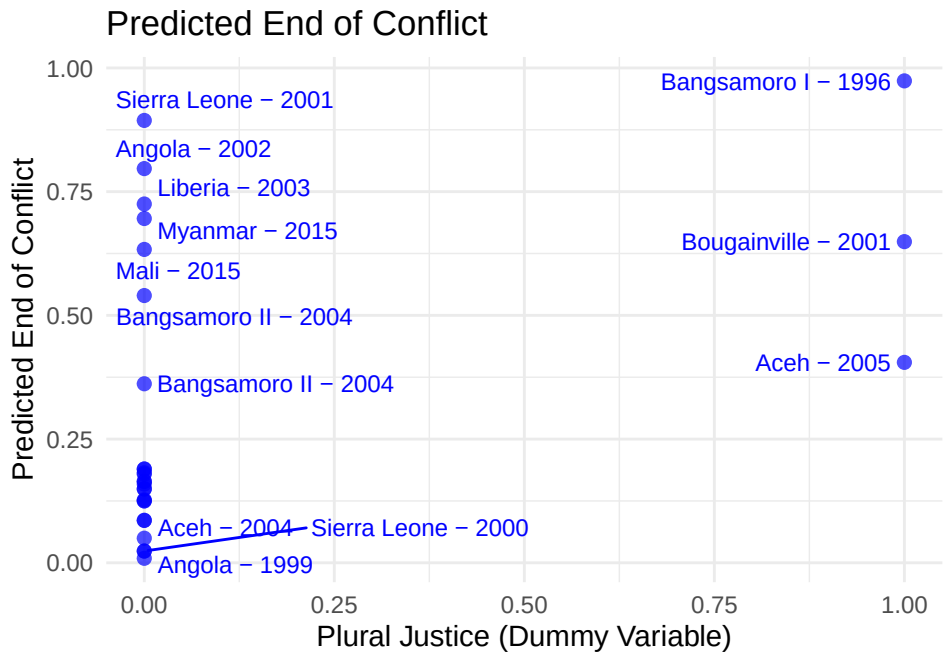
```
Warning: ggrepel: 7 unlabeled data points (too many overlaps). Consider
increasing max.overlaps
```

```
dev.off()
```

```
pdf
  2
```

```
justice
```

```
Warning: ggrepel: 15 unlabeled data points (too many overlaps). Consider
increasing max.overlaps
```


Predicted End of Conflict
Predicted End of Conflict
Plural Justice (Dummy Variable)
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
Sierra Leone − 2001
Angola − 2002
Liberia − 2003
Myanmar − 2015
Mali − 2015
Bangsamoro II − 2004
Bangsamoro II − 2004
Aceh − 2004
Angola − 1999
Sierra Leone − 2000
Bangsamoro I − 1996
Bougainville − 2001
Aceh − 2005

Phase II - Quantitative and Qualitative Hypotheses Testing

Step 8 Regression Analysis for Wider Testing (Chapter 4)

What is included in PAIC data analysis and not? This analysis excludes between 139 and 53 political agreements of the 290 agreements from PAIC due to missing data. These are the excluded one:

1 Peshawar Accord

2 Islamabad accord

3 Agreement on Provisional Arrangements in Afghanistan Pending the Re-establishment of Permanent Government Institutions (Bonn Agreement)

12 Washington Agreement

13 The General Framework Agreement for Peace in Bosnia and Herzegovina (the Dayton Agreement)

32 Agreement between the Transitional Government and the armed groups on the principles of disarmament, demobilization, reintegration and repatriation and of integration into the uniformed State forces of the Central African Republic

33 Republican Pact for Peace, National Reconciliation and Reconstruction in the Central African Republic

37 ACCORD DE PAIX ENTRE LE GOUVERNEMENT DE LA REPUBLIQUE DU TCHAD ET LE MOUVEMENT NATIONAL (MN)

49 ACUERDO SOBRE CESE AL FUEGO Y DE HOSTILIDADES BILATERAL Y DEFINITIVO Y DEJACIÓN DE LAS ARMAS ENTRE EL GOBIERNO NACIONAL Y LAS FARC-EP

50 ACUERDO FINAL PARA LA TERMINACIÓN DEL CONFLICTO Y LA CONSTRUCCIÓN DE UNA PAZ ESTABLE Y DURADERA

135 Kenya National Dialogue and Reconciliation

137 The Taif Accord

147 Libyan Political Agreement

157 Accord pour la paix e la reconcilation au Mali

166 Agreement between "Wa" Special Region and the Government

167 Agreement between the Government and the Mongla Armed Group (Special Region 4 - Northern Shan State)

168 CNF Government, 9-point State-level Peace Agreement

170 Initial Agreement between Mon State Level Peace-Making Group and the New Mon State Party (NMSP)

171 Agreement between the State-Level Peace-Making Team and the KNU/KNLA Peace Council

172 THE NATIONWIDE CEASEFIRE AGREEMENT BETWEEN THE GOVERNMENT OF THE REPUBLIC OF THE UNION OF MYANMAR AND THE ETHNIC ARMED ORGANIZATIONS

174 Comprehensive Peace Agreement between the Government of Nepal and the Comunist Party of Nepal (Maoist)

226 Addis Ababa Agreement

227 Declaration on Cessation of Hostilities and the Structures and Principles of the Somalia National Reconciliation Process

228 Transitional Federal Charter of the Somali Republic

229 Agreement between the Transitional Federal Government of Somalia (TFG) and the Alliance for the Re-Liberation of Somalia (ARS) (Djibouti Agreement)

230 Joint statement between the Transitional Federal Government (TFG) and the Alliance for the Re-liberation of Somalia (ARS) on Somalia Emergency and Drought Relief

231 Modalities for the Implementation of the Cessation of Armed Confrontation

232 Decision on the High Level Committee Djibouti Agreement

233 An agreement between the Transitional Federal Government and the Puntland Regional State of Somalia

234 Agreement between the Transitional Federal Government of Somalia and Ahlu Sunna Maljama a

235 Agreement between the Federal Government of Somalia and Jubba Delegation

236 Agreement between the Government of the Republic of South Sudan and the South Sudan Democratic Movement/Army

237 Agreement on cessation of hostilities between the Government of the Republic of South Sudan and the Sudan People's Liberation Movement/Army (in Opposition)

238 Agreement on a cessation of hostilities between the Government of South Sudan and the South Sudan Democratic Movement/Defense Army Cobra Faction

239 Recommitment on humanitarian matters in the cessation of hostilities agreement between the Government of the Republic of South Sudan and the Sudan People's Liberation Movement/Army in opposition SPLM/SPLA (in opposition)

240 Agreement on the resolution of the conflict in Jonglei State

241 Agreement to resolve the crisis in South Sudan

242 Sudan People's Liberation Movement Framework for intra-SPLM dialogue

243 INTRA-SPLM DIALOGUE THE ARUSHA COMMUNIQUE

244 Areas of agreement on the establishment of the transitional government of national unity in the Republic of South Sudan

245 Agreement on the resolution of the conflict in the Republic of South Sudan

246 Outcome of the meeting of the principal signatory parties to the agreement on the planning implementation of the provisions in chapter II of the agreement 21 October-3 November

258 Juba Declaration on Unity and Integration between the Sudan People's Liberation Army (SPLA) And the South Sudan Defence Forces (SSDF)

259 Darfur Peace Agreement

260 Eastern Sudan Peace Agreement

261 Roadmap for Return of IDPs and Implementation of Abyei Protocol

262 Agreement of good will and confidence building for the settlement of the problem in Darfur

263 Framework agreement to resolve the conflict in Darfur between the Government of Sudan and the Justice and Equality Movement Sudan

264 Ceasefire implementation mechanism

265 Agreement between the Government of the Republic of Sudan and the Sudan People's Liberation Movement on temporary agreements on the administration and security of the Abyei Area

266 Framework agreement between the Government of Sudan and Sudan People's Liberation Movement (North) on Political Partnership between NCP and SPLMN, and Political and Security Arrangements in Blue Nile and Southern Kordofan States

267 Agreement between the Government of Sudan and the Justice and Equality Movement-Sudan on the basis of the Doha Document for peace in Darfur

268 Ceasefire agreement

```
use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"
```

```
*******************************************************************************
*******************************************************************************
*******************************************************************************
*******************************************************************************
*
* Probit Estimation. * Probit Estimation.  * Probit Estimation.
*
*******************************************************************************
*******************************************************************************
*******************************************************************************
*******************************************************************************


* Single Effects - Plural Justice
probit conflict_incidence ///
i.hyb_just ///
al_ethnic  ///
cspv_ethwar ///
dpi_pr dpi_president ///
c.p_polity2##c.p_polity2 ///
wdi_gdpcappppcon2011 ///
wdi_pop ///
wdi_forest ///
brit_col ///
icrg_qog ///
ross_oil_value_2014 ///
con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub, vce(cluster cowcode)
fitstat
estadd fitstat

***** For Margins ****
estadd margins, dydx(i.hyb_just) replace
matrix list e(margins_b)
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,2]
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,2]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC

estimates store m_hjust, title(Model 1)


* Single Effects - Gender
probit conflict_incidence ///
i.incl_p_con_soc_gender ///
al_ethnic  ///
cspv_ethwar ///
dpi_pr dpi_president ///
```

```
c.p_polity2##c.p_polity2 ///
wdi_gdpcappppcon2011 ///
wdi_pop ///
wdi_forest ///
brit_col ///
icrg_qog ///
ross_oil_value_2014 ///
con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub,  vce(cluster cowcode)
fitstat
estadd fitstat

***** For Margins ****
estadd margins, dydx(i.incl_p_con_soc_gender) replace
matrix list e(margins_b)
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,2]
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,2]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC

estimates store m_gender, title(Model 2)



* Single Effects - UN
probit conflict_incidence ///
i.int_med_UN_New ///
al_ethnic  ///
cspv_ethwar ///
dpi_pr dpi_president ///
c.p_polity2##c.p_polity2 ///
wdi_gdpcappppcon2011 ///
wdi_pop ///
wdi_forest ///
brit_col ///
icrg_qog ///
ross_oil_value_2014 ///
con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub,  ///
vce(cluster cowcode)
fitstat
estadd fitstat

***** For Margins ****
estadd margins, dydx(i.int_med_UN_New) replace
matrix list e(margins_b)
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,2]
```

```
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,2]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC

estimates store m_un, title(Model 2)




* Single Effects of all Three
probit conflict_incidence ///
i.hyb_just i.incl_p_con_soc_gender i.int_med_UN_New ///
al_ethnic  ///
cspv_ethwar ///
dpi_pr dpi_president ///
c.p_polity2##c.p_polity2 ///
wdi_gdpcappppcon2011 ///
wdi_pop ///
wdi_forest ///
brit_col ///
icrg_qog ///
ross_oil_value_2014 ///
con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub ,  ///
vce(cluster cowcode)
fitstat
estadd fitstat

estimates store m_hjust_un_gender, title(Model 2)
```

Probit Regression Analysis for Wider Testing

```
Iteration 0:  Log pseudolikelihood = -984.47659
Iteration 1:  Log pseudolikelihood = -499.77957
Iteration 2:  Log pseudolikelihood = -482.22756
Iteration 3:  Log pseudolikelihood = -480.94849
Iteration 4:  Log pseudolikelihood = -480.94295
Iteration 5:  Log pseudolikelihood = -480.94295

Probit regression                                     Number of obs =  1,475
                                                      Wald chi2(14) =      .
                                                      Prob > chi2   =      .
Log pseudolikelihood = -480.94295                     Pseudo R2     = 0.5115

                                          (Std. err. adjusted for 40 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------------------+----------------------------------------------------------------
             1.hyb_just |     .00187   .1842568     0.01   0.992    -.3592666    .3630066
              al_ethnic |  -.4480424   .9855453    -0.45   0.649    -2.379676    1.483591
```

```
           cspv_ethwar |   .2454318   .1786945     1.37   0.170    -.1048029    .5956665
                dpi_pr |   -.019248   .3343511    -0.06   0.954    -.6745642    .6360681
         dpi_president |   1.836448   .9144038     2.01   0.045     .0442489    3.628646
             p_polity2 |  -.0811587   .0484287    -1.68   0.094    -.1760772    .0137598
                       |
c.p_polity2#c.p_polity2 |   .0041927   .0096947     0.43   0.665    -.0148085     .023194
                       |
   wdi_gdpcappppcon2011 |  -.0000301   .0000618    -0.49   0.626    -.0001512     .000091
               wdi_pop |   1.07e-09   1.23e-09     0.87   0.382    -1.33e-09    3.47e-09
            wdi_forest |   .0135553   .0083191     1.63   0.103    -.0027498    .0298604
              brit_col |    .170369   .4369235     0.39   0.697    -.6859854    1.026723
               icrg_qog |   .0892819   1.197979     0.07   0.941    -2.258714    2.437278
    ross_oil_value_2014 |   3.86e-12   5.40e-12     0.71   0.475    -6.72e-12    1.44e-11
     con_incid_peaceyrs |  -1.499963   .2782433    -5.39   0.000     -2.04531   -.9546164
 con_incid_peaceyrs_sqd |   .3163797   .0865928     3.65   0.000     .1466609    .4860985
 con_incid_peaceyrs_cub |  -.0203532   .0072655    -2.80   0.005    -.0345933   -.0061132
                  _cons |  -1.324623   .8927351    -1.48   0.138    -3.074352    .4251054
------------------------------------------------------------------------------
Note: 1 failure and 0 successes completely determined.


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -480.943
D(1457):                     961.886     LR(14):                    1007.067
                                         Prob > LR:                    0.000
McFadden's R2:                 0.511     McFadden's Adj R2:            0.493
Maximum Likelihood R2:         0.495     Cragg & Uhler's R2:           0.672
McKelvey and Zavoina's R2:     0.705     Efron's R2:                   0.588
Variance of y*:                3.391     Variance of error:            1.000
Count R2:                      0.872     Adj Count R2:                 0.669
AIC:                           0.677     AIC*n:                      997.886
BIC:                       -9668.988     BIC':                      -904.917


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -480.943
D(1457):                     961.886     LR(14):                    1007.067
                                         Prob > LR:                    0.000
McFadden's R2:                 0.511     McFadden's Adj R2:            0.493
Maximum Likelihood R2:         0.495     Cragg & Uhler's R2:           0.672
McKelvey and Zavoina's R2:     0.705     Efron's R2:                   0.588
Variance of y*:                3.391     Variance of error:            1.000
Count R2:                      0.872     Adj Count R2:                 0.669
AIC:                           0.677     AIC*n:                      997.886
BIC:                       -9668.988     BIC':                      -904.917

added scalars:
               e(dev) =  961.8859
            e(dev_df) =  1457
              e(lrx2) =  1007.0673
           e(lrx2_df) =  14
            e(lrx2_p) =  4.77e-206
             e(r2_mf) =  .51147345
          e(r2_mfadj) =  .49318962
```

```
              e(r2_ml) =  .49477807
              e(r2_cu) =  .67151272
              e(r2_mz) =  .70506859
              e(r2_ef) =  .58833457
            e(v_ystar) =  3.3906188
            e(v_error) =  1
              e(r2_ct) =  .87186441
           e(r2_ctadj) =  .66900175
               e(aic0) =  .67653282
              e(aic_n) =  997.8859
               e(bic0) =  -9668.9882
              e(bic_p) =  -904.91749
              e(n_rhs) =  17
             e(n_parm) =  18


Average marginal effects                                    Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
dy/dx wrt:  1.hyb_just

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
  1.hyb_just |   .0003412   .0336337     0.01   0.992    -.0655795     .066262
------------------------------------------------------------------------------
Note: dy/dx for factor levels is the discrete change from the base level.

added scalars:
      e(margins_level) =  95
e(margins_PT_has_legend) =  0
e(margins_PT_has_cnotes) =  0
e(margins_PT_k_ctitles) =  2
    e(margins_k_eform) =  1
    e(margins_k_mlist) =  1
       e(margins_k_at) =  0
       e(margins_k_by) =  1
  e(margins_k_predict) =  1
e(margins_outcomeIsEq1) =  0
       e(margins_j2_1) =  0
       e(margins_j1_1) =  0
     e(margins_deriv1) =  1
     e(margins_is_xb1) =  0
    e(margins_numeric) =  0
  e(margins_k_margins) =  0
          e(margins_N) =  1475

added macros:
  e(margins_marg_dims) : "_deriv"
 e(margins_put_tables) : "PT"
     e(margins_isloco) : "0"
   e(margins_PT_rseps) : "`""'"
  e(margins_PT_rnotes) : "`""'"
 e(margins_PT_raligns) : "`"right"'"
```

```
 e(margins_PT_rtitles) : "`"1.hyb_just"'"
e(margins_PT_cformats) : "`"%9.0g"' `"%9.0g"' `"%8.2f"' `"%5.3f"' `"%9.0g"' `"%9.0g"'"
 e(margins_PT_cspans2) : "`"1"' `"1"' `"1"' `"1"' `"2"' `"0"'"
e(margins_PT_ctitles2) : "`"dy/dx"' `"std. err."' `"z"' `"P>|z|"' `"[95% conf. interval]"' `""'"
 e(margins_PT_cspans1) : "`"1"' `"1"' `"1"' `"1"' `"1"' `"1"'"
e(margins_PT_ctitles1) : "`""' `"Delta-method"' `""' `""' `""' `""'"
     e(margins_citype) : "normal"
     e(margins_label1) : "(base)"
   e(margins_mcmethod) : "noadjust"
        e(margins_cmd) : "margins"
    e(margins_cmdline) : "margins , dydx(i.hyb_just)"
 e(margins_est_depvar) : "conflict_incidence"
e(margins_est_cmdline) : "probit conflict_incidence i.hyb_just al_ethnic  cspv_ethwar dpi_pr dpi_
> president c.p_polity2##c.p_polity2 wdi_gdpcappppcon2011 wdi_pop wdi_forest brit_col icrg_qog ro
> ss_oil_value_2014 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub, vce(cluster
>  cowcode)"
    e(margins_est_cmd) : "probit"
    e(margins_predict) : "_no_predict"
     e(margins_mlist1) : "_cons"
 e(margins_emptycells) : "strict"
e(margins_derivatives) : "dy/dx"
      e(margins_xvars) : "0b.hyb_just 1.hyb_just"
e(margins_predict1_label) : "Pr(conflict_incidence)"
 e(margins_expression) : "predict()"
e(margins_predict_label) : "Pr(conflict_incidence)"
    e(margins_vcetype) : "Delta-method"
        e(margins_vce) : "delta"
e(margins_model_vcetype) : "Robust"
  e(margins_model_vce) : "cluster"
      e(margins_title) : "Average marginal effects"

added matrices:
         e(margins_PT) :  1 x 6
      e(margins_table) :  9 x 2
          e(margins_b) :  1 x 2
  e(margins_chainrule) :  1 x 3
         e(margins_se) :  1 x 2
   e(margins_Jacobian) :  2 x 18
      e(margins_error) :  1 x 2
         e(margins__N) :  1 x 2


e(margins_b)[1,2]
           0b.         1.
     hyb_just   hyb_just
y1          0  .00034125



margins_b[1,2]
           0b.         1.
     hyb_just   hyb_just
y1          0  .00034125
```

```
added scalar:
           e(N1Pa1Po1) =  .00034125


e(margins_se)[1,2]
           0b.         1.
     hyb_just   hyb_just
r1          0  .03363366



margins_se[1,2]
           0b.         1.
     hyb_just   hyb_just
r1          0  .03363366



added scalar:
        e(N1Pa1Po1_se) =  .03363366



added scalar:
        e(N1Pa1Po1_LC) =  -.06558072



added scalar:
        e(N1Pa1Po1_HC) =  .06626321



Iteration 0:  Log pseudolikelihood = -984.47659
Iteration 1:  Log pseudolikelihood = -495.42597
Iteration 2:  Log pseudolikelihood = -475.88297
Iteration 3:  Log pseudolikelihood = -474.55206
Iteration 4:  Log pseudolikelihood =  -474.5445
Iteration 5:  Log pseudolikelihood =  -474.5445

Probit regression                                       Number of obs =  1,475
                                                        Wald chi2(14) =      .
                                                        Prob > chi2   =      .
Log pseudolikelihood = -474.5445                        Pseudo R2     = 0.5180

                                          (Std. err. adjusted for 40 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------------------+----------------------------------------------------------------
1.incl_p_con_soc_gender |  -.5967342   .1985104    -3.01   0.003    -.9858074   -.2076611
              al_ethnic |  -.3563237   .9721662    -0.37   0.714    -2.261734    1.549087
            cspv_ethwar |   .2684981   .1702006     1.58   0.115    -.0650889    .6020851
                 dpi_pr |  -.0041491   .3354938    -0.01   0.990    -.6617048    .6534066
          dpi_president |   1.818269   .8882131     2.05   0.041     .0774032    3.559135
              p_polity2 |  -.0861891   .0498789    -1.73   0.084    -.1839499    .0115716
```

```
                          |
c.p_polity2#c.p_polity2 |   .0059016   .0095962     0.61   0.539    -.0129065    .0247097
                          |
   wdi_gdpcappppcon2011 |  -.0000319   .0000621    -0.51   0.608    -.0001537    .0000899
                wdi_pop |   8.95e-10   1.15e-09     0.78   0.438    -1.37e-09    3.16e-09
             wdi_forest |   .0134386   .0082275     1.63   0.102    -.0026871    .0295642
               brit_col |   .1335614   .4388886     0.30   0.761    -.7266443    .9937672
               icrg_qog |    .061255   1.204228     0.05   0.959    -2.298989    2.421499
    ross_oil_value_2014 |   4.53e-12   5.47e-12     0.83   0.408    -6.20e-12    1.53e-11
     con_incid_peaceyrs |   -1.48363   .2753607    -5.39   0.000    -2.023328   -.9439333
 con_incid_peaceyrs_sqd |   .3118086   .0869692     3.59   0.000      .141352    .4822652
 con_incid_peaceyrs_cub |  -.0200166   .0072804    -2.75   0.006    -.0342859   -.0057472
                  _cons |  -1.340596   .8903314    -1.51   0.132    -3.085614    .4044216
------------------------------------------------------------------------------
Note: 1 failure and 0 successes completely determined.


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -474.544
D(1457):                     949.089     LR(14):                    1019.864
                                         Prob > LR:                    0.000
McFadden's R2:                 0.518     McFadden's Adj R2:            0.500
Maximum Likelihood R2:         0.499     Cragg & Uhler's R2:           0.677
McKelvey and Zavoina's R2:     0.717     Efron's R2:                   0.591
Variance of y*:                3.533     Variance of error:            1.000
Count R2:                      0.876     Adj Count R2:                 0.680
AIC:                           0.668     AIC*n:                      985.089
BIC:                       -9681.785     BIC':                      -917.714


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -474.544
D(1457):                     949.089     LR(14):                    1019.864
                                         Prob > LR:                    0.000
McFadden's R2:                 0.518     McFadden's Adj R2:            0.500
Maximum Likelihood R2:         0.499     Cragg & Uhler's R2:           0.677
McKelvey and Zavoina's R2:     0.717     Efron's R2:                   0.591
Variance of y*:                3.533     Variance of error:            1.000
Count R2:                      0.876     Adj Count R2:                 0.680
AIC:                           0.668     AIC*n:                      985.089
BIC:                       -9681.785     BIC':                      -917.714

added scalars:
                e(dev) =  949.08899
             e(dev_df) =  1457
               e(lrx2) =  1019.8642
            e(lrx2_df) =  14
             e(lrx2_p) =  8.55e-209
              e(r2_mf) =  .5179728
           e(r2_mfadj) =  .49968897
              e(r2_ml) =  .49914235
              e(r2_cu) =  .67743592
              e(r2_mz) =  .71692408
              e(r2_ef) =  .5910749
```

```
            e(v_ystar) =  3.5326212
            e(v_error) =  1
              e(r2_ct) =  .8759322
           e(r2_ctadj) =  .67950963
               e(aic0) =  .66785694
              e(aic_n) =  985.08899
               e(bic0) =  -9681.7851
              e(bic_p) =  -917.7144
              e(n_rhs) =  17
             e(n_parm) =  18


Average marginal effects                                    Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
dy/dx wrt:  1.incl_p_con_soc_gender

------------------------------------------------------------------------------
                             |            Delta-method
                             |      dy/dx   std. err.      z    P>|z|     [95% conf. interval]
-----------------------------+------------------------------------------------------------------
1.incl_p_con_soc_gender |  -.1077579   .0386639    -2.79   0.005    -.1835378   -.0319781
------------------------------------------------------------------------------
Note: dy/dx for factor levels is the discrete change from the base level.

added scalars:
      e(margins_level) =  95
e(margins_PT_has_legend) =  0
e(margins_PT_has_cnotes) =  0
e(margins_PT_k_ctitles) =  2
    e(margins_k_eform) =  1
    e(margins_k_mlist) =  1
       e(margins_k_at) =  0
       e(margins_k_by) =  1
  e(margins_k_predict) =  1
e(margins_outcomeIsEq1) =  0
       e(margins_j2_1) =  0
       e(margins_j1_1) =  0
     e(margins_deriv1) =  1
     e(margins_is_xb1) =  0
    e(margins_numeric) =  0
  e(margins_k_margins) =  0
          e(margins_N) =  1475

added macros:
  e(margins_marg_dims) : "_deriv"
 e(margins_put_tables) : "PT"
     e(margins_isloco) : "0"
   e(margins_PT_rseps) : "`""'"
  e(margins_PT_rnotes) : "`""'"
 e(margins_PT_raligns) : "`"right"'"
 e(margins_PT_rtitles) : "`"1.incl_p_con_soc_gender"'"
e(margins_PT_cformats) : "`"%9.0g"' `"%9.0g"' `"%8.2f"' `"%5.3f"' `"%9.0g"' `"%9.0g"'"
 e(margins_PT_cspans2) : "`"1"' `"1"' `"1"' `"1"' `"2"' `"0"'"
e(margins_PT_ctitles2) : "`"dy/dx"' `"std. err."' `"z"' `"P>|z|"' `"[95% conf. interval]"' `""'"
```

```
 e(margins_PT_cspans1) : "`"1"' `"1"' `"1"' `"1"' `"1"' `"1"'"
e(margins_PT_ctitles1) : "`""' `"Delta-method"' `""' `""' `""' `""'"
     e(margins_citype) : "normal"
     e(margins_label1) : "(base)"
   e(margins_mcmethod) : "noadjust"
        e(margins_cmd) : "margins"
    e(margins_cmdline) : "margins , dydx(i.incl_p_con_soc_gender)"
 e(margins_est_depvar) : "conflict_incidence"
e(margins_est_cmdline) : "probit conflict_incidence i.incl_p_con_soc_gender al_ethnic  cspv_ethwa
> r dpi_pr dpi_president c.p_polity2##c.p_polity2 wdi_gdpcappppcon2011 wdi_pop wdi_forest brit_co
> l icrg_qog ross_oil_value_2014 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub
> ,  vce(cluster cowcode)"
    e(margins_est_cmd) : "probit"
    e(margins_predict) : "_no_predict"
     e(margins_mlist1) : "_cons"
 e(margins_emptycells) : "strict"
e(margins_derivatives) : "dy/dx"
      e(margins_xvars) : "0b.incl_p_con_soc_gender 1.incl_p_con_soc_gender"
e(margins_predict1_label) : "Pr(conflict_incidence)"
 e(margins_expression) : "predict()"
e(margins_predict_label) : "Pr(conflict_incidence)"
    e(margins_vcetype) : "Delta-method"
        e(margins_vce) : "delta"
e(margins_model_vcetype) : "Robust"
  e(margins_model_vce) : "cluster"
      e(margins_title) : "Average marginal effects"

added matrices:
         e(margins_PT) :  1 x 6
      e(margins_table) :  9 x 2
          e(margins_b) :  1 x 2
  e(margins_chainrule) :  1 x 3
         e(margins_se) :  1 x 2
   e(margins_Jacobian) :  2 x 18
      e(margins_error) :  1 x 2
         e(margins__N) :  1 x 2


e(margins_b)[1,2]
              0b.            1.
    incl_p_con~r  incl_p_con~r
y1             0    -.10775793



margins_b[1,2]
              0b.            1.
    incl_p_con~r  incl_p_con~r
y1             0    -.10775793



added scalar:
           e(N1Pa1Po1) =  -.10775793
```

```
e(margins_se)[1,2]
              0b.            1.
    incl_p_con~r  incl_p_con~r
r1             0     .03866389



margins_se[1,2]
              0b.            1.
    incl_p_con~r  incl_p_con~r
r1             0     .03866389



added scalar:
        e(N1Pa1Po1_se) =  .03866389



added scalar:
        e(N1Pa1Po1_LC) =  -.18353914



added scalar:
        e(N1Pa1Po1_HC) =  -.03197671



Iteration 0:  Log pseudolikelihood = -984.47659
Iteration 1:  Log pseudolikelihood = -482.13945
Iteration 2:  Log pseudolikelihood = -458.59907
Iteration 3:  Log pseudolikelihood = -457.36723
Iteration 4:  Log pseudolikelihood = -457.35931
Iteration 5:  Log pseudolikelihood = -457.35931

Probit regression                                     Number of obs =  1,475
                                                      Wald chi2(14) =      .
                                                      Prob > chi2   =      .
Log pseudolikelihood = -457.35931                     Pseudo R2     = 0.5354

                                          (Std. err. adjusted for 40 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------------------+----------------------------------------------------------------
       1.int_med_UN_New |  -1.173863    .511595    -2.29   0.022    -2.176571   -.1711556
              al_ethnic |  -.5576647   .8071092    -0.69   0.490     -2.13957     1.02424
            cspv_ethwar |   .2831167   .1361216     2.08   0.038     .0163233    .5499102
                 dpi_pr |   .1080743   .2958334     0.37   0.715    -.4717485    .6878971
          dpi_president |   1.674638   .7104294     2.36   0.018     .2822224    3.067054
              p_polity2 |  -.0767284   .0483451    -1.59   0.112    -.1714831    .0180263
                        |
c.p_polity2#c.p_polity2 |   .0058146   .0094237     0.62   0.537    -.0126554    .0242847
                        |
   wdi_gdpcappppcon2011 |  -.0000195   .0000553    -0.35   0.724    -.0001278    .0000888
```

```
               wdi_pop |   6.60e-10   8.87e-10     0.74   0.456    -1.08e-09    2.40e-09
           wdi_forest |    .012069   .0075168     1.61   0.108    -.0026637    .0268017
             brit_col |   .1791933    .422148     0.42   0.671    -.6482016    1.006588
              icrg_qog |  -.8185216   1.220034    -0.67   0.502    -3.209744      1.5727
   ross_oil_value_2014 |   1.05e-12   4.93e-12     0.21   0.831    -8.62e-12    1.07e-11
    con_incid_peaceyrs |  -1.480342   .2730043    -5.42   0.000     -2.01542   -.9452632
con_incid_peaceyrs_sqd |   .3155943   .0905153     3.49   0.000     .1381876    .4930009
con_incid_peaceyrs_cub |  -.0204345   .0076297    -2.68   0.007    -.0353884   -.0054805
                 _cons |  -.7904436   .7987287    -0.99   0.322    -2.355923    .7750359
------------------------------------------------------------------------------------------


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -457.359
D(1457):                     914.719     LR(14):                    1054.235
                                         Prob > LR:                    0.000
McFadden's R2:                 0.535     McFadden's Adj R2:            0.517
Maximum Likelihood R2:         0.511     Cragg & Uhler's R2:           0.693
McKelvey and Zavoina's R2:     0.738     Efron's R2:                   0.601
Variance of y*:                3.816     Variance of error:            1.000
Count R2:                      0.873     Adj Count R2:                 0.673
AIC:                           0.645     AIC*n:                      950.719
BIC:                       -9716.156     BIC':                      -952.085


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -457.359
D(1457):                     914.719     LR(14):                    1054.235
                                         Prob > LR:                    0.000
McFadden's R2:                 0.535     McFadden's Adj R2:            0.517
Maximum Likelihood R2:         0.511     Cragg & Uhler's R2:           0.693
McKelvey and Zavoina's R2:     0.738     Efron's R2:                   0.601
Variance of y*:                3.816     Variance of error:            1.000
Count R2:                      0.873     Adj Count R2:                 0.673
AIC:                           0.645     AIC*n:                      950.719
BIC:                       -9716.156     BIC':                      -952.085

added scalars:
                e(dev) =  914.71862
             e(dev_df) =  1457
               e(lrx2) =  1054.2346
            e(lrx2_df) =  14
             e(lrx2_p) =  3.59e-216
              e(r2_mf) =  .53542897
           e(r2_mfadj) =  .51714514
              e(r2_ml) =  .51067838
              e(r2_cu) =  .69309262
              e(r2_mz) =  .73795196
              e(r2_ef) =  .60102231
            e(v_ystar) =  3.8160942
            e(v_error) =  1
              e(r2_ct) =  .87322034
           e(r2_ctadj) =  .67250438
              e(aic0) =  .64455499
```

```
              e(aic_n) =  950.71862
               e(bic0) =  -9716.1555
              e(bic_p) =  -952.08478
              e(n_rhs) =  17
             e(n_parm) =  18


Average marginal effects                                    Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
dy/dx wrt:  1.int_med_UN_New

------------------------------------------------------------------------------
                 |            Delta-method
                 |      dy/dx   std. err.      z    P>|z|     [95% conf. interval]
-----------------+------------------------------------------------------------------
1.int_med_UN_New |  -.2078698   .0789006    -2.63   0.008    -.3625122   -.0532275
------------------------------------------------------------------------------
Note: dy/dx for factor levels is the discrete change from the base level.

added scalars:
      e(margins_level) =  95
e(margins_PT_has_legend) =  0
e(margins_PT_has_cnotes) =  0
e(margins_PT_k_ctitles) =  2
    e(margins_k_eform) =  1
    e(margins_k_mlist) =  1
       e(margins_k_at) =  0
       e(margins_k_by) =  1
  e(margins_k_predict) =  1
e(margins_outcomeIsEq1) =  0
       e(margins_j2_1) =  0
       e(margins_j1_1) =  0
     e(margins_deriv1) =  1
     e(margins_is_xb1) =  0
    e(margins_numeric) =  0
  e(margins_k_margins) =  0
          e(margins_N) =  1475

added macros:
  e(margins_marg_dims) : "_deriv"
 e(margins_put_tables) : "PT"
     e(margins_isloco) : "0"
   e(margins_PT_rseps) : "`""'"
  e(margins_PT_rnotes) : "`""'"
 e(margins_PT_raligns) : "`"right"'"
 e(margins_PT_rtitles) : "`"1.int_med_UN_New"'"
e(margins_PT_cformats) : "`"%9.0g"' `"%9.0g"' `"%8.2f"' `"%5.3f"' `"%9.0g"' `"%9.0g"'"
 e(margins_PT_cspans2) : "`"1"' `"1"' `"1"' `"1"' `"2"' `"0"'"
e(margins_PT_ctitles2) : "`"dy/dx"' `"std. err."' `"z"' `"P>|z|"' `"[95% conf. interval]"' `""'"
 e(margins_PT_cspans1) : "`"1"' `"1"' `"1"' `"1"' `"1"' `"1"'"
e(margins_PT_ctitles1) : "`""' `"Delta-method"' `""' `""' `""' `""'"
     e(margins_citype) : "normal"
     e(margins_label1) : "(base)"
   e(margins_mcmethod) : "noadjust"
```

```
        e(margins_cmd) : "margins"
    e(margins_cmdline) : "margins , dydx(i.int_med_UN_New)"
 e(margins_est_depvar) : "conflict_incidence"
e(margins_est_cmdline) : "probit conflict_incidence i.int_med_UN_New al_ethnic  cspv_ethwar dpi_p
> r dpi_president c.p_polity2##c.p_polity2 wdi_gdpcappppcon2011 wdi_pop wdi_forest brit_col icrg_
> qog ross_oil_value_2014 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub,  vce(
> cluster cowcode)"
    e(margins_est_cmd) : "probit"
    e(margins_predict) : "_no_predict"
     e(margins_mlist1) : "_cons"
 e(margins_emptycells) : "strict"
e(margins_derivatives) : "dy/dx"
      e(margins_xvars) : "0b.int_med_UN_New 1.int_med_UN_New"
e(margins_predict1_label) : "Pr(conflict_incidence)"
 e(margins_expression) : "predict()"
e(margins_predict_label) : "Pr(conflict_incidence)"
    e(margins_vcetype) : "Delta-method"
        e(margins_vce) : "delta"
e(margins_model_vcetype) : "Robust"
  e(margins_model_vce) : "cluster"
      e(margins_title) : "Average marginal effects"

added matrices:
         e(margins_PT) :  1 x 6
      e(margins_table) :  9 x 2
          e(margins_b) :  1 x 2
  e(margins_chainrule) :  1 x 3
         e(margins_se) :  1 x 2
   e(margins_Jacobian) :  2 x 18
       e(margins_error) :  1 x 2
         e(margins__N) :  1 x 2


e(margins_b)[1,2]
              0b.            1.
    int_med_UN~w  int_med_UN~w
y1             0    -.20786982



margins_b[1,2]
              0b.            1.
    int_med_UN~w  int_med_UN~w
y1             0    -.20786982



added scalar:
           e(N1Pa1Po1) =  -.20786982


e(margins_se)[1,2]
              0b.            1.
    int_med_UN~w  int_med_UN~w
r1             0     .07890061
```

```
margins_se[1,2]
              0b.            1.
    int_med_UN~w  int_med_UN~w
r1             0     .07890061



added scalar:
        e(N1Pa1Po1_se) =  .07890061



added scalar:
        e(N1Pa1Po1_LC) =  -.36251501



added scalar:
        e(N1Pa1Po1_HC) =  -.05322463



Iteration 0:  Log pseudolikelihood = -984.47659
Iteration 1:  Log pseudolikelihood = -480.86073
Iteration 2:  Log pseudolikelihood = -454.65038
Iteration 3:  Log pseudolikelihood = -453.13894
Iteration 4:  Log pseudolikelihood = -453.13051
Iteration 5:  Log pseudolikelihood = -453.13051

Probit regression                                     Number of obs =  1,475
                                                      Wald chi2(16) =      .
                                                      Prob > chi2   =      .
Log pseudolikelihood = -453.13051                     Pseudo R2     = 0.5397

                                          (Std. err. adjusted for 40 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------------------+----------------------------------------------------------------
             1.hyb_just |   .3785764   .2521623     1.50   0.133    -.1156528    .8728055
1.incl_p_con_soc_gender |  -.5683038   .1641118    -3.46   0.001    -.8899571   -.2466505
       1.int_med_UN_New |  -1.143709    .487638    -2.35   0.019    -2.099462   -.1879557
              al_ethnic |  -.4812619    .816794    -0.59   0.556    -2.082149    1.119625
            cspv_ethwar |   .3020079   .1356821     2.23   0.026     .0360758    .5679399
                 dpi_pr |   .1257767   .2980861     0.42   0.673    -.4584613    .7100148
          dpi_president |   1.671949   .7118107     2.35   0.019     .2768258    3.067072
              p_polity2 |  -.0806297   .0488819    -1.65   0.099    -.1764365     .015177
                        |
c.p_polity2#c.p_polity2 |    .006488   .0095472     0.68   0.497    -.0122241    .0252001
                        |
   wdi_gdpcappppcon2011 |    -.00002   .0000561    -0.36   0.722    -.0001299      .00009
                wdi_pop |   4.51e-10   8.62e-10     0.52   0.601    -1.24e-09    2.14e-09
            wdi_forest  |    .011703   .0075059     1.56   0.119    -.0030082    .0264142
              brit_col  |   .1460193   .4268659     0.34   0.732    -.6906226    .9826611
```

```
              icrg_qog |  -.8686932   1.226741    -0.71   0.479    -3.273062    1.535676
    ross_oil_value_2014 |   1.50e-12   5.02e-12     0.30   0.766    -8.35e-12    1.13e-11
     con_incid_peaceyrs |  -1.472099   .2749841    -5.35   0.000    -2.011058     -.93314
 con_incid_peaceyrs_sqd |   .3132615   .0909894     3.44   0.001     .1349255    .4915974
 con_incid_peaceyrs_cub |  -.0202881   .0076488    -2.65   0.008    -.0352794   -.0052967
                  _cons |  -.7991212   .8035458    -0.99   0.320    -2.374042    .7757996
------------------------------------------------------------------------------
Note: 1 failure and 0 successes completely determined.


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -453.131
D(1453):                     906.261     LR(16):                    1062.692
                                         Prob > LR:                    0.000
McFadden's R2:                 0.540     McFadden's Adj R2:            0.517
Maximum Likelihood R2:         0.513     Cragg & Uhler's R2:           0.697
McKelvey and Zavoina's R2:     0.751     Efron's R2:                   0.604
Variance of y*:                4.015     Variance of error:            1.000
Count R2:                      0.872     Adj Count R2:                 0.669
AIC:                           0.644     AIC*n:                      950.261
BIC:                       -9695.427     BIC':                      -945.950


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -453.131
D(1453):                     906.261     LR(16):                    1062.692
                                         Prob > LR:                    0.000
McFadden's R2:                 0.540     McFadden's Adj R2:            0.517
Maximum Likelihood R2:         0.513     Cragg & Uhler's R2:           0.697
McKelvey and Zavoina's R2:     0.751     Efron's R2:                   0.604
Variance of y*:                4.015     Variance of error:            1.000
Count R2:                      0.872     Adj Count R2:                 0.669
AIC:                           0.644     AIC*n:                      950.261
BIC:                       -9695.427     BIC':                      -945.950

added scalars:
                e(dev) =  906.26103
             e(dev_df) =  1453
               e(lrx2) =  1062.6922
            e(lrx2_df) =  16
             e(lrx2_p) =  4.17e-216
               e(r2_mf) =  .53972444
           e(r2_mfadj) =  .51737754
               e(r2_ml) =  .5134761
               e(r2_cu) =  .69688968
               e(r2_mz) =  .75095169
               e(r2_ef) =  .60410312
            e(v_ystar) =  4.0152853
            e(v_error) =  1
               e(r2_ct) =  .87186441
           e(r2_ctadj) =  .66900175
               e(aic0) =  .64424476
               e(aic_n) =  950.26103
               e(bic0) =  -9695.4275
```

```
            e(bic_p) =  -945.94954
            e(n_rhs) =  21
           e(n_parm) =  22
```

```
use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"


* Double Interaction Effects
probit conflict_incidence ///
i.hyb_just i.incl_p_con_soc_gender##i.int_med_UN_New ///
al_ethnic  ///
cspv_ethwar ///
dpi_pr dpi_president ///
c.p_polity2##c.p_polity2 ///
wdi_gdpcappppcon2011 ///
wdi_pop ///
wdi_forest ///
brit_col ///
icrg_qog ///
ross_oil_value_2014 ///
con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub , ///
vce(cluster cowcode)
fitstat
estadd fitstat

estimates store m_hjust_un_gender_int, title(Model 2)

margins, at(incl_p_con_soc_gender=0 int_med_UN_New=0) saving (file_gen0un0, replace)
margins, at(incl_p_con_soc_gender=1 int_med_UN_New=0) saving (file_gen1un0, replace)
margins, at(incl_p_con_soc_gender=0 int_med_UN_New=1) saving (file_gen0un1, replace)
margins, at(incl_p_con_soc_gender=1 int_med_UN_New=1) saving (file_gen1un1, replace)


combomarginsplot file_gen0un0 file_gen1un0 file_gen0un1 file_gen1un1, ///
title("") ///
xtitle("") ///
xlabel( ///
1 "Women=0 UN=0" ///
2 "Women=1 UN=0" ///
3 "Women=0 UN=1" ///
4 "Women=1 UN=1" ///
) ///
xsc(r(0.5 4.5)) ///
ylabel(-.1(.1).5) ///
ysc(r(-.1(.1).5)) ///
yline(0, lpattern(dash) lcolor(gs12)) ///
ytitle("Predicted Probability for Civil Wars (Incidences)", size(medsmall)) ///
recast(scatter) ///
plotopts(msize(tiny) mcolor(gs4)) ///
ciopts(lwidth(medthick)) ///
scheme(s1mono)

graph export "probit_gen_un.pdf", replace

/*
esttab m_hjust m_un m_gender m_hjust_un_gender m_hjust_un_gender_int ///
```

```
  using probit-results-table-interaction.rtf, ///
replace style(tex) cells(b(star fmt(2)) se(par)) ///
stats(N N_clust ///
N1Pa1Po1_LC  N1Pa1Po1 N1Pa1Po1_HC ///
r2_p  r2_ct aic bic, ///
fmt(0 0 3 3 3 2 2 0 0) ///
labels(`"Observations"' `"Countries"' ///
`"\rowcolor{black!10} C.L."' ///
`"\rowcolor{black!20} "' ///
`"\rowcolor{black!10} C.H."' ///
`"Pseudo \(R^{2}\)"' `"Count \(R^{2}\)"' `"AIC"' `"BIC"')) ///
starlevels(+ 0.10 * 0.05 ** 0.01) ///
label ///
numbers ///
compress ///
nobaselevels ///
alignment(d) width(\hsize) nogaps lines ///
note("Note:+significant at 10\%; *significant at 5\%; **significant at ///
1\%. Clustered standard errors (country) are in parentheses. Estimations ///
performed using Stata 18. Colonial variable refers to British colonial ///
experience.") title(Probit Analysis of the Effects of Plural Justice, ///
Women Inclusion and UN Mediation (and Interaction) on the Risk of Violent ///
Intrastate Conflicts.)
*/
```

```
Iteration 0:  Log pseudolikelihood = -984.47659
Iteration 1:  Log pseudolikelihood = -480.30988
Iteration 2:  Log pseudolikelihood = -451.52123
Iteration 3:  Log pseudolikelihood = -448.73302
Iteration 4:  Log pseudolikelihood = -448.72225
Iteration 5:  Log pseudolikelihood = -448.72225

Probit regression                                     Number of obs =  1,475
                                                      Wald chi2(17) =      .
                                                      Prob > chi2   =      .
Log pseudolikelihood = -448.72225                     Pseudo R2     = 0.5442

                                          (Std. err. adjusted for 40 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------------------+----------------------------------------------------------------
             1.hyb_just |   .2696353   .2427924     1.11   0.267    -.2062291    .7454996
1.incl_p_con_soc_gender |  -.2723948   .1915848    -1.42   0.155    -.6478942    .1031045
       1.int_med_UN_New |  -.9143017   .4647419    -1.97   0.049    -1.825179   -.0034243
                         |
  incl_p_con_soc_gender#|
        int_med_UN_New   |
                 1 1     |  -1.557319   .8002163    -1.95   0.052    -3.125714    .0110763
                         |
              al_ethnic  |  -.3964028   .8232649    -0.48   0.630    -2.009972    1.217167
            cspv_ethwar  |   .3358528    .148449     2.26   0.024     .0448981    .6268074
                dpi_pr   |   .1143222   .3045303     0.38   0.707    -.4825461    .7111906
          dpi_president  |   1.665781   .7013512     2.38   0.018     .2911574    3.040404
              p_polity2  |  -.0808394   .0494924    -1.63   0.102    -.1778427    .0161639
                         |
```

```
c.p_polity2#c.p_polity2 |   .0062751    .009647     0.65   0.515    -.0126326    .0251828
                        |
   wdi_gdpcappppcon2011 |  -.0000182   .0000559    -0.33   0.745    -.0001278    .0000914
               wdi_pop |   3.76e-10   8.85e-10     0.43   0.671    -1.36e-09    2.11e-09
           wdi_forest |   .0121631   .0076429     1.59   0.112    -.0028168     .027143
             brit_col |   .1202347   .4341765     0.28   0.782    -.7307356    .9712049
              icrg_qog |  -.7669461   1.209124    -0.63   0.526    -3.136785    1.602893
    ross_oil_value_2014 |   9.79e-13   5.05e-12     0.19   0.846    -8.92e-12    1.09e-11
     con_incid_peaceyrs |  -1.478117   .2739106    -5.40   0.000    -2.014971   -.9412617
 con_incid_peaceyrs_sqd |   .3149742   .0905836     3.48   0.001     .1374336    .4925149
 con_incid_peaceyrs_cub |  -.0203789   .0076305    -2.67   0.008    -.0353344   -.0054234
                  _cons |  -.9133613   .8060264    -1.13   0.257    -2.493144    .6664215
------------------------------------------------------------------------------------------
Note: 1 failure and 0 successes completely determined.


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -448.722
D(1449):                     897.444     LR(17):                    1071.509
                                         Prob > LR:                    0.000
McFadden's R2:                 0.544     McFadden's Adj R2:            0.518
Maximum Likelihood R2:         0.516     Cragg & Uhler's R2:           0.701
McKelvey and Zavoina's R2:     0.770     Efron's R2:                   0.610
Variance of y*:                4.343     Variance of error:            1.000
Count R2:                      0.877     Adj Count R2:                 0.683
AIC:                           0.644     AIC*n:                      949.444
BIC:                       -9675.058     BIC':                      -947.470


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -448.722
D(1449):                     897.444     LR(17):                    1071.509
                                         Prob > LR:                    0.000
McFadden's R2:                 0.544     McFadden's Adj R2:            0.518
Maximum Likelihood R2:         0.516     Cragg & Uhler's R2:           0.701
McKelvey and Zavoina's R2:     0.770     Efron's R2:                   0.610
Variance of y*:                4.343     Variance of error:            1.000
Count R2:                      0.877     Adj Count R2:                 0.683
AIC:                           0.644     AIC*n:                      949.444
BIC:                       -9675.058     BIC':                      -947.470

added scalars:
                e(dev) =  897.44449
             e(dev_df) =  1449
               e(lrx2) =  1071.5087
            e(lrx2_df) =  17
             e(lrx2_p) =  4.48e-217
              e(r2_mf) =  .54420222
           e(r2_mfadj) =  .51779224
              e(r2_ml) =  .51637553
              e(r2_cu) =  .70082479
              e(r2_mz) =  .76974814
              e(r2_ef) =  .6098098
            e(v_ystar) =  4.3430702
```

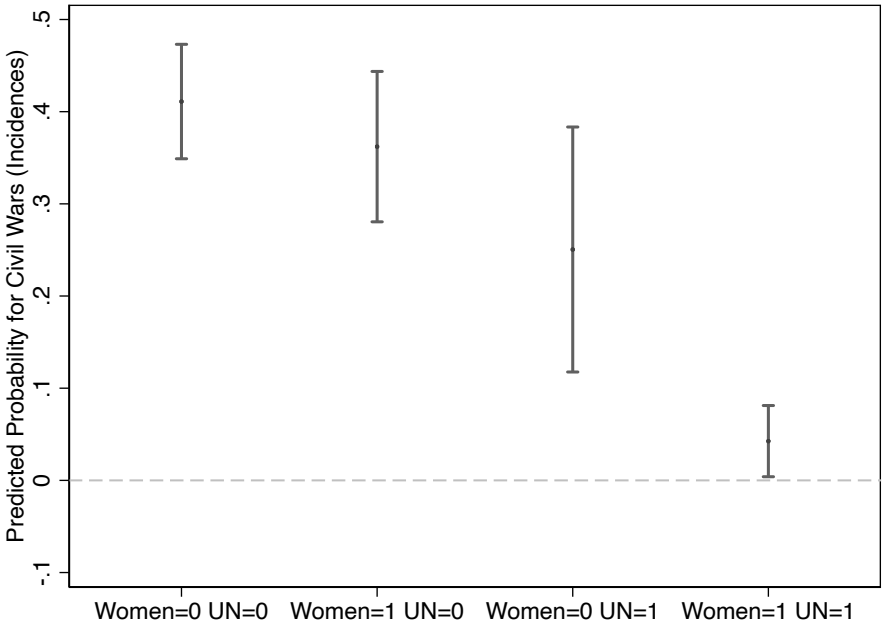
```
            e(v_error) =  1
              e(r2_ct) =  .87728814
           e(r2_ctadj) =  .68301226
               e(aic0) =  .64369118
              e(aic_n) =  949.44449
               e(bic0) =  -9675.0583
              e(bic_p) =  -947.46966
              e(n_rhs) =  25
             e(n_parm) =  26
```

```
Predictive margins                                      Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 0
    int_med_UN_New        = 0

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |   .4110018   .0316715    12.98   0.000     .3489267    .4730769
------------------------------------------------------------------------------
```

```
Predictive margins                                      Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 1
    int_med_UN_New        = 0

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |   .3620774   .0416178     8.70   0.000     .2805081    .4436467
------------------------------------------------------------------------------
```

```
Predictive margins                                      Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 0
    int_med_UN_New        = 1

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |   .2504622   .0678062     3.69   0.000     .1175645    .3833599
------------------------------------------------------------------------------
```

```
Predictive margins                                      Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 1
    int_med_UN_New        = 1

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |   .0425638   .0197065     2.16   0.031     .0039398    .0811878
------------------------------------------------------------------------------


  Variables that uniquely identify margins: _filenumber

file
    /Users/neudorfer/Library/CloudStorage/OneDrive-SharedLibraries-UniversityofBirmingham/Giudi
    > tta Fontana (Political Science and International Studies) - USIP - CW
    recurrence/Publications/Book USIP/Full Manuscript and Material for submission/Online
    material/probit_gen_un.pdf saved as PDF format
```

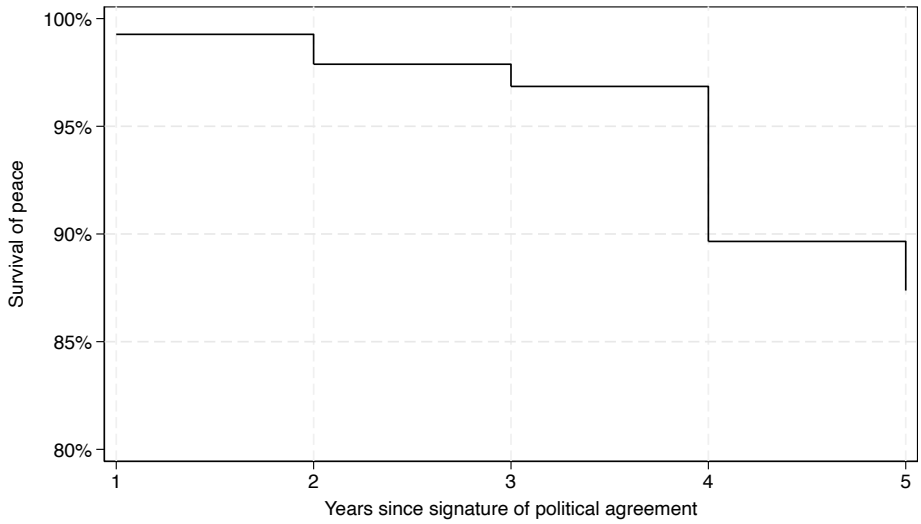


```
use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"

*******************************************************************************
*******************************************************************************
*
* Hartzell and Hoddie 2007 - Excluding Power Sharing - For Model Setup
*
*******************************************************************************
*******************************************************************************

*******************************************************************************
*  Set 5 YEARS  *  Set 5 YEARS  *  Set 5 YEARS  *  Set 5 YEARS  * Set 5 YEARS *
*******************************************************************************

eststo clear

* Set data the right way (survival after 2 years)
stset survival_years_after_5, failure(conflict_re_onset==1) scale(1)


*******************************************************************************
*******************************************************************************
*
* Model 1 of Table 3: Controls only and Figure A1
*
*******************************************************************************
*******************************************************************************

stcox  i.cspv_ethwar_binary ///
con_length_yearsmonth_TSCS  i.cum_conflict_intensity ///
wdi_lifexp p_polity2 i.PKO_Dummy
estat phtest, detail
stcurv,  survival ///
lpattern(solid) lcolor(black) ///
title("   ", size(medsmall)) ///
yscale(range(0.8 1.0)) ///
xtitle("Years since signature of political agreement", size(medsmall)) ///
ytitle("Survival of peace", size(medsmall)) ///
yline(0.85, lpattern(dash) lcolor(dimgray)) ///
yline(0.9, lpattern(dash) lcolor(dimgray)) ///
yline(0.95, lpattern(dash) lcolor(dimgray)) ///
ylabel( 0.8 "80%" 0.85 "85%" 0.9 "90%" 0.95 "95%" 1.0 "100%", nogrid) ///
xscale(range(1 5)) ///
legend(row(3) col(1) ///
ring(0) position(5)) ///
graphregion(color(white) margin(small )) ///
plotregion( lstyle(foreground)) ///
bgcolor(white)
graph export "controls.pdf", replace

* export the results into one table in excel
outreg2 using survival_usip_5years.xls, replace eform ///
ctitle(5 years) label
```

Survival Analysis for Wider Testing

```
Survival-time data settings

         Failure event: conflict_re_onset==1
Observed time interval: (0, survival_years_after_5]
     Exit on or before: failure

--------------------------------------------------------------------------
      3,190  total observations
      1,567  event time missing (survival_years_after_5>=.) PROBABLE ERROR
        926  observations end on or before enter()
--------------------------------------------------------------------------
        697  observations remaining, representing
         31  failures in single-record/single-failure data
      1,795  total analysis time at risk and under observation
                                              At risk from t =         0
                                   Earliest observed entry t =         0
                                        Last observed exit t =         5

        Failure _d: conflict_re_onset==1
  Analysis time _t: survival_years_after_5

Iteration 0:  Log likelihood = -166.10302
Iteration 1:  Log likelihood = -148.64714
Iteration 2:  Log likelihood = -139.65456
Iteration 3:  Log likelihood = -139.23733
Iteration 4:  Log likelihood = -139.23628
Iteration 5:  Log likelihood = -139.23628
Refining estimates:
Iteration 0:  Log likelihood = -139.23628

Cox regression with Breslow method for ties

No. of subjects =   518                                 Number of obs =    518
No. of failures =    30
Time at risk    = 1,275
                                                        LR chi2(6)    =  53.73
Log likelihood = -139.23628                             Prob > chi2   = 0.0000

------------------------------------------------------------------------------
          _t | Haz. ratio   Std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
1.cspv_ethwar_binary |   1.780603   1.007091     1.02   0.308      .587674     5.39508
con_length_yearsmonth_TSCS |   1.001785   .0013431     1.33   0.183     .9991563    1.004421
1.cum_conflict_intensity |   8.025922   4.057829     4.12   0.000     2.979447    21.61993
wdi_lifexp |   .9031706   .0279377    -3.29   0.001     .8500406    .9596214
p_polity2 |   1.034648   .0711215     0.50   0.620     .9042346     1.18387
1.PKO_Dummy |   .6160176   .2908238    -1.03   0.305     .2441958    1.553989
------------------------------------------------------------------------------


Test of proportional-hazards assumption

Time function: Analysis time
-------------------------------------------------------
             |        rho     chi2       df    Prob>chi2
```

```
-------------+----------------------------------------
0b.cspv_et~y |          .          .        1          .
1.cspv_eth~y |   -0.15917       1.07        1       0.3003
con_length~S |   -0.18249       1.02        1       0.3130
0b.cum_con~y |          .          .        1          .
1.cum_conf~y |    0.13734       0.58        1       0.4479
  wdi_lifexp |   -0.29391       2.85        1       0.0916
   p_polity2 |    0.00070       0.00        1       0.9964
0b.PKO_Dummy |          .          .        1          .
 1.PKO_Dummy |    0.10016       0.26        1       0.6115
-------------+----------------------------------------
 Global test |                11.11        6       0.0850
-------------------------------------------------------

note: function evaluated at overall means of covariates.

file
    /Users/neudorfer/Library/CloudStorage/OneDrive-SharedLibraries-UniversityofBirmingham/Giudi
    > tta Fontana (Political Science and International Studies) - USIP - CW
    recurrence/Publications/Book USIP/Full Manuscript and Material for submission/Online
    material/controls.pdf saved as PDF format

survival_usip_5years.xls
{browse `"/Users/neudorfer/Library/CloudStorage/OneDrive-SharedLibraries-UniversityofBirmingham/G
> iuditta Fontana (Political Science and International Studies) - USIP - CW recurrence/Publicatio
> ns/Book USIP/Full Manuscript and Material for submission/Online material"' :dir} : seeout
```



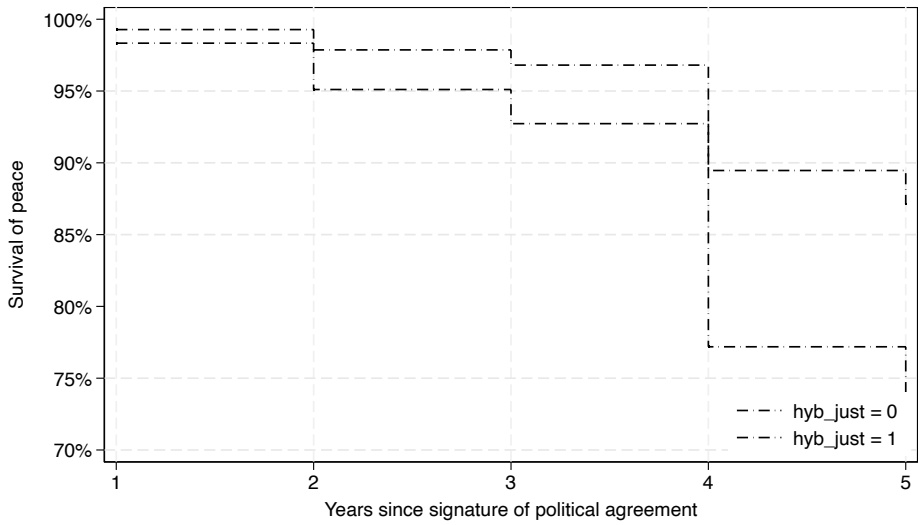

```
use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"

* Set data the right way (survival after 2 years)
stset survival_years_after_5, failure(conflict_re_onset==1) scale(1)

*******************************************************************************
*******************************************************************************
*
* Model 2 of Table 3: Plural Justice
*
*******************************************************************************
```

```
*************************************************************************

stcox  i.cspv_ethwar_binary  ///
 con_length_yearsmonth_TSCS  i.cum_conflict_intensity ///
 wdi_lifexp p_polity2 i.PKO_Dummy ///
 hyb_just
outreg2 using survival_usip_5years.xls, append eform ///
ctitle(5 years) label
estat phtest, detail

* Save survival curve data (not a graph)
stcurv, survival at(hyb_just=0) at(hyb_just=1) ///
    outfile(survival_table_justice, replace)

* Load the dataset that was just created
use survival_table_justice, clear

* (Optional) export to Excel
export excel using "survival_table_justice.xlsx", firstrow(variables) replace

stcurv,  survival ///
at1(hyb_just=0) at2(hyb_just=1) ///
plot1opts(lpattern(dash_dot)    lcolor(black)) ///
plot2opts(lpattern(solid) lcolor(black)) ///
title("   ", size(medsmall)) ///
yscale(range(0.8 1.0)) ///
xtitle("Years since signature of political agreement", size(medsmall)) ///
ytitle("Survival of peace", size(medsmall)) ///
yline(0.75, lpattern(dash) lcolor(dimgray)) ///
yline(0.85, lpattern(dash) lcolor(dimgray)) ///
yline(0.8, lpattern(dash) lcolor(dimgray)) ///
yline(0.9, lpattern(dash) lcolor(dimgray)) ///
yline(0.95, lpattern(dash) lcolor(dimgray)) ///
ylabel(0.75 "75%" 0.8 "80%" 0.85 "85%" 0.9 "90%" 0.95 "95%" 1.0 "100%", nogrid) ///
xscale(range(1 5)) ///
legend(row(3) col(1) ///
order(1 "Plural Justice = 0" ///
2 "Plural Justice = 1") ///
ring(0) position(5)) ///
graphregion(color(white) margin(small )) ///
plotregion( lstyle(foreground)) ///
bgcolor(white)
 graph export "hyb_just.pdf", replace
```

```
Survival-time data settings

         Failure event: conflict_re_onset==1
Observed time interval: (0, survival_years_after_5]
     Exit on or before: failure

------------------------------------------------------------------------------
      3,190  total observations
      1,567  event time missing (survival_years_after_5>=.) PROBABLE ERROR
        926  observations end on or before enter()
------------------------------------------------------------------------------
        697  observations remaining, representing
```

```
         31  failures in single-record/single-failure data
      1,795  total analysis time at risk and under observation
                                              At risk from t =         0
                                   Earliest observed entry t =         0
                                        Last observed exit t =         5

       Failure _d: conflict_re_onset==1
  Analysis time _t: survival_years_after_5

Iteration 0:  Log likelihood = -166.10302
Iteration 1:  Log likelihood = -148.37171
Iteration 2:  Log likelihood = -139.14679
Iteration 3:  Log likelihood = -138.73554
Iteration 4:  Log likelihood = -138.73451
Iteration 5:  Log likelihood = -138.73451
Refining estimates:
Iteration 0:  Log likelihood = -138.73451

Cox regression with Breslow method for ties

No. of subjects =   518                                 Number of obs =    518
No. of failures =    30
Time at risk    = 1,275
                                                        LR chi2(7)    =  54.74
Log likelihood = -138.73451                             Prob > chi2   = 0.0000

------------------------------------------------------------------------------
                       _t | Haz. ratio   Std. err.      z    P>|z|     [95% conf. interval]
--------------------------+---------------------------------------------------
      1.cspv_ethwar_binary |   1.832421   1.047393     1.06   0.289     .5977055    5.617761
con_length_yearsmonth_TSCS |   1.001781   .0013555     1.32   0.188     .9991278    1.004442
  1.cum_conflict_intensity |   7.957395   4.084294     4.04   0.000     2.909876    21.76042
                wdi_lifexp |   .8998023   .0284997    -3.33   0.001     .8456424    .9574309
                 p_polity2 |   1.034246   .0716917     0.49   0.627     .9028601    1.184752
               1.PKO_Dummy |   .5953036   .2846517    -1.08   0.278     .2331986    1.519676
                  hyb_just |   2.325934   1.767532     1.11   0.267     .5245047    10.31444
------------------------------------------------------------------------------

survival_usip_5years.xls
{browse `"/Users/neudorfer/Library/CloudStorage/OneDrive-SharedLibraries-UniversityofBirmingham/G
> iuditta Fontana (Political Science and International Studies) - USIP - CW recurrence/Publicatio
> ns/Book USIP/Full Manuscript and Material for submission/Online material"' :dir} : seeout


Test of proportional-hazards assumption

Time function: Analysis time
-----------------------------------------------------
             |        rho     chi2       df    Prob>chi2
-------------+---------------------------------------
0b.cspv_et~y |          .        .        1           .
1.cspv_eth~y |   -0.15771     1.10        1       0.2951
con_length~S |   -0.17327     0.93        1       0.3362
0b.cum_con~y |          .        .        1           .
1.cum_conf~y |    0.13902     0.60        1       0.4375
  wdi_lifexp |   -0.28218     2.88        1       0.0896
```

```
   p_polity2 |    0.01400     0.01        1       0.9281
0b.PKO_Dummy |          .        .        1            .
 1.PKO_Dummy |    0.13294     0.44        1       0.5092
    hyb_just |   -0.07779     0.19        1       0.6670
-------------+----------------------------------------
 Global test |               11.76        7       0.1087
------------------------------------------------------------

note: function evaluated at specified values of selected covariates and overall means of other
      covariates (if any).


file survival_table_justice.xlsx saved

variable cspv_ethwar_binary not found
in option at1()
r(111);

r(111);
```

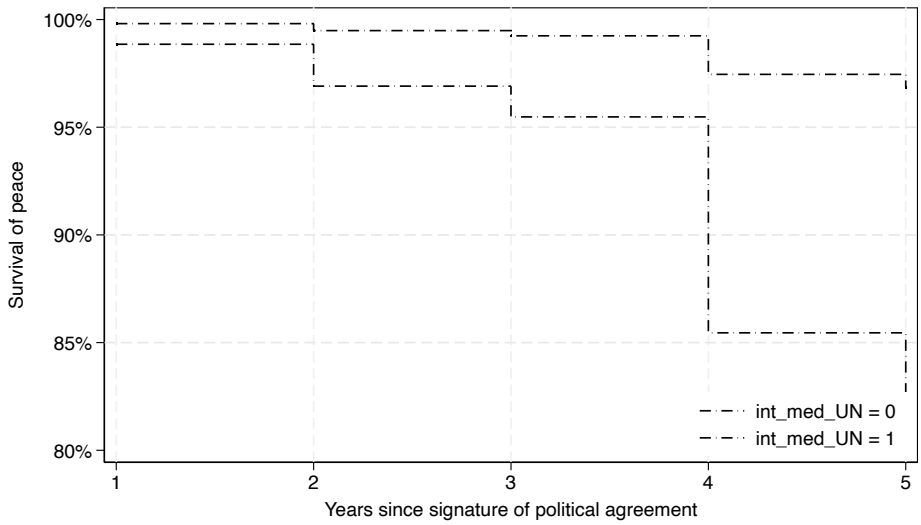



```
use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"

* Set data the right way (survival after 2 years)
stset survival_years_after_5, failure(conflict_re_onset==1) scale(1)


*******************************************************************************
*******************************************************************************
*
* Model 3 of Table 3: UN Mediation
*
*******************************************************************************
*******************************************************************************

stcox  i.cspv_ethwar_binary  ///
 con_length_yearsmonth_TSCS  i.cum_conflict_intensity ///
 wdi_lifexp p_polity2 i.PKO_Dummy ///
 int_med_UN_New
```

```
estat phtest, detail
outreg2 using survival_usip_5years.xls, append eform ///
 ctitle(5 years) label

stcurv,  survival at1(int_med_UN_New=0) ///
 lpattern(dash_dot solid dash) lcolor(black black black) ///
 at2(int_med_UN_New=1) ///
 title("   ", size(medsmall)) ///
 yscale(range(0.8 1.0)) ///
 xtitle("Years since signature of political agreement", size(medsmall)) ///
 ytitle("Survival of peace", size(medsmall)) ///
 yline(0.85, lpattern(dash) lcolor(dimgray)) ///
 yline(0.9, lpattern(dash) lcolor(dimgray)) ///
 yline(0.95, lpattern(dash) lcolor(dimgray)) ///
 ylabel(0.8 "80%" 0.85 "85%" 0.9 "90%" 0.95 "95%" 1.0 "100%", nogrid) ///
 xscale(range(1 5)) ///
 legend(row(3) col(1) ///
 order(1 "int_med_UN = 0" ///
 2 "int_med_UN = 1") ///
 ring(0) position(5)) ///
 graphregion(color(white) margin(small )) ///
 plotregion( lstyle(foreground)) ///
 bgcolor(white)
graph export "int_med_UN_New.pdf", replace
```

```
Survival-time data settings

         Failure event: conflict_re_onset==1
Observed time interval: (0, survival_years_after_5]
     Exit on or before: failure

--------------------------------------------------------------------------
      3,190  total observations
      1,567  event time missing (survival_years_after_5>=.) PROBABLE ERROR
        926  observations end on or before enter()
--------------------------------------------------------------------------
        697  observations remaining, representing
         31  failures in single-record/single-failure data
      1,795  total analysis time at risk and under observation
                                             At risk from t =         0
                                  Earliest observed entry t =         0
                                       Last observed exit t =         5

        Failure _d: conflict_re_onset==1
  Analysis time _t: survival_years_after_5

Iteration 0:  Log likelihood = -166.10302
Iteration 1:  Log likelihood = -148.33087
Iteration 2:  Log likelihood = -137.85867
Iteration 3:  Log likelihood = -137.05334
Iteration 4:  Log likelihood = -137.04807
Iteration 5:  Log likelihood = -137.04807
Refining estimates:
Iteration 0:  Log likelihood = -137.04807

Cox regression with Breslow method for ties
```

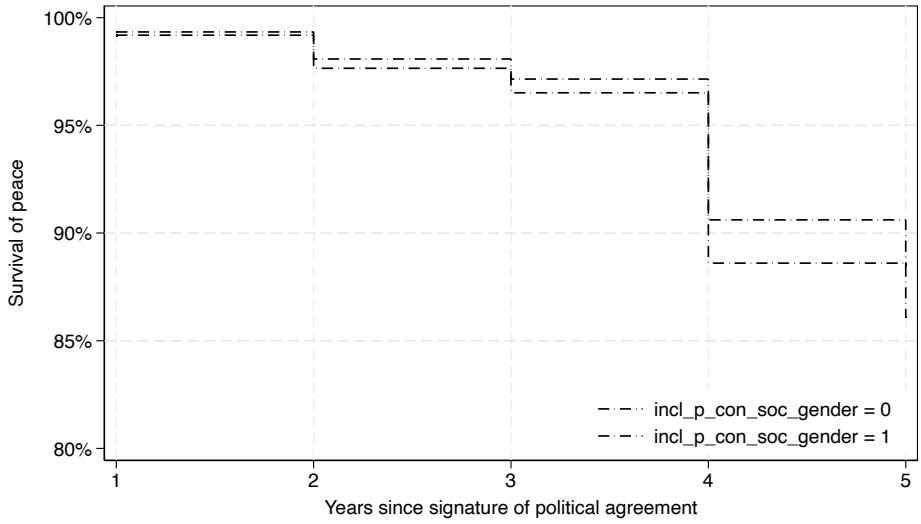
```
No. of subjects =   518                                 Number of obs =    518
No. of failures =    30
Time at risk    = 1,275
                                                        LR chi2(7)    =  58.11
Log likelihood = -137.04807                             Prob > chi2   = 0.0000

------------------------------------------------------------------------------
                  _t | Haz. ratio   Std. err.      z    P>|z|     [95% conf. interval]
---------------------+--------------------------------------------------------------
      1.cspv_ethwar_binary |   1.841606   1.003689     1.12   0.263     .6328273      5.3593
con_length_yearsmonth_TSCS |   1.002483   .0014112     1.76   0.078     .9997205    1.005252
  1.cum_conflict_intensity |   6.451844   3.307454     3.64   0.000     2.362254    17.62143
               wdi_lifexp |   .9167202   .0288267    -2.77   0.006     .8619268    .9749969
                p_polity2 |   1.026844   .0665294     0.41   0.683     .9043885     1.16588
              1.PKO_Dummy |   .6038612   .2867842    -1.06   0.288     .2380601    1.531749
           int_med_UN_New |   .1639886   .1757916    -1.69   0.092     .0200608     1.34054
------------------------------------------------------------------------------


Test of proportional-hazards assumption

Time function: Analysis time
-------------------------------------------------------
             |        rho     chi2       df    Prob>chi2
-------------+-----------------------------------------
0b.cspv_et~y |          .        .        1           .
1.cspv_eth~y |   -0.13756     0.74        1       0.3884
con_length~S |   -0.16326     0.82        1       0.3652
0b.cum_con~y |          .        .        1           .
1.cum_conf~y |    0.11909     0.45        1       0.5025
  wdi_lifexp |   -0.27303     2.37        1       0.1236
   p_polity2 |   -0.01739     0.01        1       0.9171
0b.PKO_Dummy |          .        .        1           .
 1.PKO_Dummy |    0.10232     0.27        1       0.6020
int_med_UN~w |    0.04382     0.07        1       0.7973
-------------+-----------------------------------------
 Global test |                8.93        7       0.2574
-------------------------------------------------------

survival_usip_5years.xls
{browse `"/Users/neudorfer/Library/CloudStorage/OneDrive-SharedLibraries-UniversityofBirmingham/G
> iuditta Fontana (Political Science and International Studies) - USIP - CW recurrence/Publicatio
> ns/Book USIP/Full Manuscript and Material for submission/Online material"' :dir} : seeout

note: function evaluated at specified values of selected covariates and overall means of other
      covariates (if any).

file
    /Users/neudorfer/Library/CloudStorage/OneDrive-SharedLibraries-UniversityofBirmingham/Giudi
    > tta Fontana (Political Science and International Studies) - USIP - CW
    recurrence/Publications/Book USIP/Full Manuscript and Material for submission/Online
    material/int_med_UN_New.pdf saved as PDF format
```




```
use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"

* Set data the right way (survival after 2 years)
stset survival_years_after_5, failure(conflict_re_onset==1) scale(1)



*******************************************************************************
*******************************************************************************
*
* Model 4 of Table 3: Women Inclusion
*
*******************************************************************************
*******************************************************************************

stcox  i.cspv_ethwar_binary  ///
 con_length_yearsmonth_TSCS  i.cum_conflict_intensity ///
 wdi_lifexp p_polity2 i.PKO_Dummy ///
 incl_p_con_soc_gender
estat phtest, detail
outreg2 using survival_usip_5years.xls, append eform ///
 ctitle(5 years) label

stcurv,  survival at1(incl_p_con_soc_gender=0) ///
 lpattern(dash_dot solid dash) lcolor(black black black) ///
 at2(incl_p_con_soc_gender=1) ///
 title("   ", size(medsmall)) ///
 yscale(range(0.8 1.0)) ///
 xtitle("Years since signature of political agreement", size(medsmall)) ///
 ytitle("Survival of peace", size(medsmall)) ///
 yline(0.85, lpattern(dash) lcolor(dimgray)) ///
 yline(0.9, lpattern(dash) lcolor(dimgray)) ///
 yline(0.95, lpattern(dash) lcolor(dimgray)) ///
 ylabel(0.8 "80%" 0.85 "85%" 0.9 "90%" 0.95 "95%" 1.0 "100%", nogrid) ///
 xscale(range(1 5)) ///
 legend(row(3) col(1) ///
 order(1 "incl_p_con_soc_gender = 0" ///
 2 "incl_p_con_soc_gender = 1") ///
```

```
 ring(0) position(5)) ///
 graphregion(color(white) margin(small )) ///
 plotregion( lstyle(foreground)) ///
 bgcolor(white)
graph export "incl_p_con_soc_gender.pdf", replace

Survival-time data settings

         Failure event: conflict_re_onset==1
Observed time interval: (0, survival_years_after_5]
     Exit on or before: failure

--------------------------------------------------------------------------
      3,190  total observations
      1,567  event time missing (survival_years_after_5>=.) PROBABLE ERROR
        926  observations end on or before enter()
--------------------------------------------------------------------------
        697  observations remaining, representing
         31  failures in single-record/single-failure data
      1,795  total analysis time at risk and under observation
                                              At risk from t =         0
                                   Earliest observed entry t =         0
                                        Last observed exit t =         5

        Failure _d: conflict_re_onset==1
  Analysis time _t: survival_years_after_5

Iteration 0:  Log likelihood = -166.10302
Iteration 1:  Log likelihood = -148.68275
Iteration 2:  Log likelihood = -139.65647
Iteration 3:  Log likelihood = -139.20295
Iteration 4:  Log likelihood = -139.20181
Iteration 5:  Log likelihood = -139.20181
Refining estimates:
Iteration 0:  Log likelihood = -139.20181

Cox regression with Breslow method for ties

No. of subjects =   518                                 Number of obs =    518
No. of failures =    30
Time at risk    = 1,275
                                                        LR chi2(7)    =  53.80
Log likelihood = -139.20181                             Prob > chi2   = 0.0000

------------------------------------------------------------------------------
                  _t | Haz. ratio   Std. err.      z    P>|z|     [95% conf. interval]
---------------------+--------------------------------------------------------------
      1.cspv_ethwar_binary |   1.798971   1.015065     1.04   0.298     .5952998    5.436413
con_length_yearsmonth_TSCS |   1.001887    .001395     1.35   0.176     .9991563    1.004625
  1.cum_conflict_intensity |   7.811525   4.022806     3.99   0.000     2.846959    21.43337
               wdi_lifexp |   .9036966   .0279834    -3.27   0.001     .8504814    .9602415
                p_polity2 |   1.034274   .0707839     0.49   0.622     .9044425    1.182743
              1.PKO_Dummy |   .6239319    .295794    -1.00   0.320     .2463764    1.580066
     incl_p_con_soc_gender |   .8147437   .6488485    -0.26   0.797     .1710559    3.880645
------------------------------------------------------------------------------
```

```
Test of proportional-hazards assumption

Time function: Analysis time
------------------------------------------------------------
             |        rho     chi2       df    Prob>chi2
-------------+----------------------------------------------
0b.cspv_et~y |          .        .        1           .
1.cspv_eth~y |   -0.15664     1.06        1       0.3025
con_length~S |   -0.17007     0.98        1       0.3222
0b.cum_con~y |          .        .        1           .
1.cum_conf~y |    0.13464     0.57        1       0.4509
  wdi_lifexp |   -0.29327     2.82        1       0.0933
   p_polity2 |    0.00103     0.00        1       0.9948
0b.PKO_Dummy |          .        .        1           .
 1.PKO_Dummy |    0.09747     0.24        1       0.6212
incl_p_con~r |    0.01493     0.01        1       0.9295
-------------+----------------------------------------------
 Global test |               10.90        7       0.1431
------------------------------------------------------------

survival_usip_5years.xls
{browse `"/Users/neudorfer/Library/CloudStorage/OneDrive-SharedLibraries-UniversityofBirmingham/G
> iuditta Fontana (Political Science and International Studies) - USIP - CW recurrence/Publicatio
> ns/Book USIP/Full Manuscript and Material for submission/Online material"' :dir} : seeout

note: function evaluated at specified values of selected covariates and overall means of other
      covariates (if any).

file
    /Users/neudorfer/Library/CloudStorage/OneDrive-SharedLibraries-UniversityofBirmingham/Giudi
    > tta Fontana (Political Science and International Studies) - USIP - CW
    recurrence/Publications/Book USIP/Full Manuscript and Material for submission/Online
    material/incl_p_con_soc_gender.pdf saved as PDF format
```

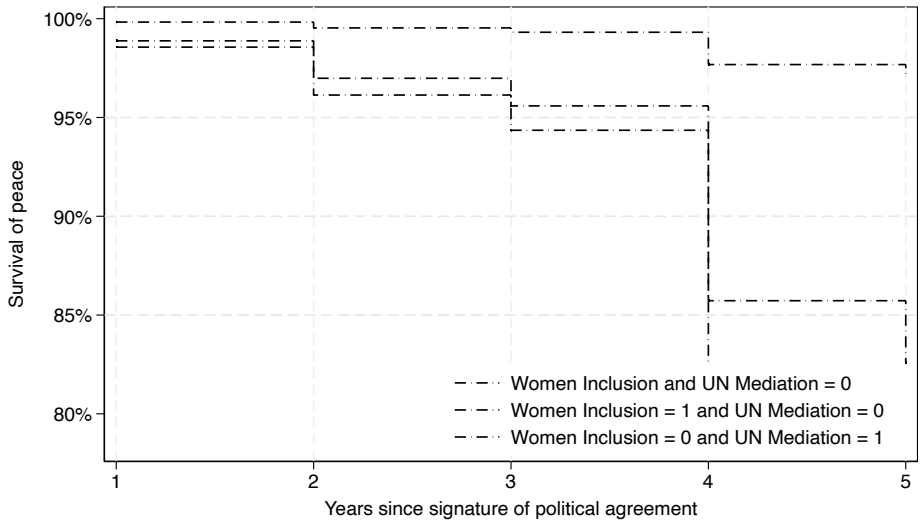



```
use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"

* Set data the right way (survival after 2 years)
```

```
stset survival_years_after_5, failure(conflict_re_onset==1) scale(1)


*******************************************************************************
*******************************************************************************
*
* Model 5 of Table 3: Gender and UN Mediation
*
*******************************************************************************
*******************************************************************************

///
stcox  i.cspv_ethwar_binary  ///
 con_length_yearsmonth_TSCS  i.cum_conflict_intensity ///
 wdi_lifexp p_polity2 i.PKO_Dummy ///
 incl_p_con_soc_gender int_med_UN_New
estat phtest, detail
outreg2 using survival_usip_5years.xls, append eform ///
 ctitle(5 years) label

stcurv,  survival at1(incl_p_con_soc_gender=0 int_med_UN_New=0) ///
 lpattern(dash_dot solid dash) lcolor(black black black) ///
 at2(incl_p_con_soc_gender=1 int_med_UN_New=0) ///
 at3(incl_p_con_soc_gender=0 int_med_UN_New=1) ///
 title("   ", size(medsmall)) ///
 yscale(range(0.8 1.0)) ///
 xtitle("Years since signature of political agreement", size(medsmall)) ///
 ytitle("Survival of peace", size(medsmall)) ///
 yline(0.85, lpattern(dash) lcolor(dimgray)) ///
 yline(0.9, lpattern(dash) lcolor(dimgray)) ///
 yline(0.95, lpattern(dash) lcolor(dimgray)) ///
 ylabel(0.8 "80%" 0.85 "85%" 0.9 "90%" 0.95 "95%" 1.0 "100%", nogrid) ///
 xscale(range(1 5)) ///
 legend(row(3) col(1) ///
 order(1 "Women Inclusion and UN Mediation = 0" ///
 2 "Women Inclusion = 1 and UN Mediation = 0" ///
 3 "Women Inclusion = 0 and UN Mediation = 1") ///
 ring(0) position(5)) ///
 graphregion(color(white) margin(small )) ///
 plotregion( lstyle(foreground)) ///
 bgcolor(white)
graph export "all_two_UN_new.pdf", replace

Survival-time data settings

         Failure event: conflict_re_onset==1
Observed time interval: (0, survival_years_after_5]
     Exit on or before: failure

--------------------------------------------------------------------------
      3,190  total observations
      1,567  event time missing (survival_years_after_5>=.) PROBABLE ERROR
        926  observations end on or before enter()
--------------------------------------------------------------------------
        697  observations remaining, representing
         31  failures in single-record/single-failure data
```

```
      1,795  total analysis time at risk and under observation
                                                At risk from t =         0
                                     Earliest observed entry t =         0
                                          Last observed exit t =         5

       Failure _d: conflict_re_onset==1
  Analysis time _t: survival_years_after_5

Iteration 0:  Log likelihood = -166.10302
Iteration 1:  Log likelihood = -148.35018
Iteration 2:  Log likelihood = -137.87688
Iteration 3:  Log likelihood = -137.00686
Iteration 4:  Log likelihood =   -137.001
Iteration 5:  Log likelihood =   -137.001
Refining estimates:
Iteration 0:  Log likelihood =   -137.001

Cox regression with Breslow method for ties

No. of subjects =   518                                 Number of obs =    518
No. of failures =    30
Time at risk    = 1,275
                                                        LR chi2(8)    =  58.20
Log likelihood = -137.001                               Prob > chi2   = 0.0000

------------------------------------------------------------------------------
                       _t | Haz. ratio   Std. err.      z    P>|z|     [95% conf. interval]
--------------------------+---------------------------------------------------
     1.cspv_ethwar_binary |   1.840906   1.006214     1.12   0.264      .630633    5.373863
con_length_yearsmonth_TSCS |   1.002422   .0014278     1.70   0.089     .9996275    1.005224
  1.cum_conflict_intensity |   6.542169   3.370006     3.65   0.000     2.383693    17.95532
               wdi_lifexp |   .9164315   .0288684    -2.77   0.006     .8615617    .9747958
                p_polity2 |   1.026552   .0667142     0.40   0.687     .9037796    1.166002
              1.PKO_Dummy |   .5894501   .2849287    -1.09   0.274     .2285561    1.520202
    incl_p_con_soc_gender |    1.28729   1.032075     0.31   0.753     .2674436    6.196131
           int_med_UN_New |   .1524936   .1679633    -1.71   0.088     .0176076    1.320697
------------------------------------------------------------------------------


Test of proportional-hazards assumption

Time function: Analysis time
-------------------------------------------------------
             |        rho     chi2       df    Prob>chi2
-------------+-----------------------------------------
0b.cspv_et~y |          .        .        1           .
1.cspv_eth~y |   -0.13847     0.76        1       0.3834
con_length~S |   -0.15822     0.79        1       0.3747
0b.cum_con~y |          .        .        1           .
1.cum_conf~y |    0.11845     0.44        1       0.5078
  wdi_lifexp |   -0.27424     2.38        1       0.1225
   p_polity2 |   -0.01734     0.01        1       0.9169
0b.PKO_Dummy |          .        .        1           .
 1.PKO_Dummy |    0.10392     0.30        1       0.5863
incl_p_con~r |   -0.01543     0.01        1       0.9245
int_med_UN~w |    0.04265     0.07        1       0.7871
```

```
-------------+------------------------------------------
 Global test |                9.11        8       0.3332
-------------------------------------------------------

survival_usip_5years.xls
{browse `"/Users/neudorfer/Library/CloudStorage/OneDrive-SharedLibraries-UniversityofBirmingham/G
> iuditta Fontana (Political Science and International Studies) - USIP - CW recurrence/Publicatio
> ns/Book USIP/Full Manuscript and Material for submission/Online material"' :dir} : seeout

note: function evaluated at specified values of selected covariates and overall means of other
      covariates (if any).

file
    /Users/neudorfer/Library/CloudStorage/OneDrive-SharedLibraries-UniversityofBirmingham/Giudi
    > tta Fontana (Political Science and International Studies) - USIP - CW
    recurrence/Publications/Book USIP/Full Manuscript and Material for submission/Online
    material/all_two_UN_new.pdf saved as PDF format
```

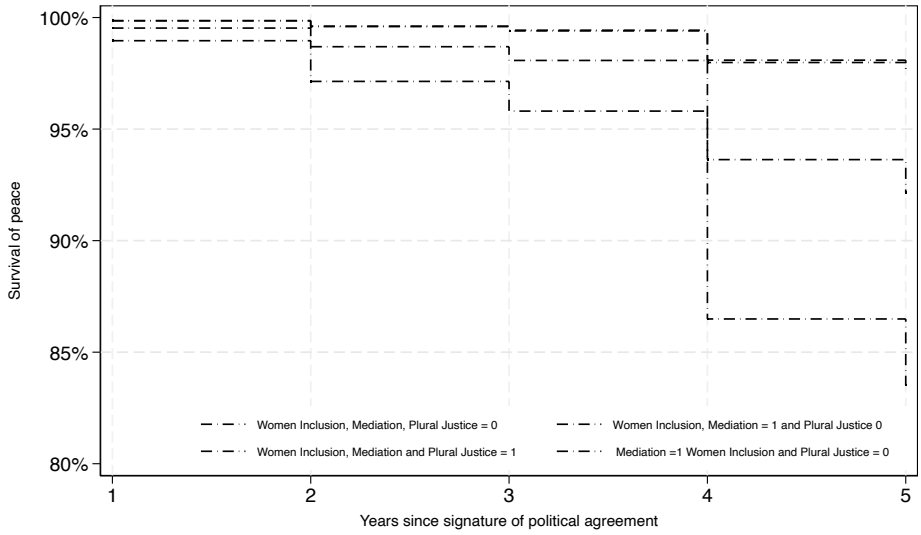



```
use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"

* Set data the right way (survival after 2 years)
stset survival_years_after_5, failure(conflict_re_onset==1) scale(1)


********************************************************************************
********************************************************************************
*
* Model 6 of Table 3: Gender,  UN Mediation, Plural Justice
*
********************************************************************************
********************************************************************************

stcox  i.cspv_ethwar_binary  ///
 con_length_yearsmonth_TSCS  i.cum_conflict_intensity ///
 wdi_lifexp p_polity2 i.PKO_Dummy ///
 incl_p_con_soc_gender hyb_just int_med_UN_New
estat phtest, detail
outreg2 using survival_usip_5years.xls, append eform ///
```

```
 ctitle(5 years) label

stcurv,  survival at1(incl_p_con_soc_gender=0 hyb_just=0 int_med_UN_New=0) ///
 lpattern(dash_dot solid dash shortdash shortdash_dot) lcolor(black black black black) ///
 at2(incl_p_con_soc_gender=1 hyb_just=0 int_med_UN_New=1) ///
 title("   ", size(tiny)) ///
 at3(incl_p_con_soc_gender=1 hyb_just=1 int_med_UN_New=1) ///
 title("   ", size(tiny)) ///
 at4(incl_p_con_soc_gender=0 hyb_just=0 int_med_UN_New=1) ///
 title("   ", size(tiny)) ///
 yscale(range(0.8 1.0)) ///
 xtitle("Years since signature of political agreement", size(small)) ///
 ytitle("Survival of peace", size(small)) ///
 yline(0.85, lpattern(dash) lcolor(dimgray)) ///
 yline(0.9, lpattern(dash) lcolor(dimgray)) ///
 yline(0.95, lpattern(dash) lcolor(dimgray)) ///
 ylabel(0.8 "80%" 0.85 "85%" 0.9 "90%" 0.95 "95%" 1.0 "100%", nogrid) ///
 xscale(range(1 5)) ///
 legend(row(3) col(1) ///
 order(1 "Women Inclusion, Mediation, Plural Justice = 0" ///
 2 "Women Inclusion, Mediation = 1 and Plural Justice 0" ///
 3 "Women Inclusion, Mediation and Plural Justice = 1"  ///
 4 " Mediation =1 Women Inclusion and Plural Justice = 0" ) ///
 ring(0) position(5) size(vsmall)) ///
 graphregion(color(white) margin(small )) ///
 plotregion( lstyle(foreground)) ///
 bgcolor(white)
graph export "all_three_UN_New_3.pdf", replace

Survival-time data settings

         Failure event: conflict_re_onset==1
Observed time interval: (0, survival_years_after_5]
     Exit on or before: failure

--------------------------------------------------------------------------
      3,190  total observations
      1,567  event time missing (survival_years_after_5>=.) PROBABLE ERROR
        926  observations end on or before enter()
--------------------------------------------------------------------------
        697  observations remaining, representing
         31  failures in single-record/single-failure data
      1,795  total analysis time at risk and under observation
                                                At risk from t =         0
                                     Earliest observed entry t =         0
                                          Last observed exit t =         5

        Failure _d: conflict_re_onset==1
  Analysis time _t: survival_years_after_5

Iteration 0:  Log likelihood = -166.10302
Iteration 1:  Log likelihood = -148.10103
Iteration 2:  Log likelihood = -137.59794
Iteration 3:  Log likelihood = -136.16756
Iteration 4:  Log likelihood = -136.14022
Iteration 5:  Log likelihood = -136.14019
```

```
Refining estimates:
Iteration 0:  Log likelihood = -136.14019

Cox regression with Breslow method for ties

No. of subjects =   518                                 Number of obs =    518
No. of failures =    30
Time at risk    = 1,275
                                                        LR chi2(9)    =  59.93
Log likelihood = -136.14019                             Prob > chi2   = 0.0000

------------------------------------------------------------------------------
                          _t | Haz. ratio   Std. err.      z    P>|z|     [95% conf. interval]
-----------------------------+------------------------------------------------
      1.cspv_ethwar_binary |   1.988869    1.10122     1.24   0.214     .6718974    5.887208
con_length_yearsmonth_TSCS |   1.002756    .001476     1.87   0.062     .9998674    1.005653
  1.cum_conflict_intensity |   6.272537   3.293367     3.50   0.000     2.241422    17.55346
                wdi_lifexp |   .9093973   .0297893    -2.90   0.004     .8528461    .9696983
                 p_polity2 |   1.029532    .067497     0.44   0.657     .9053873      1.1707
               1.PKO_Dummy |    .614818   .2961887    -1.01   0.313     .2391553    1.580568
    incl_p_con_soc_gender |   .9474089   .7763043    -0.07   0.947     .1901364    4.720736
                 hyb_just |   3.411461   2.847624     1.47   0.142       .66439    17.51692
            int_med_UN_New |   .1402589   .1531883    -1.80   0.072     .0164916    1.192883
------------------------------------------------------------------------------


Test of proportional-hazards assumption

Time function: Analysis time
-------------------------------------------------------
             |        rho     chi2       df     Prob>chi2
-------------+-----------------------------------------
0b.cspv_et~y |          .        .        1           .
1.cspv_eth~y |   -0.14590     0.92        1       0.3369
con_length~S |   -0.17720     1.05        1       0.3049
0b.cum_con~y |          .        .        1           .
1.cum_conf~y |    0.11305     0.41        1       0.5233
  wdi_lifexp |   -0.23632     2.05        1       0.1518
   p_polity2 |   -0.00611     0.00        1       0.9702
0b.PKO_Dummy |          .        .        1           .
 1.PKO_Dummy |    0.10082     0.27        1       0.6042
incl_p_con~r |    0.01219     0.01        1       0.9348
    hyb_just |   -0.12947     0.73        1       0.3935
int_med_UN~w |    0.08745     0.22        1       0.6353
-------------+-----------------------------------------
 Global test |               10.25        9       0.3307
-------------------------------------------------------

survival_usip_5years.xls
{browse `"/Users/neudorfer/Library/CloudStorage/OneDrive-SharedLibraries-UniversityofBirmingham/G
> iuditta Fontana (Political Science and International Studies) - USIP - CW recurrence/Publicatio
> ns/Book USIP/Full Manuscript and Material for submission/Online material"' :dir} : seeout

note: function evaluated at specified values of selected covariates and overall means of other
      covariates (if any).
```

```
file
    /Users/neudorfer/Library/CloudStorage/OneDrive-SharedLibraries-UniversityofBirmingham/Giudi
    > tta Fontana (Political Science and International Studies) - USIP - CW
    recurrence/Publications/Book USIP/Full Manuscript and Material for submission/Online
    material/all_three_UN_New_3.pdf saved as PDF format
```




```
use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"

* Set data the right way (survival after 2 years)
stset survival_years_after_5, failure(conflict_re_onset==1) scale(1)


*******************************************************************************
*******************************************************************************
*
* Model 7 of Table 3: Gender,  UN Mediation, Plural Justice
*
*******************************************************************************
*******************************************************************************

stcox  i.cspv_ethwar_binary ///
con_length_yearsmonth_TSCS  i.cum_conflict_intensity ///
wdi_lifexp p_polity2 i.PKO_Dummy ///
i.incl_p_con_soc_gender##i.int_med_UN_New i.hyb_just
estat phtest, detail

outreg2 using survival_usip_5years.xls, append eform ctitle(interaction) label

stcurv,  survival at1(incl_p_con_soc_gender=0 hyb_just=0 int_med_UN_New=0) ///
lpattern(dash_dot solid dash shortdash shortdash_dot) lcolor(black black black black) ///
at2(incl_p_con_soc_gender=1 hyb_just=0 int_med_UN_New=1) ///
title("   ", size(tiny)) ///
at3(incl_p_con_soc_gender=1 hyb_just=0 int_med_UN_New=0) ///
title("   ", size(tiny)) ///
at4(incl_p_con_soc_gender=0 hyb_just=0 int_med_UN_New=1) ///
title("   ", size(tiny)) ///
at5(incl_p_con_soc_gender=0 hyb_just=1 int_med_UN_New=0) ///
title("   ", size(tiny)) ///
```

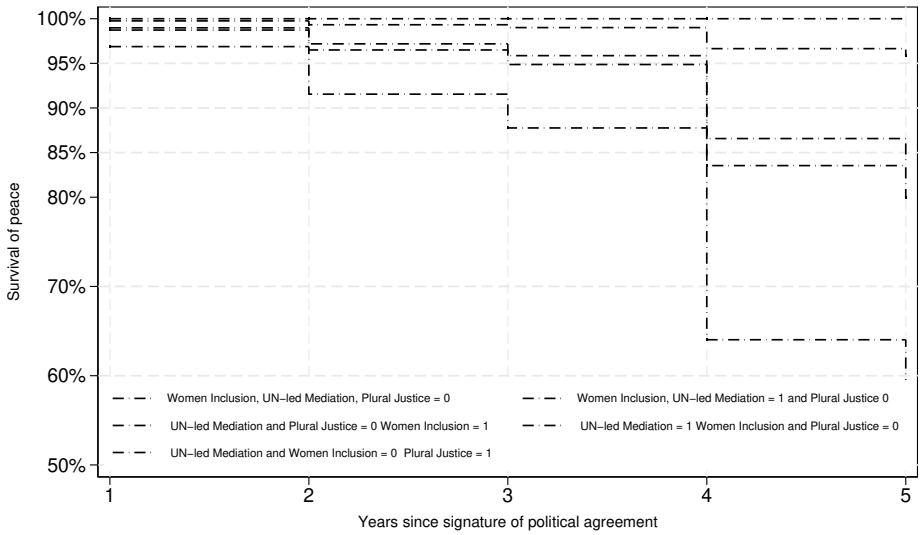
```
at6(incl_p_con_soc_gender=1 hyb_just=1 int_med_UN_New=1) ///
title("   ", size(tiny)) ///
yscale(range(0.8 1.0)) ///
xtitle("Years since signature of political agreement", size(small)) ///
ytitle("Survival of peace", size(small)) ///
yline(0.5, lpattern(dash) lcolor(dimgray)) ///
yline(0.6, lpattern(dash) lcolor(dimgray)) ///
yline(0.7, lpattern(dash) lcolor(dimgray)) ///
yline(0.85, lpattern(dash) lcolor(dimgray)) ///
yline(0.9, lpattern(dash) lcolor(dimgray)) ///
yline(0.95, lpattern(dash) lcolor(dimgray)) ///
ylabel(0.5 "50%" 0.6 "60%" 0.7 "70%" 0.8 "80%" 0.85 "85%" 0.9 "90%" 0.95 "95%" 1.0 "100%", nogrid) ///
xscale(range(1 5)) ///
legend(row(3) col(1) ///
order(1 "Women Inclusion, UN-led Mediation, Plural Justice = 0" ///
2 "Women Inclusion, UN-led Mediation = 1 and Plural Justice 0" ///
3 " UN-led Mediation and Plural Justice = 0 Women Inclusion = 1"  ///
4 " UN-led Mediation = 1 Women Inclusion and Plural Justice = 0" ///
5 " UN-led Mediation and Women Inclusion = 0  Plural Justice = 1" ///
6 " Women Inclusion, UN-led Mediation, Plural Justice = 1" ) ///
ring(0) position(5) size(vsmall)) ///
graphregion(color(white) margin(small )) ///
plotregion( lstyle(foreground)) ///
bgcolor(white)
graph export interaction_gender_un_w_hj.eps, replace


stcurv,  survival at1(incl_p_con_soc_gender=0 hyb_just=0 int_med_UN_New=0) ///
lpattern(dash_dot solid dash shortdash shortdash_dot) lcolor(black black black black) ///
at2(incl_p_con_soc_gender=1 hyb_just=0 int_med_UN_New=1) ///
title("   ", size(tiny)) ///
at3(incl_p_con_soc_gender=1 hyb_just=0 int_med_UN_New=0) ///
title("   ", size(tiny)) ///
at4(incl_p_con_soc_gender=0 hyb_just=0 int_med_UN_New=1) ///
title("   ", size(tiny)) ///
at5(incl_p_con_soc_gender=0 hyb_just=1 int_med_UN_New=0) ///
title("   ", size(tiny)) ///
yscale(range(0.8 1.0)) ///
xtitle("Years since signature of political agreement", size(small)) ///
ytitle("Survival of peace", size(small)) ///
yline(0.5, lpattern(dash) lcolor(dimgray)) ///
yline(0.6, lpattern(dash) lcolor(dimgray)) ///
yline(0.7, lpattern(dash) lcolor(dimgray)) ///
yline(0.85, lpattern(dash) lcolor(dimgray)) ///
yline(0.9, lpattern(dash) lcolor(dimgray)) ///
yline(0.95, lpattern(dash) lcolor(dimgray)) ///
ylabel(0.5 "50%" 0.6 "60%" 0.7 "70%" 0.8 "80%" 0.85 "85%" 0.9 "90%" 0.95 "95%" 1.0 "100%", nogrid) ///
xscale(range(1 5)) ///
legend(row(3) col(1) ///
order(1 "Women Inclusion, UN-led Mediation, Plural Justice = 0" ///
2 "Women Inclusion, UN-led Mediation = 1 and Plural Justice 0" ///
3 " UN-led Mediation and Plural Justice = 0 Women Inclusion = 1"  ///
4 " UN-led Mediation = 1 Women Inclusion and Plural Justice = 0" ///
5 " UN-led Mediation and Women Inclusion = 0  Plural Justice = 1" ) ///
ring(0) position(5) size(vsmall)) ///
graphregion(color(white) margin(small )) ///
```

```
plotregion( lstyle(foreground)) ///
bgcolor(white)
graph export interaction_gender_un_wo_hj.eps, replace

Survival-time data settings

         Failure event: conflict_re_onset==1
Observed time interval: (0, survival_years_after_5]
     Exit on or before: failure

--------------------------------------------------------------------------
      3,190  total observations
      1,567  event time missing (survival_years_after_5>=.) PROBABLE ERROR
        926  observations end on or before enter()
--------------------------------------------------------------------------
        697  observations remaining, representing
         31  failures in single-record/single-failure data
      1,795  total analysis time at risk and under observation
                                              At risk from t =         0
                                   Earliest observed entry t =         0
                                        Last observed exit t =         5

        Failure _d: conflict_re_onset==1
  Analysis time _t: survival_years_after_5

Iteration 0:  Log likelihood = -166.10302
Iteration 1:  Log likelihood = -147.95156
Iteration 2:  Log likelihood = -137.09256
Iteration 3:  Log likelihood =  -135.6884
Iteration 4:  Log likelihood =  -135.6301
Iteration 5:  Log likelihood =  -135.6181
Iteration 6:  Log likelihood =  -135.6137
Iteration 7:  Log likelihood = -135.61208
Iteration 8:  Log likelihood = -135.61148
Iteration 9:  Log likelihood = -135.61126
Iteration 10: Log likelihood = -135.61118
Iteration 11: Log likelihood = -135.61115
Iteration 12: Log likelihood = -135.61114
Iteration 13: Log likelihood = -135.61114
Iteration 14: Log likelihood = -135.61114
Iteration 15: Log likelihood = -135.61114
Iteration 16: Log likelihood = -135.61114
Iteration 17: Log likelihood = -135.61114
Iteration 18: Log likelihood = -135.61114
Iteration 19: Log likelihood = -135.61114
Iteration 20: Log likelihood = -135.61114
Iteration 21: Log likelihood = -135.61114
Iteration 22: Log likelihood = -135.61114
Iteration 23: Log likelihood = -135.61114
Iteration 24: Log likelihood = -135.61114
Iteration 25: Log likelihood = -135.61114
Iteration 26: Log likelihood = -135.61114
Iteration 27: Log likelihood = -135.61114
Iteration 28: Log likelihood = -135.61114
Iteration 29: Log likelihood = -135.61114
Iteration 30: Log likelihood = -135.61114
```

```
Iteration 31: Log likelihood = -135.61114
Refining estimates:
Iteration 0:  Log likelihood = -135.61114
Iteration 1:  Log likelihood = -135.61114

Cox regression with Breslow method for ties

No. of subjects =   518                                 Number of obs =    518
No. of failures =    30
Time at risk    = 1,275
                                                        LR chi2(10)   =  60.98
Log likelihood = -135.61114                             Prob > chi2   = 0.0000

------------------------------------------------------------------------------
          _t | Haz. ratio   Std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
1.cspv_ethwar_binary |   2.034165   1.12285     1.29   0.198     .6894879    6.001305
con_length_yearsmonth_TSCS |   1.002831   .0014615     1.94   0.052      .999971      1.0057
1.cum_conflict_intensity |   6.070635   3.169215     3.45   0.001      2.18202    16.88922
wdi_lifexp |     .90822   .0297145    -2.94   0.003     .8518086    .9683672
p_polity2 |   1.029507   .0673225     0.44   0.657     .9056629    1.170285
1.PKO_Dummy |   .5866557   .2861648    -1.09   0.274     .2255151    1.526128
1.incl_p_con_soc_gender |   1.246939   1.027102     0.27   0.789     .2481486    6.265831
1.int_med_UN_New |   .2363835   .2562165    -1.33   0.183     .0282487    1.978045
                 |
incl_p_con_soc_gender#|
int_med_UN_New |
1 1  |   1.61e-14   1.40e-07    -0.00   1.000           0           .
                 |
1.hyb_just |   3.091573   2.615136     1.33   0.182     .5890538    16.22572
------------------------------------------------------------------------------


Test of proportional-hazards assumption

Time function: Analysis time
-------------------------------------------------------
             |        rho     chi2       df    Prob>chi2
-------------+-----------------------------------------
0b.cspv_et~y |          .        .        1           .
1.cspv_eth~y |   -0.14826     0.94        1       0.3316
con_length~S |   -0.17810     1.05        1       0.3062
0b.cum_con~y |          .        .        1           .
1.cum_conf~y |    0.11415     0.40        1       0.5248
  wdi_lifexp |   -0.23627     2.06        1       0.1509
   p_polity2 |   -0.01162     0.01        1       0.9436
0b.PKO_Dummy |          .        .        1           .
 1.PKO_Dummy |    0.11523     0.33        1       0.5628
0b.incl_p_~r |          .        .        1           .
1.incl_p_c~r |    0.01639     0.01        1       0.9178
0b.int_med~w |          .        .        1           .
1.int_med_~w |    0.09978     0.24        1       0.6265
0b.incl_p_~d |          .        .        1           .
0b.incl_p_~d |          .        .        1           .
1o.incl_p_~d |          .        .        1           .
1.incl_p_c~_ |    0.05087     0.00        1       1.0000
```

```
 0b.hyb_just |          .        .        1           .
  1.hyb_just |   -0.13532     0.77        1       0.3807
-------------+----------------------------------------
 Global test |               10.44       10       0.4032
-------------------------------------------------------
```

```
survival_usip_5years.xls
{browse `"/Users/neudorfer/Library/CloudStorage/OneDrive-SharedLibraries-UniversityofBirmingham/G
> iuditta Fontana (Political Science and International Studies) - USIP - CW recurrence/Publicatio
> ns/Book USIP/Full Manuscript and Material for submission/Online material"' :dir} : seeout

note: function evaluated at specified values of selected covariates and overall means of other
      covariates (if any).

file interaction_gender_un_w_hj.eps saved as EPS format

note: function evaluated at specified values of selected covariates and overall means of other
      covariates (if any).

file interaction_gender_un_wo_hj.eps saved as EPS format
```



Robustness Tests Probit Regression Analysis

```
use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"


*************************************************************************
* Robustess Tests  Robustess Tests  Robustess Tests  Robustess Tests
* Robustess Tests  Robustess Tests  Robustess Tests  Robustess Tests
* Robustess Tests  Robustess Tests  Robustess Tests  Robustess Tests
* Robustess Tests  Robustess Tests  Robustess Tests  Robustess Tests
* Robustess Tests  Robustess Tests  Robustess Tests  Robustess Tests
*************************************************************************


*************************************************************************
* ICRG
*************************************************************************

* Single Effects - Plural Justice
probit conflict_incidence ///
 i.hyb_just ///
 PS_6_Dimensions ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub, vce(cluster cowcode)
fitstat
estadd fitstat
tabulate   PAName if e(sample)

***** For Margins ****
estadd margins, dydx(i.hyb_just) replace
matrix list e(margins_b)
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,2]
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,2]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC
```

```
estimates store m_hjust, title(Model 1)


* Single Effects - Gender
probit conflict_incidence ///
 i.incl_p_con_soc_gender ///
 PS_6_Dimensions ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub,  vce(cluster cowcode)
fitstat
estadd fitstat

***** For Margins ****
estadd margins, dydx(i.incl_p_con_soc_gender) replace
matrix list e(margins_b)
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,2]
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,2]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC

estimates store m_gender, title(Model 2)



* Single Effects - UN
probit conflict_incidence ///
 i.int_med_UN_New ///
 PS_6_Dimensions ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub,  vce(cluster cowcode)
fitstat
```

```
estadd fitstat

***** For Margins ****
estadd margins, dydx(i.int_med_UN_New) replace
matrix list e(margins_b)
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,2]
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,2]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC

estimates store m_un, title(Model 2)




* Single Effects of all Three
probit conflict_incidence ///
 i.hyb_just i.incl_p_con_soc_gender i.int_med_UN_New ///
 PS_6_Dimensions ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub ,  vce(cluster cowcode)
fitstat
estadd fitstat

estimates store m_hjust_un_gender, title(Model 2)
```

Robustness Regression 1: Leave out Corruption

```
Iteration 0:  Log pseudolikelihood = -1288.9193
Iteration 1:  Log pseudolikelihood = -675.37892
Iteration 2:  Log pseudolikelihood = -655.23891
Iteration 3:  Log pseudolikelihood = -653.89342
Iteration 4:  Log pseudolikelihood = -653.88008
Iteration 5:  Log pseudolikelihood = -653.88008

Probit regression                                     Number of obs =  1,958
                                                      Wald chi2(14) =      .
                                                      Prob > chi2   =      .
Log pseudolikelihood = -653.88008                     Pseudo R2     = 0.4927
```

(Std. err. adjusted for 54 clusters in cowcode)

conflict_incidence	Coefficient	Robust std. err.	z	P>|z|	[95% conf.	interval]
1.hyb_just	.0039032	.1924877	0.02	0.984	-.3733658	.3811722
PS_6_Dimensions	.0287163	.0386995	0.74	0.458	-.0471333	.104566
al_ethnic	-.1226242	.5725813	-0.21	0.830	-1.244863	.9996147
cspv_ethwar	.2224401	.1222206	1.82	0.069	-.0171079	.4619881
dpi_pr	.3078951	.2112239	1.46	0.145	-.1060962	.7218864
dpi_president	1.084179	.3732847	2.90	0.004	.3525545	1.815804
p_polity2	-.0739858	.0307005	-2.41	0.016	-.1341577	-.013814
c.p_polity2#c.p_polity2	.005362	.0073955	0.73	0.468	-.0091329	.0198569
wdi_gdpcappppcon2011	-.0000297	.0000435	-0.68	0.495	-.000115	.0000556
wdi_pop	3.64e-10	7.60e-10	0.48	0.632	-1.12e-09	1.85e-09
wdi_forest	.0073158	.005184	1.41	0.158	-.0028447	.0174762
brit_col	.1729688	.3521793	0.49	0.623	-.51729	.8632276
ross_oil_value_2014	5.76e-12	5.43e-12	1.06	0.289	-4.88e-12	1.64e-11
con_incid_peaceyrs	-1.532844	.2475436	-6.19	0.000	-2.01802	-1.047667
con_incid_peaceyrs_sqd	.331524	.0845661	3.92	0.000	.1657774	.4972706
con_incid_peaceyrs_cub	-.0218957	.007405	-2.96	0.003	-.0364091	-.0073823
_cons	-.855375	.4402128	-1.94	0.052	-1.718176	.0074263

Note: 1 failure and 0 successes completely determined.

Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:	-1288.919	Log-Lik Full Model:	-653.880
D(1940):	1307.760	LR(14):	1270.079
		Prob > LR:	0.000
McFadden's R2:	0.493	McFadden's Adj R2:	0.479
Maximum Likelihood R2:	0.477	Cragg & Uhler's R2:	0.652
McKelvey and Zavoina's R2:	0.684	Efron's R2:	0.567
Variance of y*:	3.160	Variance of error:	1.000
Count R2:	0.864	Adj Count R2:	0.630
AIC:	0.686	AIC*n:	1343.760
BIC:	-13396.817	BIC':	-1163.963

Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:	-1288.919	Log-Lik Full Model:	-653.880
D(1940):	1307.760	LR(14):	1270.079
		Prob > LR:	0.000
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Maximum Likelihood R2:	0.477	Cragg & Uhler's R2:	0.652
McKelvey and Zavoina's R2:	0.684	Efron's R2:	0.567
Variance of y*:	3.160	Variance of error:	1.000
Count R2:	0.864	Adj Count R2:	0.630
AIC:	0.686	AIC*n:	1343.760
BIC:	-13396.817	BIC':	-1163.963

added scalars:

```
              e(dev) =  1307.7602
           e(dev_df) =  1940
             e(lrx2) =  1270.0785
          e(lrx2_df) =  14
           e(lrx2_p) =  1.48e-262
            e(r2_mf) =  .49269124
         e(r2_mfadj) =  .47872605
            e(r2_ml) =  .47725481
            e(r2_cu) =  .65203545
            e(r2_mz) =  .68359166
            e(r2_ef) =  .5673469
          e(v_ystar) =  3.160473
          e(v_error) =  1
            e(r2_ct) =  .86363636
         e(r2_ctadj) =  .63019391
             e(aic0) =  .68629221
            e(aic_n) =  1343.7602
             e(bic0) =  -13396.817
            e(bic_p) =  -1163.963
            e(n_rhs) =  17
           e(n_parm) =  18
```

PA Name	Freq.	Percent	Cum.
Acuerdo entre los Comandos Ernesto R..	11	0.56	0.56
ACCORD DE CESSEZ-LE-FEU	1	0.05	0.61
AGREEMENT ON THE CIVILIAN PROTECTION ..	6	0.31	0.92
ASSEMBLEIA DA REPUBLICA, Comissÿo dos..	1	0.05	0.97
Abuja Agreement to Supplement the Cot..	6	0.31	1.28
Accord Politique de libreville sur la..	2	0.10	1.38
Accord cadre de Dakar entre des trois..	6	0.31	1.69
Accord carde de mise en oeuvre de l' ..	3	0.15	1.84
Accord de Governors Island/ Governor'..	8	0.41	2.25
Accord de Paris	11	0.56	2.81
Accord de cessation de hostilite en R..	1	0.05	2.86
Accord de cessez-le-feu	2	0.10	2.96
Accord de paix de Birao/ Peace Agreem..	8	0.41	3.37
Accord de paix entre le Gouvernement ..	8	0.41	3.78
Accord de paix entre le gouvernement ..	8	0.41	4.19
Accord de partage de pouvoir au Burundi	11	0.56	4.75
Accord d'Alger pour la Restauration d..	9	0.46	5.21
Accord no 1 de Maputo sur l'annulatio..	6	0.31	5.52
Accord no 2 de Maputo sur l'annulatio..	6	0.31	5.82
Accord no 3 de Maputo sur l'annulatio..	6	0.31	6.13
Accord preliminaire a l'election pres..	2	0.10	6.23
Accord établissant une paix définitiv..	3	0.15	6.38
Accords d'Antananarivo	11	0.56	6.95
Accra Agreement	11	0.56	7.51
Accra III	11	0.56	8.07
Acte Additionnel d' Addis Abeba a la ..	6	0.31	8.38
Acte d'Engagement - Nord Kivu	7	0.36	8.73
Acte d'Engagement - Sud Kivu	7	0.36	9.09
Acuerdo Complementario del 5 Frebrero..	11	0.56	9.65
Acuerdo Complementarion del 22 de Dic..	11	0.56	10.21
Acuerdo Final	11	0.56	10.78
Acuerdo Final entre el Gobierno Nacio..	11	0.56	11.34

Acuerdo Politico entre el Gobierno Na..	11	0.56	11.90
Acuerdo Político Final Gobierno Nacio..	11	0.56	12.46
Acuerdo de Paz entre Gobierno y Frent..	11	0.56	13.02
Acuerdo de San Jose	6	0.31	13.33
Acuerdo de la Reunion Tripartita	11	0.56	13.89
Acuerdo entre el Gobierno Nacional y ..	11	0.56	14.45
Acuerdo final entre el Gobierno Nacio..	11	0.56	15.02
Addendum to the Toncotin Agreement	11	0.56	15.58
Additional Protocol to the Abuja Acco..	2	0.10	15.68
Agenda for the dialogue between the g..	2	0.10	15.78
Agreement Emboying a Convention on Go..	11	0.56	16.34
Agreement at St.Andrew's	9	0.46	16.80
Agreement between the Government of G..	2	0.10	16.91
Agreement between the Government of S..	1	0.05	16.96
Agreement between the President of th..	11	0.56	17.52
Agreement between the Republic of Ind..	11	0.56	18.08
Agreement between the Zimbabwe Africa..	7	0.36	18.44
Agreement for General Cessation of Ho..	11	0.56	19.00
Agreement on Accountability and Recon..	8	0.41	19.41
Agreement on Comprehensive Solutions ..	8	0.41	19.82
Agreement on Constitutional Reforms a..	11	0.56	20.38
Agreement on Disarmament, Demobilizat..	7	0.36	20.74
Agreement on Ending Hostilities In th..	7	0.36	21.09
Agreement on Human Rights (San Jose A..	11	0.56	21.65
Agreement on Implementation and Monit..	7	0.36	22.01
Agreement on Peace and national Recon..	22	1.12	23.14
Agreement on Peace between the Govern..	11	0.56	23.70
Agreement on Principles of Settlement..	7	0.36	24.06
Agreement on Socio-economic Aspects o..	11	0.56	24.62
Agreement on Transitional Arrangement..	11	0.56	25.18
Agreement on a Ceasefire between the ..	11	0.56	25.74
Agreement on a Comprehensive Politica..	8	0.41	26.15
Agreement on a Firm and Lasting Peace	11	0.56	26.71
Agreement on the Basic Principles of ..	11	0.56	27.27
Agreement on the Basis for the Legal ..	11	0.56	27.83
Agreement on the Definitive Ceasefire	11	0.56	28.40
Agreement on the Establishment of the..	11	0.56	28.96
Agreement on the Identity and Rights ..	11	0.56	29.52
Agreement on the Implementation, Comp..	11	0.56	30.08
Agreement on the Peaceful Resolution ..	11	0.56	30.64
Agreement on the Resettlement of Popu..	11	0.56	31.21
Agreement on the Strengthening of Civ..	11	0.56	31.77
Agreement signed by the Government of..	1	0.05	31.82
Akosombo Agreement	6	0.31	32.12
An acceptance and accession agreement..	6	0.31	32.43
Annexure to the Agreement on Accounta..	7	0.36	32.79
Arusha Peace and Reconciliation Agree..	11	0.56	33.35
Athens Meeting of the Georgian and Ab..	11	0.56	33.91
Bodoland Autonomous Council Act, 1993	11	0.56	34.47
Bougainville Peace Agreement	11	0.56	35.04
Ceasefire Agreement	3	0.15	35.19
Ceasefire Agreement between the Trans..	11	0.56	35.75
Ceasefire Agreement in Guinea Bissau	2	0.10	35.85
Cessation of Hostilities Framework Ag..	11	0.56	36.41
Chapultepec Peace Agreement	11	0.56	36.98
Chart de la transition	6	0.31	37.28

Charter of Mirigini for a New Bugainv..	11	0.56	37.84
Chittagong Hill Tracts Peace Accord	10	0.51	38.36
Communique of the Abuja Sudanese Peac..	6	0.31	38.66
Comprehensive Agreement on Human Rights	11	0.56	39.22
Comprehensive Agreement on Respect fo..	11	0.56	39.79
Comprehensive Ceasefire Agreement bet..	9	0.46	40.25
Comprehensive Peace Agreement	7	0.36	40.60
Comprehensive Peace Agreement between..	7	0.36	40.96
Cotonou Agreement	6	0.31	41.27
Dar-es-Salaam Agreement on Principles..	9	0.46	41.73
Declaration on Measures for a Politic..	9	0.46	42.19
Declaration on the Conclusion of IGAD..	2	0.10	42.29
Declaration on the Implementation of ..	10	0.51	42.80
Decree of the President of the Russia..	11	0.56	43.36
Decret Presidentiel Relatif a la Plat..	8	0.41	43.77
Definitive Ceasefire Agreement betwee..	11	0.56	44.33
Dialogue inter-togolais: Memorandum d..	11	0.56	44.89
Dialogue inter-togolais: accord cadre..	11	0.56	45.45
Dialogue inter-togolais: accord polit..	9	0.46	45.91
Doha Agreement on the Results of the ..	7	0.36	46.27
Décret présidentiel relatif à la plat..	10	0.51	46.78
Effective and Definitive Ceasefire Ag..	11	0.56	47.34
Enhancement of the Security Situation..	2	0.10	47.45
Erbil Agreement	5	0.26	47.70
Final Agreement National Government P..	11	0.56	48.26
Forces Technical Agreement (FTA) betw..	11	0.56	48.83
Fourth Complementary Agreement to the..	7	0.36	49.18
Framework agreement on Bangsamoro 15 ..	3	0.15	49.34
GENERAL AGREEMENT FOR THE TERMINATION..	3	0.15	49.49
GPH-MILF decision points on principle..	3	0.15	49.64
General Agreement for Peace between t..	11	0.56	50.20
General Agreement on Reform and Civil..	11	0.56	50.77
General Peace Agreement Republic of S..	10	0.51	51.28
General Peace Agreement for Mozambique	9	0.46	51.74
Geneva Agreement	11	0.56	52.30
Global and Inclusive Agreement on Tra..	6	0.31	52.60
Groote Schuur Minute	11	0.56	53.17
Hacia un Nuevo Campo Colombiano: Refo..	1	0.05	53.22
Honiara Peace Accord	10	0.51	53.73
Implementation Protocol to the Agreem..	7	0.36	54.09
Implementing Guidelines on the Joint ..	11	0.56	54.65
Implementing Guidelines on the Securi..	11	0.56	55.21
Implementing Operational Guidelines o..	11	0.56	55.77
Improvement of Humanitarian Situation..	2	0.10	55.87
Inter-Congolese Political Negotiation..	7	0.36	56.23
Istanbul Statement of the Georgian an..	11	0.56	56.79
Joint Bougainville Ex-combatants Agre..	11	0.56	57.35
Joint Communiqué GRP-MILF	11	0.56	57.92
Joint Declaration of the Defence and ..	11	0.56	58.48
Joint Declaration of the Warring Part..	3	0.15	58.63
Joint ICGLR-SADC Final Communique on ..	2	0.10	58.73
Kenya National Dialogue and Reconcili..	7	0.36	59.09
Kenya National Dialogue and Reconcili..	7	0.36	59.45
Kenyan National Dialogue and Reconcil..	7	0.36	59.81
Kenyan National Dialogue and Reconcil..	7	0.36	60.16
Khasavyourt Joint Declaration and Pri..	11	0.56	60.73

Linas-Marcoussis Peace Accords	11	0.56	61.29
Lincoln Agreement on Peace Security a..	11	0.56	61.85
Malino Declaration to End Conflict an..	11	0.56	62.41
Managua Protocol on Disarmament	11	0.56	62.97
Memorandum of Agreement between the G..	11	0.56	63.53
Memorandum of Agreement on the Ancest..	11	0.56	64.10
Memorandum of Settlement - 23 August ..	11	0.56	64.66
Memorandum of Settlement on Bodoland ..	11	0.56	65.22
Memorandum of Understanding (Luena Ag..	4	0.20	65.42
Memorandum of Understanding between t..	2	0.10	65.53
Memorandum of Understanding between t..	4	0.20	65.73
Memorandum of Understanding on Peace ..	6	0.31	66.04
Memorandum of Understanding the Gover..	10	0.51	66.55
Memorandum on the Bases for Normaliza..	11	0.56	67.11
Mexico Agreement	11	0.56	67.67
Moluccas Agreement in Malino (Malino ..	11	0.56	68.23
Moscow Agreement	7	0.36	68.59
Mémorandum sur le mécanisme pour la f..	7	0.36	68.95
National Accord and Reconciliation Ac..	7	0.36	69.31
National Pact Concluded between the G..	10	0.51	69.82
National Peace Accord	11	0.56	70.38
National Reconciliation Pact (Bangui ..	11	0.56	70.94
New York Act	11	0.56	71.50
New York Act II	11	0.56	72.06
New York Agreement	11	0.56	72.63
North West Frontier Province Governme..	7	0.36	72.98
On the Bangsamoro waters and zones of..	1	0.05	73.03
Ouagadougou Accord Peace Agreement be..	3	0.15	73.19
Ouagadougou Political Agreement	8	0.41	73.60
PEACE AGREEMENT BETWEEN THE GOVERNMEN..	6	0.31	73.90
Peace Agreement	11	0.56	74.46
Peace Agreement between the Governeme..	11	0.56	75.03
Peace Agreement between the Governeme..	10	0.51	75.54
Peace Agreement between the Governmen..	11	0.56	76.10
Peace Agreement between the Governmen..	9	0.46	76.56
Peace Agreement between the Governmen..	11	0.56	77.12
Peace Agreement between the Governmen..	1	0.05	77.17
Peace Agreement between the Governmen..	11	0.56	77.73
Peace Treaty and Principles of Inter-..	11	0.56	78.29
Peace, Security and Cooperation Frame..	2	0.10	78.40
Political agreement on consensual man..	6	0.31	78.70
Premier accord complémentaire à l'acc..	8	0.41	79.11
Pretoria Agreement on the Peace Proce..	10	0.51	79.62
Pretoria Minute	11	0.56	80.18
Pretoria Protocol on Political, Defen..	11	0.56	80.75
Protocol between President Jean Bertr..	7	0.36	81.10
Protocol of Agreement between Preside..	7	0.36	81.46
Protocol of Agreement between the Gov..	1	0.05	81.51
Protocol of Agreement between the Gov..	1	0.05	81.56
Protocol of Agreement between the Gov..	1	0.05	81.61
Protocol of Agreement on Power-Sharin..	1	0.05	81.66
Protocol on Military Issues	11	0.56	82.23
Protocol on Outstanding Issues of Pol..	11	0.56	82.79
Protocol on Political Questions	11	0.56	83.35
Protocol on Refugees	11	0.56	83.91
Protocol on the Fundamental Principle..	11	0.56	84.47

```
Protocol on the Guarantees of Impleme.. |         11        0.56       85.04
Protocol on the Main Functions and Po.. |         11        0.56       85.60
Quadripartite Agreement on Voluntary .. |          9        0.46       86.06
Roadmap for Ending the Crisis in Mada.. |          4        0.20       86.26
              Russian-Chechen Agreement |         11        0.56       86.82
        Russian-Chechen Truce Agreement |         11        0.56       87.39
Second Complementary Agreement to the.. |          8        0.41       87.79
            Second Oslo Joint Statement |         11        0.56       88.36
Solucion at Problema de las Drogas Il.. |          1        0.05       88.41
Statute on the Commission of National.. |         11        0.56       88.97
    Sudan Comprehensive Peace Agreement |          1        0.05       89.02
                  Sudan Peace Agreement |          9        0.46       89.48
         Supplement to the Abuja Accord |          7        0.36       89.84
              TEXT OF SWAT PEACE ACCORD |          6        0.31       90.14
THE COMPREHENSIVE AGREEMENT ON THE BA.. |          1        0.05       90.19
                  The Bicesse Agreement |          4        0.20       90.40
             The Compressed Negotations |         11        0.56       90.96
                    The Erdut Agreement |         11        0.56       91.52
           The Fashoda Peace Agreement  |          9        0.46       91.98
The Global Ceasefire agreement betwee.. |         11        0.56       92.54
              The Good Friday Agreement |         11        0.56       93.11
       The Joint Declaration of Fomboni |         11        0.56       93.67
                    The Lusaka Protocol |          2        0.10       93.77
The Moscow Declaration - General agre.. |         11        0.56       94.33
         The Nakuru County Peace Accord |          3        0.15       94.48
    The Nuba Mountains' Peace Agreement |          9        0.46       94.94
                    The Ohrid Agreement |         11        0.56       95.51
                The San Andrés Accords |         11        0.56       96.07
              The Seven Point Agreement |          4        0.20       96.27
Timetable for the Implementation of t.. |         11        0.56       96.83
                    Toncontin Agreement |         11        0.56       97.40
             Townsville Peace Agreement |         10        0.51       97.91
Troisième accord complémentaire à l'a.. |          8        0.41       98.31
Understandings Regarding the New York.. |         11        0.56       98.88
                     Waigani Communiqué |         11        0.56       99.44
Yalta Declaration of the Georgian and.. |         11        0.56      100.00
----------------------------------------+-----------------------------------
                                  Total |      1,958      100.00


Average marginal effects                                  Number of obs = 1,958
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
dy/dx wrt:  1.hyb_just

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
  1.hyb_just |   .0007305   .0360394     0.02   0.984    -.0699054    .0713664
------------------------------------------------------------------------------
Note: dy/dx for factor levels is the discrete change from the base level.

added scalars:
      e(margins_level) =  95
```

```
e(margins_PT_has_legend) =  0
e(margins_PT_has_cnotes) =  0
e(margins_PT_k_ctitles) =  2
    e(margins_k_eform) =  1
    e(margins_k_mlist) =  1
       e(margins_k_at) =  0
       e(margins_k_by) =  1
  e(margins_k_predict) =  1
e(margins_outcomeIsEq1) =  0
       e(margins_j2_1) =  0
       e(margins_j1_1) =  0
     e(margins_deriv1) =  1
     e(margins_is_xb1) =  0
    e(margins_numeric) =  0
  e(margins_k_margins) =  0
          e(margins_N) =  1958

added macros:
  e(margins_marg_dims) : "_deriv"
 e(margins_put_tables) : "PT"
     e(margins_isloco) : "0"
   e(margins_PT_rseps) : "`""'"
  e(margins_PT_rnotes) : "`""'"
 e(margins_PT_raligns) : "`"right"'"
 e(margins_PT_rtitles) : "`"1.hyb_just"'"
e(margins_PT_cformats) : "`"%9.0g"' `"%9.0g"' `"%8.2f"' `"%5.3f"' `"%9.0g"' `"%9.0g"'"
 e(margins_PT_cspans2) : "`"1"' `"1"' `"1"' `"1"' `"2"' `"0"'"
e(margins_PT_ctitles2) : "`"dy/dx"' `"std. err."' `"z"' `"P>|z|"' `"[95% conf. interval]"' `""'"
 e(margins_PT_cspans1) : "`"1"' `"1"' `"1"' `"1"' `"1"' `"1"'"
e(margins_PT_ctitles1) : "`""' `"Delta-method"' `""' `""' `""' `""'"
     e(margins_citype) : "normal"
     e(margins_label1) : "(base)"
   e(margins_mcmethod) : "noadjust"
        e(margins_cmd) : "margins"
    e(margins_cmdline) : "margins , dydx(i.hyb_just)"
 e(margins_est_depvar) : "conflict_incidence"
e(margins_est_cmdline) : "probit conflict_incidence  i.hyb_just  PS_6_Dimensions  al_ethnic   csp
> v_ethwar  dpi_pr dpi_president  c.p_polity2##c.p_polity2  wdi_gdpcappppcon2011  wdi_pop  wdi_fo
> rest  brit_col  ross_oil_value_2014  con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peacey
> rs_cub, vce(cluster cowcode)"
    e(margins_est_cmd) : "probit"
    e(margins_predict) : "_no_predict"
     e(margins_mlist1) : "_cons"
 e(margins_emptycells) : "strict"
e(margins_derivatives) : "dy/dx"
      e(margins_xvars) : "0b.hyb_just 1.hyb_just"
e(margins_predict1_label) : "Pr(conflict_incidence)"
 e(margins_expression) : "predict()"
e(margins_predict_label) : "Pr(conflict_incidence)"
    e(margins_vcetype) : "Delta-method"
        e(margins_vce) : "delta"
e(margins_model_vcetype) : "Robust"
  e(margins_model_vce) : "cluster"
      e(margins_title) : "Average marginal effects"

added matrices:
```

```
         e(margins_PT) :  1 x 6
      e(margins_table) :  9 x 2
          e(margins_b) :  1 x 2
  e(margins_chainrule) :  1 x 3
         e(margins_se) :  1 x 2
   e(margins_Jacobian) :  2 x 18
      e(margins_error) :  1 x 2
         e(margins__N) :  1 x 2


e(margins_b)[1,2]
           0b.         1.
     hyb_just   hyb_just
y1          0  .00073046



margins_b[1,2]
           0b.         1.
     hyb_just   hyb_just
y1          0  .00073046



added scalar:
           e(N1Pa1Po1) =  .00073046


e(margins_se)[1,2]
           0b.         1.
     hyb_just   hyb_just
r1          0  .03603939



margins_se[1,2]
           0b.         1.
     hyb_just   hyb_just
r1          0  .03603939



added scalar:
        e(N1Pa1Po1_se) =  .03603939



added scalar:
        e(N1Pa1Po1_LC) =  -.06990675



added scalar:
        e(N1Pa1Po1_HC) =  .07136767
```

```
Iteration 0:  Log pseudolikelihood = -1288.9193
Iteration 1:  Log pseudolikelihood = -672.49648
Iteration 2:  Log pseudolikelihood = -651.27678
Iteration 3:  Log pseudolikelihood = -649.88687
Iteration 4:  Log pseudolikelihood = -649.87251
Iteration 5:  Log pseudolikelihood =  -649.8725

Probit regression                                       Number of obs =  1,958
                                                        Wald chi2(14) =      .
                                                        Prob > chi2   =      .
Log pseudolikelihood = -649.8725                        Pseudo R2     = 0.4958

                                          (Std. err. adjusted for 54 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------------------+----------------------------------------------------------------
1.incl_p_con_soc_gender |  -.4275018   .2422944    -1.76   0.078    -.9023902    .0473865
        PS_6_Dimensions |   .0565243   .0472828     1.20   0.232    -.0361482    .1491969
              al_ethnic |  -.1018983   .5662984    -0.18   0.857    -1.211823    1.008026
           cspv_ethwar |   .2331371   .1166788     2.00   0.046     .0044508    .4618233
                dpi_pr |   .3207886   .2129398     1.51   0.132    -.0965659     .738143
         dpi_president |   1.118009   .3817407     2.93   0.003     .3698107    1.866207
             p_polity2 |  -.0725098   .0310173    -2.34   0.019    -.1333026   -.0117169
                       |
c.p_polity2#c.p_polity2 |   .0059394   .0072731     0.82   0.414    -.0083156    .0201943
                       |
   wdi_gdpcappppcon2011 |  -.0000299    .000043    -0.69   0.488    -.0001142    .0000544
               wdi_pop |   2.84e-10   7.18e-10     0.40   0.693    -1.12e-09    1.69e-09
            wdi_forest |   .0073285   .0051643     1.42   0.156    -.0027934    .0174504
              brit_col |   .1661966   .3563266     0.47   0.641    -.5321907    .8645839
    ross_oil_value_2014 |   5.93e-12   5.30e-12     1.12   0.263    -4.45e-12    1.63e-11
     con_incid_peaceyrs |  -1.528696   .2467864    -6.19   0.000    -2.012388   -1.045003
 con_incid_peaceyrs_sqd |   .3304029    .084872     3.89   0.000     .1640568    .4967489
 con_incid_peaceyrs_cub |  -.0217924   .0074184    -2.94   0.003    -.0363322   -.0072526
                  _cons |  -.9312105   .4485363    -2.08   0.038    -1.810325   -.0520955
------------------------------------------------------------------------------------------
Note: 1 failure and 0 successes completely determined.


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:    -1288.919     Log-Lik Full Model:         -649.873
D(1940):                    1299.745     LR(14):                    1278.094
                                         Prob > LR:                    0.000
McFadden's R2:                 0.496     McFadden's Adj R2:            0.482
Maximum Likelihood R2:         0.479     Cragg & Uhler's R2:           0.655
McKelvey and Zavoina's R2:     0.689     Efron's R2:                   0.568
Variance of y*:                3.214     Variance of error:            1.000
Count R2:                      0.865     Adj Count R2:                 0.634
AIC:                           0.682     AIC*n:                     1335.745
BIC:                      -13404.832     BIC':                      -1171.978


Measures of Fit for probit of conflict_incidence
```

```
Log-Lik Intercept Only:    -1288.919     Log-Lik Full Model:         -649.873
D(1940):                    1299.745     LR(14):                    1278.094
                                         Prob > LR:                    0.000
McFadden's R2:                 0.496     McFadden's Adj R2:            0.482
Maximum Likelihood R2:         0.479     Cragg & Uhler's R2:           0.655
McKelvey and Zavoina's R2:     0.689     Efron's R2:                   0.568
Variance of y*:                3.214     Variance of error:            1.000
Count R2:                      0.865     Adj Count R2:                 0.634
AIC:                           0.682     AIC*n:                     1335.745
BIC:                       -13404.832    BIC':                      -1171.978

added scalars:
                e(dev) =  1299.745
             e(dev_df) =  1940
               e(lrx2) =  1278.0937
            e(lrx2_df) =  14
             e(lrx2_p) =  2.79e-264
              e(r2_mf) =  .49580049
           e(r2_mfadj) =  .4818353
              e(r2_ml) =  .47939031
              e(r2_cu) =  .65495302
              e(r2_mz) =  .68883233
              e(r2_ef) =  .56833354
            e(v_ystar) =  3.2137015
            e(v_error) =  1
              e(r2_ct) =  .86516854
           e(r2_ctadj) =  .63434903
               e(aic0) =  .68219868
              e(aic_n) =  1335.745
               e(bic0) =  -13404.832
              e(bic_p) =  -1171.9782
              e(n_rhs) =  17
            e(n_parm) =  18


Average marginal effects                                    Number of obs = 1,958
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
dy/dx wrt:  1.incl_p_con_soc_gender

------------------------------------------------------------------------------
                        |            Delta-method
                        |      dy/dx   std. err.      z    P>|z|     [95% conf. interval]
------------------------+-----------------------------------------------------------------
1.incl_p_con_soc_gender |  -.0790224    .044964    -1.76   0.079    -.1671501    .0091054
------------------------------------------------------------------------------
Note: dy/dx for factor levels is the discrete change from the base level.

added scalars:
      e(margins_level) =  95
e(margins_PT_has_legend) =  0
e(margins_PT_has_cnotes) =  0
e(margins_PT_k_ctitles) =  2
    e(margins_k_eform) =  1
```

```
    e(margins_k_mlist) =  1
       e(margins_k_at) =  0
       e(margins_k_by) =  1
  e(margins_k_predict) =  1
e(margins_outcomeIsEq1) =  0
       e(margins_j2_1) =  0
       e(margins_j1_1) =  0
     e(margins_deriv1) =  1
     e(margins_is_xb1) =  0
    e(margins_numeric) =  0
  e(margins_k_margins) =  0
          e(margins_N) =  1958

added macros:
  e(margins_marg_dims) : "_deriv"
 e(margins_put_tables) : "PT"
     e(margins_isloco) : "0"
   e(margins_PT_rseps) : "`""'"
  e(margins_PT_rnotes) : "`""'"
 e(margins_PT_raligns) : "`"right"'"
 e(margins_PT_rtitles) : "`"1.incl_p_con_soc_gender"'"
e(margins_PT_cformats) : "`"%9.0g"' `"%9.0g"' `"%8.2f"' `"%5.3f"' `"%9.0g"' `"%9.0g"'"
 e(margins_PT_cspans2) : "`"1"' `"1"' `"1"' `"1"' `"2"' `"0"'"
e(margins_PT_ctitles2) : "`"dy/dx"' `"std. err."' `"z"' `"P>|z|"' `"[95% conf. interval]"' `""'"
 e(margins_PT_cspans1) : "`"1"' `"1"' `"1"' `"1"' `"1"' `"1"'"
e(margins_PT_ctitles1) : "`""' `"Delta-method"' `""' `""' `""' `""'"
     e(margins_citype) : "normal"
     e(margins_label1) : "(base)"
   e(margins_mcmethod) : "noadjust"
        e(margins_cmd) : "margins"
    e(margins_cmdline) : "margins , dydx(i.incl_p_con_soc_gender)"
 e(margins_est_depvar) : "conflict_incidence"
e(margins_est_cmdline) : "probit conflict_incidence  i.incl_p_con_soc_gender  PS_6_Dimensions  al
> _ethnic   cspv_ethwar  dpi_pr dpi_president  c.p_polity2##c.p_polity2  wdi_gdpcappppcon2011  wd
> i_pop  wdi_forest  brit_col  ross_oil_value_2014  con_incid_peaceyrs con_incid_peaceyrs_sqd con
> _incid_peaceyrs_cub,  vce(cluster cowcode)"
    e(margins_est_cmd) : "probit"
    e(margins_predict) : "_no_predict"
     e(margins_mlist1) : "_cons"
 e(margins_emptycells) : "strict"
e(margins_derivatives) : "dy/dx"
      e(margins_xvars) : "0b.incl_p_con_soc_gender 1.incl_p_con_soc_gender"
e(margins_predict1_label) : "Pr(conflict_incidence)"
 e(margins_expression) : "predict()"
e(margins_predict_label) : "Pr(conflict_incidence)"
    e(margins_vcetype) : "Delta-method"
        e(margins_vce) : "delta"
e(margins_model_vcetype) : "Robust"
  e(margins_model_vce) : "cluster"
      e(margins_title) : "Average marginal effects"

added matrices:
         e(margins_PT) :  1 x 6
      e(margins_table) :  9 x 2
          e(margins_b) :  1 x 2
  e(margins_chainrule) :  1 x 3
```

```
         e(margins_se) :  1 x 2
   e(margins_Jacobian) :  2 x 18
      e(margins_error) :  1 x 2
         e(margins__N) :  1 x 2


e(margins_b)[1,2]
              0b.            1.
    incl_p_con~r  incl_p_con~r
y1             0    -.07902238



margins_b[1,2]
              0b.            1.
    incl_p_con~r  incl_p_con~r
y1             0    -.07902238



added scalar:
           e(N1Pa1Po1) =  -.07902238


e(margins_se)[1,2]
              0b.            1.
    incl_p_con~r  incl_p_con~r
r1             0     .04496397



margins_se[1,2]
              0b.            1.
    incl_p_con~r  incl_p_con~r
r1             0     .04496397



added scalar:
        e(N1Pa1Po1_se) =  .04496397



added scalar:
        e(N1Pa1Po1_LC) =  -.16715176



added scalar:
        e(N1Pa1Po1_HC) =  .009107



Iteration 0:  Log pseudolikelihood = -1288.9193
Iteration 1:  Log pseudolikelihood = -661.27166
Iteration 2:  Log pseudolikelihood = -640.59469
```

```
Iteration 3:  Log pseudolikelihood = -639.27142
Iteration 4:  Log pseudolikelihood = -639.25512
Iteration 5:  Log pseudolikelihood = -639.25511

Probit regression                                     Number of obs =  1,958
                                                      Wald chi2(14) =      .
                                                      Prob > chi2   =      .
Log pseudolikelihood = -639.25511                     Pseudo R2     = 0.5040

                                          (Std. err. adjusted for 54 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------------------+----------------------------------------------------------------
       1.int_med_UN_New |  -.5964505    .298767    -2.00   0.046    -1.182023   -.0108779
        PS_6_Dimensions |   .0414908   .0377057     1.10   0.271    -.0324111    .1153927
              al_ethnic |  -.3330849   .5613653    -0.59   0.553    -1.433341    .7671709
            cspv_ethwar |   .2271887   .1103436     2.06   0.040     .0109192    .4434582
                 dpi_pr |   .3028887   .2078712     1.46   0.145    -.1045313    .7103087
          dpi_president |   1.068849   .3589327     2.98   0.003     .3653541    1.772344
              p_polity2 |  -.0860089    .031348    -2.74   0.006      -.14745   -.0245679
                        |
c.p_polity2#c.p_polity2 |   .0060162   .0068964     0.87   0.383    -.0075006    .0195329
                        |
   wdi_gdpcappppcon2011 |  -.0000298   .0000394    -0.76   0.449     -.000107    .0000474
               wdi_pop |   3.01e-10   6.64e-10     0.45   0.651    -1.00e-09    1.60e-09
            wdi_forest |   .0066485   .0049988     1.33   0.184    -.0031489     .016446
              brit_col |   .0544261   .3590509     0.15   0.880    -.6493007    .7581528
    ross_oil_value_2014 |   3.92e-12   4.95e-12     0.79   0.428    -5.78e-12    1.36e-11
     con_incid_peaceyrs |  -1.513394   .2442428    -6.20   0.000    -1.992101   -1.034687
 con_incid_peaceyrs_sqd |   .3278323   .0862054     3.80   0.000     .1588728    .4967917
 con_incid_peaceyrs_cub |  -.0216767   .0075348    -2.88   0.004    -.0364448   -.0069087
                  _cons |  -.5547518   .4599903    -1.21   0.228    -1.456316    .3468126
------------------------------------------------------------------------------------------


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:    -1288.919     Log-Lik Full Model:         -639.255
D(1940):                    1278.510     LR(14):                    1299.328
                                         Prob > LR:                    0.000
McFadden's R2:                 0.504     McFadden's Adj R2:            0.490
Maximum Likelihood R2:         0.485     Cragg & Uhler's R2:           0.663
McKelvey and Zavoina's R2:     0.693     Efron's R2:                   0.572
Variance of y*:                3.261     Variance of error:            1.000
Count R2:                      0.869     Adj Count R2:                 0.644
AIC:                           0.671     AIC*n:                     1314.510
BIC:                      -13426.067     BIC':                      -1193.213


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:    -1288.919     Log-Lik Full Model:         -639.255
D(1940):                    1278.510     LR(14):                    1299.328
                                         Prob > LR:                    0.000
McFadden's R2:                 0.504     McFadden's Adj R2:            0.490
```

```
Maximum Likelihood R2:         0.485     Cragg & Uhler's R2:            0.663
McKelvey and Zavoina's R2:     0.693     Efron's R2:                    0.572
Variance of y*:                3.261     Variance of error:             1.000
Count R2:                      0.869     Adj Count R2:                  0.644
AIC:                           0.671     AIC*n:                      1314.510
BIC:                       -13426.067    BIC':                      -1193.213

added scalars:
                e(dev) =  1278.5102
             e(dev_df) =  1940
               e(lrx2) =  1299.3285
            e(lrx2_df) =  14
             e(lrx2_p) =  7.54e-269
              e(r2_mf) =  .50403792
           e(r2_mfadj) =  .49007274
              e(r2_ml) =  .48500589
              e(r2_cu) =  .66262514
              e(r2_mz) =  .69332112
              e(r2_ef) =  .57240144
            e(v_ystar) =  3.2607397
            e(v_error) =  1
              e(r2_ct) =  .86874362
           e(r2_ctadj) =  .64404432
               e(aic0) =  .67135353
              e(aic_n) =  1314.5102
               e(bic0) =  -13426.067
              e(bic_p) =  -1193.213
              e(n_rhs) =  17
             e(n_parm) =  18


Average marginal effects                                    Number of obs = 1,958
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
dy/dx wrt:  1.int_med_UN_New

------------------------------------------------------------------------------
                 |            Delta-method
                 |      dy/dx   std. err.      z    P>|z|     [95% conf. interval]
-----------------+------------------------------------------------------------------
1.int_med_UN_New |  -.1115256   .0536819    -2.08   0.038    -.2167403   -.0063109
------------------------------------------------------------------------------
Note: dy/dx for factor levels is the discrete change from the base level.

added scalars:
      e(margins_level) =  95
e(margins_PT_has_legend) =  0
e(margins_PT_has_cnotes) =  0
e(margins_PT_k_ctitles) =  2
    e(margins_k_eform) =  1
    e(margins_k_mlist) =  1
       e(margins_k_at) =  0
       e(margins_k_by) =  1
  e(margins_k_predict) =  1
e(margins_outcomeIsEq1) =  0
```

```
       e(margins_j2_1) =  0
       e(margins_j1_1) =  0
     e(margins_deriv1) =  1
     e(margins_is_xb1) =  0
    e(margins_numeric) =  0
  e(margins_k_margins) =  0
          e(margins_N) =  1958

added macros:
  e(margins_marg_dims) : "_deriv"
 e(margins_put_tables) : "PT"
     e(margins_isloco) : "0"
   e(margins_PT_rseps) : "`""'"
  e(margins_PT_rnotes) : "`""'"
 e(margins_PT_raligns) : "`"right"'"
 e(margins_PT_rtitles) : "`"1.int_med_UN_New"'"
e(margins_PT_cformats) : "`"%9.0g"' `"%9.0g"' `"%8.2f"' `"%5.3f"' `"%9.0g"' `"%9.0g"'"
 e(margins_PT_cspans2) : "`"1"' `"1"' `"1"' `"1"' `"2"' `"0"'"
e(margins_PT_ctitles2) : "`"dy/dx"' `"std. err."' `"z"' `"P>|z|"' `"[95% conf. interval]"' `""'"
 e(margins_PT_cspans1) : "`"1"' `"1"' `"1"' `"1"' `"1"' `"1"'"
e(margins_PT_ctitles1) : "`""' `"Delta-method"' `""' `""' `""' `""'"
     e(margins_citype) : "normal"
     e(margins_label1) : "(base)"
   e(margins_mcmethod) : "noadjust"
        e(margins_cmd) : "margins"
    e(margins_cmdline) : "margins , dydx(i.int_med_UN_New)"
 e(margins_est_depvar) : "conflict_incidence"
e(margins_est_cmdline) : "probit conflict_incidence  i.int_med_UN_New  PS_6_Dimensions  al_ethnic
>    cspv_ethwar  dpi_pr dpi_president  c.p_polity2##c.p_polity2  wdi_gdpcappppcon2011  wdi_pop
> wdi_forest  brit_col  ross_oil_value_2014  con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_
> peaceyrs_cub,  vce(cluster cowcode)"
    e(margins_est_cmd) : "probit"
    e(margins_predict) : "_no_predict"
     e(margins_mlist1) : "_cons"
 e(margins_emptycells) : "strict"
e(margins_derivatives) : "dy/dx"
      e(margins_xvars) : "0b.int_med_UN_New 1.int_med_UN_New"
e(margins_predict1_label) : "Pr(conflict_incidence)"
 e(margins_expression) : "predict()"
e(margins_predict_label) : "Pr(conflict_incidence)"
    e(margins_vcetype) : "Delta-method"
        e(margins_vce) : "delta"
e(margins_model_vcetype) : "Robust"
  e(margins_model_vce) : "cluster"
      e(margins_title) : "Average marginal effects"

added matrices:
         e(margins_PT) :  1 x 6
      e(margins_table) :  9 x 2
          e(margins_b) :  1 x 2
  e(margins_chainrule) :  1 x 3
         e(margins_se) :  1 x 2
   e(margins_Jacobian) :  2 x 18
      e(margins_error) :  1 x 2
         e(margins__N) :  1 x 2
```

```
e(margins_b)[1,2]
              0b.            1.
    int_med_UN~w  int_med_UN~w
y1             0    -.11152562



margins_b[1,2]
              0b.            1.
    int_med_UN~w  int_med_UN~w
y1             0    -.11152562



added scalar:
           e(N1Pa1Po1) =  -.11152562


e(margins_se)[1,2]
              0b.            1.
    int_med_UN~w  int_med_UN~w
r1             0     .05368195



margins_se[1,2]
              0b.            1.
    int_med_UN~w  int_med_UN~w
r1             0     .05368195



added scalar:
        e(N1Pa1Po1_se) =  .05368195



added scalar:
        e(N1Pa1Po1_LC) =  -.21674225



added scalar:
        e(N1Pa1Po1_HC) =  -.006309



Iteration 0:  Log pseudolikelihood = -1288.9193
Iteration 1:  Log pseudolikelihood = -660.24896
Iteration 2:  Log pseudolikelihood = -638.11048
Iteration 3:  Log pseudolikelihood = -636.68558
Iteration 4:  Log pseudolikelihood = -636.66713
Iteration 5:  Log pseudolikelihood = -636.66712

Probit regression                                 Number of obs =  1,958
```

```
                                                Wald chi2(16) =      .
                                                Prob > chi2   =      .
Log pseudolikelihood = -636.66712               Pseudo R2     = 0.5060

                                      (Std. err. adjusted for 54 clusters in cowcode)
------------------------------------------------------------------------------------------
                        |               Robust
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
------------------------+-----------------------------------------------------------------
             1.hyb_just |   .2110629   .2244647     0.94   0.347    -.2288799    .6510056
1.incl_p_con_soc_gender |  -.3782944     .22499    -1.68   0.093    -.8192667    .0626779
       1.int_med_UN_New |  -.5675953    .277662    -2.04   0.041    -1.111803   -.0233879
        PS_6_Dimensions |   .0617214   .0444219     1.39   0.165    -.0253439    .1487867
              al_ethnic |  -.3139881   .5623557    -0.56   0.577    -1.416185    .7882088
            cspv_ethwar |   .2349792   .1074764     2.19   0.029     .0243294     .445629
                dpi_pr |   .3209007   .2075187     1.55   0.122    -.0858285      .72763
          dpi_president |   1.095923   .3619388     3.03   0.002     .3865357     1.80531
              p_polity2 |  -.0840295   .0312094    -2.69   0.007    -.1451988   -.0228601
                        |
c.p_polity2#c.p_polity2 |   .0060871   .0069599     0.87   0.382    -.0075541    .0197284
                        |
   wdi_gdpcappppcon2011 |  -.0000303   .0000399    -0.76   0.448    -.0001084    .0000479
               wdi_pop |   1.85e-10   6.26e-10     0.30   0.767    -1.04e-09    1.41e-09
            wdi_forest |   .0065221   .0050408     1.29   0.196    -.0033576    .0164019
              brit_col |   .0511826   .3634728     0.14   0.888     -.661211    .7635762
    ross_oil_value_2014 |   4.16e-12   4.91e-12     0.85   0.397    -5.46e-12    1.38e-11
     con_incid_peaceyrs |  -1.510916   .2460361    -6.14   0.000    -1.993138   -1.028694
 con_incid_peaceyrs_sqd |   .3274481   .0866683     3.78   0.000     .1575813     .497315
 con_incid_peaceyrs_cub |  -.0216586   .0075628    -2.86   0.004    -.0364813   -.0068359
                  _cons |  -.6162653   .4593134    -1.34   0.180    -1.516503    .2839725
------------------------------------------------------------------------------------------


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:    -1288.919     Log-Lik Full Model:         -636.667
D(1936):                    1273.334     LR(16):                    1304.504
                                         Prob > LR:                    0.000
McFadden's R2:                 0.506     McFadden's Adj R2:            0.489
Maximum Likelihood R2:         0.486     Cragg & Uhler's R2:           0.664
McKelvey and Zavoina's R2:     0.699     Efron's R2:                   0.573
Variance of y*:                3.321     Variance of error:            1.000
Count R2:                      0.867     Adj Count R2:                 0.640
AIC:                           0.673     AIC*n:                     1317.334
BIC:                      -13400.924     BIC':                      -1183.230


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:    -1288.919     Log-Lik Full Model:         -636.667
D(1936):                    1273.334     LR(16):                    1304.504
                                         Prob > LR:                    0.000
McFadden's R2:                 0.506     McFadden's Adj R2:            0.489
Maximum Likelihood R2:         0.486     Cragg & Uhler's R2:           0.664
McKelvey and Zavoina's R2:     0.699     Efron's R2:                   0.573
Variance of y*:                3.321     Variance of error:            1.000
```

```
Count R2:                       0.867     Adj Count R2:                   0.640
AIC:                            0.673     AIC*n:                       1317.334
BIC:                       -13400.924     BIC':                       -1183.230

added scalars:
                  e(dev) =  1273.3342
               e(dev_df) =  1936
                 e(lrx2) =  1304.5044
              e(lrx2_df) =  16
               e(lrx2_p) =  5.42e-268
                e(r2_mf) =  .5060458
             e(r2_mfadj) =  .48897724
                e(r2_ml) =  .48636548
                e(r2_cu) =  .66448264
                e(r2_mz) =  .69889245
                e(r2_ef) =  .57344561
              e(v_ystar) =  3.3210725
              e(v_error) =  1
                e(r2_ct) =  .86721144
             e(r2_ctadj) =  .6398892
                 e(aic0) =  .67279583
                e(aic_n) =  1317.3342
                 e(bic0) =  -13400.924
                e(bic_p) =  -1183.2296
                e(n_rhs) =  21
               e(n_parm) =  22
```

```
use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"

* Double Interaction Effects
probit conflict_incidence ///
 i.hyb_just i.incl_p_con_soc_gender##i.int_med_UN_New ///
 PS_6_Dimensions ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub ,  vce(cluster cowcode)
fitstat
estadd fitstat

estimates store m_hjust_un_gender_int, title(Model 2)


margins, at(incl_p_con_soc_gender=0 int_med_UN_New=0) saving (file_gen0un0, replace)

margins, at(incl_p_con_soc_gender=1 int_med_UN_New=0) saving (file_gen1un0, replace)

margins, at(incl_p_con_soc_gender=0 int_med_UN_New=1) saving (file_gen0un1, replace)
```

```
margins, at(incl_p_con_soc_gender=1 int_med_UN_New=1) saving (file_gen1un1, replace)



*Export individual marginal effects for estimation Table 6
combomarginsplot file_gen0un0 file_gen1un0 file_gen0un1 file_gen1un1 , ///
title("") ///
xtitle("") xlabel(1 `""Women" "Inclusion=0" "UN-led Mediation=0""' ///
2 `""Women" "Inclusion=1" "UN-led Mediation=0""' ///
3 `""Women" "Inclusion=0" "UN-led Mediation=1""'  ///
4 `""Women" "Inclusion=1" "UN-led Mediation=1""' ///
) xsc(r(0.5 4.5)) ///
ylabel(-.1(.1).5) ysc(r(-.1(.1).5)) yline(0, lpattern(dash) lcolor(gs12)) ///
ytitle(Predicted Probability for Civil Wars (Incidences), size(normal)) ///
recast(scatter) plotopts(msiz(tiny) mc(gs4)) ciopts(lw(medthick)) ///
scheme(s1mono)
graph export "probit_gen_un_robustness_icrg.pdf", replace



/*
esttab m_hjust m_un m_gender m_hjust_un_gender m_hjust_un_gender_int ///
using probit-results-table-interaction-robustness-icrg.rtf, ///
replace style(tex) cells(b(star fmt(2)) se(par)) ///
stats(N N_clust ///
N1Pa1Po1_LC  N1Pa1Po1 N1Pa1Po1_HC ///
r2_p  r2_ct aic bic, ///
fmt(0 0 3 3 3 2 2 0 0) ///
labels(`"Observations"' `"Countries"' ///
`"\rowcolor{black!10} C.L."' ///
`"\rowcolor{black!20} "' ///
`"\rowcolor{black!10} C.H."' ///
`"Pseudo \(R^{2}\)"' `"Count \(R^{2}\)"' `"AIC"' `"BIC"')) ///
starlevels(+ 0.10 * 0.05 ** 0.01) ///
label ///
numbers ///
compress ///
nobaselevels ///
alignment(d) width(\hsize) nogaps lines ///
note("Note:+significant at 10\%; *significant at 5\%; **significant at 1\%. Clustered standard errors (cou
title(Probit Analysis of the Effects of Plural Justice, Women Inclusion and UN Mediation ///
(and Interaction) on the Risk of Violent Intrastate Conflicts (Robustness PS).)
*/
```

```
Iteration 0:  Log pseudolikelihood = -1288.9193
Iteration 1:  Log pseudolikelihood = -659.24469
Iteration 2:  Log pseudolikelihood =   -635.966
Iteration 3:  Log pseudolikelihood = -634.46103
Iteration 4:  Log pseudolikelihood =  -634.4458
Iteration 5:  Log pseudolikelihood =  -634.4458

Probit regression                                     Number of obs =  1,958
                                                      Wald chi2(17) =      .
                                                      Prob > chi2   =      .
Log pseudolikelihood = -634.4458                      Pseudo R2     = 0.5078
```

(Std. err. adjusted for 54 clusters in cowcode)

conflict_incidence	Coefficient	Robust std. err.	z	P>|z|	[95% conf.	interval]
1.hyb_just	.1232661	.2163654	0.57	0.569	-.3008023	.5473346
1.incl_p_con_soc_gender	-.1380309	.2062147	-0.67	0.503	-.5422042	.2661425
1.int_med_UN_New	-.4756594	.2536465	-1.88	0.061	-.9727975	.0214787
incl_p_con_soc_gender#int_med_UN_New						
1 1	-.7322376	.4760397	-1.54	0.124	-1.665258	.2007831
PS_6_Dimensions	.0599983	.0459239	1.31	0.191	-.030011	.1500075
al_ethnic	-.2907743	.5544852	-0.52	0.600	-1.377545	.7959967
cspv_ethwar	.2461744	.1073724	2.29	0.022	.0357284	.4566204
dpi_pr	.3300938	.2063635	1.60	0.110	-.0743711	.7345588
dpi_president	1.101387	.3532403	3.12	0.002	.4090489	1.793726
p_polity2	-.0814111	.0314167	-2.59	0.010	-.1429868	-.0198354
c.p_polity2#c.p_polity2	.00594	.0069761	0.85	0.395	-.0077329	.0196129
wdi_gdpcappppcon2011	-.0000296	.00004	-0.74	0.460	-.0001081	.0000489
wdi_pop	1.69e-10	6.14e-10	0.27	0.784	-1.04e-09	1.37e-09
wdi_forest	.0066715	.0050275	1.33	0.185	-.0031822	.0165252
brit_col	.0601197	.3683532	0.16	0.870	-.6618393	.7820787
ross_oil_value_2014	3.82e-12	4.92e-12	0.78	0.438	-5.82e-12	1.35e-11
con_incid_peaceyrs	-1.515554	.2461842	-6.16	0.000	-1.998066	-1.033042
con_incid_peaceyrs_sqd	.3284471	.0865653	3.79	0.000	.1587822	.4981119
con_incid_peaceyrs_cub	-.0217012	.0075559	-2.87	0.004	-.0365105	-.006892
_cons	-.6682642	.4532517	-1.47	0.140	-1.556621	.2200928

Measures of Fit for probit of conflict_incidence

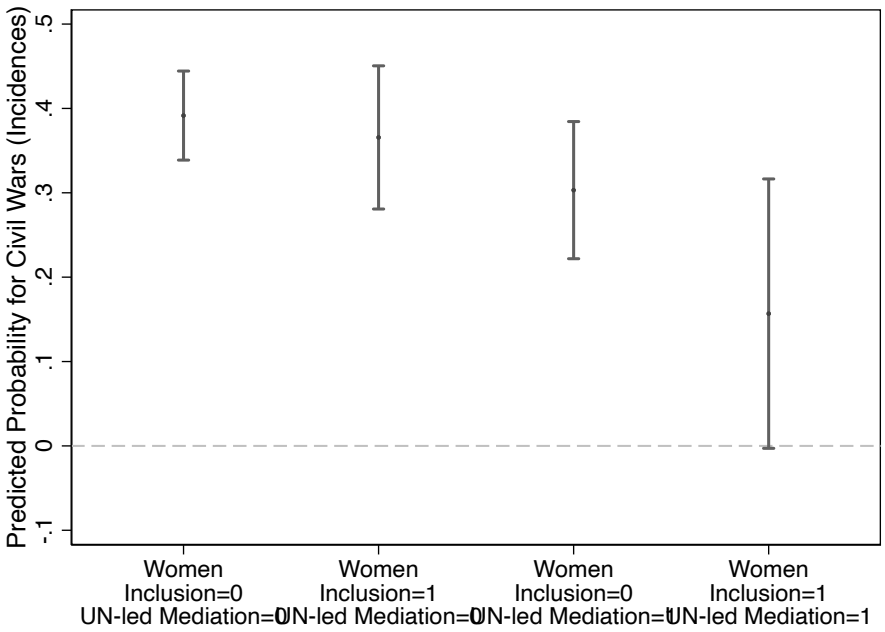
Log-Lik Intercept Only:	-1288.919	Log-Lik Full Model:	-634.446
D(1932):	1268.892	LR(17):	1308.947
		Prob > LR:	0.000
McFadden's R2:	0.508	McFadden's Adj R2:	0.488
Maximum Likelihood R2:	0.488	Cragg & Uhler's R2:	0.666
McKelvey and Zavoina's R2:	0.704	Efron's R2:	0.575
Variance of y*:	3.373	Variance of error:	1.000
Count R2:	0.864	Adj Count R2:	0.632
AIC:	0.675	AIC*n:	1320.892
BIC:	-13375.048	BIC':	-1180.093

Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:	-1288.919	Log-Lik Full Model:	-634.446
D(1932):	1268.892	LR(17):	1308.947
		Prob > LR:	0.000
McFadden's R2:	0.508	McFadden's Adj R2:	0.488
Maximum Likelihood R2:	0.488	Cragg & Uhler's R2:	0.666
McKelvey and Zavoina's R2:	0.704	Efron's R2:	0.575

```
Variance of y*:               3.373     Variance of error:            1.000
Count R2:                     0.864     Adj Count R2:                 0.632
AIC:                          0.675     AIC*n:                     1320.892
BIC:                      -13375.048    BIC':                      -1180.093

added scalars:
                e(dev) =  1268.8916
             e(dev_df) =  1932
               e(lrx2) =  1308.9471
            e(lrx2_df) =  17
             e(lrx2_p) =  5.53e-268
              e(r2_mf) =  .50776919
           e(r2_mfadj) =  .48759726
              e(r2_ml) =  .48752958
              e(r2_cu) =  .66607305
              e(r2_mz) =  .70351686
              e(r2_ef) =  .57511386
            e(v_ystar) =  3.3728731
            e(v_error) =  1
              e(r2_ct) =  .86414709
           e(r2_ctadj) =  .63157895
              e(aic0) =  .67461267
              e(aic_n) =  1320.8916
              e(bic0) =  -13375.048
              e(bic_p) =  -1180.0925
              e(n_rhs) =  25
             e(n_parm) =  26



Predictive margins                                      Number of obs = 1,958
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 0
    int_med_UN_New        = 0

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |   .3915279   .0269316    14.54   0.000      .338743    .4443129
------------------------------------------------------------------------------



Predictive margins                                      Number of obs = 1,958
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 1
    int_med_UN_New        = 0

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
```

```
       _cons |   .3656126   .0432954     8.44   0.000     .2807551    .4504701
------------------------------------------------------------------------------


Predictive margins                                      Number of obs = 1,958
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 0
    int_med_UN_New        = 1

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |   .3031412   .0414797     7.31   0.000     .2218425    .3844398
------------------------------------------------------------------------------


Predictive margins                                      Number of obs = 1,958
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 1
    int_med_UN_New        = 1

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |   .1567756   .0814547     1.92   0.054    -.0028727    .3164239
------------------------------------------------------------------------------


  Variables that uniquely identify margins: _filenumber
(note:  named style normal not found in class gsize, default attributes used)

file
    /Users/neudorfer/Library/CloudStorage/OneDrive-SharedLibraries-UniversityofBirmingham/Giudi
    > tta Fontana (Political Science and International Studies) - USIP - CW
    recurrence/Publications/Book USIP/Full Manuscript and Material for submission/Online
    material/probit_gen_un_robustness_icrg.pdf saved as PDF format
```


Predicted Probability for Civil Wars (Incidences)
-.1
0
.1
.2
.3
.4
.5
Women Inclusion=0 UN-led Mediation=0
Women Inclusion=1 UN-led Mediation=0
Women Inclusion=0 UN-led Mediation=1
Women Inclusion=1 UN-led Mediation=1

```
use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"

**********************************************************************
* Robustess Tests  Robustess Tests  Robustess Tests  Robustess Tests
* Robustess Tests  Robustess Tests  Robustess Tests  Robustess Tests
* Robustess Tests  Robustess Tests  Robustess Tests  Robustess Tests
* Robustess Tests  Robustess Tests  Robustess Tests  Robustess Tests
* Robustess Tests  Robustess Tests  Robustess Tests  Robustess Tests
**********************************************************************



**********************************************************************
* TSG and PS * TSG and PS * TSG and PS * TSG and PS * TSG and PS
**********************************************************************


* Single Effects - Plural Justice
probit conflict_incidence ///
 i.hyb_just ///
 TSG_dum ///
 PS_6_Dimensions ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 icrg_qog ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub, vce(cluster cowcode)
fitstat
estadd fitstat

***** For Margins ****
estadd margins, dydx(i.hyb_just) replace
matrix list e(margins_b)
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,2]
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,2]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC

estimates store m_hjust, title(Model 1)
```

```
* Single Effects - Gender
probit conflict_incidence ///
 i.incl_p_con_soc_gender ///
 TSG_dum ///
 PS_6_Dimensions ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 icrg_qog ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub,  vce(cluster cowcode)
fitstat
estadd fitstat

***** For Margins ****
estadd margins, dydx(i.incl_p_con_soc_gender) replace
matrix list e(margins_b)
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,2]
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,2]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC

estimates store m_gender, title(Model 2)
```

Robustness Regression 2: TSG and Powersharing

```
'/' not allowed in varlist
r(198);

r(198);
```

```
use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"

* Single Effects - UN
probit conflict_incidence ///
 i.int_med_UN_New ///
 TSG_dum ///
 PS_6_Dimensions ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president///
 c.p_polity2##c.p_polity2 ///
```

```
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 icrg_qog ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub,  vce(cluster cowcode)
fitstat
estadd fitstat

***** For Margins ****
estadd margins, dydx(i.int_med_UN_New) replace
matrix list e(margins_b)
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,2]
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,2]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC

estimates store m_un, title(Model 2)




* Single Effects of all Three
probit conflict_incidence ///
 i.hyb_just i.incl_p_con_soc_gender i.int_med_UN_New ///
 TSG_dum ///
 PS_6_Dimensions ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 icrg_qog ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub ,  vce(cluster cowcode)
fitstat
estadd fitstat

estimates store m_hjust_un_gender, title(Model 2)
```

```
'/' not allowed in varlist
r(198);
```

```
r(198);


use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"


* Double Interaction Effects
probit conflict_incidence ///
 i.hyb_just i.incl_p_con_soc_gender##i.int_med_UN_New ///
 TSG_dum ///
 PS_6_Dimensions ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 icrg_qog ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub ,  vce(cluster cowcode)
fitstat
estadd fitstat

///
***** For Margins ****
estadd margins, dydx(hyb_just) replace
matrix list e(margins_b)
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,2]
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,2]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC


estimates store m_hjust_un_gender_int, title(Model 2)


margins, at(incl_p_con_soc_gender=0 int_med_UN_New=0) saving (file_gen0un0, replace)
margins, at(incl_p_con_soc_gender=1 int_med_UN_New=0) saving (file_gen1un0, replace)
margins, at(incl_p_con_soc_gender=0 int_med_UN_New=1) saving (file_gen0un1, replace)
margins, at(incl_p_con_soc_gender=1 int_med_UN_New=1) saving (file_gen1un1, replace)


combomarginsplot file_gen0un0 file_gen1un0 file_gen0un1 file_gen1un1, ///
    title("") ///
    xtitle("") ///
```

```
    xlabel(1 `""Women" "Inclusion=0" "UN-led" "Mediation=0""' ///
    2 `""Women" "Inclusion=1" "UN-led" "Mediation=0""' ///
    3 `""Women" "Inclusion=0" "UN-led" "Mediation=1""' ///
    4 `""Women" "Inclusion=1" "UN-led" "Mediation=1""' ///
    ) ///
    xsc(r(0.5 4.5)) ///
    ylabel(-.1(.1).5) ///
    ysc(r(-.1(.1).5)) ///
    yline(0, lpattern(dash) lcolor(gs12)) ///
    ytitle("Predicted Probability for Civil Wars (Incidences)", size(normal)) ///
    recast(scatter) ///
    plotopts(msize(tiny) mcolor(gs4)) ///
    ciopts(lwidth(medthick)) ///
    scheme(s1mono)

graph export "probit_gen_un_robustness_tsg_ps.pdf", replace

/*
esttab m_hjust m_un m_gender m_hjust_un_gender m_hjust_un_gender_int  ///
using probit-results-table-interaction-robustness-tsg-ps.rtf, ///
replace style(tex) cells(b(star fmt(2)) se(par)) ///
stats(N N_clust ///
N1Pa1Po1_LC  N1Pa1Po1 N1Pa1Po1_HC ///
r2_p  r2_ct aic bic, ///
fmt(0 0 3 3 3 2 2 0 0) ///
labels(`"Observations"' `"Countries"' ///
`"\rowcolor{black!10} C.L."' ///
`"\rowcolor{black!20} "' ///
`"\rowcolor{black!10} C.H."' ///
`"Pseudo \(R^{2}\)"' `"Count \(R^{2}\)"' `"AIC"' `"BIC"')) ///
starlevels(+ 0.10 * 0.05 ** 0.01) ///
label ///
numbers ///
compress ///
nobaselevels ///
alignment(d) width(\hsize) nogaps lines ///
note("Note:+significant at 10\%; *significant at 5\%; **significant at 1\%. Clustered standard errors (cou
title(Probit Analysis of the Effects of Plural Justice, Women Inclusion and UN Mediation ///
(and Interaction) on the Risk of Violent Intrastate Conflicts (Robustness TSG).)
*/
```

```
Iteration 0:  Log pseudolikelihood = -984.47659
Iteration 1:  Log pseudolikelihood = -480.17163
Iteration 2:  Log pseudolikelihood = -451.09221
Iteration 3:  Log pseudolikelihood = -448.16621
Iteration 4:  Log pseudolikelihood = -448.15459
Iteration 5:  Log pseudolikelihood = -448.15459

Probit regression                                     Number of obs =  1,475
                                                      Wald chi2(19) =      .
                                                      Prob > chi2   =      .
Log pseudolikelihood = -448.15459                     Pseudo R2     = 0.5448

                                          (Std. err. adjusted for 40 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
```

```
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
------------------------+------------------------------------------------------------------
             1.hyb_just |   .1915109   .2615844     0.73   0.464    -.3211851    .7042068
1.incl_p_con_soc_gender |  -.2816484   .2097593    -1.34   0.179    -.6927691    .1294722
       1.int_med_UN_New |  -.9118426   .4716783    -1.93   0.053    -1.836315    .0126299
                        |
  incl_p_con_soc_gender#|
         int_med_UN_New |
                  1 1   |  -1.692639   .8185968    -2.07   0.039    -3.297059   -.0882184
                        |
                TSG_dum |    .181709   .2304792     0.79   0.430     -.270022      .63344
       PS_6_Dimensions  |  -.0174687   .0517302    -0.34   0.736    -.1188579    .0839206
             al_ethnic  |  -.3710373   .8365891    -0.44   0.657    -2.010722    1.268647
           cspv_ethwar  |   .3379143   .1495868     2.26   0.024     .0447295    .6310992
                dpi_pr  |   .1330319    .298574     0.45   0.656    -.4521624    .7182262
         dpi_president  |   1.722473    .751179     2.29   0.022     .2501888    3.194756
             p_polity2  |   -.080416   .0500302    -1.61   0.108    -.1784735    .0176415
                        |
c.p_polity2#c.p_polity2 |   .0061757   .0098389     0.63   0.530    -.0131082    .0254597
                        |
   wdi_gdpcappppcon2011 |  -.0000172   .0000571    -0.30   0.763    -.0001291    .0000946
              wdi_pop   |   3.42e-10   9.11e-10     0.38   0.708    -1.44e-09    2.13e-09
           wdi_forest   |   .0124831   .0076971     1.62   0.105     -.002603    .0275693
             brit_col   |   .1548017   .4426641     0.35   0.727     -.712804    1.022407
              icrg_qog  |  -.8288391    1.20153    -0.69   0.490    -3.183794    1.526116
    ross_oil_value_2014 |   2.97e-13   5.07e-12     0.06   0.953    -9.65e-12    1.02e-11
     con_incid_peaceyrs |  -1.483776   .2760497    -5.38   0.000    -2.024824   -.9427289
 con_incid_peaceyrs_sqd |   .3177198   .0910389     3.49   0.000     .1392868    .4961528
 con_incid_peaceyrs_cub |  -.0206063   .0076624    -2.69   0.007    -.0356243   -.0055882
                 _cons  |  -.9909749   .8407126    -1.18   0.239    -2.638741    .6567914
------------------------------------------------------------------------------------------
Note: 2 failures and 0 successes completely determined.


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -448.155
D(1447):                     896.309     LR(19):                    1072.644
                                         Prob > LR:                    0.000
McFadden's R2:                 0.545     McFadden's Adj R2:            0.516
Maximum Likelihood R2:         0.517     Cragg & Uhler's R2:           0.701
McKelvey and Zavoina's R2:     0.772     Efron's R2:                   0.610
Variance of y*:                4.384     Variance of error:            1.000
Count R2:                      0.877     Adj Count R2:                 0.683
AIC:                           0.646     AIC*n:                      952.309
BIC:                       -9661.601     BIC':                      -934.012


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -448.155
D(1447):                     896.309     LR(19):                    1072.644
                                         Prob > LR:                    0.000
McFadden's R2:                 0.545     McFadden's Adj R2:            0.516
Maximum Likelihood R2:         0.517     Cragg & Uhler's R2:           0.701
McKelvey and Zavoina's R2:     0.772     Efron's R2:                   0.610
```

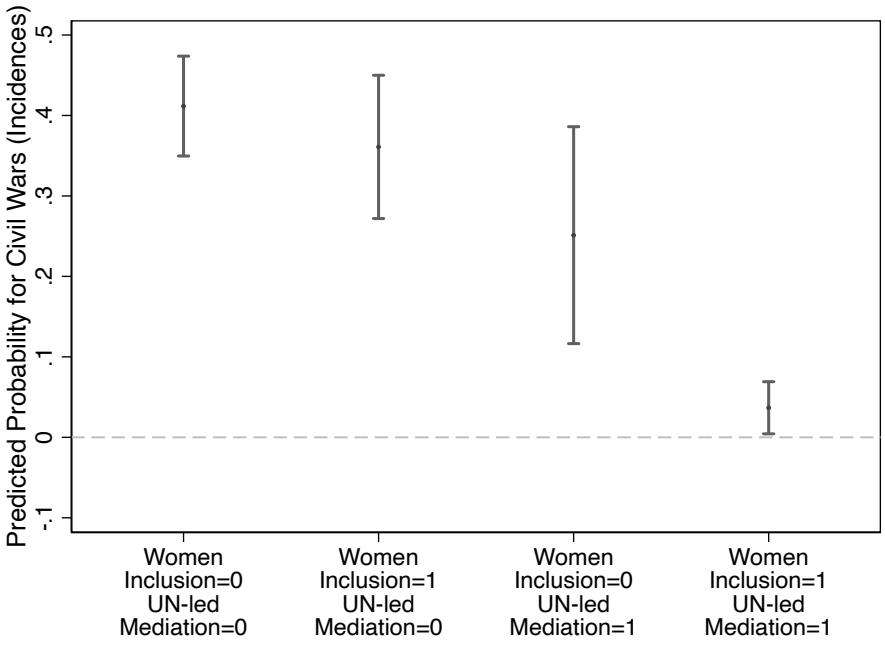
```
Variance of y*:               4.384     Variance of error:            1.000
Count R2:                     0.877     Adj Count R2:                 0.683
AIC:                          0.646     AIC*n:                      952.309
BIC:                      -9661.601     BIC':                      -934.012

added scalars:
                e(dev) =  896.30919
             e(dev_df) =  1447
               e(lrx2) =  1072.644
            e(lrx2_df) =  19
             e(lrx2_p) =  1.62e-215
              e(r2_mf) =  .54477882
           e(r2_mfadj) =  .51633731
              e(r2_ml) =  .51674764
              e(r2_cu) =  .70132981
              e(r2_mz) =  .77191346
              e(r2_ef) =  .61025689
            e(v_ystar) =  4.3843009
            e(v_error) =  1
              e(r2_ct) =  .87728814
           e(r2_ctadj) =  .68301226
               e(aic0) =  .64563335
              e(aic_n) =  952.30919
               e(bic0) =  -9661.6008
              e(bic_p) =  -934.01214
              e(n_rhs) =  27
             e(n_parm) =  28


Average marginal effects                                  Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
dy/dx wrt:  1.hyb_just

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
  1.hyb_just |   .0325099   .0446009     0.73   0.466    -.0549062     .119926
------------------------------------------------------------------------------
Note: dy/dx for factor levels is the discrete change from the base level.

added scalars:
      e(margins_level) =  95
e(margins_PT_has_legend) =  0
e(margins_PT_has_cnotes) =  0
e(margins_PT_k_ctitles) =  2
    e(margins_k_eform) =  1
    e(margins_k_mlist) =  1
       e(margins_k_at) =  0
       e(margins_k_by) =  1
  e(margins_k_predict) =  1
e(margins_outcomeIsEq1) =  0
       e(margins_j2_1) =  0
       e(margins_j1_1) =  0
```

```
     e(margins_deriv1) =  1
     e(margins_is_xb1) =  0
    e(margins_numeric) =  0
  e(margins_k_margins) =  0
          e(margins_N) =  1475

added macros:
  e(margins_marg_dims) : "_deriv"
 e(margins_put_tables) : "PT"
     e(margins_isloco) : "0"
   e(margins_PT_rseps) : "`""'"
  e(margins_PT_rnotes) : "`""'"
 e(margins_PT_raligns) : "`"right"'"
 e(margins_PT_rtitles) : "`"1.hyb_just"'"
e(margins_PT_cformats) : "`"%9.0g"' `"%9.0g"' `"%8.2f"' `"%5.3f"' `"%9.0g"' `"%9.0g"'"
 e(margins_PT_cspans2) : "`"1"' `"1"' `"1"' `"1"' `"2"' `"0"'"
e(margins_PT_ctitles2) : "`"dy/dx"' `"std. err."' `"z"' `"P>|z|"' `"[95% conf. interval]"' `""'"
 e(margins_PT_cspans1) : "`"1"' `"1"' `"1"' `"1"' `"1"' `"1"'"
e(margins_PT_ctitles1) : "`""' `"Delta-method"' `""' `""' `""' `""'"
     e(margins_citype) : "normal"
     e(margins_label1) : "(base)"
   e(margins_mcmethod) : "noadjust"
        e(margins_cmd) : "margins"
    e(margins_cmdline) : "margins , dydx(hyb_just)"
 e(margins_est_depvar) : "conflict_incidence"
e(margins_est_cmdline) : "probit conflict_incidence  i.hyb_just i.incl_p_con_soc_gender##i.int_me
> d_UN_New  TSG_dum  PS_6_Dimensions  al_ethnic   cspv_ethwar  dpi_pr dpi_president  c.p_polity2#
> #c.p_polity2  wdi_gdpcappppcon2011  wdi_pop  wdi_forest  brit_col  icrg_qog  ross_oil_value_201
> 4  con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub ,  vce(cluster cowcode)"
    e(margins_est_cmd) : "probit"
    e(margins_predict) : "_no_predict"
     e(margins_mlist1) : "_cons"
 e(margins_emptycells) : "strict"
e(margins_derivatives) : "dy/dx"
      e(margins_xvars) : "0b.hyb_just 1.hyb_just"
e(margins_predict1_label) : "Pr(conflict_incidence)"
 e(margins_expression) : "predict()"
e(margins_predict_label) : "Pr(conflict_incidence)"
    e(margins_vcetype) : "Delta-method"
        e(margins_vce) : "delta"
e(margins_model_vcetype) : "Robust"
  e(margins_model_vce) : "cluster"
      e(margins_title) : "Average marginal effects"

added matrices:
         e(margins_PT) :  1 x 6
      e(margins_table) :  9 x 2
          e(margins_b) :  1 x 2
  e(margins_chainrule) :  1 x 3
         e(margins_se) :  1 x 2
   e(margins_Jacobian) :  2 x 28
      e(margins_error) :  1 x 2
         e(margins__N) :  1 x 2


e(margins_b)[1,2]
```

```
          0b.        1.
    hyb_just  hyb_just
y1         0  .0325099



margins_b[1,2]
          0b.        1.
    hyb_just  hyb_just
y1         0  .0325099



added scalar:
           e(N1Pa1Po1) =  .0325099


e(margins_se)[1,2]
           0b.         1.
     hyb_just   hyb_just
r1          0  .04460087



margins_se[1,2]
           0b.         1.
     hyb_just   hyb_just
r1          0  .04460087



added scalar:
        e(N1Pa1Po1_se) =  .04460087



added scalar:
        e(N1Pa1Po1_LC) =  -.0549078



added scalar:
        e(N1Pa1Po1_HC) =  .1199276



Predictive margins                                      Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 0
    int_med_UN_New        = 0

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
```

```
-------------+----------------------------------------------------------------
       _cons |   .4116777    .031665    13.00   0.000     .3496154    .4737399
------------------------------------------------------------------------------


Predictive margins                                      Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 1
    int_med_UN_New        = 0

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |   .3609232   .0454266     7.95   0.000     .2718887    .4499577
------------------------------------------------------------------------------


Predictive margins                                      Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 0
    int_med_UN_New        = 1

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |   .2512476   .0687717     3.65   0.000     .1164577    .3860376
------------------------------------------------------------------------------


Predictive margins                                      Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 1
    int_med_UN_New        = 1

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |   .0367424   .0165333     2.22   0.026     .0043377    .0691471
------------------------------------------------------------------------------


  Variables that uniquely identify margins: _filenumber
(note:  named style normal not found in class gsize, default attributes used)

file
    /Users/neudorfer/Library/CloudStorage/OneDrive-SharedLibraries-UniversityofBirmingham/Giudi
    > tta Fontana (Political Science and International Studies) - USIP - CW
```

recurrence/Publications/Book USIP/Full Manuscript and Material for submission/Online material/probit_gen_un_robustness_tsg_ps.pdf saved as PDF format



```
use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"


**********************************************************************
* Robustess Tests  Robustess Tests  Robustess Tests  Robustess Tests
* Robustess Tests  Robustess Tests  Robustess Tests  Robustess Tests
* Robustess Tests  Robustess Tests  Robustess Tests  Robustess Tests
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**********************************************************************


**********************************************************************
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**********************************************************************

* Single Effects - Plural Justice
probit conflict_incidence ///
 i.hyb_just ///
 PS_6_Dimensions ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 icrg_qog ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub, vce(cluster cowcode)
fitstat
estadd fitstat

***** For Margins ****
estadd margins, dydx(i.hyb_just) replace
matrix list e(margins_b)
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,2]
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,2]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC

estimates store m_hjust, title(Model 1)
```

Robustness Regression 3: Powersharing

```
'/' not allowed in varlist
r(198);

r(198);
```

```
use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"

* Single Effects Gender

probit conflict_incidence ///
 i.incl_p_con_soc_gender ///
 PS_6_Dimensions ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 icrg_qog ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub,  vce(cluster cowcode)
fitstat
estadd fitstat

***** For Margins ****
estadd margins, dydx(i.incl_p_con_soc_gender) replace
matrix list e(margins_b)
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,2]
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,2]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC

estimates store m_gender, title(Model 2)



* Single Effects - UN
probit conflict_incidence ///
 i.int_med_UN_New ///
 PS_6_Dimensions ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
```

```
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 icrg_qog ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub,  vce(cluster cowcode)
fitstat
estadd fitstat

***** For Margins ****
estadd margins, dydx(i.int_med_UN_New) replace
matrix list e(margins_b)
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,2]
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,2]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC

estimates store m_un, title(Model 2)
```

```
Iteration 0:  Log pseudolikelihood = -984.47659
Iteration 1:  Log pseudolikelihood = -494.67123
Iteration 2:  Log pseudolikelihood = -475.34102
Iteration 3:  Log pseudolikelihood = -474.07519
Iteration 4:  Log pseudolikelihood = -474.06795
Iteration 5:  Log pseudolikelihood = -474.06795

Probit regression                                     Number of obs =  1,475
                                                      Wald chi2(15) =      .
                                                      Prob > chi2   =      .
Log pseudolikelihood = -474.06795                     Pseudo R2     = 0.5185

                                          (Std. err. adjusted for 40 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------------------+----------------------------------------------------------------
1.incl_p_con_soc_gender |  -.6409532   .2311479    -2.77   0.006    -1.093995   -.1879116
        PS_6_Dimensions |   .0440722   .0569988     0.77   0.439    -.0676434    .1557879
              al_ethnic |  -.3601363   .9536563    -0.38   0.706    -2.229268    1.508996
            cspv_ethwar |   .2700883   .1684099     1.60   0.109    -.0599891    .6001656
                dpi_pr  |  -.0157278   .3321525    -0.05   0.962    -.6667348    .6352791
          dpi_president |    1.82698   .8556029     2.14   0.033     .1500287     3.50393
              p_polity2 |  -.0832191   .0499126    -1.67   0.095    -.1810461    .0146078
                        |
c.p_polity2#c.p_polity2 |   .0055374   .0095931     0.58   0.564    -.0132648    .0243396
                        |
```

```
   wdi_gdpcappppcon2011 |   -.000028   .0000606    -0.46   0.644    -.0001469    .0000908
                wdi_pop |   8.97e-10   1.13e-09     0.80   0.426    -1.31e-09    3.11e-09
            wdi_forest |   .0131571   .0080431     1.64   0.102    -.0026071    .0289214
              brit_col |    .127053     .43933     0.29   0.772     -.734018     .988124
              icrg_qog |   .0654133   1.190461     0.05   0.956    -2.267848    2.398674
    ross_oil_value_2014 |   4.11e-12   5.42e-12     0.76   0.449    -6.52e-12    1.47e-11
     con_incid_peaceyrs |  -1.487346    .275935    -5.39   0.000    -2.028169    -.946523
 con_incid_peaceyrs_sqd |   .3123515   .0868467     3.60   0.000     .1421351    .4825679
 con_incid_peaceyrs_cub |   -.020008   .0072581    -2.76   0.006    -.0342336   -.0057824
                  _cons |  -1.386448   .8819094    -1.57   0.116    -3.114959    .3420623
------------------------------------------------------------------------------------------
Note: 1 failure and 0 successes completely determined.


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -474.068
D(1456):                     948.136     LR(15):                    1020.817
                                         Prob > LR:                    0.000
McFadden's R2:                 0.518     McFadden's Adj R2:            0.499
Maximum Likelihood R2:         0.499     Cragg & Uhler's R2:           0.678
McKelvey and Zavoina's R2:     0.716     Efron's R2:                   0.591
Variance of y*:                3.518     Variance of error:            1.000
Count R2:                      0.873     Adj Count R2:                 0.673
AIC:                           0.669     AIC*n:                      986.136
BIC:                       -9675.442     BIC':                      -911.371


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -474.068
D(1456):                     948.136     LR(15):                    1020.817
                                         Prob > LR:                    0.000
McFadden's R2:                 0.518     McFadden's Adj R2:            0.499
Maximum Likelihood R2:         0.499     Cragg & Uhler's R2:           0.678
McKelvey and Zavoina's R2:     0.716     Efron's R2:                   0.591
Variance of y*:                3.518     Variance of error:            1.000
Count R2:                      0.873     Adj Count R2:                 0.673
AIC:                           0.669     AIC*n:                      986.136
BIC:                       -9675.442     BIC':                      -911.371

added scalars:
                e(dev) =  948.1359
             e(dev_df) =  1456
               e(lrx2) =  1020.8173
            e(lrx2_df) =  15
             e(lrx2_p) =  4.65e-208
              e(r2_mf) =  .51845686
           e(r2_mfadj) =  .49915726
              e(r2_ml) =  .49946588
              e(r2_cu) =  .67787501
              e(r2_mz) =  .71572376
              e(r2_ef) =  .59104239
            e(v_ystar) =  3.5177052
            e(v_error) =  1
              e(r2_ct) =  .87322034
```

```
           e(r2_ctadj) =  .67250438
               e(aic0) =  .66856671
              e(aic_n) =  986.1359
               e(bic0) =  -9675.4418
              e(bic_p) =  -911.37108
              e(n_rhs) =  18
             e(n_parm) =  19


Average marginal effects                                    Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
dy/dx wrt:  1.incl_p_con_soc_gender

------------------------------------------------------------------------------
                             |            Delta-method
                             |      dy/dx   std. err.      z    P>|z|     [95% conf. interval]
-----------------------------+------------------------------------------------------------------
1.incl_p_con_soc_gender |  -.1155008   .0428788    -2.69   0.007    -.1995418   -.0314599
------------------------------------------------------------------------------
Note: dy/dx for factor levels is the discrete change from the base level.

added scalars:
      e(margins_level) =  95
e(margins_PT_has_legend) =  0
e(margins_PT_has_cnotes) =  0
e(margins_PT_k_ctitles) =  2
    e(margins_k_eform) =  1
    e(margins_k_mlist) =  1
       e(margins_k_at) =  0
       e(margins_k_by) =  1
  e(margins_k_predict) =  1
e(margins_outcomeIsEq1) =  0
       e(margins_j2_1) =  0
       e(margins_j1_1) =  0
     e(margins_deriv1) =  1
     e(margins_is_xb1) =  0
    e(margins_numeric) =  0
  e(margins_k_margins) =  0
          e(margins_N) =  1475

added macros:
  e(margins_marg_dims) : "_deriv"
 e(margins_put_tables) : "PT"
     e(margins_isloco) : "0"
   e(margins_PT_rseps) : "`""'"
  e(margins_PT_rnotes) : "`""'"
 e(margins_PT_raligns) : "`"right"'"
 e(margins_PT_rtitles) : "`"1.incl_p_con_soc_gender"'"
e(margins_PT_cformats) : "`"%9.0g"' `"%9.0g"' `"%8.2f"' `"%5.3f"' `"%9.0g"' `"%9.0g"'"
 e(margins_PT_cspans2) : "`"1"' `"1"' `"1"' `"1"' `"2"' `"0"'"
e(margins_PT_ctitles2) : "`"dy/dx"' `"std. err."' `"z"' `"P>|z|"' `"[95% conf. interval]"' `""'"
 e(margins_PT_cspans1) : "`"1"' `"1"' `"1"' `"1"' `"1"' `"1"'"
e(margins_PT_ctitles1) : "`""' `"Delta-method"' `""' `""' `""' `""'"
     e(margins_citype) : "normal"
```

```
     e(margins_label1) : "(base)"
   e(margins_mcmethod) : "noadjust"
        e(margins_cmd) : "margins"
    e(margins_cmdline) : "margins , dydx(i.incl_p_con_soc_gender)"
 e(margins_est_depvar) : "conflict_incidence"
e(margins_est_cmdline) : "probit conflict_incidence  i.incl_p_con_soc_gender  PS_6_Dimensions  al
> _ethnic   cspv_ethwar  dpi_pr dpi_president  c.p_polity2##c.p_polity2  wdi_gdpcappppcon2011  wd
> i_pop  wdi_forest  brit_col  icrg_qog  ross_oil_value_2014  con_incid_peaceyrs con_incid_peacey
> rs_sqd con_incid_peaceyrs_cub,  vce(cluster cowcode)"
    e(margins_est_cmd) : "probit"
    e(margins_predict) : "_no_predict"
     e(margins_mlist1) : "_cons"
 e(margins_emptycells) : "strict"
e(margins_derivatives) : "dy/dx"
      e(margins_xvars) : "0b.incl_p_con_soc_gender 1.incl_p_con_soc_gender"
e(margins_predict1_label) : "Pr(conflict_incidence)"
 e(margins_expression) : "predict()"
e(margins_predict_label) : "Pr(conflict_incidence)"
    e(margins_vcetype) : "Delta-method"
        e(margins_vce) : "delta"
e(margins_model_vcetype) : "Robust"
  e(margins_model_vce) : "cluster"
      e(margins_title) : "Average marginal effects"

added matrices:
         e(margins_PT) :  1 x 6
      e(margins_table) :  9 x 2
          e(margins_b) :  1 x 2
  e(margins_chainrule) :  1 x 3
         e(margins_se) :  1 x 2
   e(margins_Jacobian) :  2 x 19
      e(margins_error) :  1 x 2
         e(margins__N) :  1 x 2


e(margins_b)[1,2]
              0b.            1.
    incl_p_con~r  incl_p_con~r
y1             0    -.11550085



margins_b[1,2]
              0b.            1.
    incl_p_con~r  incl_p_con~r
y1             0    -.11550085



added scalar:
           e(N1Pa1Po1) =  -.11550085


e(margins_se)[1,2]
              0b.            1.
    incl_p_con~r  incl_p_con~r
```

```
r1              0     .04287885


margins_se[1,2]
              0b.            1.
    incl_p_con~r  incl_p_con~r
r1              0     .04287885


added scalar:
        e(N1Pa1Po1_se) =  .04287885


added scalar:
        e(N1Pa1Po1_LC) =  -.19954339


added scalar:
        e(N1Pa1Po1_HC) =  -.03145831


Iteration 0:  Log pseudolikelihood = -984.47659
Iteration 1:  Log pseudolikelihood = -482.13953
Iteration 2:  Log pseudolikelihood = -458.55886
Iteration 3:  Log pseudolikelihood = -457.27239
Iteration 4:  Log pseudolikelihood = -457.26448
Iteration 5:  Log pseudolikelihood = -457.26448

Probit regression                                       Number of obs =  1,475
                                                        Wald chi2(15) =      .
                                                        Prob > chi2   =      .
Log pseudolikelihood = -457.26448                       Pseudo R2     = 0.5355

                                          (Std. err. adjusted for 40 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------------------+----------------------------------------------------------------
       1.int_med_UN_New |   -1.17894   .5126916    -2.30   0.021    -2.183798   -.1740832
        PS_6_Dimensions |  -.0195646   .0462865    -0.42   0.673    -.1102844    .0711553
              al_ethnic |   -.551492   .8152897    -0.68   0.499     -2.14943    1.046447
            cspv_ethwar |   .2832203   .1364683     2.08   0.038     .0157474    .5506933
                 dpi_pr |   .1154515    .294151     0.39   0.695    -.4610739    .6919769
          dpi_president |   1.666037   .7208641     2.31   0.021     .2531697    3.078905
              p_polity2 |  -.0781664   .0486037    -1.61   0.108    -.1734279     .017095
                        |
c.p_polity2#c.p_polity2 |   .0060342   .0093852     0.64   0.520    -.0123605    .0244289
                        |
   wdi_gdpcappppcon2011 |   -.000021   .0000561    -0.37   0.709    -.0001309    .0000889
                wdi_pop |   6.50e-10   8.93e-10     0.73   0.467    -1.10e-09    2.40e-09
            wdi_forest |   .0121681   .0075007     1.62   0.105     -.002533    .0268691
```

```
              brit_col |   .1820571    .423236     0.43   0.667    -.6474702    1.011584
              icrg_qog |  -.8308693   1.217349    -0.68   0.495     -3.21683    1.555091
    ross_oil_value_2014 |   1.22e-12   5.05e-12     0.24   0.810    -8.68e-12    1.11e-11
     con_incid_peaceyrs |  -1.478102   .2749214    -5.38   0.000    -2.016938   -.9392657
 con_incid_peaceyrs_sqd |   .3152493   .0910378     3.46   0.001     .1368184    .4936801
 con_incid_peaceyrs_cub |  -.0204335   .0076439    -2.67   0.008    -.0354152   -.0054518
                  _cons |  -.7656841   .8042903    -0.95   0.341    -2.342064     .810696
------------------------------------------------------------------------------
Note: 1 failure and 0 successes completely determined.


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -457.264
D(1456):                     914.529     LR(15):                    1054.424
                                         Prob > LR:                    0.000
McFadden's R2:                 0.536     McFadden's Adj R2:            0.516
Maximum Likelihood R2:         0.511     Cragg & Uhler's R2:           0.693
McKelvey and Zavoina's R2:     0.739     Efron's R2:                   0.601
Variance of y*:                3.827     Variance of error:            1.000
Count R2:                      0.874     Adj Count R2:                 0.674
AIC:                           0.646     AIC*n:                      952.529
BIC:                       -9709.049     BIC':                      -944.978


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -457.264
D(1456):                     914.529     LR(15):                    1054.424
                                         Prob > LR:                    0.000
McFadden's R2:                 0.536     McFadden's Adj R2:            0.516
Maximum Likelihood R2:         0.511     Cragg & Uhler's R2:           0.693
McKelvey and Zavoina's R2:     0.739     Efron's R2:                   0.601
Variance of y*:                3.827     Variance of error:            1.000
Count R2:                      0.874     Adj Count R2:                 0.674
AIC:                           0.646     AIC*n:                      952.529
BIC:                       -9709.049     BIC':                      -944.978

added scalars:
                e(dev) =  914.52896
             e(dev_df) =  1456
               e(lrx2) =  1054.4242
            e(lrx2_df) =  15
             e(lrx2_p) =  2.89e-215
              e(r2_mf) =  .53552529
           e(r2_mfadj) =  .51622569
              e(r2_ml) =  .51074129
              e(r2_cu) =  .693178
              e(r2_mz) =  .73872141
              e(r2_ef) =  .60131002
            e(v_ystar) =  3.8273323
            e(v_error) =  1
              e(r2_ct) =  .87389831
           e(r2_ctadj) =  .67425569
               e(aic0) =  .64578235
              e(aic_n) =  952.52896
```

```
              e(bic0) =  -9709.0488
             e(bic_p) =  -944.97802
             e(n_rhs) =  18
            e(n_parm) =  19


Average marginal effects                                    Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
dy/dx wrt:  1.int_med_UN_New

------------------------------------------------------------------------------
                 |            Delta-method
                 |      dy/dx   std. err.      z    P>|z|     [95% conf. interval]
-----------------+------------------------------------------------------------
1.int_med_UN_New |  -.2087141   .0790151    -2.64   0.008    -.3635808   -.0538473
------------------------------------------------------------------------------
Note: dy/dx for factor levels is the discrete change from the base level.

added scalars:
      e(margins_level) =  95
e(margins_PT_has_legend) =  0
e(margins_PT_has_cnotes) =  0
e(margins_PT_k_ctitles) =  2
    e(margins_k_eform) =  1
    e(margins_k_mlist) =  1
       e(margins_k_at) =  0
       e(margins_k_by) =  1
  e(margins_k_predict) =  1
e(margins_outcomeIsEq1) =  0
       e(margins_j2_1) =  0
       e(margins_j1_1) =  0
     e(margins_deriv1) =  1
     e(margins_is_xb1) =  0
    e(margins_numeric) =  0
  e(margins_k_margins) =  0
          e(margins_N) =  1475

added macros:
  e(margins_marg_dims) : "_deriv"
 e(margins_put_tables) : "PT"
     e(margins_isloco) : "0"
   e(margins_PT_rseps) : "`""'"
  e(margins_PT_rnotes) : "`""'"
 e(margins_PT_raligns) : "`"right"'"
 e(margins_PT_rtitles) : "`"1.int_med_UN_New"'"
e(margins_PT_cformats) : "`"%9.0g"' `"%9.0g"' `"%8.2f"' `"%5.3f"' `"%9.0g"' `"%9.0g"'"
 e(margins_PT_cspans2) : "`"1"' `"1"' `"1"' `"1"' `"2"' `"0"'"
e(margins_PT_ctitles2) : "`"dy/dx"' `"std. err."' `"z"' `"P>|z|"' `"[95% conf. interval]"' `""'"
 e(margins_PT_cspans1) : "`"1"' `"1"' `"1"' `"1"' `"1"' `"1"'"
e(margins_PT_ctitles1) : "`""' `"Delta-method"' `""' `""' `""' `""'"
     e(margins_citype) : "normal"
     e(margins_label1) : "(base)"
   e(margins_mcmethod) : "noadjust"
        e(margins_cmd) : "margins"
```

```
    e(margins_cmdline) : "margins , dydx(i.int_med_UN_New)"
 e(margins_est_depvar) : "conflict_incidence"
e(margins_est_cmdline) : "probit conflict_incidence  i.int_med_UN_New  PS_6_Dimensions  al_ethnic
>    cspv_ethwar  dpi_pr dpi_president  c.p_polity2##c.p_polity2  wdi_gdpcappppcon2011  wdi_pop
> wdi_forest  brit_col  icrg_qog  ross_oil_value_2014  con_incid_peaceyrs con_incid_peaceyrs_sqd
> con_incid_peaceyrs_cub,  vce(cluster cowcode)"
    e(margins_est_cmd) : "probit"
    e(margins_predict) : "_no_predict"
     e(margins_mlist1) : "_cons"
 e(margins_emptycells) : "strict"
e(margins_derivatives) : "dy/dx"
      e(margins_xvars) : "0b.int_med_UN_New 1.int_med_UN_New"
e(margins_predict1_label) : "Pr(conflict_incidence)"
 e(margins_expression) : "predict()"
e(margins_predict_label) : "Pr(conflict_incidence)"
    e(margins_vcetype) : "Delta-method"
        e(margins_vce) : "delta"
e(margins_model_vcetype) : "Robust"
  e(margins_model_vce) : "cluster"
      e(margins_title) : "Average marginal effects"

added matrices:
         e(margins_PT) :  1 x 6
      e(margins_table) :  9 x 2
          e(margins_b) :  1 x 2
  e(margins_chainrule) :  1 x 3
         e(margins_se) :  1 x 2
   e(margins_Jacobian) :  2 x 19
      e(margins_error) :  1 x 2
         e(margins__N) :  1 x 2


e(margins_b)[1,2]
              0b.            1.
    int_med_UN~w  int_med_UN~w
y1             0    -.20871405



margins_b[1,2]
              0b.            1.
    int_med_UN~w  int_med_UN~w
y1             0    -.20871405



added scalar:
           e(N1Pa1Po1) =  -.20871405


e(margins_se)[1,2]
              0b.            1.
    int_med_UN~w  int_med_UN~w
r1             0     .07901511
```

```
margins_se[1,2]
              0b.            1.
    int_med_UN~w  int_med_UN~w
r1             0     .07901511



added scalar:
        e(N1Pa1Po1_se) =  .07901511



added scalar:
        e(N1Pa1Po1_LC) =  -.36358367



added scalar:
        e(N1Pa1Po1_HC) =  -.05384443
```

```
use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"


* Single Effects of all Three
probit conflict_incidence ///
 i.hyb_just i.incl_p_con_soc_gender i.int_med_UN_New ///
 PS_6_Dimensions ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 icrg_qog ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub ,  vce(cluster cowcode)
fitstat
estadd fitstat

estimates store m_hjust_un_gender, title(Model 2)



* Double Interaction Effects
probit conflict_incidence ///
 i.hyb_just i.incl_p_con_soc_gender##i.int_med_UN_New ///
 PS_6_Dimensions ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
```

```
 wdi_forest ///
 brit_col ///
 icrg_qog ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub ,  vce(cluster cowcode)
fitstat
estadd fitstat

estimates store m_hjust_un_gender_int, title(Model 2)


margins, at(incl_p_con_soc_gender=0 int_med_UN_New=0) saving (file_gen0un0, replace)
margins, at(incl_p_con_soc_gender=1 int_med_UN_New=0) saving (file_gen1un0, replace)
margins, at(incl_p_con_soc_gender=0 int_med_UN_New=1) saving (file_gen0un1, replace)
margins, at(incl_p_con_soc_gender=1 int_med_UN_New=1) saving (file_gen1un1, replace)



*Export individual marginal effects for estimation Table 6
combomarginsplot file_gen0un0 file_gen1un0 file_gen0un1 file_gen1un1 , ///
title("") ///
xtitle("") xlabel(1 `""Women" "Inclusion=0" "UN-led Mediation=0""' ///
2 `""Women" "Inclusion=1" "UN-led Mediation=0""' ///
3 `""Women" "Inclusion=0" "UN-led Mediation=1""'  ///
4 `""Women" "Inclusion=1" "UN-led Mediation=1""' ///
) xsc(r(0.5 4.5)) ///
ylabel(-.1(.1).5) ysc(r(-.1(.1).5)) yline(0, lpattern(dash) lcolor(gs12)) ///
ytitle(Predicted Probability for Civil Wars (Incidences), size(normal)) ///
recast(scatter) plotopts(msiz(tiny) mc(gs4)) ciopts(lw(medthick)) ///
scheme(s1mono)
graph export "probit_gen_un_robustness_ps.pdf", replace



/*
esttab m_hjust m_un m_gender m_hjust_un_gender m_hjust_un_gender_int ///
using probit-results-table-interaction-robustness-ps.rtf, ///
replace style(tex) cells(b(star fmt(2)) se(par)) ///
stats(N N_clust ///
N1Pa1Po1_LC  N1Pa1Po1 N1Pa1Po1_HC ///
r2_p  r2_ct aic bic, ///
fmt(0 0 3 3 3 2 2 0 0) ///
labels(`"Observations"' `"Countries"' ///
`"\rowcolor{black!10} C.L."' ///
`"\rowcolor{black!20} "' ///
`"\rowcolor{black!10} C.H."' ///
`"Pseudo \(R^{2}\)"' `"Count \(R^{2}\)"' `"AIC"' `"BIC"')) ///
starlevels(+ 0.10 * 0.05 ** 0.01) ///
label ///
numbers ///
compress ///
nobaselevels ///
alignment(d) width(\hsize) nogaps lines ///
note("Note:+significant at 10\%; *significant at 5\%; **significant at 1\%. Clustered standard errors (cou
title(Probit Analysis of the Effects of Plural Justice, Women Inclusion and UN Mediation ///
(and Interaction) on the Risk of Violent Intrastate Conflicts (Robustness PS).)
```

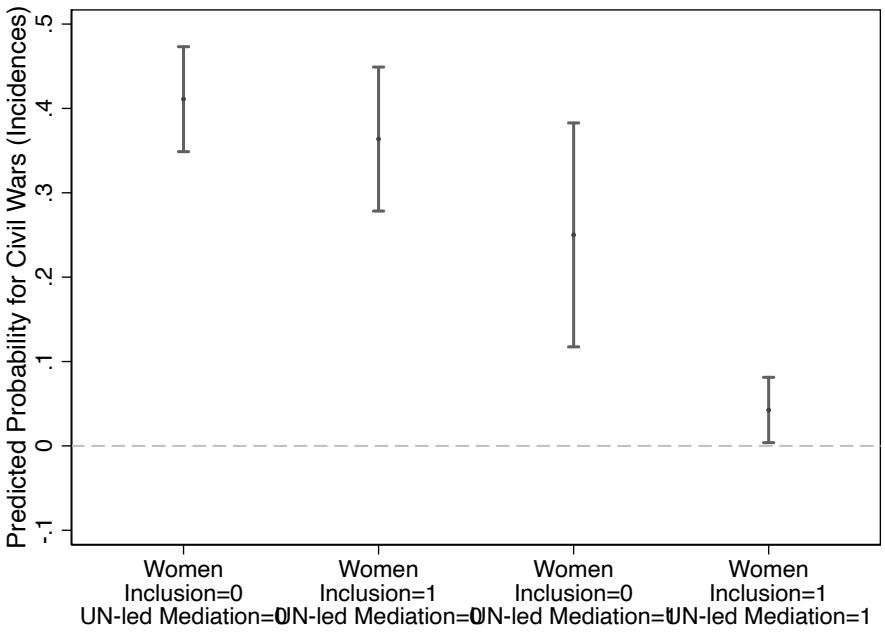
```
*/

Iteration 0:  Log pseudolikelihood = -984.47659
Iteration 1:  Log pseudolikelihood = -480.82126
Iteration 2:  Log pseudolikelihood = -454.64505
Iteration 3:  Log pseudolikelihood = -453.13293
Iteration 4:  Log pseudolikelihood = -453.12448
Iteration 5:  Log pseudolikelihood = -453.12448

Probit regression                                       Number of obs =  1,475
                                                        Wald chi2(17) =      .
                                                        Prob > chi2   =      .
Log pseudolikelihood = -453.12448                       Pseudo R2     = 0.5397

                                          (Std. err. adjusted for 40 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------------------+----------------------------------------------------------------
             1.hyb_just |   .3772905   .2525837     1.49   0.135    -.1177644    .8723454
1.incl_p_con_soc_gender |  -.5737785   .1818576    -3.16   0.002    -.9302127   -.2173442
       1.int_med_UN_New |  -1.141611   .4854424    -2.35   0.019    -2.093061   -.1901618
        PS_6_Dimensions |   .0051833   .0528996     0.10   0.922     -.098498    .1088646
              al_ethnic |  -.4821593   .8163819    -0.59   0.555    -2.082238     1.11792
            cspv_ethwar |   .3021884   .1358019     2.23   0.026     .0360217    .5683552
                dpi_pr |   .1237998   .2939086     0.42   0.674    -.4522505    .6998501
          dpi_president |   1.673835   .7083423     2.36   0.018     .2855091     3.06216
              p_polity2 |  -.0803421   .0489787    -1.64   0.101    -.1763386    .0156545
                        |
c.p_polity2#c.p_polity2 |   .0064477   .0095121     0.68   0.498    -.0121957     .025091
                        |
   wdi_gdpcappppcon2011 |  -.0000196   .0000563    -0.35   0.728    -.0001299    .0000908
               wdi_pop |   4.53e-10   8.60e-10     0.53   0.598    -1.23e-09    2.14e-09
            wdi_forest |   .0116794   .0074432     1.57   0.117    -.0029091    .0262679
              brit_col |   .1450254   .4283167     0.34   0.735    -.6944598    .9845106
              icrg_qog |  -.8656589   1.221798    -0.71   0.479    -3.260338    1.529021
    ross_oil_value_2014 |   1.46e-12   5.10e-12     0.29   0.775    -8.54e-12    1.15e-11
     con_incid_peaceyrs |  -1.472673   .2764911    -5.33   0.000    -2.014585     -.93076
 con_incid_peaceyrs_sqd |   .3133393   .0912258     3.43   0.001     .1345401    .4921385
 con_incid_peaceyrs_cub |   -.020287   .0076419    -2.65   0.008    -.0352648   -.0053092
                  _cons |  -.8054606    .804617    -1.00   0.317    -2.382481    .7715597
------------------------------------------------------------------------------------------


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -453.124
D(1452):                     906.249     LR(17):                    1062.704
                                         Prob > LR:                    0.000
McFadden's R2:                 0.540     McFadden's Adj R2:            0.516
Maximum Likelihood R2:         0.513     Cragg & Uhler's R2:           0.697
McKelvey and Zavoina's R2:     0.751     Efron's R2:                   0.604
Variance of y*:                4.014     Variance of error:            1.000
Count R2:                      0.872     Adj Count R2:                 0.669
AIC:                           0.646     AIC*n:                      952.249
BIC:                       -9688.143     BIC':                      -938.665
```

```
Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -453.124
D(1452):                     906.249     LR(17):                    1062.704
                                         Prob > LR:                    0.000
McFadden's R2:                 0.540     McFadden's Adj R2:            0.516
Maximum Likelihood R2:         0.513     Cragg & Uhler's R2:           0.697
McKelvey and Zavoina's R2:     0.751     Efron's R2:                   0.604
Variance of y*:                4.014     Variance of error:            1.000
Count R2:                      0.872     Adj Count R2:                 0.669
AIC:                           0.646     AIC*n:                      952.249
BIC:                       -9688.143     BIC':                      -938.665

added scalars:
                e(dev) =  906.24895
             e(dev_df) =  1452
               e(lrx2) =  1062.7042
            e(lrx2_df) =  17
             e(lrx2_p) =  3.44e-215
              e(r2_mf) =  .53973057
           e(r2_mfadj) =  .51636791
              e(r2_ml) =  .51348009
              e(r2_cu) =  .69689509
              e(r2_mz) =  .7508633
              e(r2_ef) =  .6040471
            e(v_ystar) =  4.0138606
            e(v_error) =  1
              e(r2_ct) =  .87186441
           e(r2_ctadj) =  .66900175
              e(aic0) =  .64559251
              e(aic_n) =  952.24895
               e(bic0) =  -9688.1431
              e(bic_p) =  -938.6652
              e(n_rhs) =  22
             e(n_parm) =  23



Iteration 0:  Log pseudolikelihood = -984.47659
Iteration 1:  Log pseudolikelihood = -480.29517
Iteration 2:  Log pseudolikelihood = -451.53875
Iteration 3:  Log pseudolikelihood = -448.72093
Iteration 4:  Log pseudolikelihood = -448.71002
Iteration 5:  Log pseudolikelihood = -448.71002

Probit regression                                     Number of obs =  1,475
                                                      Wald chi2(18) =      .
                                                      Prob > chi2   =      .
Log pseudolikelihood = -448.71002                     Pseudo R2     = 0.5442

                                          (Std. err. adjusted for 40 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
```

```
-----------------------+------------------------------------------------------------------
             1.hyb_just |   .2709414   .2440401     1.11   0.267    -.2073684    .7492513
1.incl_p_con_soc_gender |  -.2630295    .207559    -1.27   0.205    -.6698376    .1437786
       1.int_med_UN_New |  -.9160157    .464596    -1.97   0.049    -1.826607   -.0054243
                        |
  incl_p_con_soc_gender#|
         int_med_UN_New |
                  1 1   |  -1.564461   .7997569    -1.96   0.050    -3.131956    .0030336
                        |
        PS_6_Dimensions |  -.0075006   .0515946    -0.15   0.884    -.1086242     .093623
              al_ethnic |   -.394312   .8258906    -0.48   0.633    -2.013028    1.224404
             cspv_ethwar |   .3357666   .1486891     2.26   0.024     .0443412    .6271919
                 dpi_pr |   .1170546   .3010611     0.39   0.697    -.4730142    .7071235
          dpi_president |   1.663096   .7032898     2.36   0.018      .284673    3.041518
              p_polity2 |  -.0812625   .0496222    -1.64   0.101    -.1785202    .0159952
                        |
c.p_polity2#c.p_polity2 |   .0063333   .0096041     0.66   0.510    -.0124904    .0251569
                        |
   wdi_gdpcappppcon2011 |  -.0000187   .0000566    -0.33   0.741    -.0001297    .0000923
               wdi_pop |   3.74e-10   8.86e-10     0.42   0.673    -1.36e-09    2.11e-09
            wdi_forest |   .0122012   .0075978     1.61   0.108    -.0026902    .0270925
              brit_col |   .1215067    .435796     0.28   0.780    -.7326378    .9756511
               icrg_qog |  -.7706746   1.205219    -0.64   0.523    -3.132861    1.591512
    ross_oil_value_2014 |   1.03e-12   5.15e-12     0.20   0.841    -9.06e-12    1.11e-11
     con_incid_peaceyrs |  -1.477321    .275311    -5.37   0.000     -2.01692    -.937721
 con_incid_peaceyrs_sqd |   .3148691   .0908554     3.47   0.001     .1367957    .4929424
 con_incid_peaceyrs_cub |  -.0203806   .0076323    -2.67   0.008    -.0353397   -.0054215
                  _cons |  -.9051903    .808569    -1.12   0.263    -2.489956    .6795757
------------------------------------------------------------------------------------------
Note: 2 failures and 0 successes completely determined.


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -448.710
D(1448):                     897.420     LR(18):                    1071.533
                                         Prob > LR:                    0.000
McFadden's R2:                 0.544     McFadden's Adj R2:            0.517
Maximum Likelihood R2:         0.516     Cragg & Uhler's R2:           0.701
McKelvey and Zavoina's R2:     0.770     Efron's R2:                   0.610
Variance of y*:                4.346     Variance of error:            1.000
Count R2:                      0.879     Adj Count R2:                 0.687
AIC:                           0.645     AIC*n:                      951.420
BIC:                       -9667.786     BIC':                      -940.198


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -448.710
D(1448):                     897.420     LR(18):                    1071.533
                                         Prob > LR:                    0.000
McFadden's R2:                 0.544     McFadden's Adj R2:            0.517
Maximum Likelihood R2:         0.516     Cragg & Uhler's R2:           0.701
McKelvey and Zavoina's R2:     0.770     Efron's R2:                   0.610
Variance of y*:                4.346     Variance of error:            1.000
Count R2:                      0.879     Adj Count R2:                 0.687
```

```
AIC:                          0.645     AIC*n:                        951.420
BIC:                      -9667.786     BIC':                        -940.198

added scalars:
                e(dev) =  897.42003
             e(dev_df) =  1448
               e(lrx2) =  1071.5331
            e(lrx2_df) =  18
             e(lrx2_p) =  3.57e-216
              e(r2_mf) =  .54421464
           e(r2_mfadj) =  .5167889
              e(r2_ml) =  .51638355
              e(r2_cu) =  .70083568
              e(r2_mz) =  .76992147
              e(r2_ef) =  .60991501
            e(v_ystar) =  4.3463422
            e(v_error) =  1
              e(r2_ct) =  .87864407
           e(r2_ctadj) =  .68651489
              e(aic0) =  .64503053
              e(aic_n) =  951.42003
              e(bic0) =  -9667.7864
              e(bic_p) =  -940.19771
              e(n_rhs) =  26
             e(n_parm) =  27



Predictive margins                                      Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 0
    int_med_UN_New        = 0

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |   .4109528   .0317382    12.95   0.000     .3487471    .4731584
------------------------------------------------------------------------------


Predictive margins                                      Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 1
    int_med_UN_New        = 0

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |   .3636908   .0435386     8.35   0.000     .2783568    .4490248
------------------------------------------------------------------------------
```

```
Predictive margins                                      Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 0
    int_med_UN_New        = 1

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |      .2501   .0677085     3.69   0.000     .1173938    .3828063
------------------------------------------------------------------------------


Predictive margins                                      Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 1
    int_med_UN_New        = 1

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |   .0425745   .0197567     2.15   0.031     .0038521    .0812969
------------------------------------------------------------------------------


  Variables that uniquely identify margins: _filenumber
(note:  named style normal not found in class gsize, default attributes used)

file
    /Users/neudorfer/Library/CloudStorage/OneDrive-SharedLibraries-UniversityofBirmingham/Giudi
    > tta Fontana (Political Science and International Studies) - USIP - CW
    recurrence/Publications/Book USIP/Full Manuscript and Material for submission/Online
    material/probit_gen_un_robustness_ps.pdf saved as PDF format
```


Predicted Probability for Civil Wars (Incidences)
-.1
0
.1
.2
.3
.4
.5
Women Inclusion=0 UN-led Mediation=0
Women Inclusion=1 UN-led Mediation=0
Women Inclusion=0 UN-led Mediation=1
Women Inclusion=1 UN-led Mediation=1

```
use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"


**********************************************************************
* Robustess Tests  Robustess Tests  Robustess Tests  Robustess Tests
* Robustess Tests  Robustess Tests  Robustess Tests  Robustess Tests
* Robustess Tests  Robustess Tests  Robustess Tests  Robustess Tests
* Robustess Tests  Robustess Tests  Robustess Tests  Robustess Tests
* Robustess Tests  Robustess Tests  Robustess Tests  Robustess Tests
**********************************************************************

**********************************************************************
* TSG * TSG * TSG * TSG * TSG * TSG * TSG * TSG * TSG * TSG * TSG
**********************************************************************


* Single Effects - Plural Justice
probit conflict_incidence ///
 i.hyb_just ///
 TSG_dum ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 icrg_qog ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub, vce(cluster cowcode)

 fitstat
estadd fitstat

***** For Margins ****
estadd margins, dydx(i.hyb_just) replace
matrix list e(margins_b)
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,2]
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,2]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC

estimates store m_hjust, title(Model 1)
```

```
* Single Effects - Gender
probit conflict_incidence ///
 i.incl_p_con_soc_gender ///
 TSG_dum ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 icrg_qog ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub,  vce(cluster cowcode)
fitstat
estadd fitstat

***** For Margins ****
estadd margins, dydx(i.incl_p_con_soc_gender) replace
matrix list e(margins_b)
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,2]
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,2]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC

estimates store m_gender, title(Model 2)
```

Robustness Regression 4: TSG

```
Iteration 0:  Log pseudolikelihood = -984.47659
Iteration 1:  Log pseudolikelihood = -499.23203
Iteration 2:  Log pseudolikelihood = -481.56391
Iteration 3:  Log pseudolikelihood = -480.29295
Iteration 4:  Log pseudolikelihood = -480.28748
Iteration 5:  Log pseudolikelihood = -480.28748

Probit regression                                       Number of obs =  1,475
                                                        Wald chi2(15) =      .
                                                        Prob > chi2   =      .
Log pseudolikelihood = -480.28748                       Pseudo R2     = 0.5121

                                          (Std. err. adjusted for 40 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
```

```
-----------------------+------------------------------------------------------------------
             1.hyb_just |    .093322   .2126431     0.44   0.661    -.3234509    .5100948
                TSG_dum |  -.1697889   .2440687    -0.70   0.487    -.6481548     .308577
              al_ethnic |  -.4502695   .9677035    -0.47   0.642    -2.346934    1.446394
             cspv_ethwar |   .2481261   .1742248     1.42   0.154    -.0933481    .5896004
                 dpi_pr |  -.0290157   .3322086    -0.09   0.930    -.6801327    .6221012
          dpi_president |    1.76992   .8667204     2.04   0.041     .0711787     3.46866
              p_polity2 |  -.0832794   .0485268    -1.72   0.086    -.1783902    .0118313
                        |
c.p_polity2#c.p_polity2 |   .0046985   .0095184     0.49   0.622    -.0139572    .0233542
                        |
   wdi_gdpcappppcon2011 |  -.0000322   .0000607    -0.53   0.597    -.0001512    .0000869
                wdi_pop |   1.06e-09   1.16e-09     0.91   0.363    -1.22e-09    3.34e-09
             wdi_forest |   .0133901   .0082609     1.62   0.105    -.0028009    .0295811
               brit_col |   .1385012    .440812     0.31   0.753    -.7254745    1.002477
               icrg_qog |   .1289053   1.189592     0.11   0.914    -2.202652    2.460462
    ross_oil_value_2014 |   4.86e-12   5.50e-12     0.88   0.377    -5.93e-12    1.56e-11
     con_incid_peaceyrs |  -1.490047   .2696704    -5.53   0.000    -2.018592   -.9615031
 con_incid_peaceyrs_sqd |   .3130837   .0852342     3.67   0.000     .1460278    .4801397
 con_incid_peaceyrs_cub |  -.0201131   .0071986    -2.79   0.005     -.034222   -.0060042
                  _cons |   -1.24159   .8826169    -1.41   0.160    -2.971487    .4883076
-------------------------------------------------------------------------------------------
Note: 1 failure and 0 successes completely determined.


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -480.287
D(1456):                     960.575     LR(15):                    1008.378
                                         Prob > LR:                    0.000
McFadden's R2:                 0.512     McFadden's Adj R2:            0.493
Maximum Likelihood R2:         0.495     Cragg & Uhler's R2:           0.672
McKelvey and Zavoina's R2:     0.706     Efron's R2:                   0.589
Variance of y*:                3.399     Variance of error:            1.000
Count R2:                      0.874     Adj Count R2:                 0.674
AIC:                           0.677     AIC*n:                      998.575
BIC:                       -9663.003     BIC':                      -898.932


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -480.287
D(1456):                     960.575     LR(15):                    1008.378
                                         Prob > LR:                    0.000
McFadden's R2:                 0.512     McFadden's Adj R2:            0.493
Maximum Likelihood R2:         0.495     Cragg & Uhler's R2:           0.672
McKelvey and Zavoina's R2:     0.706     Efron's R2:                   0.589
Variance of y*:                3.399     Variance of error:            1.000
Count R2:                      0.874     Adj Count R2:                 0.674
AIC:                           0.677     AIC*n:                      998.575
BIC:                       -9663.003     BIC':                      -898.932

added scalars:
                e(dev) =  960.57496
             e(dev_df) =  1456
               e(lrx2) =  1008.3782
```

```
            e(lrx2_df) =  15
             e(lrx2_p) =  2.16e-205
              e(r2_mf) =  .51213926
           e(r2_mfadj) =  .49283966
              e(r2_ml) =  .4952269
              e(r2_cu) =  .67212187
              e(r2_mz) =  .70579273
              e(r2_ef) =  .58890851
            e(v_ystar) =  3.3989642
            e(v_error) =  1
              e(r2_ct) =  .87389831
           e(r2_ctadj) =  .67425569
               e(aic0) =  .67699997
              e(aic_n) =  998.57496
               e(bic0) =  -9663.0028
              e(bic_p) =  -898.93202
              e(n_rhs) =  18
             e(n_parm) =  19


Average marginal effects                                    Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
dy/dx wrt:  1.hyb_just

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
  1.hyb_just |   .0170304   .0388442     0.44   0.661    -.0591029    .0931636
------------------------------------------------------------------------------
Note: dy/dx for factor levels is the discrete change from the base level.

added scalars:
      e(margins_level) =  95
e(margins_PT_has_legend) =  0
e(margins_PT_has_cnotes) =  0
e(margins_PT_k_ctitles) =  2
    e(margins_k_eform) =  1
    e(margins_k_mlist) =  1
       e(margins_k_at) =  0
       e(margins_k_by) =  1
  e(margins_k_predict) =  1
e(margins_outcomeIsEq1) =  0
       e(margins_j2_1) =  0
       e(margins_j1_1) =  0
     e(margins_deriv1) =  1
     e(margins_is_xb1) =  0
    e(margins_numeric) =  0
  e(margins_k_margins) =  0
          e(margins_N) =  1475

added macros:
  e(margins_marg_dims) : "_deriv"
 e(margins_put_tables) : "PT"
```

```
     e(margins_isloco) : "0"
   e(margins_PT_rseps) : "`""'"
  e(margins_PT_rnotes) : "`""'"
 e(margins_PT_raligns) : "`"right"'"
 e(margins_PT_rtitles) : "`"1.hyb_just"'"
e(margins_PT_cformats) : "`"%9.0g"' `"%9.0g"' `"%8.2f"' `"%5.3f"' `"%9.0g"' `"%9.0g"'"
 e(margins_PT_cspans2) : "`"1"' `"1"' `"1"' `"1"' `"2"' `"0"'"
e(margins_PT_ctitles2) : "`"dy/dx"' `"std. err."' `"z"' `"P>|z|"' `"[95% conf. interval]"' `""'"
 e(margins_PT_cspans1) : "`"1"' `"1"' `"1"' `"1"' `"1"' `"1"'"
e(margins_PT_ctitles1) : "`""' `"Delta-method"' `""' `""' `""' `""'"
     e(margins_citype) : "normal"
     e(margins_label1) : "(base)"
   e(margins_mcmethod) : "noadjust"
        e(margins_cmd) : "margins"
    e(margins_cmdline) : "margins , dydx(i.hyb_just)"
 e(margins_est_depvar) : "conflict_incidence"
e(margins_est_cmdline) : "probit conflict_incidence  i.hyb_just  TSG_dum  al_ethnic   cspv_ethwar
>   dpi_pr dpi_president  c.p_polity2##c.p_polity2  wdi_gdpcappppcon2011  wdi_pop  wdi_forest  br
> it_col  icrg_qog  ross_oil_value_2014  con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peac
> eyrs_cub, vce(cluster cowcode)"
    e(margins_est_cmd) : "probit"
    e(margins_predict) : "_no_predict"
     e(margins_mlist1) : "_cons"
 e(margins_emptycells) : "strict"
e(margins_derivatives) : "dy/dx"
      e(margins_xvars) : "0b.hyb_just 1.hyb_just"
e(margins_predict1_label) : "Pr(conflict_incidence)"
 e(margins_expression) : "predict()"
e(margins_predict_label) : "Pr(conflict_incidence)"
    e(margins_vcetype) : "Delta-method"
        e(margins_vce) : "delta"
e(margins_model_vcetype) : "Robust"
  e(margins_model_vce) : "cluster"
      e(margins_title) : "Average marginal effects"

added matrices:
         e(margins_PT) :  1 x 6
      e(margins_table) :  9 x 2
          e(margins_b) :  1 x 2
  e(margins_chainrule) :  1 x 3
         e(margins_se) :  1 x 2
   e(margins_Jacobian) :  2 x 19
      e(margins_error) :  1 x 2
         e(margins__N) :  1 x 2


e(margins_b)[1,2]
           0b.         1.
     hyb_just   hyb_just
y1          0  .01703037



margins_b[1,2]
           0b.         1.
     hyb_just   hyb_just
```

```
y1          0  .01703037



added scalar:
           e(N1Pa1Po1) =  .01703037


e(margins_se)[1,2]
           0b.         1.
     hyb_just   hyb_just
r1          0  .03884421



margins_se[1,2]
           0b.         1.
     hyb_just   hyb_just
r1          0  .03884421



added scalar:
        e(N1Pa1Po1_se) =  .03884421



added scalar:
        e(N1Pa1Po1_LC) =  -.05910429



added scalar:
        e(N1Pa1Po1_HC) =  .09316503



Iteration 0:  Log pseudolikelihood = -984.47659
Iteration 1:  Log pseudolikelihood =  -495.3838
Iteration 2:  Log pseudolikelihood = -475.76868
Iteration 3:  Log pseudolikelihood = -474.43412
Iteration 4:  Log pseudolikelihood = -474.42656
Iteration 5:  Log pseudolikelihood = -474.42656

Probit regression                                       Number of obs =  1,475
                                                        Wald chi2(15) =      .
                                                        Prob > chi2   =      .
Log pseudolikelihood = -474.42656                       Pseudo R2     = 0.5181

                                          (Std. err. adjusted for 40 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------------------+----------------------------------------------------------------
1.incl_p_con_soc_gender |   -.634012   .2015938    -3.14   0.002    -1.029129   -.2388953
                TSG_dum |   .0750033   .2050525     0.37   0.715    -.3268922    .4768988
```

```
              al_ethnic |  -.3488442   .9754147    -0.36   0.721    -2.260622    1.562934
            cspv_ethwar |   .2681776   .1709385     1.57   0.117    -.0668556    .6032109
                 dpi_pr |   .0024101   .3339403     0.01   0.994    -.6521009    .6569211
           dpi_president |   1.849491   .9186655     2.01   0.044     .0489398    3.650042
              p_polity2 |  -.0852218   .0502421    -1.70   0.090    -.1836946     .013251
                        |
c.p_polity2#c.p_polity2 |   .0057065   .0097866     0.58   0.560     -.013475     .024888
                        |
   wdi_gdpcappppcon2011 |  -.0000308   .0000615    -0.50   0.616    -.0001513    .0000896
                wdi_pop |   8.84e-10   1.17e-09     0.75   0.451    -1.41e-09    3.18e-09
             wdi_forest |    .013491    .008255     1.63   0.102    -.0026884    .0296705
               brit_col |   .1462924    .439739     0.33   0.739    -.7155803    1.008165
               icrg_qog |   .0402159   1.202139     0.03   0.973    -2.315933    2.396364
    ross_oil_value_2014 |   4.12e-12   5.13e-12     0.80   0.422    -5.94e-12    1.42e-11
     con_incid_peaceyrs |  -1.486225   .2745664    -5.41   0.000    -2.024365   -.9480844
 con_incid_peaceyrs_sqd |   .3129155   .0868684     3.60   0.000     .1426565    .4831745
 con_incid_peaceyrs_cub |  -.0201019   .0072885    -2.76   0.006    -.0343871   -.0058167
                  _cons |   -1.38359   .9106531    -1.52   0.129    -3.168437    .4012577
------------------------------------------------------------------------------
Note: 1 failure and 0 successes completely determined.


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -474.427
D(1456):                     948.853     LR(15):                    1020.100
                                         Prob > LR:                    0.000
McFadden's R2:                 0.518     McFadden's Adj R2:            0.499
Maximum Likelihood R2:         0.499     Cragg & Uhler's R2:           0.678
McKelvey and Zavoina's R2:     0.717     Efron's R2:                   0.591
Variance of y*:                3.536     Variance of error:            1.000
Count R2:                      0.874     Adj Count R2:                 0.674
AIC:                           0.669     AIC*n:                      986.853
BIC:                       -9674.725     BIC':                      -910.654


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -474.427
D(1456):                     948.853     LR(15):                    1020.100
                                         Prob > LR:                    0.000
McFadden's R2:                 0.518     McFadden's Adj R2:            0.499
Maximum Likelihood R2:         0.499     Cragg & Uhler's R2:           0.678
McKelvey and Zavoina's R2:     0.717     Efron's R2:                   0.591
Variance of y*:                3.536     Variance of error:            1.000
Count R2:                      0.874     Adj Count R2:                 0.674
AIC:                           0.669     AIC*n:                      986.853
BIC:                       -9674.725     BIC':                      -910.654

added scalars:
               e(dev) =  948.85311
            e(dev_df) =  1456
              e(lrx2) =  1020.1001
           e(lrx2_df) =  15
            e(lrx2_p) =  6.62e-208
             e(r2_mf) =  .5180926
```

```
           e(r2_mfadj) =  .498793
              e(r2_ml) =  .49922244
              e(r2_cu) =  .67754461
              e(r2_mz) =  .71718751
              e(r2_ef) =  .59100051
            e(v_ystar) =  3.5359118
            e(v_error) =  1
              e(r2_ct) =  .87389831
           e(r2_ctadj) =  .67425569
               e(aic0) =  .66905296
              e(aic_n) =  986.85311
               e(bic0) =  -9674.7246
              e(bic_p) =  -910.65387
              e(n_rhs) =  18
            e(n_parm) =  19


Average marginal effects                                    Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
dy/dx wrt:  1.incl_p_con_soc_gender

------------------------------------------------------------------------------------------
                         |            Delta-method
                         |      dy/dx   std. err.      z    P>|z|     [95% conf. interval]
-------------------------+----------------------------------------------------------------
1.incl_p_con_soc_gender |  -.1144477   .0403736    -2.83   0.005    -.1935786   -.0353168
------------------------------------------------------------------------------------------
Note: dy/dx for factor levels is the discrete change from the base level.

added scalars:
      e(margins_level) =  95
e(margins_PT_has_legend) =  0
e(margins_PT_has_cnotes) =  0
e(margins_PT_k_ctitles) =  2
    e(margins_k_eform) =  1
    e(margins_k_mlist) =  1
       e(margins_k_at) =  0
       e(margins_k_by) =  1
  e(margins_k_predict) =  1
e(margins_outcomeIsEq1) =  0
       e(margins_j2_1) =  0
       e(margins_j1_1) =  0
     e(margins_deriv1) =  1
     e(margins_is_xb1) =  0
    e(margins_numeric) =  0
  e(margins_k_margins) =  0
          e(margins_N) =  1475

added macros:
  e(margins_marg_dims) : "_deriv"
 e(margins_put_tables) : "PT"
     e(margins_isloco) : "0"
   e(margins_PT_rseps) : "`""'"
  e(margins_PT_rnotes) : "`""'"
```

```
 e(margins_PT_raligns) : "`"right"'"
 e(margins_PT_rtitles) : "`"1.incl_p_con_soc_gender"'"
e(margins_PT_cformats) : "`"%9.0g"' `"%9.0g"' `"%8.2f"' `"%5.3f"' `"%9.0g"' `"%9.0g"'"
 e(margins_PT_cspans2) : "`"1"' `"1"' `"1"' `"1"' `"2"' `"0"'"
e(margins_PT_ctitles2) : "`"dy/dx"' `"std. err."' `"z"' `"P>|z|"' `"[95% conf. interval]"' `""'"
 e(margins_PT_cspans1) : "`"1"' `"1"' `"1"' `"1"' `"1"' `"1"'"
e(margins_PT_ctitles1) : "`""' `"Delta-method"' `""' `""' `""' `""'"
     e(margins_citype) : "normal"
     e(margins_label1) : "(base)"
   e(margins_mcmethod) : "noadjust"
        e(margins_cmd) : "margins"
    e(margins_cmdline) : "margins , dydx(i.incl_p_con_soc_gender)"
 e(margins_est_depvar) : "conflict_incidence"
e(margins_est_cmdline) : "probit conflict_incidence  i.incl_p_con_soc_gender  TSG_dum  al_ethnic
>   cspv_ethwar  dpi_pr dpi_president  c.p_polity2##c.p_polity2  wdi_gdpcappppcon2011  wdi_pop  w
> di_forest  brit_col  icrg_qog  ross_oil_value_2014  con_incid_peaceyrs con_incid_peaceyrs_sqd c
> on_incid_peaceyrs_cub,  vce(cluster cowcode)"
    e(margins_est_cmd) : "probit"
    e(margins_predict) : "_no_predict"
     e(margins_mlist1) : "_cons"
 e(margins_emptycells) : "strict"
e(margins_derivatives) : "dy/dx"
      e(margins_xvars) : "0b.incl_p_con_soc_gender 1.incl_p_con_soc_gender"
e(margins_predict1_label) : "Pr(conflict_incidence)"
 e(margins_expression) : "predict()"
e(margins_predict_label) : "Pr(conflict_incidence)"
    e(margins_vcetype) : "Delta-method"
        e(margins_vce) : "delta"
e(margins_model_vcetype) : "Robust"
  e(margins_model_vce) : "cluster"
      e(margins_title) : "Average marginal effects"

added matrices:
         e(margins_PT) :  1 x 6
      e(margins_table) :  9 x 2
          e(margins_b) :  1 x 2
  e(margins_chainrule) :  1 x 3
         e(margins_se) :  1 x 2
   e(margins_Jacobian) :  2 x 19
      e(margins_error) :  1 x 2
         e(margins__N) :  1 x 2


e(margins_b)[1,2]
              0b.            1.
    incl_p_con~r  incl_p_con~r
y1             0    -.11444769



margins_b[1,2]
              0b.            1.
    incl_p_con~r  incl_p_con~r
y1             0    -.11444769
```

```
added scalar:
           e(N1Pa1Po1) =  -.11444769


e(margins_se)[1,2]
              0b.            1.
    incl_p_con~r  incl_p_con~r
r1             0     .04037365



margins_se[1,2]
              0b.            1.
    incl_p_con~r  incl_p_con~r
r1             0     .04037365



added scalar:
        e(N1Pa1Po1_se) =  .04037365



added scalar:
        e(N1Pa1Po1_LC) =  -.19358004



added scalar:
        e(N1Pa1Po1_HC) =  -.03531534
```

```
use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"

* Single Effects - UN
probit conflict_incidence ///
 i.int_med_UN_New ///
 TSG_dum ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 icrg_qog ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub,  vce(cluster cowcode)
fitstat
estadd fitstat

***** For Margins ****
estadd margins, dydx(i.int_med_UN_New) replace
matrix list e(margins_b)
```

```
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,2]
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,2]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC

estimates store m_un, title(Model 2)




* Single Effects of all Three
probit conflict_incidence ///
 i.hyb_just i.incl_p_con_soc_gender i.int_med_UN_New ///
 TSG_dum ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 icrg_qog ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub ,  vce(cluster cowcode)
fitstat
estadd fitstat


estimates store m_hjust_un_gender, title(Model 2)



* Double Interaction Effects
probit conflict_incidence ///
 i.hyb_just i.incl_p_con_soc_gender##i.int_med_UN_New ///
 TSG_dum ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 icrg_qog ///
 ross_oil_value_2014 ///
```

```
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub ,  vce(cluster cowcode)
fitstat
estadd fitstat

estimates store m_hjust_un_gender_int, title(Model 2)


margins, at(incl_p_con_soc_gender=0 int_med_UN_New=0) saving (file_gen0un0, replace)
margins, at(incl_p_con_soc_gender=1 int_med_UN_New=0) saving (file_gen1un0, replace)
margins, at(incl_p_con_soc_gender=0 int_med_UN_New=1) saving (file_gen0un1, replace)
margins, at(incl_p_con_soc_gender=1 int_med_UN_New=1) saving (file_gen1un1, replace)



*Export individual marginal effects for estimation Table 6
combomarginsplot file_gen0un0 file_gen1un0 file_gen0un1 file_gen1un1 , ///
title("") ///
xtitle("") xlabel(1 `""Women" "Inclusion=0" "UN-led" "Mediation=0""' ///
2 `""Women" "Inclusion=1" "UN-led" "Mediation=0""' ///
3 `""Women" "Inclusion=0" "UN-led" "Mediation=1""'  ///
4 `""Women" "Inclusion=1" "UN-led" "Mediation=1""' ///
 ///
) xsc(r(0.5 4.5)) ///
ylabel(-.1(.1).5) ysc(r(-.1(.1).5)) yline(0, lpattern(dash) lcolor(gs12)) ///
ytitle(Predicted Probability for Civil Wars (Incidences), size(normal)) ///
recast(scatter) plotopts(msiz(tiny) mc(gs4)) ciopts(lw(medthick)) ///
scheme(s1mono)
graph export "probit_gen_un_robustness_tsg.pdf", replace



/*
esttab m_hjust m_un m_gender m_hjust_un_gender m_hjust_un_gender_int  ///
using probit-results-table-interaction-robustness-tsg.rtf, ///
replace style(tex) cells(b(star fmt(2)) se(par)) ///
stats(N N_clust ///
N1Pa1Po1_LC  N1Pa1Po1 N1Pa1Po1_HC ///
r2_p  r2_ct aic bic, ///
fmt(0 0 3 3 3 2 2 0 0) ///
labels(`"Observations"' `"Countries"' ///
`"\rowcolor{black!10} C.L."' ///
`"\rowcolor{black!20} "'  ///
`"\rowcolor{black!10} C.H."' ///
`"Pseudo \(R^{2}\)"' `"Count \(R^{2}\)"' `"AIC"' `"BIC"')) ///
starlevels(+ 0.10 * 0.05 ** 0.01) ///
label ///
numbers ///
compress ///
nobaselevels ///
alignment(d) width(\hsize) nogaps lines ///
note("Note:+significant at 10\%; *significant at 5\%; **significant at 1\%. Clustered standard errors (cou
title(Probit Analysis of the Effects of Plural Justice, Women Inclusion and UN Mediation ///
(and Interaction) on the Risk of Violent Intrastate Conflicts (Robustness TSG).)
*/
```

```
Iteration 0:  Log pseudolikelihood = -984.47659
```

```
Iteration 1:  Log pseudolikelihood = -482.13434
Iteration 2:  Log pseudolikelihood = -458.59862
Iteration 3:  Log pseudolikelihood =  -457.3665
Iteration 4:  Log pseudolikelihood = -457.35858
Iteration 5:  Log pseudolikelihood = -457.35858

Probit regression                                     Number of obs =  1,475
                                                      Wald chi2(15) =      .
                                                      Prob > chi2   =      .
Log pseudolikelihood = -457.35858                     Pseudo R2     = 0.5354

                                          (Std. err. adjusted for 40 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------------------+----------------------------------------------------------------
       1.int_med_UN_New |  -1.174891    .499321    -2.35   0.019    -2.153542   -.1962397
                TSG_dum |   .0055571   .1778947     0.03   0.975    -.3431101    .3542243
              al_ethnic |  -.5575586   .8065007    -0.69   0.489    -2.138271    1.023154
            cspv_ethwar |   .2830344   .1361116     2.08   0.038     .0162607    .5498082
                 dpi_pr |   .1085276   .2931181     0.37   0.711    -.4659734    .6830286
          dpi_president |   1.676891   .7288516     2.30   0.021     .2483685    3.105414
              p_polity2 |  -.0766423   .0487804    -1.57   0.116    -.1722502    .0189656
                        |
c.p_polity2#c.p_polity2 |   .0057985   .0095824     0.61   0.545    -.0129825    .0245796
                        |
   wdi_gdpcappppcon2011 |  -.0000194   .0000546    -0.36   0.722    -.0001265    .0000876
                wdi_pop |   6.60e-10   8.84e-10     0.75   0.455    -1.07e-09    2.39e-09
            wdi_forest |   .0120721   .0075192     1.61   0.108    -.0026653    .0268094
              brit_col |   .1802838   .4265369     0.42   0.673    -.6557132    1.016281
               icrg_qog |  -.8206196    1.21512    -0.68   0.499    -3.202211    1.560972
    ross_oil_value_2014 |   1.03e-12   4.80e-12     0.21   0.831    -8.38e-12    1.04e-11
     con_incid_peaceyrs |  -1.480577    .270766    -5.47   0.000    -2.011269   -.9498855
 con_incid_peaceyrs_sqd |   .3156936   .0901167     3.50   0.000      .139068    .4923192
 con_incid_peaceyrs_cub |  -.0204421   .0076175    -2.68   0.007    -.0353721   -.0055122
                  _cons |  -.7931658   .8056969    -0.98   0.325    -2.372303    .7859711
------------------------------------------------------------------------------------------


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -457.359
D(1456):                     914.717     LR(15):                    1054.236
                                         Prob > LR:                    0.000
McFadden's R2:                 0.535     McFadden's Adj R2:            0.516
Maximum Likelihood R2:         0.511     Cragg & Uhler's R2:           0.693
McKelvey and Zavoina's R2:     0.738     Efron's R2:                   0.601
Variance of y*:                3.816     Variance of error:            1.000
Count R2:                      0.873     Adj Count R2:                 0.673
AIC:                           0.646     AIC*n:                      952.717
BIC:                       -9708.861     BIC':                      -944.790


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -457.359
```

```
D(1456):                      914.717     LR(15):                     1054.236
                                          Prob > LR:                     0.000
McFadden's R2:                  0.535     McFadden's Adj R2:             0.516
Maximum Likelihood R2:          0.511     Cragg & Uhler's R2:            0.693
McKelvey and Zavoina's R2:      0.738     Efron's R2:                    0.601
Variance of y*:                 3.816     Variance of error:             1.000
Count R2:                       0.873     Adj Count R2:                  0.673
AIC:                            0.646     AIC*n:                       952.717
BIC:                         -9708.861    BIC':                       -944.790

added scalars:
                e(dev) =  914.71715
             e(dev_df) =  1456
               e(lrx2) =  1054.236
            e(lrx2_df) =  15
             e(lrx2_p) =  3.17e-215
              e(r2_mf) =  .53542971
           e(r2_mfadj) =  .51613011
              e(r2_ml) =  .51067887
              e(r2_cu) =  .69309328
              e(r2_mz) =  .73796385
              e(r2_ef) =  .60101478
            e(v_ystar) =  3.8162674
            e(v_error) =  1
              e(r2_ct) =  .87322034
           e(r2_ctadj) =  .67250438
               e(aic0) =  .64590993
              e(aic_n) =  952.71715
               e(bic0) =  -9708.8606
              e(bic_p) =  -944.78983
              e(n_rhs) =  18
             e(n_parm) =  19


Average marginal effects                                  Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
dy/dx wrt:  1.int_med_UN_New

------------------------------------------------------------------------------
                 |            Delta-method
                 |      dy/dx   std. err.      z    P>|z|     [95% conf. interval]
-----------------+------------------------------------------------------------------
1.int_med_UN_New |  -.2080453   .0769481    -2.70   0.007    -.3588609   -.0572297
------------------------------------------------------------------------------
Note: dy/dx for factor levels is the discrete change from the base level.

added scalars:
      e(margins_level) =  95
e(margins_PT_has_legend) =  0
e(margins_PT_has_cnotes) =  0
e(margins_PT_k_ctitles) =  2
    e(margins_k_eform) =  1
    e(margins_k_mlist) =  1
       e(margins_k_at) =  0
```

```
       e(margins_k_by) =  1
  e(margins_k_predict) =  1
e(margins_outcomeIsEq1) =  0
       e(margins_j2_1) =  0
       e(margins_j1_1) =  0
     e(margins_deriv1) =  1
     e(margins_is_xb1) =  0
    e(margins_numeric) =  0
  e(margins_k_margins) =  0
          e(margins_N) =  1475

added macros:
  e(margins_marg_dims) : "_deriv"
 e(margins_put_tables) : "PT"
     e(margins_isloco) : "0"
   e(margins_PT_rseps) : "`""'"
  e(margins_PT_rnotes) : "`""'"
 e(margins_PT_raligns) : "`"right"'"
 e(margins_PT_rtitles) : "`"1.int_med_UN_New"'"
e(margins_PT_cformats) : "`"%9.0g"' `"%9.0g"' `"%8.2f"' `"%5.3f"' `"%9.0g"' `"%9.0g"'"
 e(margins_PT_cspans2) : "`"1"' `"1"' `"1"' `"1"' `"2"' `"0"'"
e(margins_PT_ctitles2) : "`"dy/dx"' `"std. err."' `"z"' `"P>|z|"' `"[95% conf. interval]"' `""'"
 e(margins_PT_cspans1) : "`"1"' `"1"' `"1"' `"1"' `"1"' `"1"'"
e(margins_PT_ctitles1) : "`""' `"Delta-method"' `""' `""' `""' `""'"
     e(margins_citype) : "normal"
     e(margins_label1) : "(base)"
   e(margins_mcmethod) : "noadjust"
        e(margins_cmd) : "margins"
    e(margins_cmdline) : "margins , dydx(i.int_med_UN_New)"
 e(margins_est_depvar) : "conflict_incidence"
e(margins_est_cmdline) : "probit conflict_incidence  i.int_med_UN_New  TSG_dum  al_ethnic   cspv_
> ethwar  dpi_pr dpi_president  c.p_polity2##c.p_polity2  wdi_gdpcappppcon2011  wdi_pop  wdi_fore
> st  brit_col  icrg_qog  ross_oil_value_2014  con_incid_peaceyrs con_incid_peaceyrs_sqd con_inci
> d_peaceyrs_cub,  vce(cluster cowcode)"
    e(margins_est_cmd) : "probit"
    e(margins_predict) : "_no_predict"
     e(margins_mlist1) : "_cons"
 e(margins_emptycells) : "strict"
e(margins_derivatives) : "dy/dx"
      e(margins_xvars) : "0b.int_med_UN_New 1.int_med_UN_New"
e(margins_predict1_label) : "Pr(conflict_incidence)"
 e(margins_expression) : "predict()"
e(margins_predict_label) : "Pr(conflict_incidence)"
    e(margins_vcetype) : "Delta-method"
        e(margins_vce) : "delta"
e(margins_model_vcetype) : "Robust"
  e(margins_model_vce) : "cluster"
      e(margins_title) : "Average marginal effects"

added matrices:
         e(margins_PT) :  1 x 6
      e(margins_table) :  9 x 2
          e(margins_b) :  1 x 2
  e(margins_chainrule) :  1 x 3
         e(margins_se) :  1 x 2
   e(margins_Jacobian) :  2 x 19
```

```
      e(margins_error) :  1 x 2
         e(margins__N) :  1 x 2


e(margins_b)[1,2]
              0b.            1.
    int_med_UN~w  int_med_UN~w
y1             0    -.20804532



margins_b[1,2]
              0b.            1.
    int_med_UN~w  int_med_UN~w
y1             0    -.20804532



added scalar:
           e(N1Pa1Po1) =  -.20804532


e(margins_se)[1,2]
              0b.            1.
    int_med_UN~w  int_med_UN~w
r1             0     .07694814



margins_se[1,2]
              0b.            1.
    int_med_UN~w  int_med_UN~w
r1             0     .07694814



added scalar:
        e(N1Pa1Po1_se) =  .07694814



added scalar:
        e(N1Pa1Po1_LC) =  -.35886367



added scalar:
        e(N1Pa1Po1_HC) =  -.05722698



Iteration 0:  Log pseudolikelihood = -984.47659
Iteration 1:  Log pseudolikelihood = -480.82636
Iteration 2:  Log pseudolikelihood = -454.57194
Iteration 3:  Log pseudolikelihood =  -453.0587
Iteration 4:  Log pseudolikelihood = -453.05024
```

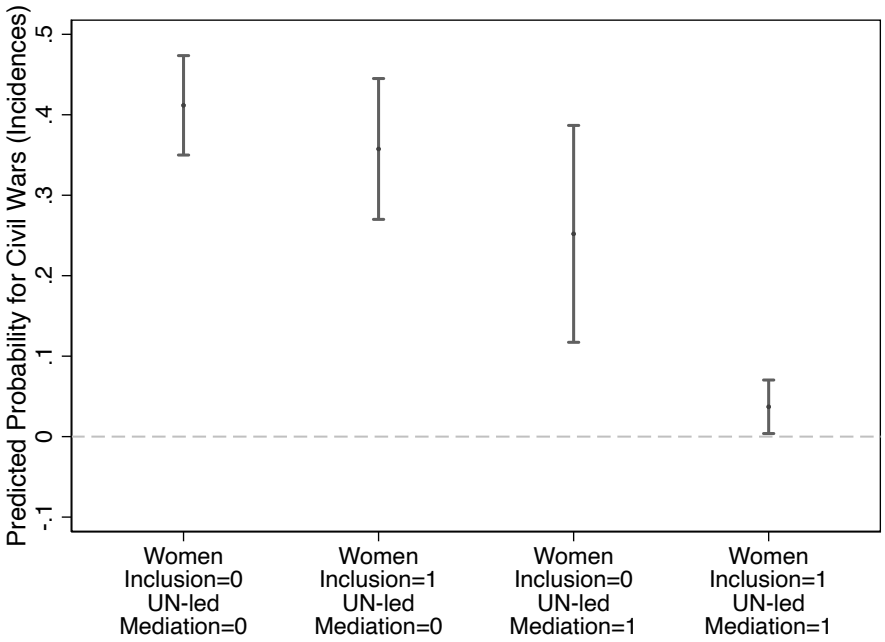
```
Iteration 5:  Log pseudolikelihood = -453.05024

Probit regression                                       Number of obs =  1,475
                                                        Wald chi2(17) =      .
                                                        Prob > chi2   =      .
Log pseudolikelihood = -453.05024                       Pseudo R2     = 0.5398

                                          (Std. err. adjusted for 40 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------------------+----------------------------------------------------------------
             1.hyb_just |   .3538847   .2649236     1.34   0.182    -.1653562    .8731255
1.incl_p_con_soc_gender |  -.5878813   .1748912    -3.36   0.001    -.9306618   -.2451007
       1.int_med_UN_New |  -1.148828   .4843468    -2.37   0.018     -2.09813   -.1995256
                TSG_dum |    .065078   .2084795     0.31   0.755    -.3435343    .4736904
              al_ethnic |  -.4763869   .8185936    -0.58   0.561    -2.080801    1.128027
            cspv_ethwar |   .3019462   .1359892     2.22   0.026     .0354124    .5684801
                 dpi_pr |   .1306167   .2961393     0.44   0.659    -.4498056     .711039
          dpi_president |   1.692999   .7295692     2.32   0.020     .2630699    3.122929
              p_polity2 |  -.0800649   .0493144    -1.62   0.104    -.1767195    .0165896
                        |
c.p_polity2#c.p_polity2 |   .0063986    .009698     0.66   0.509    -.0126092    .0254064
                        |
   wdi_gdpcappppcon2011 |  -.0000192   .0000558    -0.34   0.731    -.0001285    .0000902
                wdi_pop |   4.41e-10   8.67e-10     0.51   0.611    -1.26e-09    2.14e-09
            wdi_forest |   .0117674   .0075344     1.56   0.118    -.0029998    .0265346
              brit_col |   .1584407   .4331619     0.37   0.715    -.6905411    1.007422
              icrg_qog |  -.8922523   1.219088    -0.73   0.464    -3.281621    1.497116
    ross_oil_value_2014 |   1.21e-12   4.92e-12     0.25   0.806    -8.43e-12    1.08e-11
     con_incid_peaceyrs |  -1.474605   .2742367    -5.38   0.000    -2.012099   -.9371104
 con_incid_peaceyrs_sqd |   .3142832   .0909393     3.46   0.001     .1360454     .492521
 con_incid_peaceyrs_cub |  -.0203654   .0076586    -2.66   0.008     -.035376   -.0053547
                  _cons |  -.8282768   .8170016    -1.01   0.311     -2.42957    .7730168
------------------------------------------------------------------------------------------


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -453.050
D(1452):                     906.100     LR(17):                    1062.853
                                         Prob > LR:                    0.000
McFadden's R2:                 0.540     McFadden's Adj R2:            0.516
Maximum Likelihood R2:         0.514     Cragg & Uhler's R2:           0.697
McKelvey and Zavoina's R2:     0.751     Efron's R2:                   0.604
Variance of y*:                4.018     Variance of error:            1.000
Count R2:                      0.872     Adj Count R2:                 0.669
AIC:                           0.645     AIC*n:                      952.100
BIC:                       -9688.292     BIC':                      -938.814


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -453.050
D(1452):                     906.100     LR(17):                    1062.853
                                         Prob > LR:                    0.000
```

```
McFadden's R2:                 0.540     McFadden's Adj R2:             0.516
Maximum Likelihood R2:         0.514     Cragg & Uhler's R2:            0.697
McKelvey and Zavoina's R2:     0.751     Efron's R2:                    0.604
Variance of y*:                4.018     Variance of error:             1.000
Count R2:                      0.872     Adj Count R2:                  0.669
AIC:                           0.645     AIC*n:                       952.100
BIC:                       -9688.292     BIC':                       -938.814

added scalars:
                e(dev) =  906.10048
             e(dev_df) =  1452
               e(lrx2) =  1062.8527
            e(lrx2_df) =  17
             e(lrx2_p) =  3.19e-215
              e(r2_mf) =  .53980598
           e(r2_mfadj) =  .51644331
              e(r2_ml) =  .51352906
              e(r2_cu) =  .69696155
              e(r2_mz) =  .75114316
              e(r2_ef) =  .60407669
            e(v_ystar) =  4.0183746
            e(v_error) =  1
              e(r2_ct) =  .87186441
           e(r2_ctadj) =  .66900175
               e(aic0) =  .64549185
              e(aic_n) =  952.10048
               e(bic0) =  -9688.2916
              e(bic_p) =  -938.81368
              e(n_rhs) =  22
            e(n_parm) =  23



Iteration 0:  Log pseudolikelihood = -984.47659
Iteration 1:  Log pseudolikelihood = -480.17581
Iteration 2:  Log pseudolikelihood =  -451.0972
Iteration 3:  Log pseudolikelihood = -448.22947
Iteration 4:  Log pseudolikelihood = -448.21814
Iteration 5:  Log pseudolikelihood = -448.21814

Probit regression                                     Number of obs =  1,475
                                                      Wald chi2(18) =      .
                                                      Prob > chi2   =      .
Log pseudolikelihood = -448.21814                     Pseudo R2     = 0.5447

                                          (Std. err. adjusted for 40 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------------------+----------------------------------------------------------------
             1.hyb_just |   .1940804   .2602734     0.75   0.456     -.316046    .7042068
1.incl_p_con_soc_gender |  -.3012743   .1964797    -1.53   0.125    -.6863674    .0838189
       1.int_med_UN_New |  -.9082371   .4710669    -1.93   0.054    -1.831511    .0150371
                         |
  incl_p_con_soc_gender#|
        int_med_UN_New |
```

```
                 1 1  |  -1.668164   .8182621    -2.04   0.041    -3.271928   -.0643996
                      |
              TSG_dum |   .1695087   .2237981     0.76   0.449    -.2691276    .6081449
           al_ethnic  |  -.3769162   .8313446    -0.45   0.650    -2.006322    1.252489
          cspv_ethwar |   .3379894   .1490758     2.27   0.023     .0458061    .6301727
               dpi_pr |   .1260451   .3031478     0.42   0.678    -.4681138    .7202039
        dpi_president |   1.723863    .738871     2.33   0.020      .275702    3.172023
            p_polity2 |  -.0795285   .0500578    -1.59   0.112    -.1776399     .018583
                      |
c.p_polity2#c.p_polity2 |   .0060564   .0098965     0.61   0.541    -.0133405    .0254532
                      |
   wdi_gdpcappppcon2011 |  -.0000162   .0000559    -0.29   0.772    -.0001258    .0000934
              wdi_pop |   3.48e-10   9.04e-10     0.39   0.700    -1.42e-09    2.12e-09
          wdi_forest  |   .0123752   .0077222     1.60   0.109      -.00276    .0275105
            brit_col  |   .1499313   .4397758     0.34   0.733    -.7120135    1.011876
             icrg_qog |  -.8169181   1.207243    -0.68   0.499     -3.18307    1.549234
    ross_oil_value_2014 |   2.31e-13   5.00e-12     0.05   0.963    -9.57e-12    1.00e-11
     con_incid_peaceyrs |   -1.48511    .274449    -5.41   0.000     -2.02302   -.9471994
 con_incid_peaceyrs_sqd |   .3177589   .0908489     3.50   0.000     .1396983    .4958194
 con_incid_peaceyrs_cub |  -.0205869   .0076664    -2.69   0.007    -.0356128   -.0055609
              _cons |  -1.003214   .8348627    -1.20   0.229    -2.639514    .6330872
------------------------------------------------------------------------------
Note: 2 failures and 0 successes completely determined.


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -448.218
D(1448):                     896.436     LR(18):                    1072.517
                                         Prob > LR:                    0.000
McFadden's R2:                 0.545     McFadden's Adj R2:            0.517
Maximum Likelihood R2:         0.517     Cragg & Uhler's R2:           0.701
McKelvey and Zavoina's R2:     0.771     Efron's R2:                   0.610
Variance of y*:                4.374     Variance of error:            1.000
Count R2:                      0.877     Adj Count R2:                 0.681
AIC:                           0.644     AIC*n:                      950.436
BIC:                       -9668.770     BIC':                      -941.181


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -984.477     Log-Lik Full Model:         -448.218
D(1448):                     896.436     LR(18):                    1072.517
                                         Prob > LR:                    0.000
McFadden's R2:                 0.545     McFadden's Adj R2:            0.517
Maximum Likelihood R2:         0.517     Cragg & Uhler's R2:           0.701
McKelvey and Zavoina's R2:     0.771     Efron's R2:                   0.610
Variance of y*:                4.374     Variance of error:            1.000
Count R2:                      0.877     Adj Count R2:                 0.681
AIC:                           0.644     AIC*n:                      950.436
BIC:                       -9668.770     BIC':                      -941.181

added scalars:
               e(dev) =  896.43628
            e(dev_df) =  1448
              e(lrx2) =  1072.5169
```

```
            e(lrx2_df) =  18
             e(lrx2_p) =  2.20e-216
              e(r2_mf) =  .54471427
           e(r2_mfadj) =  .51728853
              e(r2_ml) =  .51670599
              e(r2_cu) =  .70127329
              e(r2_mz) =  .77139055
              e(r2_ef) =  .610017
            e(v_ystar) =  4.3742725
            e(v_error) =  1
              e(r2_ct) =  .87661017
           e(r2_ctadj) =  .68126095
               e(aic0) =  .64436358
              e(aic_n) =  950.43628
               e(bic0) =  -9668.7701
              e(bic_p) =  -941.18146
              e(n_rhs) =  26
             e(n_parm) =  27



Predictive margins                                      Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 0
    int_med_UN_New        = 0

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |   .4117289   .0315157    13.06   0.000     .3499592    .4734986
------------------------------------------------------------------------------


Predictive margins                                      Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 1
    int_med_UN_New        = 0

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |   .3575009    .044659     8.01   0.000     .2699709    .4450309
------------------------------------------------------------------------------


Predictive margins                                      Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 0
```

```
    int_med_UN_New        = 1

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |   .2519821   .0687559     3.66   0.000      .117223    .3867413
------------------------------------------------------------------------------


Predictive margins                                      Number of obs = 1,475
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 1
    int_med_UN_New        = 1

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |   .0370859    .016971     2.19   0.029     .0038235    .0703484
------------------------------------------------------------------------------


  Variables that uniquely identify margins: _filenumber
(note:  named style normal not found in class gsize, default attributes used)

file
    /Users/neudorfer/Library/CloudStorage/OneDrive-SharedLibraries-UniversityofBirmingham/Giudi
    > tta Fontana (Political Science and International Studies) - USIP - CW
    recurrence/Publications/Book USIP/Full Manuscript and Material for submission/Online
    material/probit_gen_un_robustness_tsg.pdf saved as PDF format
```



```
use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"


**********************************************************************
* Women inclusion measure in society as a form to measure implementation
**********************************************************************


* Single Effects - Plural Justice
probit conflict_incidence ///
 i.hyb_just ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 icrg_qog ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub ///
 vdem_gender, vce(cluster cowcode)
fitstat
estadd fitstat

***** For Margins ****
estadd margins, dydx(i.hyb_just) replace
matrix list e(margins_b)
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,2]
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,2]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC

estimates store m_hjust, title(Model 1)


* Single Effects - Gender
probit conflict_incidence ///
 i.incl_p_con_soc_gender ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
```

```
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 icrg_qog ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub ///
 vdem_gender,  vce(cluster cowcode)
fitstat
estadd fitstat

***** For Margins ****
estadd margins, dydx(i.incl_p_con_soc_gender) replace
matrix list e(margins_b)
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,2]
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,2]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC

estimates store m_gender, title(Model 2)



* Single Effects - UN
probit conflict_incidence ///
 i.int_med_UN_New ///
  al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 icrg_qog ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub ///
 vdem_gender,  vce(cluster cowcode)
fitstat
estadd fitstat

***** For Margins ****
estadd margins, dydx(i.int_med_UN_New) replace
matrix list e(margins_b)
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,2]
```

```
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,2]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC

estimates store m_un, title(Model 2)




* Single Effects of all Three
probit conflict_incidence ///
 i.hyb_just i.incl_p_con_soc_gender i.int_med_UN_New ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 icrg_qog ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub ///
 vdem_gender ,  vce(cluster cowcode)
fitstat
estadd fitstat


estimates store m_hjust_un_gender, title(Model 2)



* Double Interaction Effects
probit conflict_incidence ///
 i.hyb_just i.incl_p_con_soc_gender##i.int_med_UN_New ///
 al_ethnic  ///
 cspv_ethwar ///
 dpi_pr dpi_president ///
 c.p_polity2##c.p_polity2 ///
 wdi_gdpcappppcon2011 ///
 wdi_pop ///
 wdi_forest ///
 brit_col ///
 icrg_qog ///
 ross_oil_value_2014 ///
 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub ///
 vdem_gender,  vce(cluster cowcode)
fitstat
estadd fitstat
```

```
estimates store m_hjust_un_gender_int, title(Model 2)


margins, at(incl_p_con_soc_gender=0 int_med_UN_New=0) saving (file_gen0un0, replace)
margins, at(incl_p_con_soc_gender=1 int_med_UN_New=0) saving (file_gen1un0, replace)
margins, at(incl_p_con_soc_gender=0 int_med_UN_New=1) saving (file_gen0un1, replace)
margins, at(incl_p_con_soc_gender=1 int_med_UN_New=1) saving (file_gen1un1, replace)



*Export individual marginal effects for estimation Table 6
combomarginsplot file_gen0un0 file_gen1un0 file_gen0un1 file_gen1un1 , ///
title("") ///
xtitle("") xlabel(1 `""Women" "Inclusion=0" "UN-led" "Mediation=0""' ///
2 `""Women" "Inclusion=1" "UN-led" "Mediation=0""' ///
3 `""Women" "Inclusion=0" "UN-led" "Mediation=1""'  ///
4 `""Women" "Inclusion=1" "UN-led" "Mediation=1""' ///
) xsc(r(0.5 4.5)) ///
ylabel(-.1(.1).5) ysc(r(-.1(.1).5)) yline(0, lpattern(dash) lcolor(gs12)) ///
ytitle(Predicted Probability for Civil Wars (Incidences), size(normal)) ///
recast(scatter) plotopts(msiz(tiny) mc(gs4)) ciopts(lw(medthick)) ///
scheme(s1mono)
graph export "probit_gen_un_robustness_vdem_gender.pdf", replace



/*
esttab m_hjust m_un m_gender m_hjust_un_gender m_hjust_un_gender_int ///
using probit-results-table-interaction-robustness-vdem-gender.rtf, ///
replace style(tex) cells(b(star fmt(2)) se(par)) ///
stats(N N_clust ///
N1Pa1Po1_LC  N1Pa1Po1 N1Pa1Po1_HC ///
r2_p  r2_ct aic bic, ///
fmt(0 0 3 3 3 2 2 0 0) ///
labels(`"Observations"' `"Countries"' ///
`"\rowcolor{black!10} C.L."' ///
`"\rowcolor{black!20} "'  ///
`"\rowcolor{black!10} C.H."' ///
`"Pseudo \(R^{2}\)"' `"Count \(R^{2}\)"' `"AIC"' `"BIC"')) ///
starlevels(+ 0.10 * 0.05 ** 0.01) ///
label ///
numbers ///
compress ///
nobaselevels ///
alignment(d) width(\hsize) nogaps lines ///
note("Note:+significant at 10\%; *significant at 5\%; **significant at 1\%. Clustered standard errors (cou
title(Probit Analysis of the Effects of Plural Justice, Women Inclusion and UN Mediation ///
(and Interaction) on the Risk of Violent Intrastate Conflicts (Robustness TSG).)
*/
```

Robustness Regression 5: Inclusion of VDem Gender

```
Iteration 0:  Log pseudolikelihood = -976.35058
Iteration 1:  Log pseudolikelihood = -480.95837
Iteration 2:  Log pseudolikelihood = -465.48264
```

```
Iteration 3:  Log pseudolikelihood = -464.63979
Iteration 4:  Log pseudolikelihood = -464.63661
Iteration 5:  Log pseudolikelihood = -464.63661

Probit regression                                       Number of obs =  1,465
                                                        Wald chi2(15) =      .
                                                        Prob > chi2   =      .
Log pseudolikelihood = -464.63661                       Pseudo R2     = 0.5241

                                          (Std. err. adjusted for 40 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------------------+----------------------------------------------------------------
             1.hyb_just |   .1231375   .1763682     0.70   0.485    -.2225378    .4688129
              al_ethnic |  -.3434491   .8763149    -0.39   0.695    -2.060995    1.374097
            cspv_ethwar |    .270521   .1504898     1.80   0.072    -.0244337    .5654757
                 dpi_pr |   .1890165   .3106857     0.61   0.543    -.4199163    .7979492
         dpi_president |   1.154591   .6681237     1.73   0.084    -.1549073    2.464089
             p_polity2 |  -.1089271   .0525772    -2.07   0.038    -.2119764   -.0058777
                       |
c.p_polity2#c.p_polity2 |   .0081133   .0103278     0.79   0.432    -.0121289    .0283554
                       |
   wdi_gdpcappppcon2011 |  -.0000142    .000052    -0.27   0.785    -.0001161    .0000877
               wdi_pop |   5.70e-10   9.50e-10     0.60   0.549    -1.29e-09    2.43e-09
            wdi_forest |    .013515   .0087579     1.54   0.123    -.0036501    .0306802
              brit_col |   .2781026   .4618494     0.60   0.547    -.6271057    1.183311
               icrg_qog |   -1.65203   1.200273    -1.38   0.169    -4.004522    .7004607
    ross_oil_value_2014 |   1.16e-12   4.82e-12     0.24   0.809    -8.28e-12    1.06e-11
     con_incid_peaceyrs |   -1.47292   .2580844    -5.71   0.000    -1.978756   -.9670836
 con_incid_peaceyrs_sqd |   .3107057   .0853351     3.64   0.000      .143452    .4779593
 con_incid_peaceyrs_cub |   -.020089   .0072451    -2.77   0.006    -.0342891   -.0058889
           vdem_gender |   2.132652   1.260121     1.69   0.091    -.3371401    4.602443
                 _cons |  -1.692725   .9116849    -1.86   0.063    -3.479595    .0941442
------------------------------------------------------------------------------------------


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -976.351     Log-Lik Full Model:         -464.637
D(1446):                     929.273     LR(15):                    1023.428
                                         Prob > LR:                    0.000
McFadden's R2:                 0.524     McFadden's Adj R2:            0.505
Maximum Likelihood R2:         0.503     Cragg & Uhler's R2:           0.683
McKelvey and Zavoina's R2:     0.703     Efron's R2:                   0.598
Variance of y*:                3.373     Variance of error:            1.000
Count R2:                      0.876     Adj Count R2:                 0.679
AIC:                           0.660     AIC*n:                      967.273
BIC:                       -9611.504     BIC':                      -914.084


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -976.351     Log-Lik Full Model:         -464.637
D(1446):                     929.273     LR(15):                    1023.428
                                         Prob > LR:                    0.000
```

```
McFadden's R2:                 0.524     McFadden's Adj R2:             0.505
Maximum Likelihood R2:         0.503     Cragg & Uhler's R2:            0.683
McKelvey and Zavoina's R2:     0.703     Efron's R2:                    0.598
Variance of y*:                3.373     Variance of error:             1.000
Count R2:                      0.876     Adj Count R2:                  0.679
AIC:                           0.660     AIC*n:                       967.273
BIC:                       -9611.504     BIC':                       -914.084

added scalars:
                e(dev) =  929.27322
             e(dev_df) =  1446
               e(lrx2) =  1023.4279
            e(lrx2_df) =  15
             e(lrx2_p) =  1.28e-208
              e(r2_mf) =  .52410884
           e(r2_mfadj) =  .50464862
              e(r2_ml) =  .50271184
              e(r2_cu) =  .68276421
              e(r2_mz) =  .70348643
              e(r2_ef) =  .59764
            e(v_ystar) =  3.3725269
            e(v_error) =  1
              e(r2_ct) =  .87645051
           e(r2_ctadj) =  .67907801
               e(aic0) =  .66025476
              e(aic_n) =  967.27322
               e(bic0) =  -9611.5036
              e(bic_p) =  -914.08378
              e(n_rhs) =  18
             e(n_parm) =  19


Average marginal effects                                    Number of obs = 1,465
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
dy/dx wrt:  1.hyb_just

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
  1.hyb_just |   .0218318   .0315391     0.69   0.489    -.0399837    .0836473
------------------------------------------------------------------------------
Note: dy/dx for factor levels is the discrete change from the base level.

added scalars:
      e(margins_level) =  95
e(margins_PT_has_legend) =  0
e(margins_PT_has_cnotes) =  0
e(margins_PT_k_ctitles) =  2
    e(margins_k_eform) =  1
    e(margins_k_mlist) =  1
       e(margins_k_at) =  0
       e(margins_k_by) =  1
  e(margins_k_predict) =  1
```

```
e(margins_outcomeIsEq1) =  0
       e(margins_j2_1) =  0
       e(margins_j1_1) =  0
     e(margins_deriv1) =  1
     e(margins_is_xb1) =  0
    e(margins_numeric) =  0
  e(margins_k_margins) =  0
          e(margins_N) =  1465

added macros:
  e(margins_marg_dims) : "_deriv"
 e(margins_put_tables) : "PT"
     e(margins_isloco) : "0"
   e(margins_PT_rseps) : "`""'"
  e(margins_PT_rnotes) : "`""'"
 e(margins_PT_raligns) : "`"right"'"
 e(margins_PT_rtitles) : "`"1.hyb_just"'"
e(margins_PT_cformats) : "`"%9.0g"' `"%9.0g"' `"%8.2f"' `"%5.3f"' `"%9.0g"' `"%9.0g"'"
 e(margins_PT_cspans2) : "`"1"' `"1"' `"1"' `"1"' `"2"' `"0"'"
e(margins_PT_ctitles2) : "`"dy/dx"' `"std. err."' `"z"' `"P>|z|"' `"[95% conf. interval]"' `""'"
 e(margins_PT_cspans1) : "`"1"' `"1"' `"1"' `"1"' `"1"' `"1"'"
e(margins_PT_ctitles1) : "`""' `"Delta-method"' `""' `""' `""' `""'"
     e(margins_citype) : "normal"
     e(margins_label1) : "(base)"
   e(margins_mcmethod) : "noadjust"
        e(margins_cmd) : "margins"
    e(margins_cmdline) : "margins , dydx(i.hyb_just)"
 e(margins_est_depvar) : "conflict_incidence"
e(margins_est_cmdline) : "probit conflict_incidence  i.hyb_just  al_ethnic   cspv_ethwar  dpi_pr
> dpi_president  c.p_polity2##c.p_polity2  wdi_gdpcappppcon2011  wdi_pop  wdi_forest  brit_col  i
> crg_qog  ross_oil_value_2014  con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub
>  vdem_gender, vce(cluster cowcode)"
    e(margins_est_cmd) : "probit"
    e(margins_predict) : "_no_predict"
     e(margins_mlist1) : "_cons"
 e(margins_emptycells) : "strict"
e(margins_derivatives) : "dy/dx"
      e(margins_xvars) : "0b.hyb_just 1.hyb_just"
e(margins_predict1_label) : "Pr(conflict_incidence)"
 e(margins_expression) : "predict()"
e(margins_predict_label) : "Pr(conflict_incidence)"
    e(margins_vcetype) : "Delta-method"
        e(margins_vce) : "delta"
e(margins_model_vcetype) : "Robust"
  e(margins_model_vce) : "cluster"
      e(margins_title) : "Average marginal effects"

added matrices:
         e(margins_PT) :  1 x 6
      e(margins_table) :  9 x 2
          e(margins_b) :  1 x 2
  e(margins_chainrule) :  1 x 3
         e(margins_se) :  1 x 2
   e(margins_Jacobian) :  2 x 19
      e(margins_error) :  1 x 2
         e(margins__N) :  1 x 2
```

```
e(margins_b)[1,2]
          0b.        1.
    hyb_just  hyb_just
y1         0  .0218318



margins_b[1,2]
          0b.        1.
    hyb_just  hyb_just
y1         0  .0218318



added scalar:
           e(N1Pa1Po1) =  .0218318


e(margins_se)[1,2]
           0b.         1.
     hyb_just   hyb_just
r1          0  .03153911



margins_se[1,2]
           0b.         1.
     hyb_just   hyb_just
r1          0  .03153911



added scalar:
        e(N1Pa1Po1_se) =  .03153911



added scalar:
        e(N1Pa1Po1_LC) =  -.03998486



added scalar:
        e(N1Pa1Po1_HC) =  .08364845



Iteration 0:  Log pseudolikelihood = -976.35058
Iteration 1:  Log pseudolikelihood = -478.46164
Iteration 2:  Log pseudolikelihood = -460.81769
Iteration 3:  Log pseudolikelihood = -459.91961
Iteration 4:  Log pseudolikelihood = -459.91497
Iteration 5:  Log pseudolikelihood = -459.91497
```

```
Probit regression                                       Number of obs =  1,465
                                                        Wald chi2(15) =      .
                                                        Prob > chi2   =      .
Log pseudolikelihood = -459.91497                       Pseudo R2     = 0.5289

                                          (Std. err. adjusted for 40 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------------------+----------------------------------------------------------------
1.incl_p_con_soc_gender |   -.528364   .1830294    -2.89   0.004    -.8870951   -.1696328
              al_ethnic |  -.2609749   .8809599    -0.30   0.767    -1.987625    1.465675
            cspv_ethwar |    .293086   .1465766     2.00   0.046     .0058011    .5803709
                 dpi_pr |   .1817204   .3143622     0.58   0.563    -.4344181    .7978589
          dpi_president |   1.179553   .6742657     1.75   0.080    -.1419834     2.50109
              p_polity2 |  -.1115651   .0525084    -2.12   0.034    -.2144795   -.0086506
                        |
c.p_polity2#c.p_polity2 |   .0093471   .0102445     0.91   0.362    -.0107318     .029426
                        |
   wdi_gdpcappppcon2011 |  -.0000167   .0000529    -0.32   0.752    -.0001204     .000087
                wdi_pop |   4.75e-10   9.50e-10     0.50   0.617    -1.39e-09    2.34e-09
            wdi_forest |   .0133381   .0087066     1.53   0.126    -.0037266    .0304028
              brit_col |   .2311563   .4640333     0.50   0.618    -.6783323    1.140645
              icrg_qog |  -1.562101   1.178143    -1.33   0.185    -3.871218     .747016
    ross_oil_value_2014 |   1.74e-12   4.89e-12     0.36   0.722    -7.84e-12    1.13e-11
     con_incid_peaceyrs |   -1.46554   .2598084    -5.64   0.000    -1.974755   -.9563251
 con_incid_peaceyrs_sqd |   .3086602   .0860295     3.59   0.000     .1400455     .477275
 con_incid_peaceyrs_cub |  -.0199274   .0072468    -2.75   0.006    -.0341308    -.005724
            vdem_gender |   1.983789   1.203754     1.65   0.099    -.3755241    4.343103
                  _cons |  -1.664165   .9138005    -1.82   0.069    -3.455181    .1268506
------------------------------------------------------------------------------------------


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -976.351     Log-Lik Full Model:         -459.915
D(1446):                     919.830     LR(15):                    1032.871
                                         Prob > LR:                    0.000
McFadden's R2:                 0.529     McFadden's Adj R2:            0.509
Maximum Likelihood R2:         0.506     Cragg & Uhler's R2:           0.687
McKelvey and Zavoina's R2:     0.715     Efron's R2:                   0.599
Variance of y*:                3.505     Variance of error:            1.000
Count R2:                      0.879     Adj Count R2:                 0.686
AIC:                           0.654     AIC*n:                      957.830
BIC:                       -9620.947     BIC':                      -923.527


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -976.351     Log-Lik Full Model:         -459.915
D(1446):                     919.830     LR(15):                    1032.871
                                         Prob > LR:                    0.000
McFadden's R2:                 0.529     McFadden's Adj R2:            0.509
Maximum Likelihood R2:         0.506     Cragg & Uhler's R2:           0.687
McKelvey and Zavoina's R2:     0.715     Efron's R2:                   0.599
Variance of y*:                3.505     Variance of error:            1.000
```

```
Count R2:                       0.879     Adj Count R2:                  0.686
AIC:                            0.654     AIC*n:                       957.830
BIC:                        -9620.947     BIC':                       -923.527

added scalars:
                e(dev) =  919.82994
             e(dev_df) =  1446
               e(lrx2) =  1032.8712
            e(lrx2_df) =  15
             e(lrx2_p) =  1.21e-210
              e(r2_mf) =  .52894485
           e(r2_mfadj) =  .50948463
              e(r2_ml) =  .50590701
              e(r2_cu) =  .68710378
              e(r2_mz) =  .71468837
              e(r2_ef) =  .59903912
            e(v_ystar) =  3.5049395
            e(v_error) =  1
              e(r2_ct) =  .87918089
           e(r2_ctadj) =  .68617021
              e(aic0) =  .65380883
             e(aic_n) =  957.82994
              e(bic0) =  -9620.9469
             e(bic_p) =  -923.52706
             e(n_rhs) =  18
            e(n_parm) =  19


Average marginal effects                                    Number of obs = 1,465
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
dy/dx wrt:  1.incl_p_con_soc_gender

------------------------------------------------------------------------------------------
                         |            Delta-method
                         |      dy/dx   std. err.      z    P>|z|     [95% conf. interval]
-------------------------+----------------------------------------------------------------
1.incl_p_con_soc_gender |  -.0929823   .0346336    -2.68   0.007    -.1608629   -.0251018
------------------------------------------------------------------------------------------
Note: dy/dx for factor levels is the discrete change from the base level.

added scalars:
      e(margins_level) =  95
e(margins_PT_has_legend) =  0
e(margins_PT_has_cnotes) =  0
e(margins_PT_k_ctitles) =  2
    e(margins_k_eform) =  1
    e(margins_k_mlist) =  1
       e(margins_k_at) =  0
       e(margins_k_by) =  1
  e(margins_k_predict) =  1
e(margins_outcomeIsEq1) =  0
       e(margins_j2_1) =  0
       e(margins_j1_1) =  0
     e(margins_deriv1) =  1
```

```
     e(margins_is_xb1) =  0
    e(margins_numeric) =  0
  e(margins_k_margins) =  0
          e(margins_N) =  1465

added macros:
  e(margins_marg_dims) : "_deriv"
 e(margins_put_tables) : "PT"
     e(margins_isloco) : "0"
   e(margins_PT_rseps) : "`""'"
  e(margins_PT_rnotes) : "`""'"
 e(margins_PT_raligns) : "`"right"'"
 e(margins_PT_rtitles) : "`"1.incl_p_con_soc_gender"'"
e(margins_PT_cformats) : "`"%9.0g"' `"%9.0g"' `"%8.2f"' `"%5.3f"' `"%9.0g"' `"%9.0g"'"
 e(margins_PT_cspans2) : "`"1"' `"1"' `"1"' `"1"' `"2"' `"0"'"
e(margins_PT_ctitles2) : "`"dy/dx"' `"std. err."' `"z"' `"P>|z|"' `"[95% conf. interval]"' `""'"
 e(margins_PT_cspans1) : "`"1"' `"1"' `"1"' `"1"' `"1"' `"1"'"
e(margins_PT_ctitles1) : "`""' `"Delta-method"' `""' `""' `""' `""'"
     e(margins_citype) : "normal"
     e(margins_label1) : "(base)"
   e(margins_mcmethod) : "noadjust"
        e(margins_cmd) : "margins"
    e(margins_cmdline) : "margins , dydx(i.incl_p_con_soc_gender)"
 e(margins_est_depvar) : "conflict_incidence"
e(margins_est_cmdline) : "probit conflict_incidence  i.incl_p_con_soc_gender  al_ethnic   cspv_et
> hwar  dpi_pr dpi_president  c.p_polity2##c.p_polity2  wdi_gdpcappppcon2011  wdi_pop  wdi_forest
>   brit_col  icrg_qog  ross_oil_value_2014  con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_
> peaceyrs_cub  vdem_gender,  vce(cluster cowcode)"
    e(margins_est_cmd) : "probit"
    e(margins_predict) : "_no_predict"
     e(margins_mlist1) : "_cons"
 e(margins_emptycells) : "strict"
e(margins_derivatives) : "dy/dx"
      e(margins_xvars) : "0b.incl_p_con_soc_gender 1.incl_p_con_soc_gender"
e(margins_predict1_label) : "Pr(conflict_incidence)"
 e(margins_expression) : "predict()"
e(margins_predict_label) : "Pr(conflict_incidence)"
    e(margins_vcetype) : "Delta-method"
        e(margins_vce) : "delta"
e(margins_model_vcetype) : "Robust"
  e(margins_model_vce) : "cluster"
      e(margins_title) : "Average marginal effects"

added matrices:
         e(margins_PT) :  1 x 6
      e(margins_table) :  9 x 2
          e(margins_b) :  1 x 2
  e(margins_chainrule) :  1 x 3
         e(margins_se) :  1 x 2
   e(margins_Jacobian) :  2 x 19
      e(margins_error) :  1 x 2
         e(margins__N) :  1 x 2


e(margins_b)[1,2]
              0b.            1.
```

```
    incl_p_con~r  incl_p_con~r
y1             0    -.09298235



margins_b[1,2]
              0b.            1.
    incl_p_con~r  incl_p_con~r
y1             0    -.09298235



added scalar:
           e(N1Pa1Po1) =  -.09298235


e(margins_se)[1,2]
              0b.            1.
    incl_p_con~r  incl_p_con~r
r1             0     .03463358



margins_se[1,2]
              0b.            1.
    incl_p_con~r  incl_p_con~r
r1             0     .03463358



added scalar:
        e(N1Pa1Po1_se) =  .03463358



added scalar:
        e(N1Pa1Po1_LC) =  -.16086416



added scalar:
        e(N1Pa1Po1_HC) =  -.02510053



Iteration 0:  Log pseudolikelihood = -976.35058
Iteration 1:  Log pseudolikelihood = -472.54695
Iteration 2:  Log pseudolikelihood = -450.51955
Iteration 3:  Log pseudolikelihood = -449.48811
Iteration 4:  Log pseudolikelihood = -449.48113
Iteration 5:  Log pseudolikelihood = -449.48113

Probit regression                                     Number of obs =  1,465
                                                      Wald chi2(15) =      .
                                                      Prob > chi2   =      .
Log pseudolikelihood = -449.48113                     Pseudo R2     = 0.5396
```

(Std. err. adjusted for 40 clusters in cowcode)

conflict_incidence	Coefficient	Robust std. err.	z	P>|z|	[95% conf.	interval]
1.int_med_UN_New	-1.02064	.4679029	-2.18	0.029	-1.937713	-.1035671
al_ethnic	-.4587077	.7779756	-0.59	0.555	-1.983512	1.066096
cspv_ethwar	.298966	.1259864	2.37	0.018	.0520373	.5458948
dpi_pr	.1867538	.2899771	0.64	0.520	-.381591	.7550986
dpi_president	1.30388	.6295139	2.07	0.038	.0700554	2.537705
p_polity2	-.0902003	.0519928	-1.73	0.083	-.1921043	.0117036
c.p_polity2#c.p_polity2	.0075863	.0100941	0.75	0.452	-.0121978	.0273704
wdi_gdpcappppcon2011	-.00001	.00005	-0.20	0.841	-.0001081	.000088
wdi_pop	4.68e-10	8.48e-10	0.55	0.581	-1.19e-09	2.13e-09
wdi_forest	.0118089	.0081878	1.44	0.149	-.0042388	.0278567
brit_col	.2028303	.4626429	0.44	0.661	-.7039331	1.109594
icrg_qog	-1.734128	1.247174	-1.39	0.164	-4.178545	.7102879
ross_oil_value_2014	-2.35e-13	4.74e-12	-0.05	0.960	-9.53e-12	9.06e-12
con_incid_peaceyrs	-1.477969	.2651547	-5.57	0.000	-1.997662	-.958275
con_incid_peaceyrs_sqd	.3145407	.0891124	3.53	0.000	.1398837	.4891978
con_incid_peaceyrs_cub	-.0203869	.0075217	-2.71	0.007	-.0351292	-.0056446
vdem_gender	1.254868	1.112104	1.13	0.259	-.9248161	3.434552
_cons	-1.06484	.9228534	-1.15	0.249	-2.873599	.7439197

Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:	-976.351	Log-Lik Full Model:	-449.481
D(1446):	898.962	LR(15):	1053.739
		Prob > LR:	0.000
McFadden's R2:	0.540	McFadden's Adj R2:	0.520
Maximum Likelihood R2:	0.513	Cragg & Uhler's R2:	0.697
McKelvey and Zavoina's R2:	0.736	Efron's R2:	0.605
Variance of y*:	3.783	Variance of error:	1.000
Count R2:	0.874	Adj Count R2:	0.672
AIC:	0.640	AIC*n:	936.962
BIC:	-9641.815	BIC':	-944.395

Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:	-976.351	Log-Lik Full Model:	-449.481
D(1446):	898.962	LR(15):	1053.739
		Prob > LR:	0.000
McFadden's R2:	0.540	McFadden's Adj R2:	0.520
Maximum Likelihood R2:	0.513	Cragg & Uhler's R2:	0.697
McKelvey and Zavoina's R2:	0.736	Efron's R2:	0.605
Variance of y*:	3.783	Variance of error:	1.000
Count R2:	0.874	Adj Count R2:	0.672
AIC:	0.640	AIC*n:	936.962
BIC:	-9641.815	BIC':	-944.395

```
added scalars:
               e(dev) =  898.96226
            e(dev_df) =  1446
              e(lrx2) =  1053.7389
           e(lrx2_df) =  15
            e(lrx2_p) =  4.05e-215
             e(r2_mf) =  .53963142
          e(r2_mfadj) =  .5201712
             e(r2_ml) =  .51289506
             e(r2_cu) =  .69659468
             e(r2_mz) =  .73566757
             e(r2_ef) =  .60453999
           e(v_ystar) =  3.783115
           e(v_error) =  1
             e(r2_ct) =  .87372014
          e(r2_ctadj) =  .67198582
              e(aic0) =  .63956468
             e(aic_n) =  936.96226
              e(bic0) =  -9641.8146
             e(bic_p) =  -944.39474
             e(n_rhs) =  18
            e(n_parm) =  19


Average marginal effects                                    Number of obs = 1,465
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
dy/dx wrt:  1.int_med_UN_New

------------------------------------------------------------------------------
                 |            Delta-method
                 |      dy/dx   std. err.      z    P>|z|     [95% conf. interval]
-----------------+------------------------------------------------------------------
1.int_med_UN_New |  -.1788052    .075289    -2.37   0.018    -.3263689   -.0312414
------------------------------------------------------------------------------
Note: dy/dx for factor levels is the discrete change from the base level.

added scalars:
      e(margins_level) =  95
e(margins_PT_has_legend) =  0
e(margins_PT_has_cnotes) =  0
e(margins_PT_k_ctitles) =  2
    e(margins_k_eform) =  1
    e(margins_k_mlist) =  1
       e(margins_k_at) =  0
       e(margins_k_by) =  1
  e(margins_k_predict) =  1
e(margins_outcomeIsEq1) =  0
       e(margins_j2_1) =  0
       e(margins_j1_1) =  0
     e(margins_deriv1) =  1
     e(margins_is_xb1) =  0
    e(margins_numeric) =  0
  e(margins_k_margins) =  0
          e(margins_N) =  1465
```

```
added macros:
  e(margins_marg_dims) : "_deriv"
 e(margins_put_tables) : "PT"
     e(margins_isloco) : "0"
   e(margins_PT_rseps) : "`""'"
  e(margins_PT_rnotes) : "`""'"
 e(margins_PT_raligns) : "`"right"'"
 e(margins_PT_rtitles) : "`"1.int_med_UN_New"'"
e(margins_PT_cformats) : "`"%9.0g"' `"%9.0g"' `"%8.2f"' `"%5.3f"' `"%9.0g"' `"%9.0g"'"
 e(margins_PT_cspans2) : "`"1"' `"1"' `"1"' `"1"' `"2"' `"0"'"
e(margins_PT_ctitles2) : "`"dy/dx"' `"std. err."' `"z"' `"P>|z|"' `"[95% conf. interval]"' `""'"
 e(margins_PT_cspans1) : "`"1"' `"1"' `"1"' `"1"' `"1"' `"1"'"
e(margins_PT_ctitles1) : "`""' `"Delta-method"' `""' `""' `""' `""'"
     e(margins_citype) : "normal"
     e(margins_label1) : "(base)"
   e(margins_mcmethod) : "noadjust"
        e(margins_cmd) : "margins"
    e(margins_cmdline) : "margins , dydx(i.int_med_UN_New)"
 e(margins_est_depvar) : "conflict_incidence"
e(margins_est_cmdline) : "probit conflict_incidence  i.int_med_UN_New   al_ethnic   cspv_ethwar
> dpi_pr dpi_president  c.p_polity2##c.p_polity2  wdi_gdpcappppcon2011  wdi_pop  wdi_forest  brit
> _col  icrg_qog  ross_oil_value_2014  con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peacey
> rs_cub  vdem_gender,  vce(cluster cowcode)"
    e(margins_est_cmd) : "probit"
    e(margins_predict) : "_no_predict"
     e(margins_mlist1) : "_cons"
 e(margins_emptycells) : "strict"
e(margins_derivatives) : "dy/dx"
      e(margins_xvars) : "0b.int_med_UN_New 1.int_med_UN_New"
e(margins_predict1_label) : "Pr(conflict_incidence)"
 e(margins_expression) : "predict()"
e(margins_predict_label) : "Pr(conflict_incidence)"
    e(margins_vcetype) : "Delta-method"
        e(margins_vce) : "delta"
e(margins_model_vcetype) : "Robust"
  e(margins_model_vce) : "cluster"
      e(margins_title) : "Average marginal effects"

added matrices:
         e(margins_PT) :  1 x 6
      e(margins_table) :  9 x 2
          e(margins_b) :  1 x 2
  e(margins_chainrule) :  1 x 3
         e(margins_se) :  1 x 2
   e(margins_Jacobian) :  2 x 19
      e(margins_error) :  1 x 2
         e(margins__N) :  1 x 2


e(margins_b)[1,2]
              0b.            1.
    int_med_UN~w  int_med_UN~w
y1             0    -.17880516
```

```
margins_b[1,2]
              0b.            1.
    int_med_UN~w  int_med_UN~w
y1             0    -.17880516



added scalar:
           e(N1Pa1Po1) =  -.17880516


e(margins_se)[1,2]
              0b.            1.
    int_med_UN~w  int_med_UN~w
r1             0     .07528902



margins_se[1,2]
              0b.            1.
    int_med_UN~w  int_med_UN~w
r1             0     .07528902



added scalar:
        e(N1Pa1Po1_se) =  .07528902



added scalar:
        e(N1Pa1Po1_LC) =  -.32637163



added scalar:
        e(N1Pa1Po1_HC) =  -.03123868



Iteration 0:  Log pseudolikelihood = -976.35058
Iteration 1:  Log pseudolikelihood = -470.86608
Iteration 2:  Log pseudolikelihood = -446.13169
Iteration 3:  Log pseudolikelihood = -444.84038
Iteration 4:  Log pseudolikelihood = -444.83304
Iteration 5:  Log pseudolikelihood = -444.83304

Probit regression                                       Number of obs =  1,465
                                                        Wald chi2(17) =      .
                                                        Prob > chi2   =      .
Log pseudolikelihood = -444.83304                       Pseudo R2     = 0.5444

                                          (Std. err. adjusted for 40 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
```

```
     conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
------------------------+----------------------------------------------------------------
             1.hyb_just |   .4250234   .2396549     1.77   0.076    -.0446917    .8947384
1.incl_p_con_soc_gender |  -.5716195   .1721244    -3.32   0.001    -.9089772   -.2342619
       1.int_med_UN_New |  -.9883659   .4419696    -2.24   0.025     -1.85461   -.1221213
              al_ethnic |  -.3768769   .7892428    -0.48   0.633    -1.923764    1.170011
            cspv_ethwar |   .3188352   .1258398     2.53   0.011     .0721937    .5654767
                 dpi_pr |   .2136392   .2924722     0.73   0.465    -.3595957    .7868742
          dpi_president |   1.289048    .635547     2.03   0.043     .0433991    2.534698
              p_polity2 |  -.0940929   .0512794    -1.83   0.067    -.1945986    .0064128
                        |
c.p_polity2#c.p_polity2 |   .0081339   .0101219     0.80   0.422    -.0117045    .0279724
                        |
   wdi_gdpcappppcon2011 |  -9.93e-06   .0000507    -0.20   0.845    -.0001093    .0000894
                wdi_pop |   2.49e-10   8.33e-10     0.30   0.765    -1.38e-09    1.88e-09
            wdi_forest |   .0114116   .0081594     1.40   0.162    -.0045805    .0274036
              brit_col |   .1692134   .4678788     0.36   0.718    -.7478122    1.086239
               icrg_qog |  -1.833457    1.2629    -1.45   0.147    -4.308695    .6417818
    ross_oil_value_2014 |   3.64e-14   4.79e-12     0.01   0.994    -9.36e-12    9.43e-12
     con_incid_peaceyrs |  -1.469873    .26612    -5.52   0.000    -1.991459   -.9482874
 con_incid_peaceyrs_sqd |   .3126427   .0892751     3.50   0.000     .1376666    .4876188
 con_incid_peaceyrs_cub |  -.0202861    .007517    -2.70   0.007    -.0350192   -.0055531
            vdem_gender |   1.328349   1.101043     1.21   0.228    -.8296552    3.486352
                  _cons |  -1.099527    .92469    -1.19   0.234    -2.911886    .7128323
------------------------------------------------------------------------------------------


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -976.351     Log-Lik Full Model:         -444.833
D(1442):                     889.666     LR(17):                    1063.035
                                         Prob > LR:                    0.000
McFadden's R2:                 0.544     McFadden's Adj R2:            0.521
Maximum Likelihood R2:         0.516     Cragg & Uhler's R2:           0.701
McKelvey and Zavoina's R2:     0.749     Efron's R2:                   0.608
Variance of y*:                3.982     Variance of error:            1.000
Count R2:                      0.872     Adj Count R2:                 0.668
AIC:                           0.639     AIC*n:                      935.666
BIC:                       -9621.952     BIC':                      -939.112


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -976.351     Log-Lik Full Model:         -444.833
D(1442):                     889.666     LR(17):                    1063.035
                                         Prob > LR:                    0.000
McFadden's R2:                 0.544     McFadden's Adj R2:            0.521
Maximum Likelihood R2:         0.516     Cragg & Uhler's R2:           0.701
McKelvey and Zavoina's R2:     0.749     Efron's R2:                   0.608
Variance of y*:                3.982     Variance of error:            1.000
Count R2:                      0.872     Adj Count R2:                 0.668
AIC:                           0.639     AIC*n:                      935.666
BIC:                       -9621.952     BIC':                      -939.112

added scalars:
               e(dev) =  889.66607
```

```
            e(dev_df) =  1442
              e(lrx2) =  1063.0351
           e(lrx2_df) =  17
            e(lrx2_p) =  2.92e-215
             e(r2_mf) =  .5443921
          e(r2_mfadj) =  .52083499
             e(r2_ml) =  .51597621
             e(r2_cu) =  .70077938
             e(r2_mz) =  .74889083
             e(r2_ef) =  .60816897
           e(v_ystar) =  3.9823316
           e(v_error) =  1
             e(r2_ct) =  .87235495
          e(r2_ctadj) =  .66843972
              e(aic0) =  .63867991
             e(aic_n) =  935.66607
              e(bic0) =  -9621.9523
             e(bic_p) =  -939.1117
             e(n_rhs) =  22
            e(n_parm) =  23



Iteration 0:  Log pseudolikelihood = -976.35058
Iteration 1:  Log pseudolikelihood = -470.59347
Iteration 2:  Log pseudolikelihood = -443.46352
Iteration 3:  Log pseudolikelihood =  -440.9257
Iteration 4:  Log pseudolikelihood = -440.91635
Iteration 5:  Log pseudolikelihood = -440.91635

Probit regression                                     Number of obs =  1,465
                                                      Wald chi2(18) =      .
                                                      Prob > chi2   =      .
Log pseudolikelihood = -440.91635                     Pseudo R2     = 0.5484

                                          (Std. err. adjusted for 40 clusters in cowcode)
------------------------------------------------------------------------------------------
                         |               Robust
      conflict_incidence | Coefficient  std. err.      z    P>|z|     [95% conf. interval]
-------------------------+----------------------------------------------------------------
             1.hyb_just |   .3261328   .2313918     1.41   0.159    -.1273867    .7796523
1.incl_p_con_soc_gender |  -.3016919    .203009    -1.49   0.137    -.6995823    .0961984
       1.int_med_UN_New |  -.7826121   .4301044    -1.82   0.069    -1.625601    .0603771
                        |
  incl_p_con_soc_gender#|
        int_med_UN_New  |
                  1 1   |  -1.456737   .7599215    -1.92   0.055    -2.946156    .0326817
                        |
              al_ethnic |   -.296946   .7955686    -0.37   0.709    -1.856232     1.26234
            cspv_ethwar |   .3501635   .1376707     2.54   0.011     .0803339    .6199931
                dpi_pr  |   .1976755   .2964124     0.67   0.505    -.3832821    .7786331
          dpi_president |   1.303772   .6286614     2.07   0.038     .0716186    2.535926
              p_polity2 |  -.0935936   .0520556    -1.80   0.072    -.1956208    .0084336
                        |
c.p_polity2#c.p_polity2 |   .0079045   .0102275     0.77   0.440    -.0121411    .0279501
                        |
```

```
   wdi_gdpcappppcon2011 |  -8.58e-06   .0000506    -0.17   0.865    -.0001078    .0000907
                wdi_pop |   1.84e-10   8.46e-10     0.22   0.828    -1.47e-09    1.84e-09
            wdi_forest |   .0117723   .0082844     1.42   0.155    -.0044649    .0280095
              brit_col |   .1385493   .4779603     0.29   0.772    -.7982357    1.075334
              icrg_qog |  -1.673483   1.244371    -1.34   0.179    -4.112405    .7654401
    ross_oil_value_2014 |  -3.48e-13   4.83e-12    -0.07   0.943    -9.81e-12    9.12e-12
     con_incid_peaceyrs |   -1.47399   .2653017    -5.56   0.000    -1.993972   -.9540086
 con_incid_peaceyrs_sqd |   .3136228    .088979     3.52   0.000     .1392271    .4880185
 con_incid_peaceyrs_cub |  -.0203194   .0075053    -2.71   0.007    -.0350294   -.0056094
            vdem_gender |   1.245509   1.123483     1.11   0.268    -.9564769    3.447494
                  _cons |  -1.189775   .9334512    -1.27   0.202    -3.019306    .6397554
------------------------------------------------------------------------------------------
Note: 1 failure and 0 successes completely determined.


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -976.351     Log-Lik Full Model:         -440.916
D(1438):                     881.833     LR(18):                    1070.868
                                         Prob > LR:                    0.000
McFadden's R2:                 0.548     McFadden's Adj R2:            0.521
Maximum Likelihood R2:         0.519     Cragg & Uhler's R2:           0.704
McKelvey and Zavoina's R2:     0.767     Efron's R2:                   0.613
Variance of y*:                4.298     Variance of error:            1.000
Count R2:                      0.875     Adj Count R2:                 0.676
AIC:                           0.639     AIC*n:                      935.833
BIC:                       -9600.627     BIC':                      -939.655


Measures of Fit for probit of conflict_incidence

Log-Lik Intercept Only:     -976.351     Log-Lik Full Model:         -440.916
D(1438):                     881.833     LR(18):                    1070.868
                                         Prob > LR:                    0.000
McFadden's R2:                 0.548     McFadden's Adj R2:            0.521
Maximum Likelihood R2:         0.519     Cragg & Uhler's R2:           0.704
McKelvey and Zavoina's R2:     0.767     Efron's R2:                   0.613
Variance of y*:                4.298     Variance of error:            1.000
Count R2:                      0.875     Adj Count R2:                 0.676
AIC:                           0.639     AIC*n:                      935.833
BIC:                       -9600.627     BIC':                      -939.655

added scalars:
               e(dev) =  881.83269
            e(dev_df) =  1438
              e(lrx2) =  1070.8685
           e(lrx2_df) =  18
            e(lrx2_p) =  4.95e-216
             e(r2_mf) =  .54840366
          e(r2_mfadj) =  .52074966
             e(r2_ml) =  .51855739
             e(r2_cu) =  .70428503
             e(r2_mz) =  .76731584
             e(r2_ef) =  .61312359
           e(v_ystar) =  4.2976711
           e(v_error) =  1
```

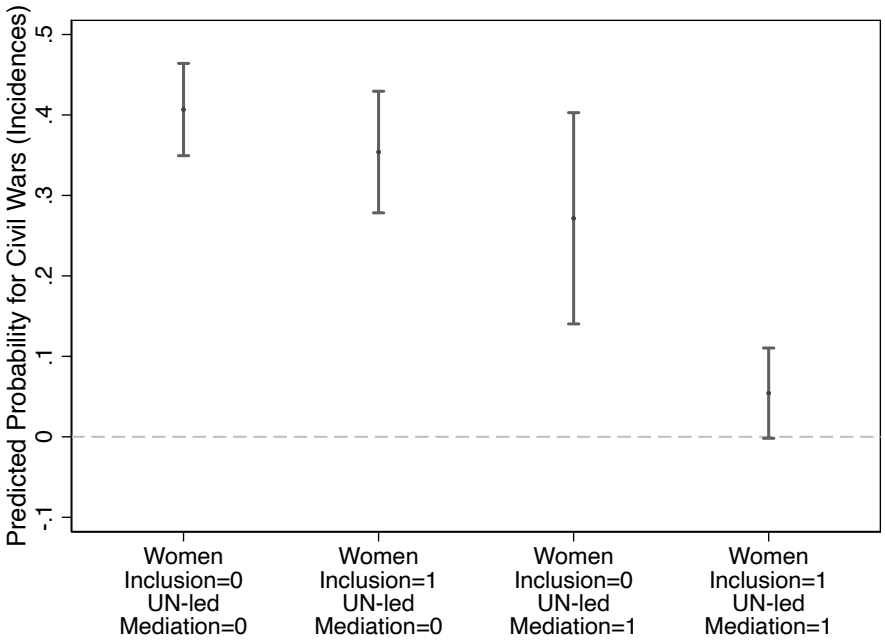
```
            e(r2_ct) =  .87508532
         e(r2_ctadj) =  .67553191
             e(aic0) =  .63879365
            e(aic_n) =  935.83269
             e(bic0) =  -9600.6272
            e(bic_p) =  -939.65548
            e(n_rhs) =  26
          e(n_parm) =  27
```

```
Predictive margins                                      Number of obs = 1,465
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 0
    int_med_UN_New        = 0

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |   .4067289   .0292536    13.90   0.000     .3493929    .4640649
------------------------------------------------------------------------------
```

```
Predictive margins                                      Number of obs = 1,465
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 1
    int_med_UN_New        = 0

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |   .3539265   .0385485     9.18   0.000     .2783728    .4294802
------------------------------------------------------------------------------
```

```
Predictive margins                                      Number of obs = 1,465
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 0
    int_med_UN_New        = 1

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |   .2715915   .0669764     4.06   0.000     .1403201    .4028629
------------------------------------------------------------------------------
```

```
Predictive margins                                      Number of obs = 1,465
Model VCE: Robust

Expression: Pr(conflict_incidence), predict()
At: incl_p_con_soc_gender = 1
    int_med_UN_New        = 1

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
       _cons |    .054281   .0286187     1.90   0.058    -.0018106    .1103725
------------------------------------------------------------------------------


  Variables that uniquely identify margins: _filenumber
(note:  named style normal not found in class gsize, default attributes used)

file
    /Users/neudorfer/Library/CloudStorage/OneDrive-SharedLibraries-UniversityofBirmingham/Giudi
    > tta Fontana (Political Science and International Studies) - USIP - CW
    recurrence/Publications/Book USIP/Full Manuscript and Material for submission/Online
    material/probit_gen_un_robustness_vdem_gender.pdf saved as PDF format
```



```
use "202209 PAIC full Dataset with Controls TSCS with USIP recoded UN 14th July 2025.dta"


**************************************************************************
* IV Regression for UN only
**************************************************************************


* Single Effects - UN
ivprobit conflict_incidence /*
*/ al_ethnic  /*
*/ cspv_ethwar /*
*/ dpi_pr dpi_president/*
*/ c.p_polity2##c.p_polity2 /*
*/ wdi_gdpcappppcon2011 /*
*/ wdi_pop /*
*/ wdi_forest /*
*/ brit_col /*
*/ icrg_qog /*
*/ ross_oil_value_2014 /*
*/ con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub /*
*/ (int_med_UN_New = cum_conflict_intensity), twostep

*fitstat
*estadd fitstat

***** For Margins ****
estadd margins, dydx(int_med_UN_New) replace
matrix list e(margins_b)
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,1]
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,1]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC

estimates store m_un, title(Model 2)




* Single Effects of all Three
ivprobit conflict_incidence /*
*/ i.hyb_just i.incl_p_con_soc_gender /*
*/ al_ethnic  /*
*/ cspv_ethwar /*
```

```
*/ dpi_pr dpi_president/*
*/ c.p_polity2##c.p_polity2 /*
*/ wdi_gdpcappppcon2011 /*
*/ wdi_pop /*
*/ wdi_forest /*
*/ brit_col /*
*/ icrg_qog /*
*/ ross_oil_value_2014 /*
*/ con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub /*
*/(int_med_UN_New = cum_conflict_intensity), twostep
*fitstat
*estadd fitstat

***** For Margins ****
estadd margins, dydx(int_med_UN_New) replace
matrix list e(margins_b)
matrix margins_b=e(margins_b)
matrix list margins_b
scalar N1Pa1Po1=margins_b[1,1]
estadd scalar N1Pa1Po1
matrix list e(margins_se)
matrix margins_se=e(margins_se)
matrix list margins_se
scalar N1Pa1Po1_se=margins_se[1,1]
estadd scalar N1Pa1Po1_se
scalar N1Pa1Po1_LC=N1Pa1Po1-(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_LC
scalar N1Pa1Po1_HC=N1Pa1Po1+(1.96*N1Pa1Po1_se)
estadd scalar N1Pa1Po1_HC

estimates store m_hjust_un_gender, title(Model 2)


esttab  m_un  m_hjust_un_gender using ivprobit-results-table.rtf, ///
replace style(tex) cells(b(star fmt(2)) se(par)) ///
stats(N N_clust ///
N1Pa1Po1_LC  N1Pa1Po1 N1Pa1Po1_HC ///
r2_p  r2_ct aic bic, ///
fmt(0 0 3 3 3 2 2 0 0) ///
labels(`"Observations"' `"Countries"' ///
`"Margin C.L."' `"Margin"'  `"Margin C.H."' ///
`"Pseudo \(R^{2}\)"' `"Count \(R^{2}\)"' `"AIC"' `"BIC"')) ///
starlevels(+ 0.10 * 0.05 ** 0.01) ///
label ///
numbers ///
compress ///
nobaselevels ///
alignment(d) width(\hsize) nogaps lines /// mtitle=names of columns, width=width of table \hsize=width of
note("Note:+significant at 10\%; *significant at 5\%; **significant at 1\%. Clustered standard errors (cou
title(IV Probit Analysis of the Effects of Hybrid Justice, Gender Inclusion and UN Mediation ///
 on the Risk of Violent Intrastate Conflicts.)
```

Robustness Regression 6: IV Regression for UN only

```
Checking reduced-form model...

Two-step probit with endogenous regressors        Number of obs   =      1,475
```

```
                                                Wald chi2(15)   =     115.89
                                                Prob > chi2     =     0.0000

------------------------------------------------------------------------------
                        | Coefficient  Std. err.      z    P>|z|     [95% conf. interval]
------------------------+-----------------------------------------------------------------
         int_med_UN_New |  -19.65152    2.85421    -6.89   0.000    -25.24566   -14.05737
              al_ethnic |  -4.974522   1.347284    -3.69   0.000     -7.61515   -2.333894
            cspv_ethwar |   .2991031   .1654762     1.81   0.071    -.0252243    .6234304
                 dpi_pr |   3.374615   .7579009     4.45   0.000     1.889156    4.860073
          dpi_president |   3.017068   1.088989     2.77   0.006     .8826878    5.151448
              p_polity2 |   .0069414   .0860221     0.08   0.936    -.1616589    .1755416
                        |
c.p_polity2#c.p_polity2 |   .0231115   .0146779     1.57   0.115    -.0056566    .0518797
                        |
   wdi_gdpcappppcon2011 |   .0000931   .0000562     1.66   0.098    -.0000172    .0002033
                wdi_pop |  -2.65e-09   1.65e-09    -1.60   0.109    -5.90e-09    5.88e-10
             wdi_forest |  -.0001604   .0123005    -0.01   0.990     -.024269    .0239482
               brit_col |  -.5530081    .716543    -0.77   0.440    -1.957407    .8513903
               icrg_qog |  -8.112777   2.392135    -3.39   0.001    -12.80128   -3.424278
    ross_oil_value_2014 |          0  (omitted)
     con_incid_peaceyrs |  -.4925234   .5055228    -0.97   0.330     -1.48333    .4982831
 con_incid_peaceyrs_sqd |     .20019   .1343035     1.49   0.136    -.0630401      .46342
 con_incid_peaceyrs_cub |  -.0154971    .009646    -1.61   0.108    -.0344029    .0034087
                  _cons |   2.613225    1.39644     1.87   0.061    -.1237469    5.350197
------------------------------------------------------------------------------
Wald test of exogeneity: chi2(1) = 187.54                 Prob > chi2 = 0.0000
Endogenous: int_med_UN_New
Exogenous:  al_ethnic cspv_ethwar dpi_pr dpi_president p_polity2
            c.p_polity2#c.p_polity2 wdi_gdpcappppcon2011 wdi_pop wdi_forest brit_col
            icrg_qog ross_oil_value_2014 con_incid_peaceyrs con_incid_peaceyrs_sqd
            con_incid_peaceyrs_cub cum_conflict_intensity

Note: 11 failures and 0 successes completely determined.


Average marginal effects                                    Number of obs = 1,475
Model VCE: Twostep

Expression: Fitted values, predict()
dy/dx wrt:  int_med_UN_New

------------------------------------------------------------------------------
               |            Delta-method
               |      dy/dx   std. err.      z    P>|z|     [95% conf. interval]
---------------+--------------------------------------------------------------
int_med_UN_New |  -19.65152    2.85421    -6.89   0.000    -25.24566   -14.05737
------------------------------------------------------------------------------

added scalars:
      e(margins_level) =  95
e(margins_PT_has_legend) =  0
e(margins_PT_has_cnotes) =  0
e(margins_PT_k_ctitles) =  2
    e(margins_k_eform) =  1
    e(margins_k_mlist) =  1
```

```
       e(margins_k_at) =  0
       e(margins_k_by) =  1
  e(margins_k_predict) =  1
e(margins_outcomeIsEq1) =  0
       e(margins_j2_1) =  0
       e(margins_j1_1) =  0
     e(margins_deriv1) =  0
     e(margins_is_xb1) =  0
    e(margins_numeric) =  1
  e(margins_k_margins) =  0
          e(margins_N) =  1475

added macros:
  e(margins_marg_dims) : "_deriv"
 e(margins_put_tables) : "PT"
     e(margins_isloco) : "0"
   e(margins_PT_rseps) : "`""'"
  e(margins_PT_rnotes) : "`""'"
 e(margins_PT_raligns) : "`"right"'"
 e(margins_PT_rtitles) : "`"int_med_UN_New"'"
e(margins_PT_cformats) : "`"%9.0g"' `"%9.0g"' `"%8.2f"' `"%5.3f"' `"%9.0g"' `"%9.0g"'"
 e(margins_PT_cspans2) : "`"1"' `"1"' `"1"' `"1"' `"2"' `"0"'"
e(margins_PT_ctitles2) : "`"dy/dx"' `"std. err."' `"z"' `"P>|z|"' `"[95% conf. interval]"' `""'"
 e(margins_PT_cspans1) : "`"1"' `"1"' `"1"' `"1"' `"1"' `"1"'"
e(margins_PT_ctitles1) : "`""' `"Delta-method"' `""' `""' `""' `""'"
     e(margins_citype) : "normal"
   e(margins_mcmethod) : "noadjust"
        e(margins_cmd) : "margins"
    e(margins_cmdline) : "margins , dydx(int_med_UN_New)"
 e(margins_est_depvar) : "conflict_incidence int_med_UN_New"
e(margins_est_cmdline) : "ivprobit conflict_incidence al_ethnic cspv_ethwar dpi_pr dpi_president
> c.p_polity2##c.p_polity2 wdi_gdpcappppcon2011 wdi_pop wdi_forest brit_col icrg_qog ross_oil_val
> ue_2014 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_peaceyrs_cub (int_med_UN_New = cum_
> conflict_intensity), twostep"
    e(margins_est_cmd) : "ivprobit"
    e(margins_predict) : "_no_predict"
     e(margins_mlist1) : "_cons"
 e(margins_emptycells) : "strict"
 e(margins_continuous) : "continuous"
e(margins_derivatives) : "dy/dx"
      e(margins_xvars) : "int_med_UN_New"
e(margins_predict1_label) : "Fitted values"
 e(margins_expression) : "predict()"
e(margins_predict_label) : "Fitted values"
    e(margins_vcetype) : "Delta-method"
        e(margins_vce) : "delta"
  e(margins_model_vce) : "twostep"
      e(margins_title) : "Average marginal effects"

added matrices:
         e(margins_PT) :  1 x 6
      e(margins_table) :  9 x 1
         e(margins_se) :  1 x 1
   e(margins_Jacobian) :  1 x 17
      e(margins_error) :  1 x 1
          e(margins_b) :  1 x 1
```

```
         e(margins__N) :  1 x 1


symmetric e(margins_b)[1,1]
    int_med_UN~w
r1    -19.651516



symmetric margins_b[1,1]
    int_med_UN~w
r1    -19.651516



added scalar:
           e(N1Pa1Po1) =  -19.651516


symmetric e(margins_se)[1,1]
    int_med_UN~w
r1     2.8542096



symmetric margins_se[1,1]
    int_med_UN~w
r1     2.8542096



added scalar:
        e(N1Pa1Po1_se) =  2.8542096



added scalar:
        e(N1Pa1Po1_LC) =  -25.245767



added scalar:
        e(N1Pa1Po1_HC) =  -14.057266


Checking reduced-form model...

Two-step probit with endogenous regressors        Number of obs   =      1,475
                                                  Wald chi2(17)   =     109.17
                                                  Prob > chi2     =     0.0000

------------------------------------------------------------------------------
                        | Coefficient  Std. err.      z    P>|z|     [95% conf. interval]
------------------------+-----------------------------------------------------------------
         int_med_UN_New |  -21.51383   3.264639    -6.59   0.000     -27.9124   -15.11525
             1.hyb_just |  -1.715991   .8515907    -2.02   0.044    -3.385078   -.0469044
```

```
1.incl_p_con_soc_gender |    6.35681   1.296527     4.90   0.000     3.815665    8.897956
              al_ethnic |   -6.27172   1.538854    -4.08   0.000    -9.287818   -3.255622
            cspv_ethwar |   .2209985   .1760364     1.26   0.209    -.1240265    .5660236
                 dpi_pr |   3.550162    .808666     4.39   0.000     1.965205    5.135118
          dpi_president |   3.124139   1.139364     2.74   0.006     .8910261    5.357252
              p_polity2 |  -.0213342   .0907073    -0.24   0.814    -.1991173    .1564489
                        |
c.p_polity2#c.p_polity2 |   .0183374   .0153172     1.20   0.231    -.0116837    .0483585
                        |
   wdi_gdpcappppcon2011 |   .0001141   .0000599     1.91   0.057    -3.26e-06    .0002315
               wdi_pop |  -1.84e-09   1.70e-09    -1.09   0.277    -5.17e-09    1.48e-09
            wdi_forest |  -.0028365   .0129458    -0.22   0.827    -.0282099    .0225369
              brit_col |  -.0197647    .752627    -0.03   0.979    -1.494886    1.455357
              icrg_qog |  -8.724251   2.545341    -3.43   0.001    -13.71303   -3.735474
    ross_oil_value_2014 |          0  (omitted)
     con_incid_peaceyrs |  -.6430248   .5184401    -1.24   0.215    -1.659149    .3730992
 con_incid_peaceyrs_sqd |   .2370371   .1388755     1.71   0.088     -.035154    .5092282
 con_incid_peaceyrs_cub |    -.01832   .0099914    -1.83   0.067    -.0379029    .0012628
                  _cons |   3.408353   1.504412     2.27   0.023     .4597601    6.356945
------------------------------------------------------------------------------------------
Wald test of exogeneity: chi2(1) = 182.82                 Prob > chi2 = 0.0000
Endogenous: int_med_UN_New
Exogenous:  1.hyb_just 1.incl_p_con_soc_gender al_ethnic cspv_ethwar dpi_pr
            dpi_president p_polity2 c.p_polity2#c.p_polity2 wdi_gdpcappppcon2011
            wdi_pop wdi_forest brit_col icrg_qog ross_oil_value_2014 con_incid_peaceyrs
            con_incid_peaceyrs_sqd con_incid_peaceyrs_cub cum_conflict_intensity

Note: 26 failures and 0 successes completely determined.


Average marginal effects                                    Number of obs = 1,475
Model VCE: Twostep

Expression: Fitted values, predict()
dy/dx wrt:  int_med_UN_New

------------------------------------------------------------------------------
               |            Delta-method
               |      dy/dx   std. err.      z    P>|z|     [95% conf. interval]
---------------+--------------------------------------------------------------
int_med_UN_New |  -21.51383   3.264639    -6.59   0.000     -27.9124   -15.11525
------------------------------------------------------------------------------

added scalars:
      e(margins_level) =  95
e(margins_PT_has_legend) =  0
e(margins_PT_has_cnotes) =  0
e(margins_PT_k_ctitles) =  2
    e(margins_k_eform) =  1
    e(margins_k_mlist) =  1
       e(margins_k_at) =  0
       e(margins_k_by) =  1
  e(margins_k_predict) =  1
e(margins_outcomeIsEq1) =  0
       e(margins_j2_1) =  0
       e(margins_j1_1) =  0
```

```
     e(margins_deriv1) =  0
     e(margins_is_xb1) =  0
    e(margins_numeric) =  1
  e(margins_k_margins) =  0
          e(margins_N) =  1475

added macros:
  e(margins_marg_dims) : "_deriv"
 e(margins_put_tables) : "PT"
     e(margins_isloco) : "0"
   e(margins_PT_rseps) : "`""'"
  e(margins_PT_rnotes) : "`""'"
 e(margins_PT_raligns) : "`"right"'"
 e(margins_PT_rtitles) : "`"int_med_UN_New"'"
e(margins_PT_cformats) : "`"%9.0g"' `"%9.0g"' `"%8.2f"' `"%5.3f"' `"%9.0g"' `"%9.0g"'"
 e(margins_PT_cspans2) : "`"1"' `"1"' `"1"' `"1"' `"2"' `"0"'"
e(margins_PT_ctitles2) : "`"dy/dx"' `"std. err."' `"z"' `"P>|z|"' `"[95% conf. interval]"' `""'"
 e(margins_PT_cspans1) : "`"1"' `"1"' `"1"' `"1"' `"1"' `"1"'"
e(margins_PT_ctitles1) : "`""' `"Delta-method"' `""' `""' `""' `""'"
     e(margins_citype) : "normal"
   e(margins_mcmethod) : "noadjust"
        e(margins_cmd) : "margins"
    e(margins_cmdline) : "margins , dydx(int_med_UN_New)"
 e(margins_est_depvar) : "conflict_incidence int_med_UN_New"
e(margins_est_cmdline) : "ivprobit conflict_incidence i.hyb_just i.incl_p_con_soc_gender al_ethni
> c cspv_ethwar dpi_pr dpi_president c.p_polity2##c.p_polity2 wdi_gdpcappppcon2011 wdi_pop wdi_fo
> rest brit_col icrg_qog ross_oil_value_2014 con_incid_peaceyrs con_incid_peaceyrs_sqd con_incid_
> peaceyrs_cub (int_med_UN_New = cum_conflict_intensity), twostep"
    e(margins_est_cmd) : "ivprobit"
    e(margins_predict) : "_no_predict"
     e(margins_mlist1) : "_cons"
 e(margins_emptycells) : "strict"
 e(margins_continuous) : "continuous"
e(margins_derivatives) : "dy/dx"
      e(margins_xvars) : "int_med_UN_New"
e(margins_predict1_label) : "Fitted values"
 e(margins_expression) : "predict()"
e(margins_predict_label) : "Fitted values"
    e(margins_vcetype) : "Delta-method"
        e(margins_vce) : "delta"
  e(margins_model_vce) : "twostep"
      e(margins_title) : "Average marginal effects"

added matrices:
         e(margins_PT) :  1 x 6
      e(margins_table) :  9 x 1
         e(margins_se) :  1 x 1
   e(margins_Jacobian) :  1 x 21
      e(margins_error) :  1 x 1
          e(margins_b) :  1 x 1
         e(margins__N) :  1 x 1


symmetric e(margins_b)[1,1]
    int_med_UN~w
r1    -21.513828
```

```
symmetric margins_b[1,1]
    int_med_UN~w
r1    -21.513828



added scalar:
           e(N1Pa1Po1) =  -21.513828


symmetric e(margins_se)[1,1]
    int_med_UN~w
r1     3.2646393



symmetric margins_se[1,1]
    int_med_UN~w
r1     3.2646393



added scalar:
        e(N1Pa1Po1_se) =  3.2646393



added scalar:
        e(N1Pa1Po1_LC) =  -27.912521



added scalar:
        e(N1Pa1Po1_HC) =  -15.115135


(output written to ivprobit-results-table.rtf)
```

Step 9 Qualitative Online Appendix (Congruence Analysis)

Ethical Approval We obtained full ethical approval for interviewing policymakers, practitioners and experts from the University of Birmingham's ethical review board (ERN_18-1890).

Interviews Conducted Our team conducted 23 interviews with negotiators, international organisations' officials, NGO personnel, and case study experts. The interviewees were identified through the professional networks of the research team, a review of the literature on the case studies, policy reports, and official documents, such as international organisations' statements. Potential interviewees were sent an email presenting our project, our research questions, and our team members. The email also included an information sheet explaining use of the data, its storage, and the rights of the interviewee.

The information sheet outlined that participants who agreed to be recorded were not required to fill out a consent form as their agreement to be recorded served as their consent for participation in the study. Those who preferred not to be recorded were asked to fill out a consent form and return an electronic copy to us by email. We ensured that all participants were fully informed about the process and purpose of the consent form and recording before starting the interview.

Interview Format The guiding interview questions were modified and personalised according to the expertise of the interviewee. The interviewer also offered to the interviewees the possibility of unstructured interviews in form of a life-story format, although the majority of the interviewees opted for the semi-structured format, of which the following is an example:

1. What led to the recurrence of the civil war after the signing of the initial peace agreement(s) in the conflicts that you have worked on?
2. Were the provisions included in peace agreements important for achieving peace? If so, which ones? If not, why not?
3. Our findings suggest that provisions that foresee the inclusion of women in the post-conflict society; traditional or religious forms of justice; and UN mediation make a peace agreement more likely to succeed. What is your take on these findings?
4. Our overall project found that UN mediation combined with inclusion of women are the most significant factors that stop civil war recurrence. In the cases that you have worked on, were there specific efforts in the mediation process to achieve inclusion of women? If so, how was this done and why?
5. Based on your work on [case study], did [UN mediation/the inclusion of women in post-conflict society/religious or traditional justice] contribute to the maintenance of peace? If so, how? If not, why not?
6. Based on your experience, what prevents civil war recurrence?

Interview Logistics and Challenges The interviews were conducted online via Zoom, WhatsApp and Microsoft Teams between February 2022 and May 2024 because the covid-19 pandemic indefinitely postponed our field trips and delayed the conduct of our interviews. The online format gave us the possibility to approach experts around the globe which was of great benefit for our research purposes. However, the snowballing of interview suggestions that usually takes place in physical settings did not occur in our case. Very few interviewees suggested further contacts, making the identification of suitable interviewees a challenging task. Another challenge was the outbreak of several conflicts and wars worldwide, that burdened the already heavy workload of our interviewees, often leading to delays and the postponement of already agreed interview dates.

Table 1: Interviews

Pseudonym	Format	Date
Conflict and governance adviser A	Online interview	28 January 2022
Former member of UN missions in Africa and the Middle East	Online interview	15 February 2022
Conflict and governance adviser B	Online interview	16 February 2022
Former senior UN mediator A	Online interview	2 October 2022
Former senior UN mediator B	Online interview	20 September 2022
Expert on Liberia	Online interview	21 October 2022
Senior negotiator in the Myanmar peace process	Online interview	19 October 2022

Pseudonym	Format	Date
Former senior UN mediator C	Online interview	15 November 2022
Mediator consultant with expertise on Sierra Leone	Online interview	18 November 2022
Mediator consultant with expertise on Indonesia	Email communication	December 2022
Former civil society expert on Mali	Online interview	17 March 2023
Mediator with expertise on Africa	Online interview	9 May 2023
Founder of Global Network of Women Peacebuilders	Online interview	24 May 2023
Senior gender adviser at swisspeace	Online interview	25 May 2023
Senior UN mediator	Online interview	26 May 2023
Former senior UN mediator D	Online interview	6 June 2023
Global Network of Women Peacebuilders programme officer for Africa	Online interview	16 June 2023
Peacebuilding expert on Tajikistan	Online interview	3 July 2023
Expert on Sierra Leone and Liberia	Online interview	3 July 2023
Peacebuilding campaigner and politician with expertise on Bangsamoro	Online interview	1 November 2023
Senior adviser on gender at an international organization	Online interview	9 January 2024
Expert on Sierra Leone and transitional justice	Online interview	22 March 2024
Expert on Sierra Leone and post-conflict justice	Online interview	23 March 2024

Workshop and Additional Data Collection We supplemented the interview data through three online workshops with academics and practitioners working on our case studies (funded by the University of Birmingham's Impact Acceleration Account, *From War Recurrence to Peace: How do policymakers promote resilient peace processes?*).

- The first workshop was held on 20th of September 2021 and focused on Mechanisms for Dialogue. 21 international participants took part in the workshop.
- The second workshop was held on 15th of November 2021 and focused on the results of our Supervised Machine Learning and the process of selecting hypotheses and case studies. 21 international participants took part in the workshop.
- The third workshop was held on 26th of September 2022 and focused on facilitating knowledge exchange and learning from previously successful/unsuccessful peace processes. 10 international participants took part in the workshop.

Our research also benefited from extensive discussions with our advisory board consisting of practitioners and policymakers, held online through Zoom on 3rd of June 2021; 5th of April 2022; and 26th of September 2022. All workshop and advisory board discussions were held under the Chatham House rule, where "participants are free to use the information received, but neither the identity nor the affiliation of the speaker(s), nor that of any other participant, may be revealed" (Chatham House Rule).

We gained further insights from serendipitous informal discussions with mediation experts on the margins of academic and policy events. While these materials are not explicitly referenced, they provided us with anecdotal evidence and experiences practitioners and that furthered our understanding of the dynamics of conflicts and societies we examined.