Argentina.R

Poertnem

2022-11-08

```
rm(list=ls())

#set working directory -- needs to be updated locally:
setwd("~/Dropbox/Corruption and Political Participation/Corruption and Political Participation/PSRM/Repl

library(foreign)
library(stargazer)
```

```
##
## Please cite as:
##  Hlavac, Marek (2018). stargazer: Well-Formatted Regression and Summary Statistics Tables.
##  R package version 5.2.2. https://CRAN.R-project.org/package=stargazer
```

```
library(ggplot2)
library(gridExtra)

##read in Latinobarometro data:
full <- read.dta("Latinobarometro2013Eng.dta")

ARG <- subset(full,idenpa=="Argentina") #subset to observations from Argentina

##treatment (before vs. after June 13, 2013)
ARG$treat <- ifelse(ARG$diareal<13,0,1)
ARG$treat <- ifelse(ARG$diareal==13,NA,ARG$treat) #coding the day of the event as NA

#for different bandwidths:
ARG$treat7 <- ifelse(ARG$diareal<13 & ARG$diareal>5,0,NA)
ARG$treat7 <- ifelse(ARG$diareal>13 & ARG$diareal<21,1,ARG$treat7)

ARG$treat14 <- ifelse(ARG$diareal<13 & ARG$diareal>0,0,NA)
ARG$treat14 <- ifelse(ARG$diareal>13 & ARG$diareal<28,1,ARG$treat14)

##recode variables for analysis:
#gender:
ARG$male <- ifelse(ARG$S10=="Male",1,0)

#age:
ARG$age <- ARG$S11

#level of education:
ARG$incomplete_highschool <- ifelse(ARG$REEDUC_1=="Illiterate"|ARG$REEDUC_1=="Primary incomplete"|ARG$RE
ARG$complete_highschool <- ifelse(ARG$REEDUC_1=="Secundary, intermediate, vocational complete",1,0)
```

```
ARG$university <- ifelse(ARG$REEDUC_1=="Higher incomplete"|ARG$REEDUC_1=="Higher complete",1,0)

#part of the labor force:
ARG$laborforce <- ifelse(ARG$S19_A=="Self employed"|ARG$S19_A=="Salaried employee in a public company"|A

#poverty:
ARG$poverty <- ifelse(ARG$S3=="Never",0,1)
ARG$poverty <- ifelse(ARG$S3=="Don't know",NA,ARG$poverty)
ARG$poverty <- ifelse(ARG$S3=="No answer",NA,ARG$poverty)

#voted in last election:
ARG$voted <- ifelse(ARG$P21TGBSM=="I voted in the last election",1,0)
ARG$voted <- ifelse(ARG$P21TGBSM=="I don't remember what I did"|ARG$P21TGBSM=="No answer",NA,ARG$voted)

#progress on corruption made:
ARG$progcorrupt <- ifelse(ARG$P69ST=="None",0,NA)
ARG$progcorrupt <- ifelse(ARG$P69ST=="A little",1,ARG$progcorrupt)
ARG$progcorrupt <- ifelse(ARG$P69ST=="Some",2,ARG$progcorrupt)
ARG$progcorrupt <- ifelse(ARG$P69ST=="A great deal",3,ARG$progcorrupt)

#can state solve corruption:
ARG$solvecorrupt <- ifelse(ARG$P72ST_C=="The state cannot solve the problem",0,NA)
ARG$solvecorrupt <- ifelse(ARG$P72ST_C=="A small part of the problem",1,ARG$solvecorrupt)
ARG$solvecorrupt <- ifelse(ARG$P72ST_C=="A large part of the problem",2,ARG$solvecorrupt)
ARG$solvecorrupt <- ifelse(ARG$P72ST_C=="All the problem",3,ARG$solvecorrupt)

#extent of local corruption:
ARG$localcorrupt <- ifelse(ARG$P64GBSM=="No answer"|ARG$P64GBSM=="Don't know",NA,1)
ARG$localcorrupt <- ifelse(ARG$P64GBSM=="Not many officials are involved",2,ARG$localcorrupt)
ARG$localcorrupt <- ifelse(ARG$P64GBSM=="Most officials are corrupt",3,ARG$localcorrupt)
ARG$localcorrupt <- ifelse(ARG$P64GBSM=="Almost everyone is corrupt",4,ARG$localcorrupt)

#extent of national corruption:
ARG$nationalcorrupt <- ifelse(ARG$P65GBS=="No answer"|ARG$P65GBS=="Don't know",NA,1)
ARG$nationalcorrupt <- ifelse(ARG$P65GBS=="Not many officials are involved",2,ARG$nationalcorrupt)
ARG$nationalcorrupt <- ifelse(ARG$P65GBS=="Most officials are corrupt",3,ARG$nationalcorrupt)
ARG$nationalcorrupt <- ifelse(ARG$P65GBS=="Almost everyone is corrupt",4,ARG$nationalcorrupt)

#extent of corruption (national and local combined):
ARG$corrupt <- rowMeans(x=cbind(ARG$localcorrupt,ARG$nationalcorrupt),na.rm = T)

#willingness to demonstrate:
ARG$demonstrate_willingness <- ifelse(ARG$P31N_E=="Not at all willing",1,NA)
ARG$demonstrate_willingness <- ifelse(ARG$P31N_E=="2",2,ARG$demonstrate_willingness)
ARG$demonstrate_willingness <- ifelse(ARG$P31N_E=="3",3,ARG$demonstrate_willingness)
ARG$demonstrate_willingness <- ifelse(ARG$P31N_E=="4",4,ARG$demonstrate_willingness)
ARG$demonstrate_willingness <- ifelse(ARG$P31N_E=="5",5,ARG$demonstrate_willingness)
ARG$demonstrate_willingness <- ifelse(ARG$P31N_E=="6",6,ARG$demonstrate_willingness)
ARG$demonstrate_willingness <- ifelse(ARG$P31N_E=="7",7,ARG$demonstrate_willingness)
ARG$demonstrate_willingness <- ifelse(ARG$P31N_E=="8",8,ARG$demonstrate_willingness)
ARG$demonstrate_willingness <- ifelse(ARG$P31N_E=="9",9,ARG$demonstrate_willingness)
ARG$demonstrate_willingness <- ifelse(ARG$P31N_E=="Very willing",10,ARG$demonstrate_willingness)
```

```r
#rescaled from 0 to 1:
ARG$demonstrate_willingness <- ifelse(ARG$P31N_E=="Not at all willing",0,NA)
ARG$demonstrate_willingness <- ifelse(ARG$P31N_E=="2",0.1111111111,ARG$demonstrate_willingness)
ARG$demonstrate_willingness <- ifelse(ARG$P31N_E=="3",0.2222222222,ARG$demonstrate_willingness)
ARG$demonstrate_willingness <- ifelse(ARG$P31N_E=="4",0.3333333333,ARG$demonstrate_willingness)
ARG$demonstrate_willingness <- ifelse(ARG$P31N_E=="5",0.4444444444,ARG$demonstrate_willingness)
ARG$demonstrate_willingness <- ifelse(ARG$P31N_E=="6",0.5555555555,ARG$demonstrate_willingness)
ARG$demonstrate_willingness <- ifelse(ARG$P31N_E=="7",0.6666666666,ARG$demonstrate_willingness)
ARG$demonstrate_willingness <- ifelse(ARG$P31N_E=="8",0.7777777777,ARG$demonstrate_willingness)
ARG$demonstrate_willingness <- ifelse(ARG$P31N_E=="9",0.8888888888,ARG$demonstrate_willingness)
ARG$demonstrate_willingness <- ifelse(ARG$P31N_E=="Very willing",1,ARG$demonstrate_willingness)

#null vote (voto nulo):
ARG$vote_null <- ifelse(ARG$P22TGBSM=="Vota nulo/Blanco",1,0)
ARG$vote_null <- ifelse(ARG$P22TGBSM=="No responde"|ARG$P22TGBSM=="No inscrito/No tenía edad",NA,ARG$vo

#not voting (staying at home):
ARG$vote_not <- ifelse(ARG$P22TGBSM=="No vota/Ninguno",1,0)
ARG$vote_not <- ifelse(ARG$P22TGBSM=="No responde"|ARG$P22TGBSM=="No inscrito/No tenía edad",NA,ARG$vot

#invalid vote (either null vote or not voting):
ARG$vote_invalid <- ifelse(ARG$vote_null==1 | ARG$vote_not==1, 1, 0)

#PJ supporters:
ARG$vote_PJ <- ifelse(ARG$P22TGBSM=="AR: Partido Justicialista (PJ)",1,0)
ARG$vote_PJ <- ifelse(ARG$P22TGBSM=="No responde"|ARG$P22TGBSM=="No inscrito/No tenía edad",NA,ARG$vote_

#trust in the judiciary:
ARG$conf_judge <- ifelse(ARG$P26TGB_E=="Lot",3,NA)
ARG$conf_judge <- ifelse(ARG$P26TGB_E=="Some",2,ARG$conf_judge)
ARG$conf_judge <- ifelse(ARG$P26TGB_E=="A little",1,ARG$conf_judge)
ARG$conf_judge <- ifelse(ARG$P26TGB_E=="No trust",0,ARG$conf_judge)

#trust in the political parties:
ARG$conf_parties <- ifelse(ARG$P26TGB_G=="Lot",3,NA)
ARG$conf_parties <- ifelse(ARG$P26TGB_G=="Some",2,ARG$conf_parties)
ARG$conf_parties <- ifelse(ARG$P26TGB_G=="A little",1,ARG$conf_parties)
ARG$conf_parties <- ifelse(ARG$P26TGB_G=="No trust",0,ARG$conf_parties)

#trust in the legislature:
ARG$conf_parl <- ifelse(ARG$P26TGB_C=="Lot",3,NA)
ARG$conf_parl <- ifelse(ARG$P26TGB_C=="Some",2,ARG$conf_parl)
ARG$conf_parl <- ifelse(ARG$P26TGB_C=="A little",1,ARG$conf_parl)
ARG$conf_parl <- ifelse(ARG$P26TGB_C=="No trust",0,ARG$conf_parl)

#trust in the armed forces:
ARG$conf_military <- ifelse(ARG$P28TGB_A=="Lot",3,NA)
ARG$conf_military <- ifelse(ARG$P28TGB_A=="Some",2,ARG$conf_military)
ARG$conf_military <- ifelse(ARG$P28TGB_A=="Little",1,ARG$conf_military)
ARG$conf_military <- ifelse(ARG$P28TGB_A=="Nothing",0,ARG$conf_military)

#trust in the church:
ARG$conf_church <- ifelse(ARG$P28ST_E=="Lot",3,NA)
```

```
ARG$conf_church <- ifelse(ARG$P28ST_E=="Some",2,ARG$conf_church)
ARG$conf_church <- ifelse(ARG$P28ST_E=="Little",1,ARG$conf_church)
ARG$conf_church <- ifelse(ARG$P28ST_E=="Nothing",0,ARG$conf_church)


##number of observations in cities with observations on both sides of threshold:

band7 <- subset(ARG,!is.na(ARG$treat7))
cities7T <- unique(subset(band7, band7$treat7==1)$ciudad) #cities in treatment
cities7C <- unique(subset(band7, band7$treat7==0)$ciudad) #cities in control
cities7 <- intersect(cities7T,cities7C) #cities with observations in both treatment and control
band7 <- subset(band7, band7$ciudad %in% cities7) #observations from cities that are in both treatment
nrow(band7)
```

```
## [1] 511
```

```
nrow(subset(band7,band7$treat7==1)) #observations in treatment
```

```
## [1] 306
```

```
nrow(subset(band7,band7$treat7==0)) #observations in control
```

```
## [1] 205
```

```
band14 <- subset(ARG,!is.na(ARG$treat14))
cities14T <- unique(subset(band14, band14$treat14==1)$ciudad) #cities in treatment
cities14C <- unique(subset(band14, band14$treat14==0)$ciudad) #cities in control
cities14 <- intersect(cities14T,cities14C) #cities with observations in both treatment and control
band14 <- subset(band14, band14$ciudad %in% cities14) #observations from cities that are in both treatm
nrow(band14)
```

```
## [1] 826
```

```
nrow(subset(band14,band14$treat14==1)) #observations in treatment
```

```
## [1] 559
```

```
nrow(subset(band14,band14$treat14==0)) #observations in control
```

```
## [1] 267
```

```
#observations with all covariates (no missingness):

band7_controls <- subset(band7,(!is.na(band7$male) & !is.na(band7$age) & !is.na(band7$incomplete_highscl
cities7_controls_T <- unique(subset(band7_controls, band7_controls$treat7==1)$ciudad) #cities in treatm
cities7_controls_C <- unique(subset(band7_controls, band7_controls$treat7==0)$ciudad) #cities in contro
cities7_controls <- intersect(cities7_controls_T,cities7_controls_C) #cities with observations in both
band7_controls <- subset(band7_controls, band7_controls$ciudad %in% cities7_controls) #observations fro
nrow(band7_controls)
```

```
## [1] 506
```

```
nrow(subset(band7_controls,band7_controls$treat7==1)) #observations in treatment
```

```
## [1] 304
```

```
nrow(subset(band7_controls,band7_controls$treat7==0)) #observations in control
```

```
## [1] 202
```

```
#for 14 day window:
band14_controls <- subset(band14,(!is.na(band14$male) & !is.na(band14$age) & !is.na(band14$incomplete_hi
cities14_controls_T <- unique(subset(band14_controls, band14_controls$treat14==1)$ciudad) #cities in tr
cities14_controls_C <- unique(subset(band14_controls, band14_controls$treat14==0)$ciudad) #cities in co
cities14_controls <- intersect(cities14_controls_T,cities14_controls_C) #cities with observations in bo
band14_controls <- subset(band14_controls, band14_controls$ciudad %in% cities14_controls) #observations
nrow(band14_controls)
```

```
## [1] 818
```

```
nrow(subset(band14_controls,band14_controls$treat14==1)) #observations in treatment
```

```
## [1] 554
```

```
nrow(subset(band14_controls,band14_controls$treat14==0)) #observations in control
```

```
## [1] 264
```

```
##number of valid observations for each covariate:

#age:
band7_controls_age <- subset(band7,!is.na(band7$age))
cities7_controls_T_age <- unique(subset(band7_controls_age, band7_controls_age$treat7==1)$ciudad) #citi
cities7_controls_C_age <- unique(subset(band7_controls_age, band7_controls_age$treat7==0)$ciudad) #citi
cities7_controls_age <- intersect(cities7_controls_T_age,cities7_controls_C_age) #cities with observati
band7_controls_age <- subset(band7_controls_age, band7_controls_age$ciudad %in% cities7_controls_age) #
nrow(band7_controls_age)
```

```
## [1] 511
```

```
#male:
band7_controls_male <- subset(band7,!is.na(band7$male))
cities7_controls_T_male <- unique(subset(band7_controls_male, band7_controls_male$treat7==1)$ciudad) #c
cities7_controls_C_male <- unique(subset(band7_controls_male, band7_controls_male$treat7==0)$ciudad) #c
cities7_controls_male <- intersect(cities7_controls_T_male,cities7_controls_C_male) #cities with observ
band7_controls_male <- subset(band7_controls_male, band7_controls_male$ciudad %in% cities7_controls_mal
nrow(band7_controls_male)
```

```
## [1] 511
```

```
#incomplete_highschool:
band7_controls_incomplete_highschool <- subset(band7,!is.na(band7$incomplete_highschool))
cities7_controls_T_incomplete_highschool <- unique(subset(band7_controls_incomplete_highschool, band7_c
cities7_controls_C_incomplete_highschool <- unique(subset(band7_controls_incomplete_highschool, band7_c
cities7_controls_incomplete_highschool <- intersect(cities7_controls_T_incomplete_highschool,cities7_co
band7_controls_incomplete_highschool <- subset(band7_controls_incomplete_highschool, band7_controls_inc
nrow(band7_controls_incomplete_highschool)
```

```
## [1] 511
```

```
#complete_highschool:
band7_controls_complete_highschool <- subset(band7,!is.na(band7$complete_highschool))
cities7_controls_T_complete_highschool <- unique(subset(band7_controls_complete_highschool, band7_contr
cities7_controls_C_complete_highschool <- unique(subset(band7_controls_complete_highschool, band7_contr
cities7_controls_complete_highschool <- intersect(cities7_controls_T_complete_highschool,cities7_contro
band7_controls_complete_highschool <- subset(band7_controls_complete_highschool, band7_controls_complet
nrow(band7_controls_complete_highschool)
```

```
## [1] 511
```

```
#university:
band7_controls_university <- subset(band7,!is.na(band7$university))
cities7_controls_T_university <- unique(subset(band7_controls_university, band7_controls_university$trea
cities7_controls_C_university <- unique(subset(band7_controls_university, band7_controls_university$trea
cities7_controls_university <- intersect(cities7_controls_T_university,cities7_controls_C_university) #
band7_controls_university <- subset(band7_controls_university, band7_controls_university$ciudad %in% ci
nrow(band7_controls_university)
```

```
## [1] 511
```

```
#laborforce:
band7_controls_laborforce <- subset(band7,!is.na(band7$laborforce))
cities7_controls_T_laborforce <- unique(subset(band7_controls_laborforce, band7_controls_laborforce$trea
cities7_controls_C_laborforce <- unique(subset(band7_controls_laborforce, band7_controls_laborforce$trea
cities7_controls_laborforce <- intersect(cities7_controls_T_laborforce,cities7_controls_C_laborforce) #
band7_controls_laborforce <- subset(band7_controls_laborforce, band7_controls_laborforce$ciudad %in% ci
nrow(band7_controls_laborforce)
```

```
## [1] 511
```

```
#poverty:
band7_controls_poverty <- subset(band7,!is.na(band7$poverty))
cities7_controls_T_poverty <- unique(subset(band7_controls_poverty, band7_controls_poverty$treat7==1)$ci
cities7_controls_C_poverty <- unique(subset(band7_controls_poverty, band7_controls_poverty$treat7==0)$ci
cities7_controls_poverty <- intersect(cities7_controls_T_poverty,cities7_controls_C_poverty) #cities wi
band7_controls_poverty <- subset(band7_controls_poverty, band7_controls_poverty$ciudad %in% cities7_con
nrow(band7_controls_poverty)
```

```
## [1] 507
```

```
#voted:
band7_controls_voted <- subset(band7,!is.na(band7$voted))
cities7_controls_T_voted <- unique(subset(band7_controls_voted, band7_controls_voted$treat7==1)$ciudad)
cities7_controls_C_voted <- unique(subset(band7_controls_voted, band7_controls_voted$treat7==0)$ciudad)
cities7_controls_voted <- intersect(cities7_controls_T_voted,cities7_controls_C_voted) #cities with obs
band7_controls_voted <- subset(band7_controls_voted, band7_controls_voted$ciudad %in% cities7_controls_v
nrow(band7_controls_voted)
```

```
## [1] 510
```

```
##number of valid observations for each outcome:

#progcorrupt:
band7_controls_progcorrupt <- subset(band7,!is.na(band7$progcorrupt))
cities7_controls_T_progcorrupt <- unique(subset(band7_controls_progcorrupt, band7_controls_progcorrupt$t
cities7_controls_C_progcorrupt <- unique(subset(band7_controls_progcorrupt, band7_controls_progcorrupt$t
cities7_controls_progcorrupt <- intersect(cities7_controls_T_progcorrupt,cities7_controls_C_progcorrupt)
band7_controls_progcorrupt <- subset(band7_controls_progcorrupt, band7_controls_progcorrupt$ciudad %in%
nrow(band7_controls_progcorrupt)
```

```
## [1] 491
```

```
#solvecorrupt:
band7_controls_solvecorrupt <- subset(band7,!is.na(band7$solvecorrupt))
cities7_controls_T_solvecorrupt <- unique(subset(band7_controls_solvecorrupt, band7_controls_solvecorrup
cities7_controls_C_solvecorrupt <- unique(subset(band7_controls_solvecorrupt, band7_controls_solvecorrup
cities7_controls_solvecorrupt <- intersect(cities7_controls_T_solvecorrupt,cities7_controls_C_solvecorru
band7_controls_solvecorrupt <- subset(band7_controls_solvecorrupt, band7_controls_solvecorrupt$ciudad %
```

```
nrow(band7_controls_solvecorrupt)
```

```
## [1] 503
```

```
#corrupt:
band7_controls_corrupt <- subset(band7,!is.na(band7$corrupt))
cities7_controls_T_corrupt <- unique(subset(band7_controls_corrupt, band7_controls_corrupt$treat7==1)$c
cities7_controls_C_corrupt <- unique(subset(band7_controls_corrupt, band7_controls_corrupt$treat7==0)$c
cities7_controls_corrupt <- intersect(cities7_controls_T_corrupt,cities7_controls_C_corrupt) #cities wi
band7_controls_corrupt <- subset(band7_controls_corrupt, band7_controls_corrupt$ciudad %in% cities7_con
nrow(band7_controls_corrupt)
```

```
## [1] 491
```

```
#demonstrate_willingness:
band7_controls_demonstrate_willingness <- subset(band7,!is.na(band7$demonstrate_willingness))
cities7_controls_T_demonstrate_willingness <- unique(subset(band7_controls_demonstrate_willingness, ban
cities7_controls_C_demonstrate_willingness <- unique(subset(band7_controls_demonstrate_willingness, ban
cities7_controls_demonstrate_willingness <- intersect(cities7_controls_T_demonstrate_willingness,cities
band7_controls_demonstrate_willingness <- subset(band7_controls_demonstrate_willingness, band7_controls
nrow(band7_controls_demonstrate_willingness)
```

```
## [1] 508
```

```
#vote_invalid:
band7_controls_vote_invalid <- subset(band7,!is.na(band7$vote_invalid))
cities7_controls_T_vote_invalid <- unique(subset(band7_controls_vote_invalid, band7_controls_vote_inval
cities7_controls_C_vote_invalid <- unique(subset(band7_controls_vote_invalid, band7_controls_vote_inval
cities7_controls_vote_invalid <- intersect(cities7_controls_T_vote_invalid,cities7_controls_C_vote_inva
band7_controls_vote_invalid <- subset(band7_controls_vote_invalid, band7_controls_vote_invalid$ciudad %
nrow(band7_controls_vote_invalid)
```

```
## [1] 482
```

```
#conf_judge:
band7_controls_conf_judge <- subset(band7,!is.na(band7$conf_judge))
cities7_controls_T_conf_judge <- unique(subset(band7_controls_conf_judge, band7_controls_conf_judge$trea
cities7_controls_C_conf_judge <- unique(subset(band7_controls_conf_judge, band7_controls_conf_judge$trea
cities7_controls_conf_judge <- intersect(cities7_controls_T_conf_judge,cities7_controls_C_conf_judge) #
band7_controls_conf_judge <- subset(band7_controls_conf_judge, band7_controls_conf_judge$ciudad %in% ci
nrow(band7_controls_conf_judge)
```

```
## [1] 506
```

```
#conf_parties:
band7_controls_conf_parties <- subset(band7,!is.na(band7$conf_parties))
cities7_controls_T_conf_parties <- unique(subset(band7_controls_conf_parties, band7_controls_conf_parti
cities7_controls_C_conf_parties <- unique(subset(band7_controls_conf_parties, band7_controls_conf_parti
cities7_controls_conf_parties <- intersect(cities7_controls_T_conf_parties,cities7_controls_C_conf_part
band7_controls_conf_parties <- subset(band7_controls_conf_parties, band7_controls_conf_parties$ciudad %
nrow(band7_controls_conf_parties)
```

```
## [1] 504
```

```
#conf_parl:
band7_controls_conf_parl <- subset(band7,!is.na(band7$conf_parl))
cities7_controls_T_conf_parl <- unique(subset(band7_controls_conf_parl, band7_controls_conf_parl$treat7=
cities7_controls_C_conf_parl <- unique(subset(band7_controls_conf_parl, band7_controls_conf_parl$treat7=
```

```r
cities7_controls_conf_parl <- intersect(cities7_controls_T_conf_parl,cities7_controls_C_conf_parl) #cit
band7_controls_conf_parl <- subset(band7_controls_conf_parl, band7_controls_conf_parl$ciudad %in% cities
nrow(band7_controls_conf_parl)
```

```
## [1] 505
```

```r
##number of valid observations with data for all covariates and outcomes:
band7_controls_full <- subset(band7,!is.na(age) & !is.na(male) & !is.na(incomplete_highschool) & !is.na
cities7_controls_T_full <- unique(subset(band7_controls_full, band7_controls_full$treat7==1)$ciudad) #c
cities7_controls_C_full <- unique(subset(band7_controls_full, band7_controls_full$treat7==0)$ciudad) #c
cities7_controls_full <- intersect(cities7_controls_T_full,cities7_controls_C_full) #cities with observ
band7_controls_full <- subset(band7_controls_full, band7_controls_full$ciudad %in% cities7_controls_full
nrow(band7_controls_full)
```

```
## [1] 428
```

```r
nrow(subset(band7_controls_full,band7_controls_full$treat7==1)) #observations in treatment
```

```
## [1] 247
```

```r
nrow(subset(band7_controls_full,band7_controls_full$treat7==0)) #observations in control
```

```
## [1] 181
```

```r
#for 14 days:
band14_controls_full <- subset(band14,!is.na(age) & !is.na(male) & !is.na(incomplete_highschool) & !is.n
cities14_controls_T_full <- unique(subset(band14_controls_full, band14_controls_full$treat14==1)$ciudad)
cities14_controls_C_full <- unique(subset(band14_controls_full, band14_controls_full$treat14==0)$ciudad)
cities14_controls_full <- intersect(cities14_controls_T_full,cities14_controls_C_full) #cities with obs
band14_controls_full <- subset(band14_controls_full, band14_controls_full$ciudad %in% cities14_controls_
nrow(band14_controls_full)
```

```
## [1] 658
```

```r
nrow(subset(band14_controls_full,band14_controls_full$treat14==1)) #observations in treatment
```

```
## [1] 424
```

```r
nrow(subset(band14_controls_full,band14_controls_full$treat14==0)) #observations in control
```

```
## [1] 234
```

```r
###balance tests:
##Table A5:

balance <-
rbind(
  c("age",
    summary(lm(age ~ treat7 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(age ~ treat7 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$age),1,0)),
    nrow(band7_controls_age)),
  c("male",
    summary(lm(male ~ treat7 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(male ~ treat7 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$male),1,0)),
    nrow(band7_controls_male)),
  c("incomplete_highschool",
    summary(lm(incomplete_highschool ~ treat7 + factor(ciudad),data=ARG))$coefficients[1,1],
```

```
    summary(lm(incomplete_highschool ~ treat7 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$incomplete_highschool),1,0)),
    nrow(band7_controls_incomplete_highschool)),
  c("complete_highschool",
    summary(lm(complete_highschool ~ treat7 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(complete_highschool ~ treat7 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$complete_highschool),1,0)),
    nrow(band7_controls_complete_highschool)),
  c("university",
    summary(lm(university ~ treat7 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(university ~ treat7 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$university),1,0)),
    nrow(band7_controls_university)),
  c("laborforce",
    summary(lm(laborforce ~ treat7 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(laborforce ~ treat7 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$laborforce),1,0)),
    nrow(band7_controls_laborforce)),
  c("poverty",
    summary(lm(poverty ~ treat7 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(poverty ~ treat7 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$poverty),1,0)),
    nrow(band7_controls_poverty)),
  c("voted",
    summary(lm(voted ~ treat7 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(voted ~ treat7 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$voted),1,0)),
    nrow(band7_controls_voted))
)
balance <- cbind(balance[,c(1:2)],rowSums(cbind(as.numeric(balance[,2]),as.numeric(balance[,3]))),balan

colnames(balance) <- c("Variable","Control","Treatment","Diff. means","SE", "p-value", "Valid N","Analy
balance[,2] <- round(as.numeric(balance[,2]),digits=3)
balance[,3] <- round(as.numeric(balance[,3]),digits=3)
balance[,4] <- round(as.numeric(balance[,4]),digits=3)
balance[,5] <- round(as.numeric(balance[,5]),digits=3)
balance[,6] <- round(as.numeric(balance[,6]),digits=3)

balance.table <- balance[,c(1:4,6:8)]

#Table A5:
stargazer(balance.table, out="TableA5.tex")
```

```
##
## % Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harva
## % Date and time: Tue, Nov 08, 2022 - 11:06:33
## \begin{table}[!htbp] \centering
##   \caption{}
##   \label{}
## \begin{tabular}{@{\extracolsep{5pt}} ccccccc}
## \\[-1.8ex]\hline
## \hline \\[-1.8ex]
## Variable & Control & Treatment & Diff. means & p-value & Valid N & Analytic N \\
## \hline \\[-1.8ex]
```

```
## age & 44.878 & 44.467 & -0.411 & 0.811 & 761 & 511 \\
## male & 0.462 & 0.505 & 0.044 & 0.379 & 761 & 511 \\
## incomplete\_highschool & 0.478 & 0.424 & -0.055 & 0.239 & 761 & 511 \\
## complete\_highschool & 0.208 & 0.231 & 0.022 & 0.609 & 761 & 511 \\
## university & 0.313 & 0.346 & 0.032 & 0.432 & 761 & 511 \\
## laborforce & 0.693 & 0.686 & -0.007 & 0.883 & 761 & 511 \\
## poverty & 0.406 & 0.375 & -0.031 & 0.475 & 757 & 507 \\
## voted & 0.724 & 0.703 & -0.021 & 0.565 & 759 & 510 \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

```
###descriptive statistics for outcomes:

##for all observations
##Table A1:

descriptives <- rbind(
c("progcorrupt",min(ARG$progcorrupt,na.rm=T),max(ARG$progcorrupt,na.rm=T),mean(ARG$progcorrupt,na.rm=T)
c("solvecorrupt",min(ARG$solvecorrupt,na.rm=T),max(ARG$solvecorrupt,na.rm=T),mean(ARG$solvecorrupt,na.r
c("corrupt",min(ARG$corrupt,na.rm=T),max(ARG$corrupt,na.rm=T),mean(ARG$corrupt,na.rm=T),median(ARG$corr
c("demonstrate_willingness",min(ARG$demonstrate_willingness,na.rm=T),max(ARG$demonstrate_willingness,na
c("vote_invalid",min(ARG$vote_invalid,na.rm=T),max(ARG$vote_invalid,na.rm=T),mean(ARG$vote_invalid,na.r
c("conf_judge",min(ARG$conf_judge,na.rm=T),max(ARG$conf_judge,na.rm=T),mean(ARG$conf_judge,na.rm=T),medi
c("conf_parties",min(ARG$conf_parties,na.rm=T),max(ARG$conf_parties,na.rm=T),mean(ARG$conf_parties,na.r
c("conf_parl",min(ARG$conf_parl,na.rm=T),max(ARG$conf_parl,na.rm=T),mean(ARG$conf_parl,na.rm=T),median(A
)

colnames(descriptives) <- c("Variable","Minimum","Maximum","Mean","Median","Valid N")
descriptives[,4] <- round(as.numeric(descriptives[,4]),3)
descriptives[,5] <- round(as.numeric(descriptives[,5]),3)

descriptives
```

```
##      Variable                  Minimum Maximum Mean    Median  Valid N
## [1,] "progcorrupt"             "0"     "3"     "0.957" "1"     "1145"
## [2,] "solvecorrupt"            "0"     "3"     "1.596" "2"     "1178"
## [3,] "corrupt"                 "1"     "4"     "2.821" "3"     "1132"
## [4,] "demonstrate_willingness" "0"     "1"     "0.547" "0.667" "1185"
## [5,] "vote_invalid"            "0"     "1"     "0.145" "0"     "1114"
## [6,] "conf_judge"              "0"     "3"     "1.058" "1"     "1175"
## [7,] "conf_parties"            "0"     "3"     "0.911" "1"     "1188"
## [8,] "conf_parl"               "0"     "3"     "1.188" "1"     "1174"
```

```
#Table A1:
stargazer(descriptives, out="TableA1.tex")
```

```
##
## % Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harva
## % Date and time: Tue, Nov 08, 2022 - 11:06:33
## \begin{table}[!htbp] \centering
##   \caption{}
##   \label{}
## \begin{tabular}{@{\extracolsep{5pt}} cccccc}
## \\[-1.8ex]\hline
```

```
## \hline \\[-1.8ex]
## Variable & Minimum & Maximum & Mean & Median & Valid N \\
## \hline \\[-1.8ex]
## progcorrupt & 0 & 3 & 0.957 & 1 & 1145 \\
## solvecorrupt & 0 & 3 & 1.596 & 2 & 1178 \\
## corrupt & 1 & 4 & 2.821 & 3 & 1132 \\
## demonstrate\_willingness & 0 & 1 & 0.547 & 0.667 & 1185 \\
## vote\_invalid & 0 & 1 & 0.145 & 0 & 1114 \\
## conf\_judge & 0 & 3 & 1.058 & 1 & 1175 \\
## conf\_parties & 0 & 3 & 0.911 & 1 & 1188 \\
## conf\_parl & 0 & 3 & 1.188 & 1 & 1174 \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

```
##for analytic sample:
##Table A2:
descriptives_analytic <- rbind(
  c("progcorrupt",min(band7_controls_progcorrupt$progcorrupt,na.rm=T),max(band7_controls_progcorrupt$pro
  c("solvecorrupt",min(band7_controls_solvecorrupt$solvecorrupt,na.rm=T),max(band7_controls_solvecorrupt
  c("corrupt",min(band7_controls_corrupt$corrupt,na.rm=T),max(band7_controls_corrupt$corrupt,na.rm=T),ma
  c("demonstrate_willingness",min(band7_controls_demonstrate_willingness$demonstrate_willingness,na.rm=
  c("vote_invalid",min(band7_controls_vote_invalid$vote_invalid,na.rm=T),max(band7_controls_vote_invalid
  c("conf_judge",min(band7_controls_conf_judge$conf_judge,na.rm=T),max(band7_controls_conf_judge$conf_ju
  c("conf_parties",min(band7_controls_conf_parties$conf_parties,na.rm=T),max(band7_controls_conf_parties
  c("conf_parl",min(band7_controls_conf_parl$conf_parl,na.rm=T),max(band7_controls_conf_parl$conf_parl,n
)

colnames(descriptives_analytic) <- c("Variable","Minimum","Maximum","Mean","Median","Valid N")
descriptives_analytic[,4] <- round(as.numeric(descriptives_analytic[,4]),3)
descriptives_analytic[,5] <- round(as.numeric(descriptives_analytic[,5]),3)

descriptives_analytic
```

```
##      Variable                  Minimum Maximum Mean    Median  Valid N
## [1,] "progcorrupt"             "0"     "3"     "0.963" "1"     "491"
## [2,] "solvecorrupt"            "0"     "3"     "1.594" "2"     "503"
## [3,] "corrupt"                 "1"     "4"     "2.811" "3"     "491"
## [4,] "demonstrate_willingness" "0"     "1"     "0.542" "0.667" "508"
## [5,] "vote_invalid"            "0"     "1"     "0.131" "0"     "482"
## [6,] "conf_judge"              "0"     "3"     "1.069" "1"     "506"
## [7,] "conf_parties"            "0"     "3"     "0.98"  "1"     "504"
## [8,] "conf_parl"               "0"     "3"     "1.182" "1"     "505"
```

```
#Table A2:
stargazer(descriptives_analytic, out="TableA2.tex")
```

```
##
## % Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harva
## % Date and time: Tue, Nov 08, 2022 - 11:06:33
## \begin{table}[!htbp] \centering
##   \caption{}
##   \label{}
## \begin{tabular}{@{\extracolsep{5pt}} cccccc}
## \\[-1.8ex]\hline
```

```
## \hline \\[-1.8ex]
## Variable & Minimum & Maximum & Mean & Median & Valid N \\
## \hline \\[-1.8ex]
## progcorrupt & 0 & 3 & 0.963 & 1 & 491 \\
## solvecorrupt & 0 & 3 & 1.594 & 2 & 503 \\
## corrupt & 1 & 4 & 2.811 & 3 & 491 \\
## demonstrate\_willingness & 0 & 1 & 0.542 & 0.667 & 508 \\
## vote\_invalid & 0 & 1 & 0.131 & 0 & 482 \\
## conf\_judge & 0 & 3 & 1.069 & 1 & 506 \\
## conf\_parties & 0 & 3 & 0.98 & 1 & 504 \\
## conf\_parl & 0 & 3 & 1.182 & 1 & 505 \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

```
###treatment effects for main outcomes (without covariates):
###Table A8:
outcomes <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat7 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(progcorrupt ~ treat7 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$progcorrupt),1,0)),
    summary(lm(progcorrupt ~ treat14 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(progcorrupt ~ treat14 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat14==0|ARG$treat14==1)$progcorrupt),1,0))),
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ treat7 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(solvecorrupt ~ treat7 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$solvecorrupt),1,0)),
    summary(lm(solvecorrupt ~ treat14 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(solvecorrupt ~ treat14 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat14==0|ARG$treat14==1)$solvecorrupt),1,0))),
  c("corrupt",
    summary(lm(corrupt ~ treat7 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(corrupt ~ treat7 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$corrupt),1,0)),
    summary(lm(corrupt ~ treat14 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(corrupt ~ treat14 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat14==0|ARG$treat14==1)$corrupt),1,0))),
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ treat7 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(demonstrate_willingness ~ treat7 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$demonstrate_willingness),1,0)),
    summary(lm(demonstrate_willingness ~ treat14 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(demonstrate_willingness ~ treat14 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)]
    sum(ifelse(!is.na(subset(ARG,ARG$treat14==0|ARG$treat14==1)$demonstrate_willingness),1,0))),
  c("vote_null",
    summary(lm(vote_null ~ treat7 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(vote_null ~ treat7 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$vote_null),1,0)),
    summary(lm(vote_null ~ treat14 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(vote_null ~ treat14 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat14==0|ARG$treat14==1)$vote_null),1,0))),
  c("vote_not",
```

```
    summary(lm(vote_not ~ treat7 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(vote_not ~ treat7 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$vote_not),1,0)),
    summary(lm(vote_not ~ treat14 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(vote_not ~ treat14 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat14==0|ARG$treat14==1)$vote_not),1,0))),
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat7 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(vote_invalid ~ treat7 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$vote_invalid),1,0)),
    summary(lm(vote_invalid ~ treat14 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(vote_invalid ~ treat14 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat14==0|ARG$treat14==1)$vote_invalid),1,0))),
  c("conf_judge",
    summary(lm(conf_judge ~ treat7 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(conf_judge ~ treat7 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$conf_judge),1,0)),
    summary(lm(conf_judge ~ treat14 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(conf_judge ~ treat14 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat14==0|ARG$treat14==1)$conf_judge),1,0))),
  c("conf_parties",
    summary(lm(conf_parties ~ treat7 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(conf_parties ~ treat7 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$conf_parties),1,0)),
    summary(lm(conf_parties ~ treat14 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(conf_parties ~ treat14 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat14==0|ARG$treat14==1)$conf_parties),1,0))),
  c("conf_parl",
    summary(lm(conf_parl ~ treat7 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(conf_parl ~ treat7 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$conf_parl),1,0)),
    summary(lm(conf_parl ~ treat14 + factor(ciudad),data=ARG))$coefficients[1,1],
    summary(lm(conf_parl ~ treat14 + factor(ciudad),data=ARG))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(ARG,ARG$treat14==0|ARG$treat14==1)$conf_parl),1,0)))
)

colnames(outcomes) <- c("Variable","Intercept7","Estimate7","SE7","pvalue7","ValidN7","Intercept14","Es

table_without_controls <- outcomes[,c(1,3,4:6)]
table_without_controls <- as.data.frame(table_without_controls)
table_without_controls[,2] <- round(as.numeric(as.character(table_without_controls[,2])),3)
table_without_controls[,3] <- round(as.numeric(as.character(table_without_controls[,3])),3)
table_without_controls[,4] <- round(as.numeric(as.character(table_without_controls[,4])),3)

table_without_controls <- table_without_controls[c(1:4,7:10),]

table_without_controls[,1] <- c("Progress on state corruption","State's ability to solve corruption","P

colnames(table_without_controls) <- c("Variable","Effect","SE","p Value", "N")

#Table A8:
stargazer(as.matrix(table_without_controls),rownames = F, out="TableA8.tex")

##
```

```
## % Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harva
## % Date and time: Tue, Nov 08, 2022 - 11:06:33
## \begin{table}[!htbp] \centering
##   \caption{}
##   \label{}
## \begin{tabular}{@{\extracolsep{5pt}} ccccc}
## \\[-1.8ex]\hline
## \hline \\[-1.8ex]
## Variable & Effect & SE & p Value & N \\
## \hline \\[-1.8ex]
## Progress on state corruption & -0.200 & 0.091 & 0.028 & 729 \\
## State's ability to solve corruption & -0.163 & 0.103 & 0.114 & 748 \\
## Prevalence of corruption &  0.094 & 0.072 & 0.189 & 729 \\
## Demonstrate & -0.083 & 0.035 & 0.018 & 755 \\
## Invalid vote &  0.084 & 0.033 & 0.011 & 714 \\
## Trust in judiciary & -0.254 & 0.084 & 0.003 & 754 \\
## Trust in parties & -0.211 & 0.085 & 0.013 & 753 \\
## Trust in congress & -0.194 & 0.087 & 0.025 & 751 \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

```
###treatment effects for main outcomes (with covariates):
##Table A7:
outcomes_controls <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + povei
    summary(lm(progcorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + povei
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$progcorrupt),1,0)),
    summary(lm(progcorrupt ~ treat14 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(progcorrupt ~ treat14 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(ARG,ARG$treat14==0|ARG$treat14==1)$progcorrupt),1,0))),
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(solvecorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$solvecorrupt),1,0)),
    summary(lm(solvecorrupt ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(solvecorrupt ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(ARG,ARG$treat14==0|ARG$treat14==1)$solvecorrupt),1,0))),
  c("corrupt",
    summary(lm(corrupt ~ treat7 + male + age + complete_highschool + university + laborforce + poverty +
    summary(lm(corrupt ~ treat7 + male + age + complete_highschool + university + laborforce + poverty +
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$corrupt),1,0)),
    summary(lm(corrupt ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(corrupt ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG,ARG$treat14==0|ARG$treat14==1)$corrupt),1,0))),
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ treat7 + male + age + complete_highschool + university + labori
    summary(lm(demonstrate_willingness ~ treat7 + male + age + complete_highschool + university + labori
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$demonstrate_willingness),1,0)),
    summary(lm(demonstrate_willingness ~ treat14 + male + age + complete_highschool + university + labo
    summary(lm(demonstrate_willingness ~ treat14 + male + age + complete_highschool + university + labo
    sum(ifelse(!is.na(subset(ARG,ARG$treat14==0|ARG$treat14==1)$demonstrate_willingness),1,0))),
  c("vote_null",
```

```
    summary(lm(vote_null ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_null ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$vote_null),1,0)),
    summary(lm(vote_null ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_null ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG,ARG$treat14==0|ARG$treat14==1)$vote_null),1,0))),
  c("vote_not",
    summary(lm(vote_not ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_not ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$vote_not),1,0)),
    summary(lm(vote_not ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_not ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG,ARG$treat14==0|ARG$treat14==1)$vote_not),1,0))),
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(vote_invalid ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$vote_invalid),1,0)),
    summary(lm(vote_invalid ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(vote_invalid ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(ARG,ARG$treat14==0|ARG$treat14==1)$vote_invalid),1,0))),
  c("conf_judge",
    summary(lm(conf_judge ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_judge ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$conf_judge),1,0)),
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + povert
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + povert
    sum(ifelse(!is.na(subset(ARG,ARG$treat14==0|ARG$treat14==1)$conf_judge),1,0))),
  c("conf_parties",
    summary(lm(conf_parties ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(conf_parties ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$conf_parties),1,0)),
    summary(lm(conf_parties ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(conf_parties ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(ARG,ARG$treat14==0|ARG$treat14==1)$conf_parties),1,0))),
  c("conf_parl",
    summary(lm(conf_parl ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_parl ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$conf_parl),1,0)),
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG,ARG$treat14==0|ARG$treat14==1)$conf_parl),1,0)))
)

colnames(outcomes_controls) <- c("Variable","Intercept7","Estimate7","SE7","pvalue7","ValidN7","Intercep

table_appendix <- outcomes_controls[,c(1,3,4:6)]
table_appendix[,2] <- round(as.numeric(table_appendix[,2]),3)
table_appendix[,3] <- round(as.numeric(table_appendix[,3]),3)
table_appendix[,4] <- round(as.numeric(table_appendix[,4]),3)

table_appendix <- as.data.frame(table_appendix[c(1:4,7:10),])

table_appendix[,1] <- c("Progress on state corruption","State's ability to solve corruption","Prevalenc
```

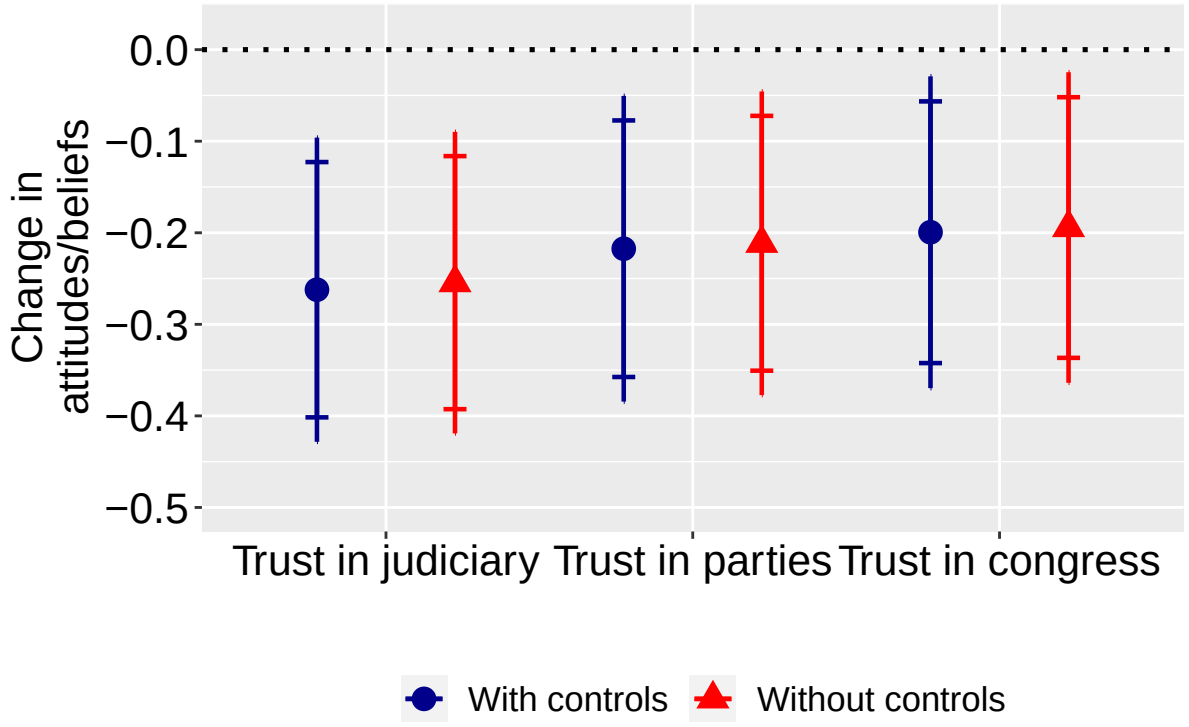
```r
table_appendix$Variable[table_appendix$Variable=="progcorrupt"] <- "Progress on state corruption"
table_appendix$Variable[table_appendix$Variable=="solvecorrupt"] <- "State's ability to solve corruptio
table_appendix$Variable[table_appendix$Variable=="corrupt"] <- "Prevalence of corruption"
table_appendix$Variable[table_appendix$Variable=="demonstrate_willingness"] <- "Demonstrate"
table_appendix$Variable[table_appendix$Variable=="vote_invalid"] <- "Invalid vote"
table_appendix$Variable[table_appendix$Variable=="conf_judge"] <- "Trust in judiciary"
table_appendix$Variable[table_appendix$Variable=="conf_parties"] <- "Trust in parties"
table_appendix$Variable[table_appendix$Variable=="conf_parl"] <- "Trust in congress"

colnames(table_appendix) <- c("Variable","Effect","SE","p Value", "N")

#Table A7:
stargazer(as.matrix(table_appendix),rownames = F, out="TableA7.tex")
```

```
##
## % Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harva
## % Date and time: Tue, Nov 08, 2022 - 11:06:33
## \begin{table}[!htbp] \centering
##   \caption{}
##   \label{}
## \begin{tabular}{@{\extracolsep{5pt}} ccccc}
## \\[-1.8ex]\hline
## \hline \\[-1.8ex]
## Variable & Effect & SE & p Value & N \\
## \hline \\[-1.8ex]
## Progress on state corruption & -0.232 & 0.091 & 0.011 & 729 \\
## State's ability to solve corruption & -0.18 & 0.104 & 0.082 & 748 \\
## Prevalence of corruption & 0.124 & 0.072 & 0.085 & 729 \\
## Demonstrate & -0.086 & 0.034 & 0.013 & 755 \\
## Invalid vote & 0.086 & 0.033 & 0.01 & 714 \\
## Trust in judiciary & -0.262 & 0.085 & 0.002 & 754 \\
## Trust in parties & -0.217 & 0.085 & 0.011 & 753 \\
## Trust in congress & -0.199 & 0.087 & 0.022 & 751 \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

```r
###CREATE FIGURES
##merge dataframes
colnames(outcomes) <- c("Variable","Intercept7","Estimate7","SE7","pvalue7","ValidN7","Intercept14","Es
outcomes <- as.data.frame(outcomes)
outcomes$Estimate7 <- as.numeric(as.character(outcomes$Estimate7))
outcomes$SE7 <- as.numeric(as.character(outcomes$SE7))
outcomes$pvalue7 <- as.numeric(as.character(outcomes$pvalue7))
outcomes$Estimate14 <- as.numeric(as.character(outcomes$Estimate14))
outcomes$SE14 <- as.numeric(as.character(outcomes$SE14))
outcomes$pvalue14 <- as.numeric(as.character(outcomes$pvalue14))
outcomes$Variable <- as.character(outcomes$Variable)
outcomes$controls <- "Without controls"

outcomes_7 <- outcomes[,c(1:6,12)]
colnames(outcomes_7)[2:6] <- c("Intercept","Estimate","SE","pvalue","ValidN")
outcomes_7$bandwidth <- "7 days"
```

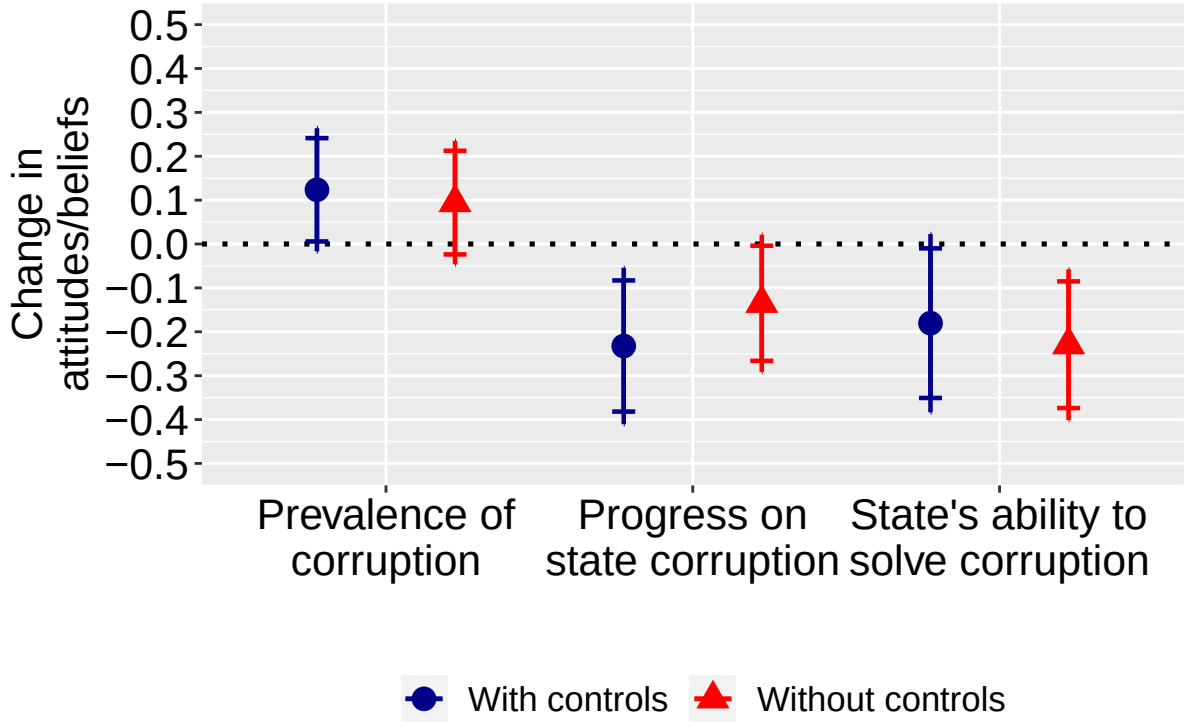
```
outcomes_14 <- outcomes[,c(1,7:12)]
colnames(outcomes_14)[2:6] <- c("Intercept","Estimate","SE","pvalue","ValidN")
outcomes_14$bandwidth <- "14 days"
outcomes_combined <- rbind(outcomes_7,outcomes_14)

colnames(outcomes_controls) <- c("Variable","Intercept7","Estimate7","SE7","pvalue7","ValidN7","Intercep
outcomes_controls <- as.data.frame(outcomes_controls)
outcomes_controls$Estimate7 <- as.numeric(as.character(outcomes_controls$Estimate7))
outcomes_controls$SE7 <- as.numeric(as.character(outcomes_controls$SE7))
outcomes_controls$pvalue7 <- as.numeric(as.character(outcomes_controls$pvalue7))
outcomes_controls$Estimate14 <- as.numeric(as.character(outcomes_controls$Estimate14))
outcomes_controls$SE14 <- as.numeric(as.character(outcomes_controls$SE14))
outcomes_controls$pvalue14 <- as.numeric(as.character(outcomes_controls$pvalue14))
outcomes_controls$Variable <- as.character(outcomes_controls$Variable)
outcomes_controls$controls <- "With controls"

outcomes_controls_7 <- outcomes_controls[,c(1:6,12)]
colnames(outcomes_controls_7)[2:6] <- c("Intercept","Estimate","SE","pvalue","ValidN")
outcomes_controls_7$bandwidth <- "7 days"

outcomes_controls_14 <- outcomes_controls[,c(1,7:12)]
colnames(outcomes_controls_14)[2:6] <- c("Intercept","Estimate","SE","pvalue","ValidN")
outcomes_controls_14$bandwidth <- "14 days"

outcomes_combined <- rbind(outcomes_combined,outcomes_controls_7,outcomes_controls_14)

outcomes_combined$Variable[c(5:7)] <- c("Vote null", "Not vote", "Invalid vote")
outcomes_combined$Variable[c(25:27)] <- c("Vote null", "Not vote", "Invalid vote")
outcomes_combined$Variable[c(15:17)] <- c("Vote null", "Not vote", "Invalid vote")
outcomes_combined$Variable[c(35:37)] <- c("Vote null", "Not vote", "Invalid vote")

outcomes_combined$Variable[c(8:10)] <- c("Trust in judiciary","Trust in parties","Trust in congress")
outcomes_combined$Variable[c(28:30)] <- c("Trust in judiciary","Trust in parties","Trust in congress")
outcomes_combined$Variable[c(18:20)] <- c("Trust in judiciary","Trust in parties","Trust in congress")
outcomes_combined$Variable[c(38:40)] <- c("Trust in judiciary","Trust in parties","Trust in congress")

ARG_outcomes <- outcomes_combined
rownames(ARG_outcomes) <- c(1:nrow(ARG_outcomes))

ARG_outcomes$Variable <- as.character(ARG_outcomes$Variable)
ARG_outcomes$Variable[ARG_outcomes$Variable=="progcorrupt"] <- "Progress on\nstate corruption"
ARG_outcomes$Variable[ARG_outcomes$Variable=="solvecorrupt"] <- "State's ability to\nsolve corruption"
ARG_outcomes$Variable[ARG_outcomes$Variable=="corrupt"] <- "Prevalence of\ncorruption"
ARG_outcomes$Variable[ARG_outcomes$Variable=="demonstrate_willingness"] <- "Demonstrate"
ARG_outcomes$Variable[ARG_outcomes$Variable=="Invalid vote"] <- "Invalid\nvote"
ARG_outcomes$Variable <- as.factor(ARG_outcomes$Variable)
ARG_outcomes$Variable <- factor(ARG_outcomes$Variable,levels = c("Trust in judiciary", "Trust in parties


##Figure 2: Trust in Parl & Parties & Judiciary:
ggplot(ARG_outcomes[c(29:30,28,9:10,8),], aes(fill=controls,y=Estimate,x=Variable))+
  ggtitle("")+
  theme(plot.title=element_text(size=16, face="bold", hjust=0.5))+
```

```
  theme(plot.margin=unit(c(0.5,0.5,0.5,0.5),"cm"))+
  geom_hline(yintercept=0, linetype="dotted",size=0.9)+
  ylab("Change in\nattitudes/beliefs")+
  xlab("")+
  scale_color_manual(values=c("darkblue", "red"))+
  theme(text=element_text(size=16))+
  theme(axis.text.y=element_text(size=16, color="black"))+
  theme(axis.text.x=element_text(size=16, color="black"))+
  theme(legend.position = "none",legend.title = element_blank())+
  scale_y_continuous(breaks=c(-0.5,-0.4,-0.3,-0.2,-0.1,0,0.1,0.2,0.3,0.4), limits=c(-0.5,0.025))+
  theme(legend.position = "bottom",legend.title = element_blank())+
  geom_point(aes(colour=controls,shape=controls),size=4,position = position_dodge(.9))+
  geom_errorbar(aes(ymax=Estimate + (SE*-qnorm((1-0.90)/2)), ymin=Estimate - (SE*-qnorm((1-0.90)/2)),co
  geom_errorbar(aes(ymax=Estimate + (SE*(-qnorm((1-0.95)/2))), ymin=Estimate - (SE*(-qnorm((1-0.95)/2))
```

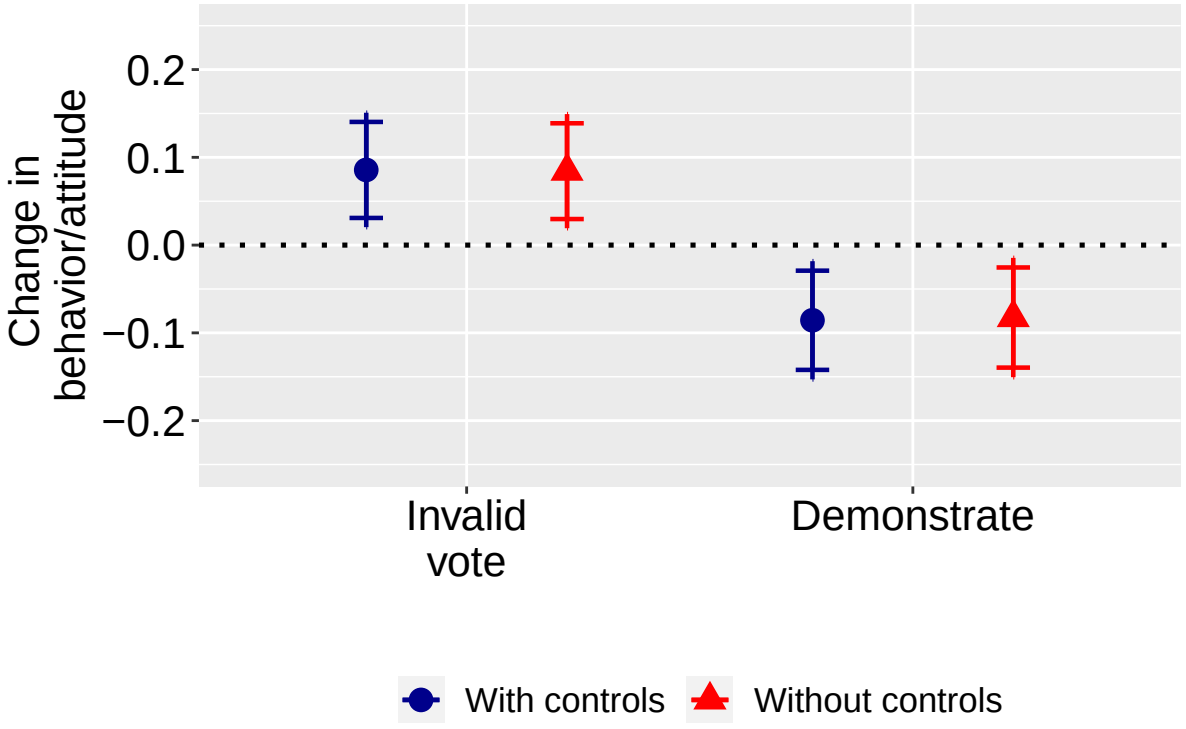



```
ggsave("Figure2.pdf", width = 9, height = 4)


##Figure 3: Prevalence of corruptions, perceptions of progress on corruption, and the state's ability t
ggplot(ARG_outcomes[c(23,21,22,3,11,12),], aes(fill=controls,y=Estimate,x=Variable))+
  ggtitle("")+
  theme(plot.title=element_text(size=16, face="bold", hjust=0.5))+
  theme(plot.margin=unit(c(0.5,0.5,0.5,0.5),"cm"))+
  geom_hline(yintercept=0, linetype="dotted",size=0.9)+
  ylab("Change in\nattitudes/beliefs")+
  xlab("")+
  scale_color_manual(values=c("darkblue", "red"))+
  theme(text=element_text(size=16))+
  theme(axis.text.y=element_text(size=16, color="black"))+
  theme(axis.text.x=element_text(size=16, color="black"))+
```

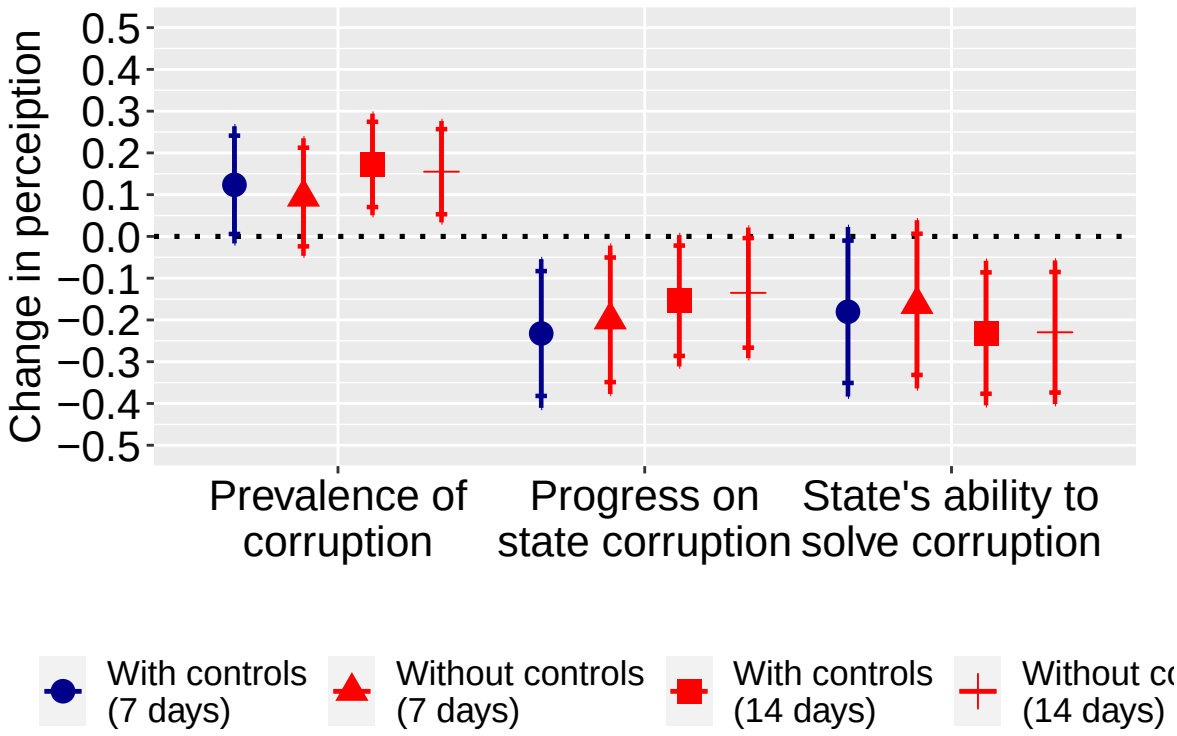
```
  theme(legend.position = "none",legend.title = element_blank())+
  scale_y_continuous(breaks=c(-0.5,-0.4,-0.3,-0.2,-0.1,0,0.1,0.2,0.3,0.4,0.5), limits=c(-0.5,0.5))+
  theme(legend.position = "bottom",legend.title = element_blank())+
  geom_point(aes(colour=controls,shape=controls),size=4,position = position_dodge(.9))+
  geom_errorbar(aes(ymax=Estimate + (SE*-qnorm((1-0.90)/2)), ymin=Estimate - (SE*-qnorm((1-0.90)/2)),co
  geom_errorbar(aes(ymax=Estimate + (SE*(-qnorm((1-0.95)/2))), ymin=Estimate - (SE*(-qnorm((1-0.95)/2))
```



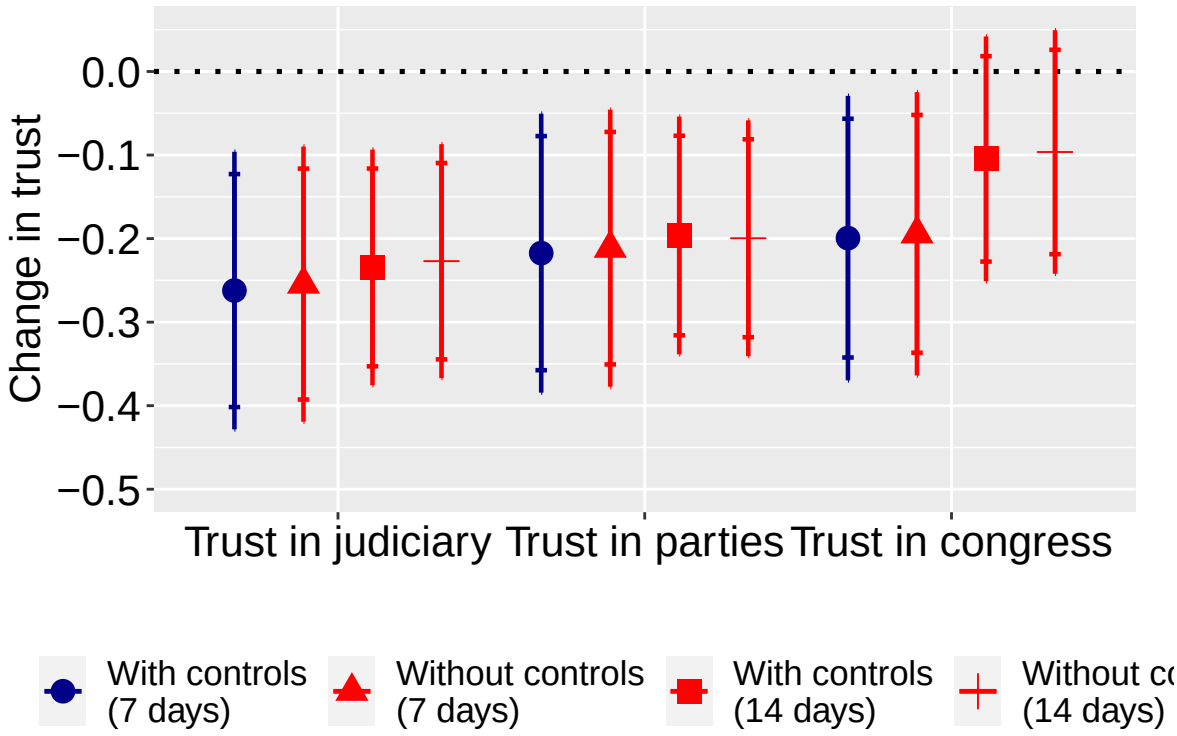

```
ggsave("Figure3.pdf", width = 9, height = 5)

##Figure 4: Political engagement
ggplot(ARG_outcomes[c(27,24,7,4),], aes(fill=controls,y=Estimate,x=Variable)) +
  ggtitle("")+
  theme(plot.title=element_text(size=16, face="bold", hjust=0.5))+
  theme(plot.margin=unit(c(0.5,0.5,0.5,0.5),"cm"))+
  geom_hline(yintercept=0, linetype="dotted",size=0.9)+
  ylab("Change in \nbehavior/attitude")+
  xlab("")+
  scale_color_manual(values=c("darkblue", "red"))+
  theme(text=element_text(size=16))+
  theme(axis.text.y=element_text(size=16, color="black"))+
  theme(axis.text.x=element_text(size=16, color="black"))+
  theme(legend.position = "none",legend.title = element_blank())+
  scale_y_continuous(breaks=c(-0.2,-0.1,0,0.1,0.2), limits=c(-0.25,0.25))+
  theme(legend.position = "bottom",legend.title = element_blank())+
  geom_point(aes(colour=controls,shape=controls),size=4,position = position_dodge(.9))+
  geom_errorbar(aes(ymax=Estimate + (SE*-qnorm((1-0.90)/2)), ymin=Estimate - (SE*-qnorm((1-0.90)/2)),co
  geom_errorbar(aes(ymax=Estimate + (SE*(-qnorm((1-0.95)/2))), ymin=Estimate - (SE*(-qnorm((1-0.95)/2))
```



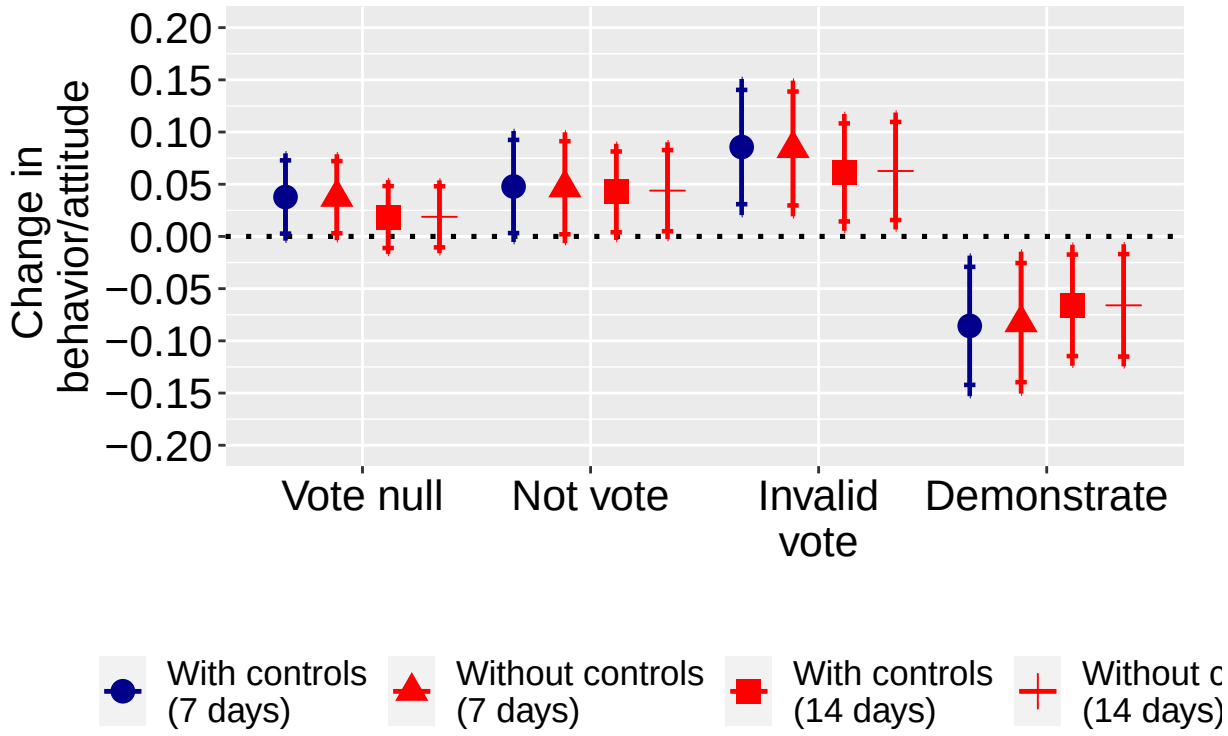

```
ggsave("Figure4.pdf", width = 9, height = 4)


##For the online appendix:

ARG_outcomes$controls[c(1:10)] <- "Without controls\n(7 days)"
ARG_outcomes$controls[c(21:30)] <- "With controls\n(7 days)"
ARG_outcomes$controls[c(11:20)] <- "Without controls\n(14 days)"
ARG_outcomes$controls[c(31:40)] <- "With controls\n(14 days)"

ARG_outcomes$controls <- factor(ARG_outcomes$controls,levels = c("With controls\n(7 days)","Without con

#Figure A1:
ggplot(ARG_outcomes[c(23,3,33,13,21,1,31,11,22,2,32,12),], aes(fill=controls,y=Estimate,x=Variable)) +
  ggtitle("")+
  theme(plot.title=element_text(size=16, face="bold", hjust=0.5))+
  theme(plot.margin=unit(c(0.5,0.5,0.5,0.5),"cm"))+
  geom_hline(yintercept=0, linetype="dotted",size=0.9)+
  ylab("\nChange in perceiption")+
  xlab("")+
  scale_color_manual(values=c("darkblue", "red","red","red"))+
  theme(text=element_text(size=16))+
  theme(axis.text.y=element_text(size=16, color="black"))+
  theme(axis.text.x=element_text(size=16, color="black"))+
  theme(legend.position = "bottom",legend.title = element_blank())+
  scale_y_continuous(breaks=c(-0.5,-0.4,-0.3,-0.2,-0.1,0,0.1,0.2,0.3,0.4,0.5), limits=c(-0.5,0.5))+
  geom_point(aes(colour=controls,shape=controls),size=4,position = position_dodge(.9))+
  geom_errorbar(aes(ymax=Estimate + (SE*-qnorm((1-0.90)/2)), ymin=Estimate - (SE*-qnorm((1-0.90)/2)),co
  geom_errorbar(aes(ymax=Estimate + (SE*(-qnorm((1-0.95)/2))), ymin=Estimate - (SE*(-qnorm((1-0.95)/2))
```




```
ggsave("FigureA1.pdf", width = 11, height = 6)


#Figure A2:
ggplot(ARG_outcomes[c(28,8,38,18,29,9,39,19,30,10,40,20),], aes(fill=controls,y=Estimate,x=Variable)) +
  ggtitle("")+
  theme(plot.title=element_text(size=16, face="bold", hjust=0.5))+
  theme(plot.margin=unit(c(0.5,0.5,0.5,0.5),"cm"))+
  geom_hline(yintercept=0, linetype="dotted",size=0.9)+
  ylab("\nChange in trust")+
  xlab("")+
  scale_color_manual(values=c("darkblue", "red","red","red"))+
  theme(text=element_text(size=16))+
  theme(axis.text.y=element_text(size=16, color="black"))+
  theme(axis.text.x=element_text(size=16, color="black"))+
  theme(legend.position = "bottom",legend.title = element_blank())+
  scale_y_continuous(breaks=c(-0.5,-0.4,-0.3,-0.2,-0.1,0,0.1,0.2,0.3,0.4,0.5), limits=c(-0.5,0.05))+
  geom_point(aes(colour=controls,shape=controls),size=4,position = position_dodge(.9))+
  geom_errorbar(aes(ymax=Estimate + (SE*-qnorm((1-0.90)/2)), ymin=Estimate - (SE*-qnorm((1-0.90)/2)),co
  geom_errorbar(aes(ymax=Estimate + (SE*(-qnorm((1-0.95)/2))), ymin=Estimate - (SE*(-qnorm((1-0.95)/2))
```




```
ggsave("FigureA2.pdf", width = 11, height = 4)


#combined behavioral outcomes:
#Figure A3:
ggplot(ARG_outcomes[c(25,5,35,15,26,6,36,16,27,7,37,17,24,4,34,14),], aes(fill=controls,y=Estimate,x=Va
  ggtitle("")+
  theme(plot.title=element_text(size=16, face="bold", hjust=0.5))+
  theme(plot.margin=unit(c(0.5,0.5,0.5,0.5),"cm"))+
  geom_hline(yintercept=0, linetype="dotted",size=0.9)+
  ylab("Change in \nbehavior/attitude")+
  xlab("")+
  scale_color_manual(values=c("darkblue", "red","red","red"))+
  theme(text=element_text(size=16))+
  theme(axis.text.y=element_text(size=16, color="black"))+
  theme(axis.text.x=element_text(size=16, color="black"))+
  theme(legend.position = "bottom",legend.title = element_blank())+
  scale_y_continuous(breaks=c(-0.2,-0.15,-0.1,-0.05,0,0.05,0.1,0.15,0.2), limits=c(-0.2,0.2))+
  geom_point(aes(colour=controls,shape=controls),size=4,position = position_dodge(.9))+
  geom_errorbar(aes(ymax=Estimate + (SE*-qnorm((1-0.90)/2)), ymin=Estimate - (SE*-qnorm((1-0.90)/2)),co
  geom_errorbar(aes(ymax=Estimate + (SE*(-qnorm((1-0.95)/2))), ymin=Estimate - (SE*(-qnorm((1-0.95)/2))
```




```
ggsave("FigureA3.pdf", width = 11, height = 5)


##Placebo tests: effect on other institutional outcomes:
##Table A21:
other_institutions <- rbind(
  c("conf_military",
    summary(lm(conf_military ~ treat7 + male + age + complete_highschool + university + laborforce + po
    summary(lm(conf_military ~ treat7 + male + age + complete_highschool + university + laborforce + po
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$conf_military),1,0))
    ),
  c("conf_church",
    summary(lm(conf_church ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(conf_church ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(ARG,ARG$treat7==0|ARG$treat7==1)$conf_church),1,0))
    ))

colnames(other_institutions) <- c("Variable","Intercept7","Estimate7","SE7","pvalue7","ValidN7")

other_institutions_appendix <- other_institutions[,c(1,3,4:6)]
other_institutions_appendix[,2] <- round(as.numeric(other_institutions_appendix[,2]),3)
other_institutions_appendix[,3] <- round(as.numeric(other_institutions_appendix[,3]),3)
other_institutions_appendix[,4] <- round(as.numeric(other_institutions_appendix[,4]),3)

other_institutions_appendix <- as.data.frame(other_institutions_appendix)

other_institutions_appendix[,1] <- c("Trust in armed forces",
                                     "Trust in church")

colnames(other_institutions_appendix) <- c("Variable","Effect","SE","p Value", "N")
```

```r
#Table A21:
stargazer(as.matrix(other_institutions_appendix), out="TableA21.tex")
```

```
##
## % Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harva
## % Date and time: Tue, Nov 08, 2022 - 11:06:34
## \begin{table}[!htbp] \centering
##   \caption{}
##   \label{}
## \begin{tabular}{@{\extracolsep{5pt}} ccccc}
## \\[-1.8ex]\hline
## \hline \\[-1.8ex]
## Variable & Effect & SE & p Value & N \\
## \hline \\[-1.8ex]
## Trust in armed forces & 0.037 & 0.094 & 0.693 & 745 \\
## Trust in church & -0.083 & 0.097 & 0.395 & 754 \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

```r
##Effects for main outcomes without PJ supporters:
##Table A11:

ARG_withoutPJ <- subset(ARG,ARG$vote_PJ!=1)

outcomes_withoutPJ <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat14 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(progcorrupt ~ treat14 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(ARG_withoutPJ,ARG_withoutPJ$treat14==0|ARG_withoutPJ$treat14==1)$progcorrup
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(solvecorrupt ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(ARG_withoutPJ,ARG_withoutPJ$treat14==0|ARG_withoutPJ$treat14==1)$solvecorru
  c("corrupt",
    summary(lm(corrupt ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(corrupt ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG_withoutPJ,ARG_withoutPJ$treat14==0|ARG_withoutPJ$treat14==1)$corrupt),
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ treat14 + male + age + complete_highschool + university + labo
    summary(lm(demonstrate_willingness ~ treat14 + male + age + complete_highschool + university + labo
    sum(ifelse(!is.na(subset(ARG_withoutPJ,ARG_withoutPJ$treat14==0|ARG_withoutPJ$treat14==1)$demonstra
  c("vote_null",
    summary(lm(vote_null ~ treat14 + male + age + complete_highschool + university + laborforce + povert
    summary(lm(vote_null ~ treat14 + male + age + complete_highschool + university + laborforce + povert
    sum(ifelse(!is.na(subset(ARG_withoutPJ,ARG_withoutPJ$treat14==0|ARG_withoutPJ$treat14==1)$vote_null
  c("vote_not",
    summary(lm(vote_not ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_not ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG_withoutPJ,ARG_withoutPJ$treat14==0|ARG_withoutPJ$treat14==1)$vote_not)
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(vote_invalid ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(ARG_withoutPJ,ARG_withoutPJ$treat14==0|ARG_withoutPJ$treat14==1)$vote_inval
```

```
  c("conf_judge",
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + pover
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(ARG_withoutPJ,ARG_withoutPJ$treat14==0|ARG_withoutPJ$treat14==1)$conf_judg
  c("conf_parties",
    summary(lm(conf_parties ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(conf_parties ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(ARG_withoutPJ,ARG_withoutPJ$treat14==0|ARG_withoutPJ$treat14==1)$conf_parti
  c("conf_parl",
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG_withoutPJ,ARG_withoutPJ$treat14==0|ARG_withoutPJ$treat14==1)$conf_parl
)

colnames(outcomes_withoutPJ) <- c("Variable",
                                  "Intercept14","Estimate14","SE14","pvalue14","ValidN14")

outcomes_withoutPJ
```

```
##       Variable                   Intercept14          Estimate14
##  [1,] "progcorrupt"              "1.53945230332364"   "-0.15408734484907"
##  [2,] "solvecorrupt"             "2.01167041794338"   "-0.179003442899115"
##  [3,] "corrupt"                  "2.9230260995961"    "0.177341382936729"
##  [4,] "demonstrate_willingness" "0.623852785541588"  "-0.0653411601368725"
##  [5,] "vote_null"                "0.0772956202962651" "0.0191055789328674"
##  [6,] "vote_not"                 "-0.027667272919798" "0.0479358705215923"
##  [7,] "vote_invalid"             "0.0496283473764685" "0.0670414494544575"
##  [8,] "conf_judge"               "1.16550903484863"   "-0.251822802852699"
##  [9,] "conf_parties"             "1.26148020789904"   "-0.24941352653127"
## [10,] "conf_parl"                "1.71740232637234"   "-0.158897489682638"
##       SE14                  pvalue14               ValidN14
##  [1,] "0.083681567389991"   "0.0659201300207839"   "884"
##  [2,] "0.0926591077262396" "0.0537006852952614"   "914"
##  [3,] "0.0657764445881051" "0.00715587991106882"  "877"
##  [4,] "0.0310835702140863" "0.0358267536402725"   "920"
##  [5,] "0.0190928391468203" "0.317259380335317"    "930"
##  [6,] "0.0247624570115554" "0.053204748411726"    "930"
##  [7,] "0.030022938725486"  "0.0257961080241216"   "930"
##  [8,] "0.0754522446173138" "0.000880934615842947" "915"
##  [9,] "0.0764665384279474" "0.00114978281172171"  "921"
## [10,] "0.0785375100374893" "0.0433549257748354"   "915"
```

```
table_withoutPJ <- outcomes_withoutPJ[,c(1,3:6)]
table_withoutPJ[,2] <- round(as.numeric(table_withoutPJ[,2]),3)
table_withoutPJ[,3] <- round(as.numeric(table_withoutPJ[,3]),3)
table_withoutPJ[,4] <- round(as.numeric(table_withoutPJ[,4]),3)

table_withoutPJ <- as.data.frame(table_withoutPJ[c(1:4,7:10),])

table_withoutPJ[,1] <- c("Progress on state corruption","State's ability to solve corruption","Prevalen

colnames(table_withoutPJ) <- c("Variable","Effect","SE","p Value", "N")

#Table A11:
```

```
stargazer(as.matrix(table_withoutPJ), out="TableA11.tex")
```

```
##
## % Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harva
## % Date and time: Tue, Nov 08, 2022 - 11:06:35
## \begin{table}[!htbp] \centering
##   \caption{}
##   \label{}
## \begin{tabular}{@{\extracolsep{5pt}} ccccc}
## \\[-1.8ex]\hline
## \hline \\[-1.8ex]
## Variable & Effect & SE & p Value & N \\
## \hline \\[-1.8ex]
## Progress on state corruption & -0.154 & 0.084 & 0.066 & 884 \\
## State's ability to solve corruption & -0.179 & 0.093 & 0.054 & 914 \\
## Prevalence of corruption & 0.177 & 0.066 & 0.007 & 877 \\
## Demonstrate & -0.065 & 0.031 & 0.036 & 920 \\
## Invalid vote & 0.067 & 0.03 & 0.026 & 930 \\
## Trust in judiciary & -0.252 & 0.075 & 0.001 & 915 \\
## Trust in parties & -0.249 & 0.076 & 0.001 & 921 \\
## Trust in congress & -0.159 & 0.079 & 0.043 & 915 \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

```
##analytic sample: valid observations with data for all covariates and outcomes:
band14_withoutPJ_controls_full <- subset(band14,!is.na(age) & !is.na(male) & !is.na(incomplete_highscho
cities14_withoutPJ_controls_T_full <- unique(subset(band14_withoutPJ_controls_full, band14_withoutPJ_co
cities14_withoutPJ_controls_C_full <- unique(subset(band14_withoutPJ_controls_full, band14_withoutPJ_co
cities14_withoutPJ_controls_full <- intersect(cities14_withoutPJ_controls_T_full,cities14_withoutPJ_con
band14_withoutPJ_controls_full <- subset(band14_withoutPJ_controls_full, band14_withoutPJ_controls_full$
nrow(band14_withoutPJ_controls_full)
```

```
## [1] 658
```

```
nrow(subset(band14_withoutPJ_controls_full,band14_withoutPJ_controls_full$treat14==1)) #observations in
```

```
## [1] 424
```

```
nrow(subset(band14_withoutPJ_controls_full,band14_withoutPJ_controls_full$treat14==0)) #observations in
```

```
## [1] 234
```

```
####Placebo tests
###with alternative cutoff dates:

set.seed(08112018) #the date on which the randomization occurred: 08-11-2018
sample(1:30,3,replace=F) #yielded 29, 23, 27 as randomly selected cutoff dates within the range of date
```

```
## [1] 29 27 23
```

```
##for the first cutoff date (June 23, 2013):
d=23
#treatment (before vs. after randomly selected cutoff dates)
ARG$placebo7 <- ifelse(ARG$diareal<d & ARG$diareal>(d-8),0,NA)
ARG$placebo7 <- ifelse(ARG$diareal>d & ARG$diareal<(d+8),1,ARG$placebo7)
```

```
placebo_outcomes <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ placebo7 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(progcorrupt ~ placebo7 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$progcorrupt),1,0))
),
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ placebo7 + male + age + complete_highschool + university + laborforce + po
    summary(lm(solvecorrupt ~ placebo7 + male + age + complete_highschool + university + laborforce + po
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$solvecorrupt),1,0))
),
  c("corrupt",
    summary(lm(corrupt ~ placebo7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(corrupt ~ placebo7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$corrupt),1,0))
    ),
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ placebo7 + male + age + complete_highschool + university + labo
    summary(lm(demonstrate_willingness ~ placebo7 + male + age + complete_highschool + university + labo
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$demonstrate_willingness),1,0))
),
  c("vote_null",
    summary(lm(vote_null ~ placebo7 + male + age + complete_highschool + university + laborforce + povei
    summary(lm(vote_null ~ placebo7 + male + age + complete_highschool + university + laborforce + povei
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$vote_null),1,0))
),
  c("vote_not",
    summary(lm(vote_not ~ placebo7 + male + age + complete_highschool + university + laborforce + poverr
    summary(lm(vote_not ~ placebo7 + male + age + complete_highschool + university + laborforce + poverr
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$vote_not),1,0))
),
  c("vote_invalid",
    summary(lm(vote_invalid ~ placebo7 + male + age + complete_highschool + university + laborforce + po
    summary(lm(vote_invalid ~ placebo7 + male + age + complete_highschool + university + laborforce + po
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$vote_invalid),1,0))
),
  c("conf_judge",
    summary(lm(conf_judge ~ placebo7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(conf_judge ~ placebo7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$conf_judge),1,0))
),
  c("conf_parties",
    summary(lm(conf_parties ~ placebo7 + male + age + complete_highschool + university + laborforce + po
    summary(lm(conf_parties ~ placebo7 + male + age + complete_highschool + university + laborforce + po
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$conf_parties),1,0))
),
  c("conf_parl",
    summary(lm(conf_parl ~ placebo7 + male + age + complete_highschool + university + laborforce + povei
    summary(lm(conf_parl ~ placebo7 + male + age + complete_highschool + university + laborforce + povei
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$conf_parl),1,0))
))

colnames(placebo_outcomes) <- c("Variable","Intercept7","Estimate7","SE7","pvalue7","ValidN7")
```

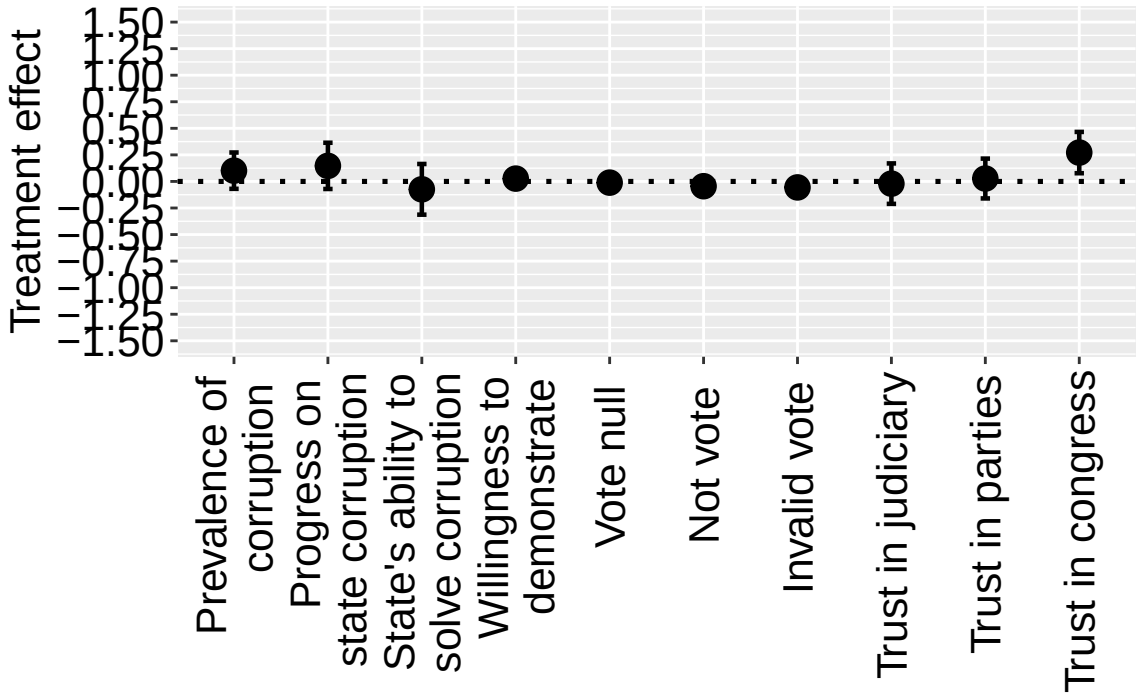
```
placebo_outcomes <- as.data.frame(placebo_outcomes)
placebo <- placebo_outcomes

colnames(placebo) <- c("Variable","Intercept","Estimate","SE","pvalue","ValidN")
placebo$Estimate <- as.numeric(as.character(placebo$Estimate))
placebo$SE <- as.numeric(as.character(placebo$SE))

placebo$Variable <- as.character(placebo$Variable)
placebo$Variable[placebo$Variable=="progcorrupt"] <- "Progress on\nstate corruption"
placebo$Variable[placebo$Variable=="solvecorrupt"] <- "State's ability to\nsolve corruption"
placebo$Variable[placebo$Variable=="corrupt"] <- "Prevalence of\ncorruption"
placebo$Variable[placebo$Variable=="vote_null"] <- "Vote null"
placebo$Variable[placebo$Variable=="vote_not"] <- "Not vote"
placebo$Variable[placebo$Variable=="vote_invalid"] <- "Invalid vote"
placebo$Variable[placebo$Variable=="conf_judge"] <- "Trust in judiciary"
placebo$Variable[placebo$Variable=="conf_parties"] <- "Trust in parties"
placebo$Variable[placebo$Variable=="conf_parl"] <- "Trust in congress"
placebo$Variable[placebo$Variable=="demonstrate_willingness"] <- "Willingness to\ndemonstrate"
placebo$Variable <- as.factor(placebo$Variable)
placebo$Variable <- factor(placebo$Variable,levels = c("Prevalence of\ncorruption","Progress on\nstate

placebo_23 <- placebo


##for the second cutoff date (June 27, 2013):
d=27
#treatment (before vs. after randomly selected cutoff dates)
ARG$placebo7 <- ifelse(ARG$diareal<d & ARG$diareal>(d-8),0,NA)
ARG$placebo7 <- ifelse(ARG$diareal>d & ARG$diareal<(d+8),1,ARG$placebo7)

placebo_outcomes <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ placebo7 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(progcorrupt ~ placebo7 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$progcorrupt),1,0))
    ),
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ placebo7 + male + age + complete_highschool + university + laborforce + po
    summary(lm(solvecorrupt ~ placebo7 + male + age + complete_highschool + university + laborforce + po
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$solvecorrupt),1,0))
    ),
  c("corrupt",
    summary(lm(corrupt ~ placebo7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(corrupt ~ placebo7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$corrupt),1,0))
    ),
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ placebo7 + male + age + complete_highschool + university + labo
    summary(lm(demonstrate_willingness ~ placebo7 + male + age + complete_highschool + university + labo
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$demonstrate_willingness),1,0))
    ),
  c("vote_null",
    summary(lm(vote_null ~ placebo7 + male + age + complete_highschool + university + laborforce + pover
```

```
    summary(lm(vote_null ~ placebo7 + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$vote_null),1,0))
    ),
  c("vote_not",
    summary(lm(vote_not ~ placebo7 + male + age + complete_highschool + university + laborforce + poverr
    summary(lm(vote_not ~ placebo7 + male + age + complete_highschool + university + laborforce + poverr
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$vote_not),1,0))
  ),
  c("vote_invalid",
    summary(lm(vote_invalid ~ placebo7 + male + age + complete_highschool + university + laborforce + po
    summary(lm(vote_invalid ~ placebo7 + male + age + complete_highschool + university + laborforce + po
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$vote_invalid),1,0))
  ),
  c("conf_judge",
    summary(lm(conf_judge ~ placebo7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(conf_judge ~ placebo7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$conf_judge),1,0))
    ),
  c("conf_parties",
    summary(lm(conf_parties ~ placebo7 + male + age + complete_highschool + university + laborforce + po
    summary(lm(conf_parties ~ placebo7 + male + age + complete_highschool + university + laborforce + po
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$conf_parties),1,0))
    ),
  c("conf_parl",
    summary(lm(conf_parl ~ placebo7 + male + age + complete_highschool + university + laborforce + povei
    summary(lm(conf_parl ~ placebo7 + male + age + complete_highschool + university + laborforce + povei
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$conf_parl),1,0))
))

colnames(placebo_outcomes) <- c("Variable","Intercept7","Estimate7","SE7","pvalue7","ValidN7")

placebo_outcomes <- as.data.frame(placebo_outcomes)
placebo <- placebo_outcomes

colnames(placebo) <- c("Variable","Intercept","Estimate","SE","pvalue","ValidN")
placebo$Estimate <- as.numeric(as.character(placebo$Estimate))
placebo$SE <- as.numeric(as.character(placebo$SE))

placebo$Variable <- as.character(placebo$Variable)
placebo$Variable[placebo$Variable=="progcorrupt"] <- "Progress on\nstate corruption"
placebo$Variable[placebo$Variable=="solvecorrupt"] <- "State's ability to\nsolve corruption"
placebo$Variable[placebo$Variable=="corrupt"] <- "Prevalence of\ncorruption"
placebo$Variable[placebo$Variable=="vote_null"] <- "Vote null"
placebo$Variable[placebo$Variable=="vote_not"] <- "Not vote"
placebo$Variable[placebo$Variable=="vote_invalid"] <- "Invalid vote"
placebo$Variable[placebo$Variable=="conf_judge"] <- "Trust in judiciary"
placebo$Variable[placebo$Variable=="conf_parties"] <- "Trust in parties"
placebo$Variable[placebo$Variable=="conf_parl"] <- "Trust in congress"
placebo$Variable[placebo$Variable=="demonstrate_willingness"] <- "Willingness to\ndemonstrate"
placebo$Variable <- as.factor(placebo$Variable)
placebo$Variable <- factor(placebo$Variable,levels = c("Prevalence of\ncorruption","Progress on\nstate

placebo_27 <- placebo
```

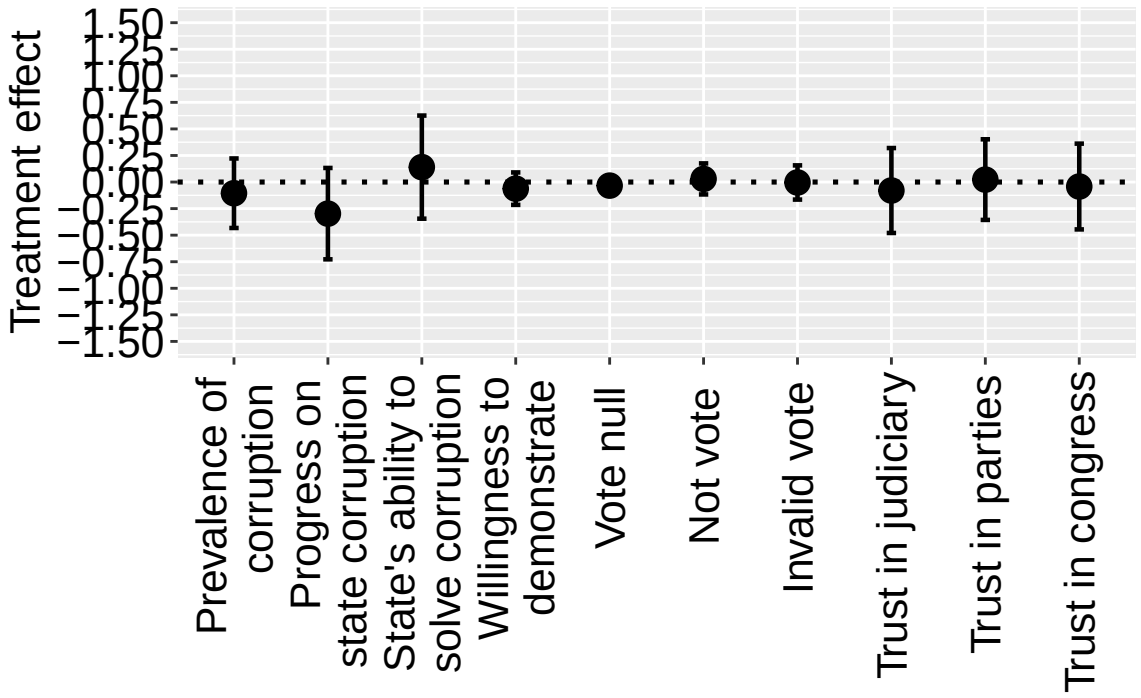
```
##for the third cutoff date (June 29, 2013):
d=29
#treatment (before vs. after randomly selected cutoff dates)
ARG$placebo7 <- ifelse(ARG$diareal<d & ARG$diareal>(d-8),0,NA)
ARG$placebo7 <- ifelse(ARG$diareal>d & ARG$diareal<(d+8),1,ARG$placebo7)

placebo_outcomes <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ placebo7 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(progcorrupt ~ placebo7 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$progcorrupt),1,0))
    ),
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ placebo7 + male + age + complete_highschool + university + laborforce + po
    summary(lm(solvecorrupt ~ placebo7 + male + age + complete_highschool + university + laborforce + po
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$solvecorrupt),1,0))
    ),
  c("corrupt",
    summary(lm(corrupt ~ placebo7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(corrupt ~ placebo7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$corrupt),1,0))
  ),
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ placebo7 + male + age + complete_highschool + university + labo
    summary(lm(demonstrate_willingness ~ placebo7 + male + age + complete_highschool + university + labo
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$demonstrate_willingness),1,0))
    ),
  c("vote_null",
    summary(lm(vote_null ~ placebo7 + male + age + complete_highschool + university + laborforce + povei
    summary(lm(vote_null ~ placebo7 + male + age + complete_highschool + university + laborforce + povei
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$vote_null),1,0))
    ),
  c("vote_not",
    summary(lm(vote_not ~ placebo7 + male + age + complete_highschool + university + laborforce + poverr
    summary(lm(vote_not ~ placebo7 + male + age + complete_highschool + university + laborforce + poverr
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$vote_not),1,0))
    ),
  c("vote_invalid",
    summary(lm(vote_invalid ~ placebo7 + male + age + complete_highschool + university + laborforce + po
    summary(lm(vote_invalid ~ placebo7 + male + age + complete_highschool + university + laborforce + po
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$vote_invalid),1,0))
    ),
  c("conf_judge",
    summary(lm(conf_judge ~ placebo7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(conf_judge ~ placebo7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$conf_judge),1,0))
    ),
  c("conf_parties",
    summary(lm(conf_parties ~ placebo7 + male + age + complete_highschool + university + laborforce + po
    summary(lm(conf_parties ~ placebo7 + male + age + complete_highschool + university + laborforce + po
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$conf_parties),1,0))
    ),
```

```
  c("conf_parl",
    summary(lm(conf_parl ~ placebo7 + male + age + complete_highschool + university + laborforce + pover
    summary(lm(conf_parl ~ placebo7 + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(ARG,ARG$placebo7==0|ARG$placebo7==1)$conf_parl),1,0))
    ))

colnames(placebo_outcomes) <- c("Variable","Intercept7","Estimate7","SE7","pvalue7","ValidN7")

placebo_outcomes <- as.data.frame(placebo_outcomes)
placebo <- placebo_outcomes

colnames(placebo) <- c("Variable","Intercept","Estimate","SE","pvalue","ValidN")
placebo$Estimate <- as.numeric(as.character(placebo$Estimate))
placebo$SE <- as.numeric(as.character(placebo$SE))

placebo$Variable <- as.character(placebo$Variable)
placebo$Variable[placebo$Variable=="progcorrupt"] <- "Progress on\nstate corruption"
placebo$Variable[placebo$Variable=="solvecorrupt"] <- "State's ability to\nsolve corruption"
placebo$Variable[placebo$Variable=="corrupt"] <- "Prevalence of\ncorruption"
placebo$Variable[placebo$Variable=="vote_null"] <- "Vote null"
placebo$Variable[placebo$Variable=="vote_not"] <- "Not vote"
placebo$Variable[placebo$Variable=="vote_invalid"] <- "Invalid vote"
placebo$Variable[placebo$Variable=="conf_judge"] <- "Trust in judiciary"
placebo$Variable[placebo$Variable=="conf_parties"] <- "Trust in parties"
placebo$Variable[placebo$Variable=="conf_parl"] <- "Trust in congress"
placebo$Variable[placebo$Variable=="demonstrate_willingness"] <- "Willingness to\ndemonstrate"
placebo$Variable <- as.factor(placebo$Variable)
placebo$Variable <- factor(placebo$Variable,levels = c("Prevalence of\ncorruption","Progress on\nstate

placebo_29 <- placebo

##to merge the results from the three placebo tests:
placebo_23$date <- "June 23"
placebo_27$date <- "June 27"
placebo_29$date <- "June 29"

placebo <- rbind(placebo_23,placebo_27,placebo_29)

#Figure A7:
ggplot(placebo_23, aes(y=Estimate,x=Variable)) +
  ggtitle("")+
  theme(plot.title=element_text(size=16, face="bold", hjust=0.5))+
  theme(plot.margin=unit(c(0.5,0.5,0.5,0.5),"cm"))+
  geom_hline(yintercept=0, linetype="dotted",size=0.9)+
  ylab("\nTreatment effect")+
  xlab("")+
  theme(axis.text.x = element_text(angle = 90,vjust=0.5,hjust=0.9))+
  scale_color_manual(values=c("darkblue", "red"))+
  theme(text=element_text(size=16))+
  theme(axis.text.y=element_text(size=16, color="black"))+
  theme(axis.text.x=element_text(size=16, color="black"))+
  theme(legend.position = "none",legend.title = element_blank())+
  scale_y_continuous(breaks=c(-1.5,-1.25,-1,-0.75,-0.5,-0.25,0,0.25,0.5,0.75,1,1.25,1.5), limits=c(-1.5
```

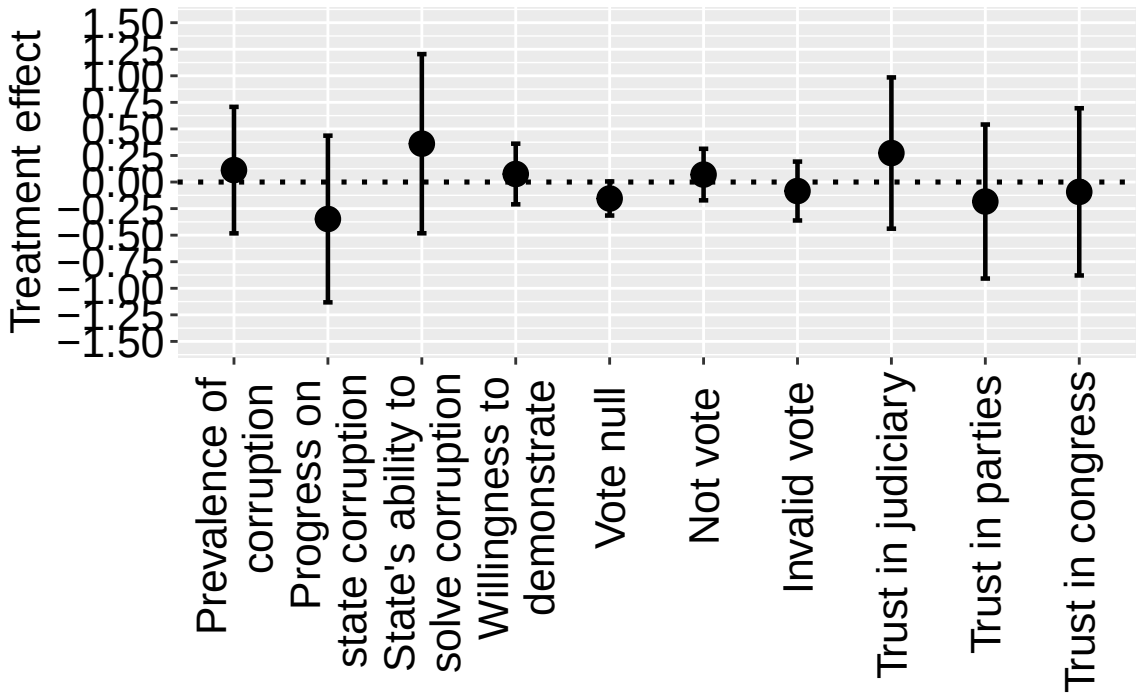
```
  geom_point(size=4,position = position_dodge(.9))+
  geom_errorbar(aes(ymax=Estimate + (SE*-qnorm((1-0.95)/2)), ymin=Estimate - (SE*-qnorm((1-0.95)/2))),
```




```
ggsave("FigureA7.pdf", width = 12, height = 7)

#Figure A8:
ggplot(placebo_27, aes(y=Estimate,x=Variable)) +
  ggtitle("")+
  theme(plot.title=element_text(size=16, face="bold", hjust=0.5))+
  theme(plot.margin=unit(c(0.5,0.5,0.5,0.5),"cm"))+
  geom_hline(yintercept=0, linetype="dotted",size=0.9)+
  ylab("\nTreatment effect")+
  xlab("")+
  theme(axis.text.x = element_text(angle = 90,vjust=0.5,hjust=0.9))+
  scale_color_manual(values=c("darkblue", "red"))+
  theme(text=element_text(size=16))+
  theme(axis.text.y=element_text(size=16, color="black"))+
  theme(axis.text.x=element_text(size=16, color="black"))+
  theme(legend.position = "none",legend.title = element_blank())+
  scale_y_continuous(breaks=c(-1.5,-1.25,-1,-0.75,-0.5,-0.25,0,0.25,0.5,0.75,1,1.25,1.5), limits=c(-1.5
  geom_point(size=4,position = position_dodge(.9))+
  geom_errorbar(aes(ymax=Estimate + (SE*-qnorm((1-0.95)/2)), ymin=Estimate - (SE*-qnorm((1-0.95)/2))),
```



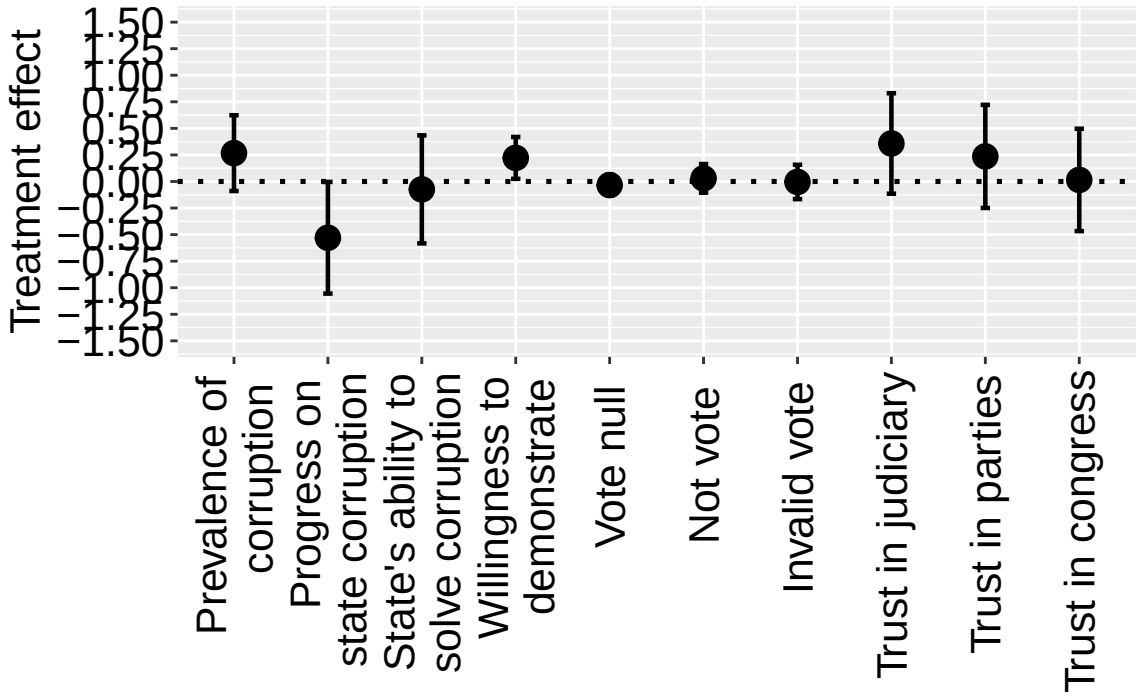

```
ggsave("FigureA8.pdf", width = 12, height = 7)

#Figure A9:
ggplot(placebo_29, aes(y=Estimate,x=Variable)) +
  ggtitle("")+
  theme(plot.title=element_text(size=16, face="bold", hjust=0.5))+
  theme(plot.margin=unit(c(0.5,0.5,0.5,0.5),"cm"))+
  geom_hline(yintercept=0, linetype="dotted",size=0.9)+
  ylab("\nTreatment effect")+
  xlab("")+
  theme(axis.text.x = element_text(angle = 90,vjust=0.5,hjust=0.9))+
  scale_color_manual(values=c("darkblue", "red"))+
  theme(text=element_text(size=16))+
  theme(axis.text.y=element_text(size=16, color="black"))+
  theme(axis.text.x=element_text(size=16, color="black"))+
  theme(legend.position = "none",legend.title = element_blank())+
  scale_y_continuous(breaks=c(-1.5,-1.25,-1,-0.75,-0.5,-0.25,0,0.25,0.5,0.75,1,1.25,1.5), limits=c(-1.5
  geom_point(size=4,position = position_dodge(.9))+
  geom_errorbar(aes(ymax=Estimate + (SE*-qnorm((1-0.95)/2)), ymin=Estimate - (SE*-qnorm((1-0.95)/2))),
```




```
ggsave("FigureA9.pdf", width = 12, height = 7)


## Placebo test for median of control group (June 6):
## Figure A10:
d=6
#treatment (before vs. after median of control group)
ARG$placebo <- ifelse(ARG$diareal<d,0,NA)
ARG$placebo <- ifelse(ARG$diareal>d & ARG$diareal<13,1,ARG$placebo)

placebo_outcomes <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ placebo + male + age + complete_highschool + university + laborforce + pove
    summary(lm(progcorrupt ~ placebo + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(ARG,ARG$placebo==0|ARG$placebo==1)$progcorrupt),1,0))),
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ placebo + male + age + complete_highschool + university + laborforce + pov
    summary(lm(solvecorrupt ~ placebo + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(ARG,ARG$placebo==0|ARG$placebo==1)$solvecorrupt),1,0))),
  c("corrupt",
    summary(lm(corrupt ~ placebo + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(corrupt ~ placebo + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG,ARG$placebo==0|ARG$placebo==1)$corrupt),1,0))),
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ placebo + male + age + complete_highschool + university + labo
    summary(lm(demonstrate_willingness ~ placebo + male + age + complete_highschool + university + labo
    sum(ifelse(!is.na(subset(ARG,ARG$placebo==0|ARG$placebo==1)$demonstrate_willingness),1,0))),
  c("vote_null",
    summary(lm(vote_null ~ placebo + male + age + complete_highschool + university + laborforce + poverr
    summary(lm(vote_null ~ placebo + male + age + complete_highschool + university + laborforce + poverr
    sum(ifelse(!is.na(subset(ARG,ARG$placebo==0|ARG$placebo==1)$vote_null),1,0))),
  c("vote_not",
```

```
    summary(lm(vote_not ~ placebo + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_not ~ placebo + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG,ARG$placebo==0|ARG$placebo==1)$vote_not),1,0))),
  c("vote_invalid",
    summary(lm(vote_invalid ~ placebo + male + age + complete_highschool + university + laborforce + pov
    summary(lm(vote_invalid ~ placebo + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(ARG,ARG$placebo==0|ARG$placebo==1)$vote_invalid),1,0))),
  c("conf_judge",
    summary(lm(conf_judge ~ placebo + male + age + complete_highschool + university + laborforce + pover
    summary(lm(conf_judge ~ placebo + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(ARG,ARG$placebo==0|ARG$placebo==1)$conf_judge),1,0))),
  c("conf_parties",
    summary(lm(conf_parties ~ placebo + male + age + complete_highschool + university + laborforce + pov
    summary(lm(conf_parties ~ placebo + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(ARG,ARG$placebo==0|ARG$placebo==1)$conf_parties),1,0))),
  c("conf_parl",
    summary(lm(conf_parl ~ placebo + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_parl ~ placebo + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG,ARG$placebo==0|ARG$placebo==1)$conf_parl),1,0)))
)

colnames(placebo_outcomes) <- c("Variable","Intercept","Estimate","SE","pvalue","ValidN")

placebo_outcomes <- as.data.frame(placebo_outcomes)
placebo <- placebo_outcomes

placebo$Estimate <- as.numeric(as.character(placebo$Estimate))
placebo$SE <- as.numeric(as.character(placebo$SE))

placebo$Variable <- as.character(placebo$Variable)
placebo$Variable[placebo$Variable=="progcorrupt"] <- "Progress on\nstate corruption"
placebo$Variable[placebo$Variable=="solvecorrupt"] <- "State's ability to\nsolve corruption"
placebo$Variable[placebo$Variable=="corrupt"] <- "Prevalence of\ncorruption"
placebo$Variable[placebo$Variable=="vote_null"] <- "Vote null"
placebo$Variable[placebo$Variable=="vote_not"] <- "Not vote"
placebo$Variable[placebo$Variable=="vote_invalid"] <- "Invalid vote"
placebo$Variable[placebo$Variable=="conf_judge"] <- "Trust in judiciary"
placebo$Variable[placebo$Variable=="conf_parties"] <- "Trust in parties"
placebo$Variable[placebo$Variable=="conf_parl"] <- "Trust in congress"
placebo$Variable[placebo$Variable=="demonstrate_willingness"] <- "Willingness to\ndemonstrate"
placebo$Variable <- as.factor(placebo$Variable)
placebo$Variable <- factor(placebo$Variable,levels = c("Prevalence of\ncorruption","Progress on\nstate

placebo_6 <- placebo

placebo_6$date <- "June 6"

ggplot(placebo_6, aes(y=Estimate,x=Variable)) +
  ggtitle("")+
  theme(plot.title=element_text(size=16, face="bold", hjust=0.5))+
  theme(plot.margin=unit(c(0.5,0.5,0.5,0.5),"cm"))+
  geom_hline(yintercept=0, linetype="dotted",size=0.9)+
  ylab("\nTreatment effect")+
```

```
  xlab("")+
  theme(axis.text.x = element_text(angle = 90,vjust=0.5,hjust=0.9))+
  scale_color_manual(values=c("darkblue", "red"))+
  theme(text=element_text(size=16))+
  theme(axis.text.y=element_text(size=16, color="black"))+
  theme(axis.text.x=element_text(size=16, color="black"))+
  theme(legend.position = "none",legend.title = element_blank())+
  scale_y_continuous(breaks=c(-1.5,-1.25,-1,-0.75,-0.5,-0.25,0,0.25,0.5,0.75,1,1.25,1.5), limits=c(-1.5
  geom_point(size=4,position = position_dodge(.9))+
  geom_errorbar(aes(ymax=Estimate + (SE*-qnorm((1-0.95)/2)), ymin=Estimate - (SE*-qnorm((1-0.95)/2))),
```




```
ggsave("FigureA10.pdf", width = 12, height = 7)


##Checking for time trends in control group:

control_analytic <- subset(band14_controls_full,band14_controls_full$treat14==0) #observations in contr

timetrend_control_analytic <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ diareal + male + age + complete_highschool + university + laborforce + pove
    summary(lm(progcorrupt ~ diareal + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(ARG,ARG$placebo==0 | placebo==1)$progcorrupt),1,0))),
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ diareal + male + age + complete_highschool + university + laborforce + pov
    summary(lm(solvecorrupt ~ diareal + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(ARG,ARG$placebo==0 | placebo==1)$solvecorrupt),1,0))),
  c("corrupt",
    summary(lm(corrupt ~ diareal + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(corrupt ~ diareal + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG,ARG$placebo==0 | placebo==1)$corrupt),1,0))),
```

```
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ diareal + male + age + complete_highschool + university + labo
    summary(lm(demonstrate_willingness ~ diareal + male + age + complete_highschool + university + labo
    sum(ifelse(!is.na(subset(ARG,ARG$placebo==0 | placebo==1)$demonstrate_willingness),1,0))),
  c("vote_null",
    summary(lm(vote_null ~ diareal + male + age + complete_highschool + university + laborforce + pover
    summary(lm(vote_null ~ diareal + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(ARG,ARG$placebo==0 | placebo==1)$vote_null),1,0))),
  c("vote_not",
    summary(lm(vote_not ~ diareal + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_not ~ diareal + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG,ARG$placebo==0 | placebo==1)$vote_not),1,0))),
  c("vote_invalid",
    summary(lm(vote_invalid ~ diareal + male + age + complete_highschool + university + laborforce + po
    summary(lm(vote_invalid ~ diareal + male + age + complete_highschool + university + laborforce + po
    sum(ifelse(!is.na(subset(ARG,ARG$placebo==0 | placebo==1)$vote_invalid),1,0))),
  c("conf_judge",
    summary(lm(conf_judge ~ diareal + male + age + complete_highschool + university + laborforce + pove
    summary(lm(conf_judge ~ diareal + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(ARG,ARG$placebo==0 | placebo==1)$conf_judge),1,0))),
  c("conf_parties",
    summary(lm(conf_parties ~ diareal + male + age + complete_highschool + university + laborforce + po
    summary(lm(conf_parties ~ diareal + male + age + complete_highschool + university + laborforce + po
    sum(ifelse(!is.na(subset(ARG,ARG$placebo==0 | placebo==1)$conf_parties),1,0))),
  c("conf_parl",
    summary(lm(conf_parl ~ diareal + male + age + complete_highschool + university + laborforce + pover
    summary(lm(conf_parl ~ diareal + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(ARG,ARG$placebo==0 | placebo==1)$conf_parl),1,0)))
)

colnames(timetrend_control_analytic) <- c("Variable","Intercept","Estimate","SE","pvalue","ValidN")

timetrend_control_analytic <- as.data.frame(timetrend_control_analytic)
timetrend_control_analytic
```

```
##                   Variable          Intercept             Estimate
## 1              progcorrupt   2.05521454235925    -0.06120957819572
## 2             solvecorrupt   2.53674746807842  -0.0681198596693324
## 3                  corrupt   2.50489641136877    0.030764449377485
## 4  demonstrate_willingness  0.679753986250934   0.0150989868122543
## 5                vote_null  0.221904542579201 -0.00501531055314454
## 6                 vote_not 0.0657696100497792  0.00506743007166569
## 7             vote_invalid  0.287674152628981 5.21195185210726e-05
## 8               conf_judge   1.23294453388547   0.0139835899934108
## 9             conf_parties   1.29869754803407   0.0118760013414865
## 10               conf_parl   1.82512940561941 -0.00964237179119134
##                      SE             pvalue ValidN
## 1   0.0363160028189395 0.0933689849791555    257
## 2   0.0341151952334126 0.0471302712290593    263
## 3   0.0247332735529929  0.214928853689896    254
## 4   0.0132640354203246   0.25626315190419    265
## 5  0.00618478068281489  0.418325842345382    257
## 6  0.00844212310224535  0.548977131612402    257
## 7   0.0102252885576406  0.995937897698216    257
```

```
## 8   0.0319864053874821  0.662430942739641    264
## 9   0.0335508482533108  0.723712988238248    264
## 10  0.0331383998037685  0.771356617290349    263
```

```
####Het. effects:

###by gender:
###Table A14:

##men:
men <- subset(ARG, ARG$male==1)

outcomes_men <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pover
    summary(lm(progcorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(men,men$treat7==0|men$treat7==1)$progcorrupt),1,0))
    ),
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(solvecorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(men,men$treat7==0|men$treat7==1)$solvecorrupt),1,0))
    ),
  c("corrupt",
    summary(lm(corrupt ~ treat7 + male + age + complete_highschool + university + laborforce + poverty +
    summary(lm(corrupt ~ treat7 + male + age + complete_highschool + university + laborforce + poverty +
    sum(ifelse(!is.na(subset(men,men$treat7==0|men$treat7==1)$corrupt),1,0))
    ),
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ treat7 + male + age + complete_highschool + university + labor
    summary(lm(demonstrate_willingness ~ treat7 + male + age + complete_highschool + university + labor
    sum(ifelse(!is.na(subset(men,men$treat7==0|men$treat7==1)$demonstrate_willingness),1,0))
    ),
  c("vote_null",
    summary(lm(vote_null ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_null ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(men,men$treat7==0|men$treat7==1)$vote_null),1,0))
    ),
  c("vote_not",
    summary(lm(vote_not ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_not ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(men,men$treat7==0|men$treat7==1)$vote_not),1,0))
    ),
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(vote_invalid ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(men,men$treat7==0|men$treat7==1)$vote_invalid),1,0))
    ),
  c("conf_judge",
    summary(lm(conf_judge ~ treat7 + male + age + complete_highschool + university + laborforce + pover
    summary(lm(conf_judge ~ treat7 + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(men,men$treat7==0|men$treat7==1)$conf_judge),1,0))
    ),
  c("conf_parties",
```

```
    summary(lm(conf_parties ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(conf_parties ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(men,men$treat7==0|men$treat7==1)$conf_parties),1,0))
    ),
  c("conf_parl",
    summary(lm(conf_parl ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_parl ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(men,men$treat7==0|men$treat7==1)$conf_parl),1,0))
    ))

colnames(outcomes_men) <- c("Variable","Intercept7","Estimate7","SE7","pvalue7","ValidN7")

het_men <- outcomes_men[,c(1,3,4:6)]
het_men[,2] <- round(as.numeric(het_men[,2]),3)
het_men[,3] <- round(as.numeric(het_men[,3]),3)
het_men[,4] <- round(as.numeric(het_men[,4]),3)

het_men <- as.data.frame(het_men[c(1:4,7:10),])

het_men[,1] <- c("Progress on state corruption","State's ability to solve corruption","Prevalence of co

colnames(het_men) <- c("Variable","Effect","SE","p Value", "N")

het_men
```

```
##                              Variable Effect    SE p Value   N
## 1        Progress on state corruption -0.284 0.134   0.035 359
## 2 State's ability to solve corruption  -0.28 0.156   0.072 368
## 3            Prevalence of corruption   0.25 0.107    0.02 361
## 4                        Demonstrate -0.102 0.052   0.052 370
## 5                       Invalid vote  0.109 0.052   0.037 343
## 6                  Trust in judiciary -0.289 0.129   0.026 371
## 7                    Trust in parties -0.285 0.127   0.025 370
## 8                   Trust in congress -0.213 0.137   0.121 368
```

```
##female:
female <- subset(ARG, ARG$male==0)

outcomes_female <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pover
    summary(lm(progcorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(female,female$treat7==0|female$treat7==1)$progcorrupt),1,0))
    ),
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(solvecorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(female,female$treat7==0|female$treat7==1)$solvecorrupt),1,0))
  ),
  c("corrupt",
    summary(lm(corrupt ~ treat7 + male + age + complete_highschool + university + laborforce + poverty +
    summary(lm(corrupt ~ treat7 + male + age + complete_highschool + university + laborforce + poverty +
    sum(ifelse(!is.na(subset(female,female$treat7==0|female$treat7==1)$corrupt),1,0))
  ),
```

```
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ treat7 + male + age + complete_highschool + university + labori
    summary(lm(demonstrate_willingness ~ treat7 + male + age + complete_highschool + university + labori
    sum(ifelse(!is.na(subset(female,female$treat7==0|female$treat7==1)$demonstrate_willingness),1,0))
    ),
  c("vote_null",
    summary(lm(vote_null ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_null ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(female,female$treat7==0|female$treat7==1)$vote_null),1,0))
    ),
  c("vote_not",
    summary(lm(vote_not ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_not ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(female,female$treat7==0|female$treat7==1)$vote_not),1,0))
    ),
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(vote_invalid ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(female,female$treat7==0|female$treat7==1)$vote_invalid),1,0))
    ),
  c("conf_judge",
    summary(lm(conf_judge ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_judge ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(female,female$treat7==0|female$treat7==1)$conf_judge),1,0))
    ),
  c("conf_parties",
    summary(lm(conf_parties ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(conf_parties ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(female,female$treat7==0|female$treat7==1)$conf_parties),1,0))
    ),
  c("conf_parl",
    summary(lm(conf_parl ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_parl ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(female,female$treat7==0|female$treat7==1)$conf_parl),1,0))
    ))

colnames(outcomes_female) <- c("Variable","Intercept7","Estimate7","SE7","pvalue7","ValidN7")

het_women <- outcomes_female[,c(1,3,4:6)]
het_women[,2] <- round(as.numeric(het_women[,2]),3)
het_women[,3] <- round(as.numeric(het_women[,3]),3)
het_women[,4] <- round(as.numeric(het_women[,4]),3)

het_women <- as.data.frame(het_women[c(1:4,7:10),])

het_women[,1] <- c("Progress on state corruption","State's ability to solve corruption","Prevalence of

colnames(het_women) <- c("Variable","Effect","SE","p Value", "N")

het_women
```

```
##                              Variable Effect    SE p Value   N
## 1        Progress on state corruption -0.157 0.128   0.222 370
## 2 State's ability to solve corruption -0.103 0.145   0.477 380
```

```
## 3            Prevalence of corruption  0.025 0.098   0.797 368
## 4                         Demonstrate  -0.08 0.046   0.086 385
## 5                        Invalid vote  0.067 0.044   0.131 371
## 6                  Trust in judiciary -0.209 0.114   0.069 383
## 7                    Trust in parties -0.146 0.119    0.22 383
## 8                   Trust in congress -0.178 0.113   0.116 383
```

```
##interact_gender:
valid_gender <- subset(ARG, !is.na(male))

outcomes_interact_gender <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat7 * male + treat7 + male + age + complete_highschool + university + la
    summary(lm(progcorrupt ~ treat7 * male + treat7 + male + age + complete_highschool + university + la
    sum(ifelse(!is.na(subset(valid_gender,valid_gender$treat7==0|valid_gender$treat7==1)$progcorrupt),1
),
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ treat7 * male + treat7 + male + age + complete_highschool + university + l
    summary(lm(solvecorrupt ~ treat7 * male + treat7 + male + age + complete_highschool + university + l
    sum(ifelse(!is.na(subset(valid_gender,valid_gender$treat7==0|valid_gender$treat7==1)$solvecorrupt),1
  ),
  c("corrupt",
    summary(lm(corrupt ~ treat7 * male + treat7 + male + age + complete_highschool + university + labori
    summary(lm(corrupt ~ treat7 * male + treat7 + male + age + complete_highschool + university + labori
    sum(ifelse(!is.na(subset(valid_gender,valid_gender$treat7==0|valid_gender$treat7==1)$corrupt),1,0))
    ),
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ treat7 * male + treat7 + male + age + complete_highschool + uni
    summary(lm(demonstrate_willingness ~ treat7 * male + treat7 + male + age + complete_highschool + uni
    sum(ifelse(!is.na(subset(valid_gender,valid_gender$treat7==0|valid_gender$treat7==1)$demonstrate_wil
    ),
  c("vote_null",
    summary(lm(vote_null ~ treat7 * male + treat7 + male + age + complete_highschool + university + labo
    summary(lm(vote_null ~ treat7 * male + treat7 + male + age + complete_highschool + university + labo
    sum(ifelse(!is.na(subset(valid_gender,valid_gender$treat7==0|valid_gender$treat7==1)$vote_null),1,0
    ),
  c("vote_not",
    summary(lm(vote_not ~ treat7 * male + treat7 + male + age + complete_highschool + university + labor
    summary(lm(vote_not ~ treat7 * male + treat7 + male + age + complete_highschool + university + labor
    sum(ifelse(!is.na(subset(valid_gender,valid_gender$treat7==0|valid_gender$treat7==1)$vote_not),1,0)
    ),
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat7 * male + treat7 + male + age + complete_highschool + university + l
    summary(lm(vote_invalid ~ treat7 * male + treat7 + male + age + complete_highschool + university + l
    sum(ifelse(!is.na(subset(valid_gender,valid_gender$treat7==0|valid_gender$treat7==1)$vote_invalid),1
    ),
  c("conf_judge",
    summary(lm(conf_judge ~ treat7 * male + treat7 + male + age + complete_highschool + university + lab
    summary(lm(conf_judge ~ treat7 * male + treat7 + male + age + complete_highschool + university + lab
    sum(ifelse(!is.na(subset(valid_gender,valid_gender$treat7==0|valid_gender$treat7==1)$conf_judge),1,0
    ),
  c("conf_parties",
    summary(lm(conf_parties ~ treat7 * male + treat7 + male + age + complete_highschool + university + l
    summary(lm(conf_parties ~ treat7 * male + treat7 + male + age + complete_highschool + university + l
```

```
    sum(ifelse(!is.na(subset(valid_gender,valid_gender$treat7==0|valid_gender$treat7==1)$conf_parties),1
    ),
  c("conf_parl",
    summary(lm(conf_parl ~ treat7 * male + treat7 + male + age + complete_highschool + university + labo
    summary(lm(conf_parl ~ treat7 * male + treat7 + male + age + complete_highschool + university + labo
    sum(ifelse(!is.na(subset(valid_gender,valid_gender$treat7==0|valid_gender$treat7==1)$conf_parl),1,0)
    ))

colnames(outcomes_interact_gender) <- c("Variable","Intercept7","Estimate7","SE7","pvalue7","ValidN7")

het_interact_gender <- outcomes_interact_gender[,c(1,3,4:6)]
het_interact_gender[,2] <- round(as.numeric(het_interact_gender[,2]),3)
het_interact_gender[,3] <- round(as.numeric(het_interact_gender[,3]),3)
het_interact_gender[,4] <- round(as.numeric(het_interact_gender[,4]),3)

het_interact_gender <- as.data.frame(het_interact_gender[c(1:4,7:10),])

het_interact_gender[,1] <-  c("Progress on state corruption","State's ability to solve corruption","Prev

colnames(het_interact_gender) <- c("Variable","Effect","SE","p Value", "N")

het_interact_gender
```

```
##                              Variable Effect    SE p Value   N
## 1        Progress on state corruption -0.098 0.141   0.487 729
## 2 State's ability to solve corruption -0.125 0.162    0.44 748
## 3           Prevalence of corruption  0.225 0.111   0.044 729
## 4                         Demonstrate -0.043 0.053   0.422 755
## 5                        Invalid vote -0.021 0.052   0.689 714
## 6                  Trust in judiciary -0.131 0.132   0.319 754
## 7                    Trust in parties -0.221 0.132   0.093 753
## 8                   Trust in congress -0.066 0.135   0.625 751
```

```
##combine the output for the different subgroup analyses & interaction term:
ARG_het_men <- as.data.frame(cbind(rep(NA,2*nrow(het_women)),rep(NA,2*nrow(het_women)),rep(NA,2*nrow(het

ARG_het_men[1,1] <- het_women[1,1]
ARG_het_men[2,1] <- ""
ARG_het_men[3,1] <- het_women[2,1]
ARG_het_men[4,1] <- ""
ARG_het_men[5,1] <- het_women[3,1]
ARG_het_men[6,1] <- ""
ARG_het_men[7,1] <- het_women[4,1]
ARG_het_men[8,1] <- ""
ARG_het_men[9,1] <- het_women[5,1]
ARG_het_men[10,1] <- ""
ARG_het_men[11,1] <- het_women[6,1]
ARG_het_men[12,1] <- ""
ARG_het_men[13,1] <- het_women[7,1]
ARG_het_men[14,1] <- ""
ARG_het_men[15,1] <- het_women[8,1]
ARG_het_men[16,1] <- ""
ARG_het_men[17,1] <- "Sample"
```

```
het_women[,2] <- as.numeric(as.character(het_women[,2]))
het_women[,3] <- as.numeric(as.character(het_women[,3]))
het_women[,4] <- as.numeric(as.character(het_women[,4]))

ARG_het_men[17,2] <- "Women"
ARG_het_men[1,2] <- ifelse(het_women[1,4]<0.1,paste0(het_women[1,2],"*"),het_women[1,2])
ARG_het_men[1,2] <- ifelse(het_women[1,4]<0.05,paste0(het_women[1,2],"**"),ARG_het_men[1,2])
ARG_het_men[1,2] <- ifelse(het_women[1,4]<0.01,paste0(het_women[1,2],"***"),ARG_het_men[1,2])

ARG_het_men[3,2] <- ifelse(het_women[2,4]<0.1,paste0(het_women[2,2],"*"),het_women[2,2])
ARG_het_men[3,2] <- ifelse(het_women[2,4]<0.05,paste0(het_women[2,2],"**"),ARG_het_men[3,2])
ARG_het_men[3,2] <- ifelse(het_women[2,4]<0.01,paste0(het_women[2,2],"***"),ARG_het_men[3,2])

ARG_het_men[5,2] <- ifelse(het_women[3,4]<0.1,paste0(het_women[3,2],"*"),het_women[3,2])
ARG_het_men[5,2] <- ifelse(het_women[3,4]<0.05,paste0(het_women[3,2],"**"),ARG_het_men[5,2])
ARG_het_men[5,2] <- ifelse(het_women[3,4]<0.01,paste0(het_women[3,2],"***"),ARG_het_men[5,2])

ARG_het_men[7,2] <- ifelse(het_women[4,4]<0.1,paste0(het_women[4,2],"*"),het_women[4,2])
ARG_het_men[7,2] <- ifelse(het_women[4,4]<0.05,paste0(het_women[4,2],"**"),ARG_het_men[7,2])
ARG_het_men[7,2] <- ifelse(het_women[4,4]<0.01,paste0(het_women[4,2],"***"),ARG_het_men[7,2])

ARG_het_men[9,2] <- ifelse(het_women[5,4]<0.1,paste0(het_women[5,2],"*"),het_women[5,2])
ARG_het_men[9,2] <- ifelse(het_women[5,4]<0.05,paste0(het_women[5,2],"**"),ARG_het_men[9,2])
ARG_het_men[9,2] <- ifelse(het_women[5,4]<0.01,paste0(het_women[5,2],"***"),ARG_het_men[9,2])

ARG_het_men[11,2] <- ifelse(het_women[6,4]<0.1,paste0(het_women[6,2],"*"),het_women[6,2])
ARG_het_men[11,2] <- ifelse(het_women[6,4]<0.05,paste0(het_women[6,2],"**"),ARG_het_men[11,2])
ARG_het_men[11,2] <- ifelse(het_women[6,4]<0.01,paste0(het_women[6,2],"***"),ARG_het_men[11,2])

ARG_het_men[13,2] <- ifelse(het_women[7,4]<0.1,paste0(het_women[7,2],"*"),het_women[7,2])
ARG_het_men[13,2] <- ifelse(het_women[7,4]<0.05,paste0(het_women[7,2],"**"),ARG_het_men[13,2])
ARG_het_men[13,2] <- ifelse(het_women[7,4]<0.01,paste0(het_women[7,2],"***"),ARG_het_men[13,2])

ARG_het_men[15,2] <- ifelse(het_women[8,4]<0.1,paste0(het_women[8,2],"*"),het_women[8,2])
ARG_het_men[15,2] <- ifelse(het_women[8,4]<0.05,paste0(het_women[8,2],"**"),ARG_het_men[15,2])
ARG_het_men[15,2] <- ifelse(het_women[8,4]<0.01,paste0(het_women[8,2],"***"),ARG_het_men[15,2])

ARG_het_men[2,2] <- paste0("(",het_women[1,3],")")
ARG_het_men[4,2] <- paste0("(",het_women[2,3],")")
ARG_het_men[6,2] <- paste0("(",het_women[3,3],")")
ARG_het_men[8,2] <- paste0("(",het_women[4,3],")")
ARG_het_men[10,2] <- paste0("(",het_women[5,3],")")
ARG_het_men[12,2] <- paste0("(",het_women[6,3],")")
ARG_het_men[14,2] <- paste0("(",het_women[7,3],")")
ARG_het_men[16,2] <- paste0("(",het_women[8,3],")")

het_men[,2] <- as.numeric(as.character(het_men[,2]))
het_men[,3] <- as.numeric(as.character(het_men[,3]))
het_men[,4] <- as.numeric(as.character(het_men[,4]))

ARG_het_men[17,3] <- "Men"
ARG_het_men[1,3] <- ifelse(het_men[1,4]<0.1,paste0(het_men[1,2],"*"),het_men[1,2])
ARG_het_men[1,3] <- ifelse(het_men[1,4]<0.05,paste0(het_men[1,2],"**"),ARG_het_men[1,3])
```

```
ARG_het_men[1,3] <- ifelse(het_men[1,4]<0.01,paste0(het_men[1,2],"***"),ARG_het_men[1,3])

ARG_het_men[3,3] <- ifelse(het_men[2,4]<0.1,paste0(het_men[2,2],"*"),het_men[2,2])
ARG_het_men[3,3] <- ifelse(het_men[2,4]<0.05,paste0(het_men[2,2],"**"),ARG_het_men[3,3])
ARG_het_men[3,3] <- ifelse(het_men[2,4]<0.01,paste0(het_men[2,2],"***"),ARG_het_men[3,3])

ARG_het_men[5,3] <- ifelse(het_men[3,4]<0.1,paste0(het_men[3,2],"*"),het_men[3,2])
ARG_het_men[5,3] <- ifelse(het_men[3,4]<0.05,paste0(het_men[3,2],"**"),ARG_het_men[5,3])
ARG_het_men[5,3] <- ifelse(het_men[3,4]<0.01,paste0(het_men[3,2],"***"),ARG_het_men[5,3])

ARG_het_men[7,3] <- ifelse(het_men[4,4]<0.1,paste0(het_men[4,2],"*"),het_men[4,2])
ARG_het_men[7,3] <- ifelse(het_men[4,4]<0.05,paste0(het_men[4,2],"**"),ARG_het_men[7,3])
ARG_het_men[7,3] <- ifelse(het_men[4,4]<0.01,paste0(het_men[4,2],"***"),ARG_het_men[7,3])

ARG_het_men[9,3] <- ifelse(het_men[5,4]<0.1,paste0(het_men[5,2],"*"),het_men[5,2])
ARG_het_men[9,3] <- ifelse(het_men[5,4]<0.05,paste0(het_men[5,2],"**"),ARG_het_men[9,3])
ARG_het_men[9,3] <- ifelse(het_men[5,4]<0.01,paste0(het_men[5,2],"***"),ARG_het_men[9,3])

ARG_het_men[11,3] <- ifelse(het_men[6,4]<0.1,paste0(het_men[6,2],"*"),het_men[6,2])
ARG_het_men[11,3] <- ifelse(het_men[6,4]<0.05,paste0(het_men[6,2],"**"),ARG_het_men[11,3])
ARG_het_men[11,3] <- ifelse(het_men[6,4]<0.01,paste0(het_men[6,2],"***"),ARG_het_men[11,3])

ARG_het_men[13,3] <- ifelse(het_men[7,4]<0.1,paste0(het_men[7,2],"*"),het_men[7,2])
ARG_het_men[13,3] <- ifelse(het_men[7,4]<0.05,paste0(het_men[7,2],"**"),ARG_het_men[13,3])
ARG_het_men[13,3] <- ifelse(het_men[7,4]<0.01,paste0(het_men[7,2],"***"),ARG_het_men[13,3])

ARG_het_men[15,3] <- ifelse(het_men[8,4]<0.1,paste0(het_men[8,2],"*"),het_men[8,2])
ARG_het_men[15,3] <- ifelse(het_men[8,4]<0.05,paste0(het_men[8,2],"**"),ARG_het_men[15,3])
ARG_het_men[15,3] <- ifelse(het_men[8,4]<0.01,paste0(het_men[8,2],"***"),ARG_het_men[15,3])

ARG_het_men[2,3] <- paste0("(",het_men[1,3],")")
ARG_het_men[4,3] <- paste0("(",het_men[2,3],")")
ARG_het_men[6,3] <- paste0("(",het_men[3,3],")")
ARG_het_men[8,3] <- paste0("(",het_men[4,3],")")
ARG_het_men[10,3] <- paste0("(",het_men[5,3],")")
ARG_het_men[12,3] <- paste0("(",het_men[6,3],")")
ARG_het_men[14,3] <- paste0("(",het_men[7,3],")")
ARG_het_men[16,3] <- paste0("(",het_men[8,3],")")

het_interact_gender[,2] <- as.numeric(as.character(het_interact_gender[,2]))
het_interact_gender[,3] <- as.numeric(as.character(het_interact_gender[,3]))
het_interact_gender[,4] <- as.numeric(as.character(het_interact_gender[,4]))

ARG_het_men[17,4] <- "Interaction Term"
ARG_het_men[1,4] <- ifelse(het_interact_gender[1,4]<0.1,paste0(het_interact_gender[1,2],"*"),het_intera
ARG_het_men[1,4] <- ifelse(het_interact_gender[1,4]<0.05,paste0(het_interact_gender[1,2],"**"),ARG_het_
ARG_het_men[1,4] <- ifelse(het_interact_gender[1,4]<0.01,paste0(het_interact_gender[1,2],"***"),ARG_het

ARG_het_men[3,4] <- ifelse(het_interact_gender[2,4]<0.1,paste0(het_interact_gender[2,2],"*"),het_intera
ARG_het_men[3,4] <- ifelse(het_interact_gender[2,4]<0.05,paste0(het_interact_gender[2,2],"**"),ARG_het_
ARG_het_men[3,4] <- ifelse(het_interact_gender[2,4]<0.01,paste0(het_interact_gender[2,2],"***"),ARG_het

ARG_het_men[5,4] <- ifelse(het_interact_gender[3,4]<0.1,paste0(het_interact_gender[3,2],"*"),het_intera
```

```
ARG_het_men[5,4] <- ifelse(het_interact_gender[3,4]<0.05,paste0(het_interact_gender[3,2],"**"),ARG_het_m
ARG_het_men[5,4] <- ifelse(het_interact_gender[3,4]<0.01,paste0(het_interact_gender[3,2],"***"),ARG_het_

ARG_het_men[7,4] <- ifelse(het_interact_gender[4,4]<0.1,paste0(het_interact_gender[4,2],"*"),het_interac
ARG_het_men[7,4] <- ifelse(het_interact_gender[4,4]<0.05,paste0(het_interact_gender[4,2],"**"),ARG_het_m
ARG_het_men[7,4] <- ifelse(het_interact_gender[4,4]<0.01,paste0(het_interact_gender[4,2],"***"),ARG_het_

ARG_het_men[9,4] <- ifelse(het_interact_gender[5,4]<0.1,paste0(het_interact_gender[5,2],"*"),het_interac
ARG_het_men[9,4] <- ifelse(het_interact_gender[5,4]<0.05,paste0(het_interact_gender[5,2],"**"),ARG_het_m
ARG_het_men[9,4] <- ifelse(het_interact_gender[5,4]<0.01,paste0(het_interact_gender[5,2],"***"),ARG_het_

ARG_het_men[11,4] <- ifelse(het_interact_gender[6,4]<0.1,paste0(het_interact_gender[6,2],"*"),het_intera
ARG_het_men[11,4] <- ifelse(het_interact_gender[6,4]<0.05,paste0(het_interact_gender[6,2],"**"),ARG_het_
ARG_het_men[11,4] <- ifelse(het_interact_gender[6,4]<0.01,paste0(het_interact_gender[6,2],"***"),ARG_het

ARG_het_men[13,4] <- ifelse(het_interact_gender[7,4]<0.1,paste0(het_interact_gender[7,2],"*"),het_intera
ARG_het_men[13,4] <- ifelse(het_interact_gender[7,4]<0.05,paste0(het_interact_gender[7,2],"**"),ARG_het_
ARG_het_men[13,4] <- ifelse(het_interact_gender[7,4]<0.01,paste0(het_interact_gender[7,2],"***"),ARG_het

ARG_het_men[15,4] <- ifelse(het_interact_gender[8,4]<0.1,paste0(het_interact_gender[8,2],"*"),het_intera
ARG_het_men[15,4] <- ifelse(het_interact_gender[8,4]<0.05,paste0(het_interact_gender[8,2],"**"),ARG_het_
ARG_het_men[15,4] <- ifelse(het_interact_gender[8,4]<0.01,paste0(het_interact_gender[8,2],"***"),ARG_het

ARG_het_men[2,4] <- paste0("(",het_interact_gender[1,3],")")
ARG_het_men[4,4] <- paste0("(",het_interact_gender[2,3],")")
ARG_het_men[6,4] <- paste0("(",het_interact_gender[3,3],")")
ARG_het_men[8,4] <- paste0("(",het_interact_gender[4,3],")")
ARG_het_men[10,4] <- paste0("(",het_interact_gender[5,3],")")
ARG_het_men[12,4] <- paste0("(",het_interact_gender[6,3],")")
ARG_het_men[14,4] <- paste0("(",het_interact_gender[7,3],")")
ARG_het_men[16,4] <- paste0("(",het_interact_gender[8,3],")")

ARG_het_men
```

```
##                                    V1      V2       V3              V4
## 1         Progress on state corruption  -0.157 -0.284**          -0.098
## 2                                      (0.128)  (0.134)         (0.141)
## 3  State's ability to solve corruption  -0.103   -0.28*          -0.125
## 4                                      (0.145)  (0.156)         (0.162)
## 5             Prevalence of corruption   0.025   0.25**         0.225**
## 6                                      (0.098)  (0.107)         (0.111)
## 7                           Demonstrate  -0.08*  -0.102*          -0.043
## 8                                      (0.046)  (0.052)         (0.053)
## 9                          Invalid vote   0.067  0.109**          -0.021
## 10                                     (0.044)  (0.052)         (0.052)
## 11                  Trust in judiciary -0.209* -0.289**          -0.131
## 12                                     (0.114)  (0.129)         (0.132)
## 13                    Trust in parties  -0.146 -0.285**          -0.221*
## 14                                     (0.119)  (0.127)         (0.132)
## 15                   Trust in congress  -0.178   -0.213          -0.066
## 16                                     (0.113)  (0.137)         (0.135)
## 17                              Sample   Women      Men Interaction Term
```

```r
#Table A14:
stargazer(as.matrix(ARG_het_men), rownames=F, out="TableA14.tex")
```

```
##
## % Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harva
## % Date and time: Tue, Nov 08, 2022 - 11:06:36
## \begin{table}[!htbp] \centering
##   \caption{}
##   \label{}
## \begin{tabular}{@{\extracolsep{5pt}} cccc}
## \\[-1.8ex]\hline
## \hline \\[-1.8ex]
## V1 & V2 & V3 & V4 \\
## \hline \\[-1.8ex]
## Progress on state corruption & -0.157 & -0.284\textasteriskcentered \textasteriskcentered  & -0.098 \
##  & (0.128) & (0.134) & (0.141) \\
## State's ability to solve corruption & -0.103 & -0.28\textasteriskcentered  & -0.125 \\
##  & (0.145) & (0.156) & (0.162) \\
## Prevalence of corruption & 0.025 & 0.25\textasteriskcentered \textasteriskcentered  & 0.225\textaster
##  & (0.098) & (0.107) & (0.111) \\
## Demonstrate & -0.08\textasteriskcentered  & -0.102\textasteriskcentered  & -0.043 \\
##  & (0.046) & (0.052) & (0.053) \\
## Invalid vote & 0.067 & 0.109\textasteriskcentered \textasteriskcentered  & -0.021 \\
##  & (0.044) & (0.052) & (0.052) \\
## Trust in judiciary & -0.209\textasteriskcentered  & -0.289\textasteriskcentered \textasteriskcentered
##  & (0.114) & (0.129) & (0.132) \\
## Trust in parties & -0.146 & -0.285\textasteriskcentered \textasteriskcentered  & -0.221\textasterisk
##  & (0.119) & (0.127) & (0.132) \\
## Trust in congress & -0.178 & -0.213 & -0.066 \\
##  & (0.113) & (0.137) & (0.135) \\
## Sample & Women & Men & Interaction Term \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

```r
###by region:
###Table A13:

##conurbano:
conurbano <- subset(ARG, ARG$reg==32001 | ARG$reg==32301)
ARG$conurbano <- ifelse(ARG$reg==32001 | ARG$reg==32301, 1, 0)

outcomes_conurbano <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + povei
    summary(lm(progcorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + povei
    sum(ifelse(!is.na(subset(conurbano,treat7==0|treat7==1)$progcorrupt),1,0))
    ),
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(solvecorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(conurbano,treat7==0|treat7==1)$solvecorrupt),1,0))
    ),
  c("corrupt",
```

```
    summary(lm(corrupt ~ treat7 + male + age + complete_highschool + university + laborforce + poverty +
    summary(lm(corrupt ~ treat7 + male + age + complete_highschool + university + laborforce + poverty +
    sum(ifelse(!is.na(subset(conurbano,treat7==0|treat7==1)$corrupt),1,0))
    ),
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ treat7 + male + age + complete_highschool + university + labori
    summary(lm(demonstrate_willingness ~ treat7 + male + age + complete_highschool + university + labori
    sum(ifelse(!is.na(subset(conurbano,treat7==0|treat7==1)$demonstrate_willingness),1,0))
    ),
  c("vote_null",
    summary(lm(vote_null ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_null ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(conurbano,treat7==0|treat7==1)$vote_null),1,0))
    ),
  c("vote_not",
    summary(lm(vote_not ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_not ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(conurbano,treat7==0|treat7==1)$vote_not),1,0))
    ),
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(vote_invalid ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(conurbano,treat7==0|treat7==1)$vote_invalid),1,0))
    ),
  c("conf_judge",
    summary(lm(conf_judge ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_judge ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(conurbano,treat7==0|treat7==1)$conf_judge),1,0))
    ),
  c("conf_parties",
    summary(lm(conf_parties ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(conf_parties ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(conurbano,treat7==0|treat7==1)$conf_parties),1,0))
    ),
  c("conf_parl",
    summary(lm(conf_parl ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_parl ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(conurbano,treat7==0|treat7==1)$conf_parl),1,0))
    ))

colnames(outcomes_conurbano) <- c("Variable","Intercept7","Estimate7","SE7","pvalue7","ValidN7")

het_conurbano <- outcomes_conurbano[,c(1,3,4:6)]
het_conurbano[,2] <- round(as.numeric(het_conurbano[,2]),3)
het_conurbano[,3] <- round(as.numeric(het_conurbano[,3]),3)
het_conurbano[,4] <- round(as.numeric(het_conurbano[,4]),3)

het_conurbano <- as.data.frame(het_conurbano[c(1:4,7:10),])

het_conurbano[,1] <- c("Progress on state corruption","State's ability to solve corruption","Prevalence

colnames(het_conurbano) <- c("Variable","Effect","SE","p Value", "N")
```

```
het_conurbano
```

```
##                              Variable Effect    SE p Value   N
## 1        Progress on state corruption -0.226 0.126   0.075 323
## 2 State's ability to solve corruption -0.149 0.134   0.269 334
## 3            Prevalence of corruption  0.082 0.096   0.396 324
## 4                         Demonstrate -0.104 0.044   0.019 333
## 5                        Invalid vote  0.077 0.039   0.052 317
## 6                  Trust in judiciary -0.171 0.109   0.117 333
## 7                    Trust in parties -0.117 0.109   0.282 330
## 8                   Trust in congress -0.195 0.115    0.09 333
```

```
##other_provinces:
other_provinces <- subset(ARG, ARG$reg!=32001 & ARG$reg!=32301)

outcomes_other_provinces <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pover
    summary(lm(progcorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(other_provinces,other_provinces$treat7==0|other_provinces$treat7==1)$progc
    ),
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(solvecorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(other_provinces,other_provinces$treat7==0|other_provinces$treat7==1)$solve
    ),
  c("corrupt",
    summary(lm(corrupt ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(corrupt ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(other_provinces,other_provinces$treat7==0|other_provinces$treat7==1)$corru
    ),
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ treat7 + male + age + complete_highschool + university + labor
    summary(lm(demonstrate_willingness ~ treat7 + male + age + complete_highschool + university + labor
    sum(ifelse(!is.na(subset(other_provinces,other_provinces$treat7==0|other_provinces$treat7==1)$demons
    ),
  c("vote_null",
    summary(lm(vote_null ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_null ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(other_provinces,other_provinces$treat7==0|other_provinces$treat7==1)$vote_n
    ),
  c("vote_not",
    summary(lm(vote_not ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_not ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(other_provinces,other_provinces$treat7==0|other_provinces$treat7==1)$vote_n
    ),
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat7 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(vote_invalid ~ treat7 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(other_provinces,other_provinces$treat7==0|other_provinces$treat7==1)$vote_i
    ),
  c("conf_judge",
    summary(lm(conf_judge ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_judge ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
```

```
    sum(ifelse(!is.na(subset(other_provinces,other_provinces$treat7==0|other_provinces$treat7==1)$conf_
    ),
  c("conf_parties",
    summary(lm(conf_parties ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(conf_parties ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(other_provinces,other_provinces$treat7==0|other_provinces$treat7==1)$conf_
    ),
  c("conf_parl",
    summary(lm(conf_parl ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_parl ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(other_provinces,other_provinces$treat7==0|other_provinces$treat7==1)$conf_
    ))

colnames(outcomes_other_provinces) <- c("Variable","Intercept7","Estimate7","SE7","pvalue7","ValidN7")

het_other_provinces <- outcomes_other_provinces[,c(1,3,4:6)]
het_other_provinces[,2] <- round(as.numeric(het_other_provinces[,2]),3)
het_other_provinces[,3] <- round(as.numeric(het_other_provinces[,3]),3)
het_other_provinces[,4] <- round(as.numeric(het_other_provinces[,4]),3)

het_other_provinces <- as.data.frame(het_other_provinces[c(1:4,7:10),])

het_other_provinces[,1] <- c("Progress on state corruption","State's ability to solve corruption","Preva

colnames(het_other_provinces) <- c("Variable","Effect","SE","p Value", "N")

het_other_provinces
```

```
##                              Variable Effect    SE p Value   N
## 1        Progress on state corruption -0.283 0.139   0.042 406
## 2 State's ability to solve corruption -0.168  0.17   0.324 414
## 3            Prevalence of corruption  0.187 0.116   0.106 405
## 4                          Demonstrate -0.056 0.056   0.322 422
## 5                        Invalid vote  0.106  0.06   0.077 397
## 6                  Trust in judiciary -0.448 0.141   0.002 421
## 7                    Trust in parties -0.449 0.139   0.001 423
## 8                   Trust in congress -0.238  0.14   0.089 418
```

```
##interact_region:
valid_region <- subset(ARG, !is.na(conurbano))

outcomes_interact_region <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat7 * conurbano + treat7 + male + age + complete_highschool + universit
    summary(lm(progcorrupt ~ treat7 * conurbano + treat7 + male + age + complete_highschool + universit
    sum(ifelse(!is.na(subset(valid_region,valid_region$treat7==0|valid_region$treat7==1)$progcorrupt),1
),
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ treat7 * conurbano + treat7 + male + age + complete_highschool + universi
    summary(lm(solvecorrupt ~ treat7 * conurbano + treat7 + male + age + complete_highschool + universi
    sum(ifelse(!is.na(subset(valid_region,valid_region$treat7==0|valid_region$treat7==1)$solvecorrupt),
  ),
  c("corrupt",
    summary(lm(corrupt ~ treat7 * conurbano + treat7 + male + age + complete_highschool + university + l
```

```
    summary(lm(corrupt ~ treat7 * conurbano + treat7 + male + age + complete_highschool + university + l
    sum(ifelse(!is.na(subset(valid_region,valid_region$treat7==0|valid_region$treat7==1)$corrupt),1,0))
  ),
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ treat7 * conurbano + treat7 + male + age + complete_highschool
    summary(lm(demonstrate_willingness ~ treat7 * conurbano + treat7 + male + age + complete_highschool
    sum(ifelse(!is.na(subset(valid_region,valid_region$treat7==0|valid_region$treat7==1)$demonstrate_wi
    ),
  c("vote_null",
    summary(lm(vote_null ~ treat7 * conurbano + treat7 + male + age + complete_highschool + university
    summary(lm(vote_null ~ treat7 * conurbano + treat7 + male + age + complete_highschool + university
    sum(ifelse(!is.na(subset(valid_region,valid_region$treat7==0|valid_region$treat7==1)$vote_null),1,0
    ),
  c("vote_not",
    summary(lm(vote_not ~ treat7 * conurbano + treat7 + male + age + complete_highschool + university +
    summary(lm(vote_not ~ treat7 * conurbano + treat7 + male + age + complete_highschool + university +
    sum(ifelse(!is.na(subset(valid_region,valid_region$treat7==0|valid_region$treat7==1)$vote_not),1,0)
    ),
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat7 * conurbano + treat7 + male + age + complete_highschool + universi
    summary(lm(vote_invalid ~ treat7 * conurbano + treat7 + male + age + complete_highschool + universi
    sum(ifelse(!is.na(subset(valid_region,valid_region$treat7==0|valid_region$treat7==1)$vote_invalid),
    ),
  c("conf_judge",
    summary(lm(conf_judge ~ treat7 * conurbano + treat7 + male + age + complete_highschool + university
    summary(lm(conf_judge ~ treat7 * conurbano + treat7 + male + age + complete_highschool + university
    sum(ifelse(!is.na(subset(valid_region,valid_region$treat7==0|valid_region$treat7==1)$conf_judge),1,
    ),
  c("conf_parties",
    summary(lm(conf_parties ~ treat7 * conurbano + treat7 + male + age + complete_highschool + universi
    summary(lm(conf_parties ~ treat7 * conurbano + treat7 + male + age + complete_highschool + universi
    sum(ifelse(!is.na(subset(valid_region,valid_region$treat7==0|valid_region$treat7==1)$conf_parties),
    ),
  c("conf_parl",
    summary(lm(conf_parl ~ treat7 * conurbano + treat7 + male + age + complete_highschool + university
    summary(lm(conf_parl ~ treat7 * conurbano + treat7 + male + age + complete_highschool + university
    sum(ifelse(!is.na(subset(valid_region,valid_region$treat7==0|valid_region$treat7==1)$conf_parl),1,0
    ))

colnames(outcomes_interact_region) <- c("Variable","Intercept7","Estimate7","SE7","pvalue7","ValidN7")

het_interact_region <- outcomes_interact_region[,c(1,3,4:6)]
het_interact_region[,2] <- round(as.numeric(het_interact_region[,2]),3)
het_interact_region[,3] <- round(as.numeric(het_interact_region[,3]),3)
het_interact_region[,4] <- round(as.numeric(het_interact_region[,4]),3)

het_interact_region <- as.data.frame(het_interact_region[c(1:4,7:10),])

het_interact_region[,1] <-  c("Progress on state corruption","State's ability to solve corruption","Prev

het_interact_region
```

```
##                              Variable Estimate7   SE7 pvalue7 ValidN7
## 1        Progress on state corruption      0.08 0.194   0.681     729
```

```
## 2 State's ability to solve corruption     0.029  0.22   0.895     748
## 3            Prevalence of corruption    -0.112 0.153   0.462     729
## 4                          Demonstrate    -0.044 0.073   0.548     755
## 5                         Invalid vote    -0.029 0.071   0.682     714
## 6                  Trust in judiciary     0.277  0.18   0.124     754
## 7                    Trust in parties     0.349  0.18   0.053     753
## 8                   Trust in congress     0.074 0.185   0.691     751
```

```r
##combine the output for the different subgroup analyses & interaction term:
ARG_het_region <- as.data.frame(cbind(rep(NA,2*nrow(het_other_provinces)),rep(NA,2*nrow(het_other_provi

ARG_het_region[1,1] <- het_other_provinces[1,1]
ARG_het_region[2,1] <- ""
ARG_het_region[3,1] <- het_other_provinces[2,1]
ARG_het_region[4,1] <- ""
ARG_het_region[5,1] <- het_other_provinces[3,1]
ARG_het_region[6,1] <- ""
ARG_het_region[7,1] <- het_other_provinces[4,1]
ARG_het_region[8,1] <- ""
ARG_het_region[9,1] <- het_other_provinces[5,1]
ARG_het_region[10,1] <- ""
ARG_het_region[11,1] <- het_other_provinces[6,1]
ARG_het_region[12,1] <- ""
ARG_het_region[13,1] <- het_other_provinces[7,1]
ARG_het_region[14,1] <- ""
ARG_het_region[15,1] <- het_other_provinces[8,1]
ARG_het_region[16,1] <- ""
ARG_het_region[17,1] <- "Sample"

het_other_provinces[,2] <- as.numeric(as.character(het_other_provinces[,2]))
het_other_provinces[,3] <- as.numeric(as.character(het_other_provinces[,3]))
het_other_provinces[,4] <- as.numeric(as.character(het_other_provinces[,4]))

ARG_het_region[17,2] <- "Other Provinces"
ARG_het_region[1,2] <- ifelse(het_other_provinces[1,4]<0.1,paste0(het_other_provinces[1,2],"*"),het_othe
ARG_het_region[1,2] <- ifelse(het_other_provinces[1,4]<0.05,paste0(het_other_provinces[1,2],"**"),ARG_he
ARG_het_region[1,2] <- ifelse(het_other_provinces[1,4]<0.01,paste0(het_other_provinces[1,2],"***"),ARG_h

ARG_het_region[3,2] <- ifelse(het_other_provinces[2,4]<0.1,paste0(het_other_provinces[2,2],"*"),het_othe
ARG_het_region[3,2] <- ifelse(het_other_provinces[2,4]<0.05,paste0(het_other_provinces[2,2],"**"),ARG_he
ARG_het_region[3,2] <- ifelse(het_other_provinces[2,4]<0.01,paste0(het_other_provinces[2,2],"***"),ARG_h

ARG_het_region[5,2] <- ifelse(het_other_provinces[3,4]<0.1,paste0(het_other_provinces[3,2],"*"),het_othe
ARG_het_region[5,2] <- ifelse(het_other_provinces[3,4]<0.05,paste0(het_other_provinces[3,2],"**"),ARG_he
ARG_het_region[5,2] <- ifelse(het_other_provinces[3,4]<0.01,paste0(het_other_provinces[3,2],"***"),ARG_h

ARG_het_region[7,2] <- ifelse(het_other_provinces[4,4]<0.1,paste0(het_other_provinces[4,2],"*"),het_othe
ARG_het_region[7,2] <- ifelse(het_other_provinces[4,4]<0.05,paste0(het_other_provinces[4,2],"**"),ARG_he
ARG_het_region[7,2] <- ifelse(het_other_provinces[4,4]<0.01,paste0(het_other_provinces[4,2],"***"),ARG_h

ARG_het_region[9,2] <- ifelse(het_other_provinces[5,4]<0.1,paste0(het_other_provinces[5,2],"*"),het_othe
ARG_het_region[9,2] <- ifelse(het_other_provinces[5,4]<0.05,paste0(het_other_provinces[5,2],"**"),ARG_he
ARG_het_region[9,2] <- ifelse(het_other_provinces[5,4]<0.01,paste0(het_other_provinces[5,2],"***"),ARG_h
```

```
ARG_het_region[11,2] <- ifelse(het_other_provinces[6,4]<0.1,paste0(het_other_provinces[6,2],"*"),het_otl
ARG_het_region[11,2] <- ifelse(het_other_provinces[6,4]<0.05,paste0(het_other_provinces[6,2],"**"),ARG_
ARG_het_region[11,2] <- ifelse(het_other_provinces[6,4]<0.01,paste0(het_other_provinces[6,2],"***"),ARG

ARG_het_region[13,2] <- ifelse(het_other_provinces[7,4]<0.1,paste0(het_other_provinces[7,2],"*"),het_otl
ARG_het_region[13,2] <- ifelse(het_other_provinces[7,4]<0.05,paste0(het_other_provinces[7,2],"**"),ARG_
ARG_het_region[13,2] <- ifelse(het_other_provinces[7,4]<0.01,paste0(het_other_provinces[7,2],"***"),ARG

ARG_het_region[15,2] <- ifelse(het_other_provinces[8,4]<0.1,paste0(het_other_provinces[8,2],"*"),het_otl
ARG_het_region[15,2] <- ifelse(het_other_provinces[8,4]<0.05,paste0(het_other_provinces[8,2],"**"),ARG_
ARG_het_region[15,2] <- ifelse(het_other_provinces[8,4]<0.01,paste0(het_other_provinces[8,2],"***"),ARG

ARG_het_region[2,2] <- paste0("(",het_other_provinces[1,3],")")
ARG_het_region[4,2] <- paste0("(",het_other_provinces[2,3],")")
ARG_het_region[6,2] <- paste0("(",het_other_provinces[3,3],")")
ARG_het_region[8,2] <- paste0("(",het_other_provinces[4,3],")")
ARG_het_region[10,2] <- paste0("(",het_other_provinces[5,3],")")
ARG_het_region[12,2] <- paste0("(",het_other_provinces[6,3],")")
ARG_het_region[14,2] <- paste0("(",het_other_provinces[7,3],")")
ARG_het_region[16,2] <- paste0("(",het_other_provinces[8,3],")")

het_conurbano[,2] <- as.numeric(as.character(het_conurbano[,2]))
het_conurbano[,3] <- as.numeric(as.character(het_conurbano[,3]))
het_conurbano[,4] <- as.numeric(as.character(het_conurbano[,4]))

ARG_het_region[17,3] <- "Conurbano"
ARG_het_region[1,3] <- ifelse(het_conurbano[1,4]<0.1,paste0(het_conurbano[1,2],"*"),het_conurbano[1,2])
ARG_het_region[1,3] <- ifelse(het_conurbano[1,4]<0.05,paste0(het_conurbano[1,2],"**"),ARG_het_region[1,3
ARG_het_region[1,3] <- ifelse(het_conurbano[1,4]<0.01,paste0(het_conurbano[1,2],"***"),ARG_het_region[1

ARG_het_region[3,3] <- ifelse(het_conurbano[2,4]<0.1,paste0(het_conurbano[2,2],"*"),het_conurbano[2,2])
ARG_het_region[3,3] <- ifelse(het_conurbano[2,4]<0.05,paste0(het_conurbano[2,2],"**"),ARG_het_region[3,3
ARG_het_region[3,3] <- ifelse(het_conurbano[2,4]<0.01,paste0(het_conurbano[2,2],"***"),ARG_het_region[3

ARG_het_region[5,3] <- ifelse(het_conurbano[3,4]<0.1,paste0(het_conurbano[3,2],"*"),het_conurbano[3,2])
ARG_het_region[5,3] <- ifelse(het_conurbano[3,4]<0.05,paste0(het_conurbano[3,2],"**"),ARG_het_region[5,3
ARG_het_region[5,3] <- ifelse(het_conurbano[3,4]<0.01,paste0(het_conurbano[3,2],"***"),ARG_het_region[5

ARG_het_region[7,3] <- ifelse(het_conurbano[4,4]<0.1,paste0(het_conurbano[4,2],"*"),het_conurbano[4,2])
ARG_het_region[7,3] <- ifelse(het_conurbano[4,4]<0.05,paste0(het_conurbano[4,2],"**"),ARG_het_region[7,3
ARG_het_region[7,3] <- ifelse(het_conurbano[4,4]<0.01,paste0(het_conurbano[4,2],"***"),ARG_het_region[7

ARG_het_region[9,3] <- ifelse(het_conurbano[5,4]<0.1,paste0(het_conurbano[5,2],"*"),het_conurbano[5,2])
ARG_het_region[9,3] <- ifelse(het_conurbano[5,4]<0.05,paste0(het_conurbano[5,2],"**"),ARG_het_region[9,3
ARG_het_region[9,3] <- ifelse(het_conurbano[5,4]<0.01,paste0(het_conurbano[5,2],"***"),ARG_het_region[9

ARG_het_region[11,3] <- ifelse(het_conurbano[6,4]<0.1,paste0(het_conurbano[6,2],"*"),het_conurbano[6,2]
ARG_het_region[11,3] <- ifelse(het_conurbano[6,4]<0.05,paste0(het_conurbano[6,2],"**"),ARG_het_region[1
ARG_het_region[11,3] <- ifelse(het_conurbano[6,4]<0.01,paste0(het_conurbano[6,2],"***"),ARG_het_region[

ARG_het_region[13,3] <- ifelse(het_conurbano[7,4]<0.1,paste0(het_conurbano[7,2],"*"),het_conurbano[7,2]
ARG_het_region[13,3] <- ifelse(het_conurbano[7,4]<0.05,paste0(het_conurbano[7,2],"**"),ARG_het_region[13
ARG_het_region[13,3] <- ifelse(het_conurbano[7,4]<0.01,paste0(het_conurbano[7,2],"***"),ARG_het_region[
```

```
ARG_het_region[15,3] <- ifelse(het_conurbano[8,4]<0.1,paste0(het_conurbano[8,2],"*"),het_conurbano[8,2])
ARG_het_region[15,3] <- ifelse(het_conurbano[8,4]<0.05,paste0(het_conurbano[8,2],"**"),ARG_het_region[15
ARG_het_region[15,3] <- ifelse(het_conurbano[8,4]<0.01,paste0(het_conurbano[8,2],"***"),ARG_het_region[

ARG_het_region[2,3] <- paste0("(",het_conurbano[1,3],")")
ARG_het_region[4,3] <- paste0("(",het_conurbano[2,3],")")
ARG_het_region[6,3] <- paste0("(",het_conurbano[3,3],")")
ARG_het_region[8,3] <- paste0("(",het_conurbano[4,3],")")
ARG_het_region[10,3] <- paste0("(",het_conurbano[5,3],")")
ARG_het_region[12,3] <- paste0("(",het_conurbano[6,3],")")
ARG_het_region[14,3] <- paste0("(",het_conurbano[7,3],")")
ARG_het_region[16,3] <- paste0("(",het_conurbano[8,3],")")

het_interact_region[,2] <- as.numeric(as.character(het_interact_region[,2]))
het_interact_region[,3] <- as.numeric(as.character(het_interact_region[,3]))
het_interact_region[,4] <- as.numeric(as.character(het_interact_region[,4]))

ARG_het_region[17,4] <- "Interaction Term"
ARG_het_region[1,4] <- ifelse(het_interact_region[1,4]<0.1,paste0(het_interact_region[1,2],"*"),het_inte
ARG_het_region[1,4] <- ifelse(het_interact_region[1,4]<0.05,paste0(het_interact_region[1,2],"**"),ARG_he
ARG_het_region[1,4] <- ifelse(het_interact_region[1,4]<0.01,paste0(het_interact_region[1,2],"***"),ARG_h

ARG_het_region[3,4] <- ifelse(het_interact_region[2,4]<0.1,paste0(het_interact_region[2,2],"*"),het_inte
ARG_het_region[3,4] <- ifelse(het_interact_region[2,4]<0.05,paste0(het_interact_region[2,2],"**"),ARG_he
ARG_het_region[3,4] <- ifelse(het_interact_region[2,4]<0.01,paste0(het_interact_region[2,2],"***"),ARG_h

ARG_het_region[5,4] <- ifelse(het_interact_region[3,4]<0.1,paste0(het_interact_region[3,2],"*"),het_inte
ARG_het_region[5,4] <- ifelse(het_interact_region[3,4]<0.05,paste0(het_interact_region[3,2],"**"),ARG_he
ARG_het_region[5,4] <- ifelse(het_interact_region[3,4]<0.01,paste0(het_interact_region[3,2],"***"),ARG_h

ARG_het_region[7,4] <- ifelse(het_interact_region[4,4]<0.1,paste0(het_interact_region[4,2],"*"),het_inte
ARG_het_region[7,4] <- ifelse(het_interact_region[4,4]<0.05,paste0(het_interact_region[4,2],"**"),ARG_he
ARG_het_region[7,4] <- ifelse(het_interact_region[4,4]<0.01,paste0(het_interact_region[4,2],"***"),ARG_h

ARG_het_region[9,4] <- ifelse(het_interact_region[5,4]<0.1,paste0(het_interact_region[5,2],"*"),het_inte
ARG_het_region[9,4] <- ifelse(het_interact_region[5,4]<0.05,paste0(het_interact_region[5,2],"**"),ARG_he
ARG_het_region[9,4] <- ifelse(het_interact_region[5,4]<0.01,paste0(het_interact_region[5,2],"***"),ARG_h

ARG_het_region[11,4] <- ifelse(het_interact_region[6,4]<0.1,paste0(het_interact_region[6,2],"*"),het_int
ARG_het_region[11,4] <- ifelse(het_interact_region[6,4]<0.05,paste0(het_interact_region[6,2],"**"),ARG_h
ARG_het_region[11,4] <- ifelse(het_interact_region[6,4]<0.01,paste0(het_interact_region[6,2],"***"),ARG_

ARG_het_region[13,4] <- ifelse(het_interact_region[7,4]<0.1,paste0(het_interact_region[7,2],"*"),het_int
ARG_het_region[13,4] <- ifelse(het_interact_region[7,4]<0.05,paste0(het_interact_region[7,2],"**"),ARG_h
ARG_het_region[13,4] <- ifelse(het_interact_region[7,4]<0.01,paste0(het_interact_region[7,2],"***"),ARG_

ARG_het_region[15,4] <- ifelse(het_interact_region[8,4]<0.1,paste0(het_interact_region[8,2],"*"),het_int
ARG_het_region[15,4] <- ifelse(het_interact_region[8,4]<0.05,paste0(het_interact_region[8,2],"**"),ARG_h
ARG_het_region[15,4] <- ifelse(het_interact_region[8,4]<0.01,paste0(het_interact_region[8,2],"***"),ARG_

ARG_het_region[2,4] <- paste0("(",het_interact_region[1,3],")")
ARG_het_region[4,4] <- paste0("(",het_interact_region[2,3],")")
ARG_het_region[6,4] <- paste0("(",het_interact_region[3,3],")")
```

```
ARG_het_region[8,4] <- paste0("(",het_interact_region[4,3],")")
ARG_het_region[10,4] <- paste0("(",het_interact_region[5,3],")")
ARG_het_region[12,4] <- paste0("(",het_interact_region[6,3],")")
ARG_het_region[14,4] <- paste0("(",het_interact_region[7,3],")")
ARG_het_region[16,4] <- paste0("(",het_interact_region[8,3],")")

ARG_het_region
```

```
##                                     V1             V2        V3
## 1         Progress on state corruption        -0.283**   -0.226*
## 2                                              (0.139)   (0.126)
## 3  State's ability to solve corruption          -0.168    -0.149
## 4                                               (0.17)   (0.134)
## 5             Prevalence of corruption           0.187     0.082
## 6                                              (0.116)   (0.096)
## 7                           Demonstrate          -0.056  -0.104**
## 8                                              (0.056)   (0.044)
## 9                          Invalid vote          0.106*    0.077*
## 10                                             (0.06)   (0.039)
## 11                  Trust in judiciary       -0.448***    -0.171
## 12                                             (0.141)   (0.109)
## 13                   Trust in parties       -0.449***    -0.117
## 14                                             (0.139)   (0.109)
## 15                   Trust in congress         -0.238*   -0.195*
## 16                                              (0.14)   (0.115)
## 17                              Sample Other Provinces Conurbano
##                   V4
## 1              0.08
## 2           (0.194)
## 3             0.029
## 4            (0.22)
## 5            -0.112
## 6           (0.153)
## 7            -0.044
## 8           (0.073)
## 9            -0.029
## 10          (0.071)
## 11            0.277
## 12           (0.18)
## 13           0.349*
## 14           (0.18)
## 15            0.074
## 16          (0.185)
## 17 Interaction Term
```

```
#Table A13:
stargazer(as.matrix(ARG_het_region), rownames=F, out="TableA13.tex")
```

```
##
## % Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harva
## % Date and time: Tue, Nov 08, 2022 - 11:06:36
## \begin{table}[!htbp] \centering
##   \caption{}
##   \label{}
```

```
## \begin{tabular}{@{\extracolsep{5pt}} cccc}
## \\[-1.8ex]\hline
## \hline \\[-1.8ex]
## V1 & V2 & V3 & V4 \\
## \hline \\[-1.8ex]
## Progress on state corruption & -0.283\textasteriskcentered \textasteriskcentered  & -0.226\textasteri
##  & (0.139) & (0.126) & (0.194) \\
## State's ability to solve corruption & -0.168 & -0.149 & 0.029 \\
##  & (0.17) & (0.134) & (0.22) \\
## Prevalence of corruption & 0.187 & 0.082 & -0.112 \\
##  & (0.116) & (0.096) & (0.153) \\
## Demonstrate & -0.056 & -0.104\textasteriskcentered \textasteriskcentered  & -0.044 \\
##  & (0.056) & (0.044) & (0.073) \\
## Invalid vote & 0.106\textasteriskcentered  & 0.077\textasteriskcentered  & -0.029 \\
##  & (0.06) & (0.039) & (0.071) \\
## Trust in judiciary & -0.448\textasteriskcentered \textasteriskcentered \textasteriskcentered  & -0.1
##  & (0.141) & (0.109) & (0.18) \\
## Trust in parties & -0.449\textasteriskcentered \textasteriskcentered \textasteriskcentered  & -0.117
##  & (0.139) & (0.109) & (0.18) \\
## Trust in congress & -0.238\textasteriskcentered  & -0.195\textasteriskcentered  & 0.074 \\
##  & (0.14) & (0.115) & (0.185) \\
## Sample & Other Provinces & Conurbano & Interaction Term \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

```
###by age:
##Table A16:

##age_1:
age_1 <- subset(ARG, ARG$age<41) #below median age:

outcomes_age_1 <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + povei
    summary(lm(progcorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + povei
    sum(ifelse(!is.na(subset(age_1,age_1$treat7==0|age_1$treat7==1)$progcorrupt),1,0))
    ),
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(solvecorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(age_1,age_1$treat7==0|age_1$treat7==1)$solvecorrupt),1,0))
    ),
  c("corrupt",
    summary(lm(corrupt ~ treat7 + male + age + complete_highschool + university + laborforce + poverty +
    summary(lm(corrupt ~ treat7 + male + age + complete_highschool + university + laborforce + poverty +
    sum(ifelse(!is.na(subset(age_1,age_1$treat7==0|age_1$treat7==1)$corrupt),1,0))
    ),
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ treat7 + male + age + complete_highschool + university + labori
    summary(lm(demonstrate_willingness ~ treat7 + male + age + complete_highschool + university + labori
    sum(ifelse(!is.na(subset(age_1,age_1$treat7==0|age_1$treat7==1)$demonstrate_willingness),1,0))
    ),
  c("vote_null",
```

```
    summary(lm(vote_null ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_null ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(age_1,age_1$treat7==0|age_1$treat7==1)$vote_null),1,0))
    ),
  c("vote_not",
    summary(lm(vote_not ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_not ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(age_1,age_1$treat7==0|age_1$treat7==1)$vote_not),1,0))
    ),
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(vote_invalid ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(age_1,age_1$treat7==0|age_1$treat7==1)$vote_invalid),1,0))
    ),
  c("conf_judge",
    summary(lm(conf_judge ~ treat7 + male + age + complete_highschool + university + laborforce + pover
    summary(lm(conf_judge ~ treat7 + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(age_1,age_1$treat7==0|age_1$treat7==1)$conf_judge),1,0))
    ),
  c("conf_parties",
    summary(lm(conf_parties ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(conf_parties ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(age_1,age_1$treat7==0|age_1$treat7==1)$conf_parties),1,0))
    ),
  c("conf_parl",
    summary(lm(conf_parl ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_parl ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(age_1,age_1$treat7==0|age_1$treat7==1)$conf_parl),1,0))
    ))

colnames(outcomes_age_1) <- c("Variable","Intercept7","Estimate7","SE7","pvalue7","ValidN7")

het_age_1 <- outcomes_age_1[,c(1,3,4:6)]
het_age_1[,2] <- round(as.numeric(het_age_1[,2]),3)
het_age_1[,3] <- round(as.numeric(het_age_1[,3]),3)
het_age_1[,4] <- round(as.numeric(het_age_1[,4]),3)

het_age_1 <- as.data.frame(het_age_1[c(1:4,7:10),])

het_age_1[,1] <- c("Progress on state corruption","State's ability to solve corruption","Prevalence of c

colnames(het_age_1) <- c("Variable","Effect","SE","p Value", "N")

het_age_1
```

```
##                              Variable Effect    SE p Value   N
## 1        Progress on state corruption -0.282 0.132   0.033 370
## 2 State's ability to solve corruption  0.032 0.144   0.824 378
## 3            Prevalence of corruption   0.04   0.1   0.691 370
## 4                         Demonstrate   -0.1 0.047   0.033 381
## 5                        Invalid vote  0.072 0.047   0.128 366
## 6                  Trust in judiciary -0.237  0.12    0.05 380
## 7                    Trust in parties -0.192 0.116     0.1 381
## 8                   Trust in congress -0.265 0.117   0.025 378
```

```r
##age_2:
age_2 <- subset(ARG, ARG$age>40)

outcomes_age_2 <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pover
    summary(lm(progcorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(age_2,age_2$treat7==0|age_2$treat7==1)$progcorrupt),1,0))
    ),
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(solvecorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(age_2,age_2$treat7==0|age_2$treat7==1)$solvecorrupt),1,0))
    ),
  c("corrupt",
    summary(lm(corrupt ~ treat7 + male + age + complete_highschool + university + laborforce + poverty +
    summary(lm(corrupt ~ treat7 + male + age + complete_highschool + university + laborforce + poverty +
    sum(ifelse(!is.na(subset(age_2,age_2$treat7==0|age_2$treat7==1)$corrupt),1,0))
    ),
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ treat7 + male + age + complete_highschool + university + labori
    summary(lm(demonstrate_willingness ~ treat7 + male + age + complete_highschool + university + labori
    sum(ifelse(!is.na(subset(age_2,age_2$treat7==0|age_2$treat7==1)$demonstrate_willingness),1,0))
    ),
  c("vote_null",
    summary(lm(vote_null ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_null ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(age_2,age_2$treat7==0|age_2$treat7==1)$vote_null),1,0))
    ),
  c("vote_not",
    summary(lm(vote_not ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_not ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(age_2,age_2$treat7==0|age_2$treat7==1)$vote_not),1,0))
    ),
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(vote_invalid ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(age_2,age_2$treat7==0|age_2$treat7==1)$vote_invalid),1,0))
    ),
  c("conf_judge",
    summary(lm(conf_judge ~ treat7 + male + age + complete_highschool + university + laborforce + pover
    summary(lm(conf_judge ~ treat7 + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(age_2,age_2$treat7==0|age_2$treat7==1)$conf_judge),1,0))
    ),
  c("conf_parties",
    summary(lm(conf_parties ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(conf_parties ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(age_2,age_2$treat7==0|age_2$treat7==1)$conf_parties),1,0))
    ),
  c("conf_parl",
    summary(lm(conf_parl ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_parl ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(age_2,age_2$treat7==0|age_2$treat7==1)$conf_parl),1,0))
```

```
    ))

colnames(outcomes_age_2) <- c("Variable","Intercept7","Estimate7","SE7","pvalue7","ValidN7")

het_age_2 <- outcomes_age_2[,c(1,3,4:6)]
het_age_2[,2] <- round(as.numeric(het_age_2[,2]),3)
het_age_2[,3] <- round(as.numeric(het_age_2[,3]),3)
het_age_2[,4] <- round(as.numeric(het_age_2[,4]),3)

het_age_2 <- as.data.frame(het_age_2[c(1:4,7:10),])

het_age_2[,1] <- c("Progress on state corruption","State's ability to solve corruption","Prevalence of c

colnames(het_age_2) <- c("Variable","Effect","SE","p Value", "N")

het_age_2
```

```
##                              Variable Effect    SE p Value   N
## 1        Progress on state corruption -0.168 0.129   0.193 359
## 2 State's ability to solve corruption -0.326 0.153   0.033 370
## 3            Prevalence of corruption  0.224 0.106   0.035 359
## 4                         Demonstrate -0.071 0.052   0.178 374
## 5                        Invalid vote  0.099 0.049   0.043 348
## 6                  Trust in judiciary -0.286 0.122    0.02 374
## 7                    Trust in parties -0.275 0.125   0.029 372
## 8                   Trust in congress  -0.13 0.131   0.322 373
```

```
##interact_age:
valid_age <- subset(ARG, !is.na(age))

outcomes_interact_age <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat7 * age + treat7 + male + age + complete_highschool + university + lab
    summary(lm(progcorrupt ~ treat7 * age + treat7 + male + age + complete_highschool + university + lab
    sum(ifelse(!is.na(subset(valid_age,valid_age$treat7==0|valid_age$treat7==1)$progcorrupt),1,0))
    ),
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ treat7 * age + treat7 + male + age + complete_highschool + university + la
    summary(lm(solvecorrupt ~ treat7 * age + treat7 + male + age + complete_highschool + university + la
    sum(ifelse(!is.na(subset(valid_age,valid_age$treat7==0|valid_age$treat7==1)$solvecorrupt),1,0))
    ),
  c("corrupt",
    summary(lm(corrupt ~ treat7 * age + treat7 + male + age + complete_highschool + university + laborfo
    summary(lm(corrupt ~ treat7 * age + treat7 + male + age + complete_highschool + university + laborfo
    sum(ifelse(!is.na(subset(valid_age,valid_age$treat7==0|valid_age$treat7==1)$corrupt),1,0))
    ),
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ treat7 * age + treat7 + male + age + complete_highschool + univ
    summary(lm(demonstrate_willingness ~ treat7 * age + treat7 + male + age + complete_highschool + univ
    sum(ifelse(!is.na(subset(valid_age,valid_age$treat7==0|valid_age$treat7==1)$demonstrate_willingness)
    ),
  c("vote_null",
    summary(lm(vote_null ~ treat7 * age + treat7 + male + age + complete_highschool + university + labor
    summary(lm(vote_null ~ treat7 * age + treat7 + male + age + complete_highschool + university + labor
```

```
    sum(ifelse(!is.na(subset(valid_age,valid_age$treat7==0|valid_age$treat7==1)$vote_null),1,0))
    ),
  c("vote_not",
    summary(lm(vote_not ~ treat7 * age + treat7 + male + age + complete_highschool + university + labori
    summary(lm(vote_not ~ treat7 * age + treat7 + male + age + complete_highschool + university + labori
    sum(ifelse(!is.na(subset(valid_age,valid_age$treat7==0|valid_age$treat7==1)$vote_not),1,0))
    ),
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat7 * age + treat7 + male + age + complete_highschool + university + la
    summary(lm(vote_invalid ~ treat7 * age + treat7 + male + age + complete_highschool + university + la
    sum(ifelse(!is.na(subset(valid_age,valid_age$treat7==0|valid_age$treat7==1)$vote_invalid),1,0))
    ),
  c("conf_judge",
    summary(lm(conf_judge ~ treat7 * age + treat7 + male + age + complete_highschool + university + labo
    summary(lm(conf_judge ~ treat7 * age + treat7 + male + age + complete_highschool + university + labo
    sum(ifelse(!is.na(subset(valid_age,valid_age$treat7==0|valid_age$treat7==1)$conf_judge),1,0))
    ),
  c("conf_parties",
    summary(lm(conf_parties ~ treat7 * age + treat7 + male + age + complete_highschool + university + la
    summary(lm(conf_parties ~ treat7 * age + treat7 + male + age + complete_highschool + university + la
    sum(ifelse(!is.na(subset(valid_age,valid_age$treat7==0|valid_age$treat7==1)$conf_parties),1,0))
    ),
  c("conf_parl",
    summary(lm(conf_parl ~ treat7 * age + treat7 + male + age + complete_highschool + university + labor
    summary(lm(conf_parl ~ treat7 * age + treat7 + male + age + complete_highschool + university + labor
    sum(ifelse(!is.na(subset(valid_age,valid_age$treat7==0|valid_age$treat7==1)$conf_parl),1,0))
    ))

colnames(outcomes_interact_age) <- c("Variable","Intercept7","Estimate7","SE7","pvalue7","ValidN7")

het_interact_age <- outcomes_interact_age[,c(1,3,4:6)]
het_interact_age[,2] <- round(as.numeric(het_interact_age[,2]),3)
het_interact_age[,3] <- round(as.numeric(het_interact_age[,3]),3)
het_interact_age[,4] <- round(as.numeric(het_interact_age[,4]),3)

het_interact_age <- as.data.frame(het_interact_age[c(1:4,7:10),])

het_interact_age[,1] <-  c("Progress on state corruption","State's ability to solve corruption","Prevale

colnames(het_interact_age) <- c("Variable","Effect","SE","p Value", "N")

het_interact_age
```

```
##                              Variable Effect    SE p Value   N
## 1        Progress on state corruption -0.001 0.004   0.793 729
## 2 State's ability to solve corruption -0.009 0.005   0.056 748
## 3            Prevalence of corruption  0.004 0.003   0.212 729
## 4                          Demonstrate  0.001 0.002   0.661 755
## 5                         Invalid vote  0.001 0.001   0.596 714
## 6                  Trust in judiciary -0.001 0.004   0.717 754
## 7                    Trust in parties -0.005 0.004   0.192 753
## 8                   Trust in congress  0.003 0.004   0.442 751
```

```
##combine the output for the different subgroup analyses & interaction term:
ARG_het_age <- as.data.frame(cbind(rep(NA,2*nrow(het_age_1)),rep(NA,2*nrow(het_age_1)),rep(NA,2*nrow(he

ARG_het_age[1,1] <- het_age_1[1,1]
ARG_het_age[2,1] <- ""
ARG_het_age[3,1] <- het_age_1[2,1]
ARG_het_age[4,1] <- ""
ARG_het_age[5,1] <- het_age_1[3,1]
ARG_het_age[6,1] <- ""
ARG_het_age[7,1] <- het_age_1[4,1]
ARG_het_age[8,1] <- ""
ARG_het_age[9,1] <- het_age_1[5,1]
ARG_het_age[10,1] <- ""
ARG_het_age[11,1] <- het_age_1[6,1]
ARG_het_age[12,1] <- ""
ARG_het_age[13,1] <- het_age_1[7,1]
ARG_het_age[14,1] <- ""
ARG_het_age[15,1] <- het_age_1[8,1]
ARG_het_age[16,1] <- ""
ARG_het_age[17,1] <- "Sample"

het_age_1[,2] <- as.numeric(as.character(het_age_1[,2]))
het_age_1[,3] <- as.numeric(as.character(het_age_1[,3]))
het_age_1[,4] <- as.numeric(as.character(het_age_1[,4]))

ARG_het_age[17,2] <- "Young"
ARG_het_age[1,2] <- ifelse(het_age_1[1,4]<0.1,paste0(het_age_1[1,2],"*"),het_age_1[1,2])
ARG_het_age[1,2] <- ifelse(het_age_1[1,4]<0.05,paste0(het_age_1[1,2],"**"),ARG_het_age[1,2])
ARG_het_age[1,2] <- ifelse(het_age_1[1,4]<0.01,paste0(het_age_1[1,2],"***"),ARG_het_age[1,2])

ARG_het_age[3,2] <- ifelse(het_age_1[2,4]<0.1,paste0(het_age_1[2,2],"*"),het_age_1[2,2])
ARG_het_age[3,2] <- ifelse(het_age_1[2,4]<0.05,paste0(het_age_1[2,2],"**"),ARG_het_age[3,2])
ARG_het_age[3,2] <- ifelse(het_age_1[2,4]<0.01,paste0(het_age_1[2,2],"***"),ARG_het_age[3,2])

ARG_het_age[5,2] <- ifelse(het_age_1[3,4]<0.1,paste0(het_age_1[3,2],"*"),het_age_1[3,2])
ARG_het_age[5,2] <- ifelse(het_age_1[3,4]<0.05,paste0(het_age_1[3,2],"**"),ARG_het_age[5,2])
ARG_het_age[5,2] <- ifelse(het_age_1[3,4]<0.01,paste0(het_age_1[3,2],"***"),ARG_het_age[5,2])

ARG_het_age[7,2] <- ifelse(het_age_1[4,4]<0.1,paste0(het_age_1[4,2],"*"),het_age_1[4,2])
ARG_het_age[7,2] <- ifelse(het_age_1[4,4]<0.05,paste0(het_age_1[4,2],"**"),ARG_het_age[7,2])
ARG_het_age[7,2] <- ifelse(het_age_1[4,4]<0.01,paste0(het_age_1[4,2],"***"),ARG_het_age[7,2])

ARG_het_age[9,2] <- ifelse(het_age_1[5,4]<0.1,paste0(het_age_1[5,2],"*"),het_age_1[5,2])
ARG_het_age[9,2] <- ifelse(het_age_1[5,4]<0.05,paste0(het_age_1[5,2],"**"),ARG_het_age[9,2])
ARG_het_age[9,2] <- ifelse(het_age_1[5,4]<0.01,paste0(het_age_1[5,2],"***"),ARG_het_age[9,2])

ARG_het_age[11,2] <- ifelse(het_age_1[6,4]<0.1,paste0(het_age_1[6,2],"*"),het_age_1[6,2])
ARG_het_age[11,2] <- ifelse(het_age_1[6,4]<0.05,paste0(het_age_1[6,2],"**"),ARG_het_age[11,2])
ARG_het_age[11,2] <- ifelse(het_age_1[6,4]<0.01,paste0(het_age_1[6,2],"***"),ARG_het_age[11,2])

ARG_het_age[13,2] <- ifelse(het_age_1[7,4]<0.1,paste0(het_age_1[7,2],"*"),het_age_1[7,2])
ARG_het_age[13,2] <- ifelse(het_age_1[7,4]<0.05,paste0(het_age_1[7,2],"**"),ARG_het_age[13,2])
ARG_het_age[13,2] <- ifelse(het_age_1[7,4]<0.01,paste0(het_age_1[7,2],"***"),ARG_het_age[13,2])
```

```
ARG_het_age[15,2] <- ifelse(het_age_1[8,4]<0.1,paste0(het_age_1[8,2],"*"),het_age_1[8,2])
ARG_het_age[15,2] <- ifelse(het_age_1[8,4]<0.05,paste0(het_age_1[8,2],"**"),ARG_het_age[15,2])
ARG_het_age[15,2] <- ifelse(het_age_1[8,4]<0.01,paste0(het_age_1[8,2],"***"),ARG_het_age[15,2])

ARG_het_age[2,2] <- paste0("(",het_age_1[1,3],")")
ARG_het_age[4,2] <- paste0("(",het_age_1[2,3],")")
ARG_het_age[6,2] <- paste0("(",het_age_1[3,3],")")
ARG_het_age[8,2] <- paste0("(",het_age_1[4,3],")")
ARG_het_age[10,2] <- paste0("(",het_age_1[5,3],")")
ARG_het_age[12,2] <- paste0("(",het_age_1[6,3],")")
ARG_het_age[14,2] <- paste0("(",het_age_1[7,3],")")
ARG_het_age[16,2] <- paste0("(",het_age_1[8,3],")")

het_age_2[,2] <- as.numeric(as.character(het_age_2[,2]))
het_age_2[,3] <- as.numeric(as.character(het_age_2[,3]))
het_age_2[,4] <- as.numeric(as.character(het_age_2[,4]))

ARG_het_age[17,3] <- "Old"
ARG_het_age[1,3] <- ifelse(het_age_2[1,4]<0.1,paste0(het_age_2[1,2],"*"),het_age_2[1,2])
ARG_het_age[1,3] <- ifelse(het_age_2[1,4]<0.05,paste0(het_age_2[1,2],"**"),ARG_het_age[1,3])
ARG_het_age[1,3] <- ifelse(het_age_2[1,4]<0.01,paste0(het_age_2[1,2],"***"),ARG_het_age[1,3])

ARG_het_age[3,3] <- ifelse(het_age_2[2,4]<0.1,paste0(het_age_2[2,2],"*"),het_age_2[2,2])
ARG_het_age[3,3] <- ifelse(het_age_2[2,4]<0.05,paste0(het_age_2[2,2],"**"),ARG_het_age[3,3])
ARG_het_age[3,3] <- ifelse(het_age_2[2,4]<0.01,paste0(het_age_2[2,2],"***"),ARG_het_age[3,3])

ARG_het_age[5,3] <- ifelse(het_age_2[3,4]<0.1,paste0(het_age_2[3,2],"*"),het_age_2[3,2])
ARG_het_age[5,3] <- ifelse(het_age_2[3,4]<0.05,paste0(het_age_2[3,2],"**"),ARG_het_age[5,3])
ARG_het_age[5,3] <- ifelse(het_age_2[3,4]<0.01,paste0(het_age_2[3,2],"***"),ARG_het_age[5,3])

ARG_het_age[7,3] <- ifelse(het_age_2[4,4]<0.1,paste0(het_age_2[4,2],"*"),het_age_2[4,2])
ARG_het_age[7,3] <- ifelse(het_age_2[4,4]<0.05,paste0(het_age_2[4,2],"**"),ARG_het_age[7,3])
ARG_het_age[7,3] <- ifelse(het_age_2[4,4]<0.01,paste0(het_age_2[4,2],"***"),ARG_het_age[7,3])

ARG_het_age[9,3] <- ifelse(het_age_2[5,4]<0.1,paste0(het_age_2[5,2],"*"),het_age_2[5,2])
ARG_het_age[9,3] <- ifelse(het_age_2[5,4]<0.05,paste0(het_age_2[5,2],"**"),ARG_het_age[9,3])
ARG_het_age[9,3] <- ifelse(het_age_2[5,4]<0.01,paste0(het_age_2[5,2],"***"),ARG_het_age[9,3])

ARG_het_age[11,3] <- ifelse(het_age_2[6,4]<0.1,paste0(het_age_2[6,2],"*"),het_age_2[6,2])
ARG_het_age[11,3] <- ifelse(het_age_2[6,4]<0.05,paste0(het_age_2[6,2],"**"),ARG_het_age[11,3])
ARG_het_age[11,3] <- ifelse(het_age_2[6,4]<0.01,paste0(het_age_2[6,2],"***"),ARG_het_age[11,3])

ARG_het_age[13,3] <- ifelse(het_age_2[7,4]<0.1,paste0(het_age_2[7,2],"*"),het_age_2[7,2])
ARG_het_age[13,3] <- ifelse(het_age_2[7,4]<0.05,paste0(het_age_2[7,2],"**"),ARG_het_age[13,3])
ARG_het_age[13,3] <- ifelse(het_age_2[7,4]<0.01,paste0(het_age_2[7,2],"***"),ARG_het_age[13,3])

ARG_het_age[15,3] <- ifelse(het_age_2[8,4]<0.1,paste0(het_age_2[8,2],"*"),het_age_2[8,2])
ARG_het_age[15,3] <- ifelse(het_age_2[8,4]<0.05,paste0(het_age_2[8,2],"**"),ARG_het_age[15,3])
ARG_het_age[15,3] <- ifelse(het_age_2[8,4]<0.01,paste0(het_age_2[8,2],"***"),ARG_het_age[15,3])

ARG_het_age[2,3] <- paste0("(",het_age_2[1,3],")")
ARG_het_age[4,3] <- paste0("(",het_age_2[2,3],")")
ARG_het_age[6,3] <- paste0("(",het_age_2[3,3],")")
```

```
ARG_het_age[8,3] <- paste0("(",het_age_2[4,3],")")
ARG_het_age[10,3] <- paste0("(",het_age_2[5,3],")")
ARG_het_age[12,3] <- paste0("(",het_age_2[6,3],")")
ARG_het_age[14,3] <- paste0("(",het_age_2[7,3],")")
ARG_het_age[16,3] <- paste0("(",het_age_2[8,3],")")

het_interact_age[,2] <- as.numeric(as.character(het_interact_age[,2]))
het_interact_age[,3] <- as.numeric(as.character(het_interact_age[,3]))
het_interact_age[,4] <- as.numeric(as.character(het_interact_age[,4]))

ARG_het_age[17,4] <- "Interaction Term"
ARG_het_age[1,4] <- ifelse(het_interact_age[1,4]<0.1,paste0(het_interact_age[1,2],"*"),het_interact_age
ARG_het_age[1,4] <- ifelse(het_interact_age[1,4]<0.05,paste0(het_interact_age[1,2],"**"),ARG_het_age[1,
ARG_het_age[1,4] <- ifelse(het_interact_age[1,4]<0.01,paste0(het_interact_age[1,2],"***"),ARG_het_age[1

ARG_het_age[3,4] <- ifelse(het_interact_age[2,4]<0.1,paste0(het_interact_age[2,2],"*"),het_interact_age
ARG_het_age[3,4] <- ifelse(het_interact_age[2,4]<0.05,paste0(het_interact_age[2,2],"**"),ARG_het_age[3,
ARG_het_age[3,4] <- ifelse(het_interact_age[2,4]<0.01,paste0(het_interact_age[2,2],"***"),ARG_het_age[3

ARG_het_age[5,4] <- ifelse(het_interact_age[3,4]<0.1,paste0(het_interact_age[3,2],"*"),het_interact_age
ARG_het_age[5,4] <- ifelse(het_interact_age[3,4]<0.05,paste0(het_interact_age[3,2],"**"),ARG_het_age[5,
ARG_het_age[5,4] <- ifelse(het_interact_age[3,4]<0.01,paste0(het_interact_age[3,2],"***"),ARG_het_age[5

ARG_het_age[7,4] <- ifelse(het_interact_age[4,4]<0.1,paste0(het_interact_age[4,2],"*"),het_interact_age
ARG_het_age[7,4] <- ifelse(het_interact_age[4,4]<0.05,paste0(het_interact_age[4,2],"**"),ARG_het_age[7,
ARG_het_age[7,4] <- ifelse(het_interact_age[4,4]<0.01,paste0(het_interact_age[4,2],"***"),ARG_het_age[7

ARG_het_age[9,4] <- ifelse(het_interact_age[5,4]<0.1,paste0(het_interact_age[5,2],"*"),het_interact_age
ARG_het_age[9,4] <- ifelse(het_interact_age[5,4]<0.05,paste0(het_interact_age[5,2],"**"),ARG_het_age[9,
ARG_het_age[9,4] <- ifelse(het_interact_age[5,4]<0.01,paste0(het_interact_age[5,2],"***"),ARG_het_age[9

ARG_het_age[11,4] <- ifelse(het_interact_age[6,4]<0.1,paste0(het_interact_age[6,2],"*"),het_interact_ag
ARG_het_age[11,4] <- ifelse(het_interact_age[6,4]<0.05,paste0(het_interact_age[6,2],"**"),ARG_het_age[1
ARG_het_age[11,4] <- ifelse(het_interact_age[6,4]<0.01,paste0(het_interact_age[6,2],"***"),ARG_het_age[

ARG_het_age[13,4] <- ifelse(het_interact_age[7,4]<0.1,paste0(het_interact_age[7,2],"*"),het_interact_ag
ARG_het_age[13,4] <- ifelse(het_interact_age[7,4]<0.05,paste0(het_interact_age[7,2],"**"),ARG_het_age[13
ARG_het_age[13,4] <- ifelse(het_interact_age[7,4]<0.01,paste0(het_interact_age[7,2],"***"),ARG_het_age[

ARG_het_age[15,4] <- ifelse(het_interact_age[8,4]<0.1,paste0(het_interact_age[8,2],"*"),het_interact_ag
ARG_het_age[15,4] <- ifelse(het_interact_age[8,4]<0.05,paste0(het_interact_age[8,2],"**"),ARG_het_age[15
ARG_het_age[15,4] <- ifelse(het_interact_age[8,4]<0.01,paste0(het_interact_age[8,2],"***"),ARG_het_age[

ARG_het_age[2,4] <- paste0("(",het_interact_age[1,3],")")
ARG_het_age[4,4] <- paste0("(",het_interact_age[2,3],")")
ARG_het_age[6,4] <- paste0("(",het_interact_age[3,3],")")
ARG_het_age[8,4] <- paste0("(",het_interact_age[4,3],")")
ARG_het_age[10,4] <- paste0("(",het_interact_age[5,3],")")
ARG_het_age[12,4] <- paste0("(",het_interact_age[6,3],")")
ARG_het_age[14,4] <- paste0("(",het_interact_age[7,3],")")
ARG_het_age[16,4] <- paste0("(",het_interact_age[8,3],")")

ARG_het_age
```

```
##                                     V1       V2       V3              V4
## 1         Progress on state corruption -0.282**   -0.168          -0.001
## 2                                      (0.132)  (0.129)          (0.004)
## 3  State's ability to solve corruption    0.032 -0.326**          -0.009*
## 4                                      (0.144)  (0.153)          (0.005)
## 5             Prevalence of corruption     0.04  0.224**           0.004
## 6                                       (0.1)  (0.106)          (0.003)
## 7                           Demonstrate   -0.1**   -0.071           0.001
## 8                                      (0.047)  (0.052)          (0.002)
## 9                          Invalid vote    0.072  0.099**           0.001
## 10                                     (0.047)  (0.049)          (0.001)
## 11                  Trust in judiciary  -0.237* -0.286**          -0.001
## 12                                      (0.12)  (0.122)          (0.004)
## 13                    Trust in parties   -0.192 -0.275**          -0.005
## 14                                     (0.116)  (0.125)          (0.004)
## 15                   Trust in congress -0.265**    -0.13           0.003
## 16                                     (0.117)  (0.131)          (0.004)
## 17                               Sample    Young      Old Interaction Term
```

```
#Table A16:
stargazer(as.matrix(ARG_het_age), rownames=F, out="TableA16.tex")
```

```
##
## % Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harva
## % Date and time: Tue, Nov 08, 2022 - 11:06:37
## \begin{table}[!htbp] \centering
##   \caption{}
##   \label{}
## \begin{tabular}{@{\extracolsep{5pt}} cccc}
## \\[-1.8ex]\hline
## \hline \\[-1.8ex]
## V1 & V2 & V3 & V4 \\
## \hline \\[-1.8ex]
## Progress on state corruption & -0.282\textasteriskcentered \textasteriskcentered  & -0.168 & -0.001 \
##  & (0.132) & (0.129) & (0.004) \\
## State's ability to solve corruption & 0.032 & -0.326\textasteriskcentered \textasteriskcentered  & -0
##  & (0.144) & (0.153) & (0.005) \\
## Prevalence of corruption & 0.04 & 0.224\textasteriskcentered \textasteriskcentered  & 0.004 \\
##  & (0.1) & (0.106) & (0.003) \\
## Demonstrate & -0.1\textasteriskcentered \textasteriskcentered  & -0.071 & 0.001 \\
##  & (0.047) & (0.052) & (0.002) \\
## Invalid vote & 0.072 & 0.099\textasteriskcentered \textasteriskcentered  & 0.001 \\
##  & (0.047) & (0.049) & (0.001) \\
## Trust in judiciary & -0.237\textasteriskcentered  & -0.286\textasteriskcentered \textasteriskcentere
##  & (0.12) & (0.122) & (0.004) \\
## Trust in parties & -0.192 & -0.275\textasteriskcentered \textasteriskcentered  & -0.005 \\
##  & (0.116) & (0.125) & (0.004) \\
## Trust in congress & -0.265\textasteriskcentered \textasteriskcentered  & -0.13 & 0.003 \\
##  & (0.117) & (0.131) & (0.004) \\
## Sample & Young & Old & Interaction Term \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

```r
###by past voting status:
##Table A15:

##voted_not_past:
voted_not_past <- subset(ARG, ARG$voted==0)

outcomes_voted_not_past <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pover
    summary(lm(progcorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(voted_not_past,voted_not_past$treat7==0|voted_not_past$treat7==1)$progcorru
    ),
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(solvecorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(voted_not_past,voted_not_past$treat7==0|voted_not_past$treat7==1)$solvecori
    ),
  c("corrupt",
    summary(lm(corrupt ~ treat7 + male + age + complete_highschool + university + laborforce + poverty +
    summary(lm(corrupt ~ treat7 + male + age + complete_highschool + university + laborforce + poverty +
    sum(ifelse(!is.na(subset(voted_not_past,voted_not_past$treat7==0|voted_not_past$treat7==1)$corrupt)
    ),
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ treat7 + male + age + complete_highschool + university + labori
    summary(lm(demonstrate_willingness ~ treat7 + male + age + complete_highschool + university + labori
    sum(ifelse(!is.na(subset(voted_not_past,voted_not_past$treat7==0|voted_not_past$treat7==1)$demonstra
    ),
  c("vote_null",
    summary(lm(vote_null ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_null ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(voted_not_past,voted_not_past$treat7==0|voted_not_past$treat7==1)$vote_null
    ),
  c("vote_not",
    summary(lm(vote_not ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_not ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(voted_not_past,voted_not_past$treat7==0|voted_not_past$treat7==1)$vote_not)
    ),
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(vote_invalid ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(voted_not_past,voted_not_past$treat7==0|voted_not_past$treat7==1)$vote_inva
    ),
  c("conf_judge",
    summary(lm(conf_judge ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_judge ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(voted_not_past,voted_not_past$treat7==0|voted_not_past$treat7==1)$conf_judg
    ),
  c("conf_parties",
    summary(lm(conf_parties ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(conf_parties ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(voted_not_past,voted_not_past$treat7==0|voted_not_past$treat7==1)$conf_part
    ),
  c("conf_parl",
```

```
    summary(lm(conf_parl ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_parl ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(voted_not_past,voted_not_past$treat7==0|voted_not_past$treat7==1)$conf_parl
    ))

colnames(outcomes_voted_not_past) <- c("Variable","Intercept7","Estimate7","SE7","pvalue7","ValidN7")

het_voted_not_past <- outcomes_voted_not_past[,c(1,3,4:6)]
het_voted_not_past[,2] <- round(as.numeric(het_voted_not_past[,2]),3)
het_voted_not_past[,3] <- round(as.numeric(het_voted_not_past[,3]),3)
het_voted_not_past[,4] <- round(as.numeric(het_voted_not_past[,4]),3)

het_voted_not_past <- as.data.frame(het_voted_not_past[c(1:4,7:10),])

het_voted_not_past[,1] <- c("Progress on state corruption","State's ability to solve corruption","Preval

colnames(het_voted_not_past) <- c("Variable","Effect","SE","p Value", "N")

het_voted_not_past
```

```
##                              Variable Effect    SE p Value   N
## 1        Progress on state corruption -0.328 0.216   0.132 123
## 2 State's ability to solve corruption  -0.22 0.233   0.348 122
## 3            Prevalence of corruption  0.241 0.178    0.18 120
## 4                          Demonstrate -0.057  0.08   0.474 125
## 5                        Invalid vote  0.021 0.102   0.837 118
## 6                  Trust in judiciary  -0.25 0.206   0.229 126
## 7                    Trust in parties -0.302 0.199   0.132 125
## 8                   Trust in congress -0.096 0.197   0.629 126
```

```
##voted_past:
voted_past <- subset(ARG, ARG$voted==1)

outcomes_voted_past <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pover
    summary(lm(progcorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(voted_past,voted_past$treat7==0|voted_past$treat7==1)$progcorrupt),1,0))
    ),
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(solvecorrupt ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(voted_past,voted_past$treat7==0|voted_past$treat7==1)$solvecorrupt),1,0))
    ),
  c("corrupt",
    summary(lm(corrupt ~ treat7 + male + age + complete_highschool + university + laborforce + poverty +
    summary(lm(corrupt ~ treat7 + male + age + complete_highschool + university + laborforce + poverty +
    sum(ifelse(!is.na(subset(voted_past,voted_past$treat7==0|voted_past$treat7==1)$corrupt),1,0))
    ),
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ treat7 + male + age + complete_highschool + university + labori
    summary(lm(demonstrate_willingness ~ treat7 + male + age + complete_highschool + university + labori
    sum(ifelse(!is.na(subset(voted_past,voted_past$treat7==0|voted_past$treat7==1)$demonstrate_willingne
    ),
```

```
  c("vote_null",
    summary(lm(vote_null ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_null ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(voted_past,voted_past$treat7==0|voted_past$treat7==1)$vote_null),1,0))
    ),
  c("vote_not",
    summary(lm(vote_not ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(vote_not ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(voted_past,voted_past$treat7==0|voted_past$treat7==1)$vote_not),1,0))
    ),
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(vote_invalid ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(voted_past,voted_past$treat7==0|voted_past$treat7==1)$vote_invalid),1,0))
    ),
  c("conf_judge",
    summary(lm(conf_judge ~ treat7 + male + age + complete_highschool + university + laborforce + pover
    summary(lm(conf_judge ~ treat7 + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(voted_past,voted_past$treat7==0|voted_past$treat7==1)$conf_judge),1,0))
    ),
  c("conf_parties",
    summary(lm(conf_parties ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(conf_parties ~ treat7 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(voted_past,voted_past$treat7==0|voted_past$treat7==1)$conf_parties),1,0))
    ),
  c("conf_parl",
    summary(lm(conf_parl ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_parl ~ treat7 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(voted_past,voted_past$treat7==0|voted_past$treat7==1)$conf_parl),1,0))
    ))

colnames(outcomes_voted_past) <- c("Variable","Intercept7","Estimate7","SE7","pvalue7","ValidN7")

het_voted_past <- outcomes_voted_past[,c(1,3,4:6)]
het_voted_past[,2] <- round(as.numeric(het_voted_past[,2]),3)
het_voted_past[,3] <- round(as.numeric(het_voted_past[,3]),3)
het_voted_past[,4] <- round(as.numeric(het_voted_past[,4]),3)

het_voted_past <- as.data.frame(het_voted_past[c(1:4,7:10),])

het_voted_past[,1] <-  c("Progress on state corruption","State's ability to solve corruption","Prevalen

colnames(het_voted_past) <- c("Variable","Effect","SE","p Value", "N")

het_voted_past
```

```
##                              Variable Effect    SE p Value   N
## 1        Progress on state corruption   -0.2 0.103   0.052 604
## 2 State's ability to solve corruption -0.167 0.116   0.151 624
## 3            Prevalence of corruption  0.095  0.08   0.232 607
## 4                          Demonstrate -0.089 0.039   0.021 628
## 5                         Invalid vote  0.093 0.035   0.007 594
## 6                  Trust in judiciary -0.243 0.094    0.01 626
## 7                    Trust in parties   -0.2 0.096   0.037 626
```

```
## 8                   Trust in congress -0.188 0.098   0.056 623
```

```
##interact_voted_past:
valid_voted_past <- subset(ARG, !is.na(voted))

outcomes_interact_voted_past <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat7 * voted + treat7 + male + age + complete_highschool + university + l
    summary(lm(progcorrupt ~ treat7 * voted + treat7 + male + age + complete_highschool + university + l
    sum(ifelse(!is.na(subset(valid_voted_past,valid_voted_past$treat7==0|valid_voted_past$treat7==1)$pro
    ),
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ treat7 * voted + treat7 + male + age + complete_highschool + university +
    summary(lm(solvecorrupt ~ treat7 * voted + treat7 + male + age + complete_highschool + university +
    sum(ifelse(!is.na(subset(valid_voted_past,valid_voted_past$treat7==0|valid_voted_past$treat7==1)$sol
    ),
  c("corrupt",
    summary(lm(corrupt ~ treat7 * voted + treat7 + male + age + complete_highschool + university + labor
    summary(lm(corrupt ~ treat7 * voted + treat7 + male + age + complete_highschool + university + labor
    sum(ifelse(!is.na(subset(valid_voted_past,valid_voted_past$treat7==0|valid_voted_past$treat7==1)$cor
    ),
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ treat7 * voted + treat7 + male + age + complete_highschool + un
    summary(lm(demonstrate_willingness ~ treat7 * voted + treat7 + male + age + complete_highschool + un
    sum(ifelse(!is.na(subset(valid_voted_past,valid_voted_past$treat7==0|valid_voted_past$treat7==1)$dem
    ),
  c("vote_null",
    summary(lm(vote_null ~ treat7 * voted + treat7 + male + age + complete_highschool + university + lab
    summary(lm(vote_null ~ treat7 * voted + treat7 + male + age + complete_highschool + university + lab
    sum(ifelse(!is.na(subset(valid_voted_past,valid_voted_past$treat7==0|valid_voted_past$treat7==1)$vot
    ),
  c("vote_not",
    summary(lm(vote_not ~ treat7 * voted + treat7 + male + age + complete_highschool + university + labo
    summary(lm(vote_not ~ treat7 * voted + treat7 + male + age + complete_highschool + university + labo
    sum(ifelse(!is.na(subset(valid_voted_past,valid_voted_past$treat7==0|valid_voted_past$treat7==1)$vot
    ),
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat7 * voted + treat7 + male + age + complete_highschool + university +
    summary(lm(vote_invalid ~ treat7 * voted + treat7 + male + age + complete_highschool + university +
    sum(ifelse(!is.na(subset(valid_voted_past,valid_voted_past$treat7==0|valid_voted_past$treat7==1)$vot
    ),
  c("conf_judge",
    summary(lm(conf_judge ~ treat7 * voted + treat7 + male + age + complete_highschool + university + la
    summary(lm(conf_judge ~ treat7 * voted + treat7 + male + age + complete_highschool + university + la
    sum(ifelse(!is.na(subset(valid_voted_past,valid_voted_past$treat7==0|valid_voted_past$treat7==1)$con
    ),
  c("conf_parties",
    summary(lm(conf_parties ~ treat7 * voted + treat7 + male + age + complete_highschool + university +
    summary(lm(conf_parties ~ treat7 * voted + treat7 + male + age + complete_highschool + university +
    sum(ifelse(!is.na(subset(valid_voted_past,valid_voted_past$treat7==0|valid_voted_past$treat7==1)$con
    ),
  c("conf_parl",
    summary(lm(conf_parl ~ treat7 * voted + treat7 + male + age + complete_highschool + university + lab
    summary(lm(conf_parl ~ treat7 * voted + treat7 + male + age + complete_highschool + university + lab
```

```
    sum(ifelse(!is.na(subset(valid_voted_past,valid_voted_past$treat7==0|valid_voted_past$treat7==1)$co
    ))

colnames(outcomes_interact_voted_past) <- c("Variable","Intercept7","Estimate7","SE7","pvalue7","ValidN

het_interact_voted_past <- outcomes_interact_voted_past[,c(1,3,4:6)]
het_interact_voted_past[,2] <- round(as.numeric(het_interact_voted_past[,2]),3)
het_interact_voted_past[,3] <- round(as.numeric(het_interact_voted_past[,3]),3)
het_interact_voted_past[,4] <- round(as.numeric(het_interact_voted_past[,4]),3)

het_interact_voted_past <- as.data.frame(het_interact_voted_past[c(1:4,7:10),])

het_interact_voted_past[,1] <-  c("Progress on state corruption","State's ability to solve corruption",

colnames(het_interact_voted_past) <- c("Variable","Effect","SE","p Value", "N")

het_interact_voted_past
```

```
##                              Variable Effect    SE p Value   N
## 1        Progress on state corruption  0.125 0.189    0.51 727
## 2 State's ability to solve corruption  -0.22 0.221    0.32 746
## 3            Prevalence of corruption  0.011 0.152   0.941 727
## 4                          Demonstrate -0.051 0.072   0.478 753
## 5                         Invalid vote  0.037  0.07   0.595 712
## 6                  Trust in judiciary   0.15 0.177   0.395 752
## 7                    Trust in parties  0.141 0.177   0.426 751
## 8                   Trust in congress  0.115 0.181   0.526 749
```

```
##combine the output for the different subgroup analyses & interaction term:
ARG_het_voted_past <- as.data.frame(cbind(rep(NA,2*nrow(het_voted_not_past)),rep(NA,2*nrow(het_voted_no

ARG_het_voted_past[1,1] <- het_voted_not_past[1,1]
ARG_het_voted_past[2,1] <- ""
ARG_het_voted_past[3,1] <- het_voted_not_past[2,1]
ARG_het_voted_past[4,1] <- ""
ARG_het_voted_past[5,1] <- het_voted_not_past[3,1]
ARG_het_voted_past[6,1] <- ""
ARG_het_voted_past[7,1] <- het_voted_not_past[4,1]
ARG_het_voted_past[8,1] <- ""
ARG_het_voted_past[9,1] <- het_voted_not_past[5,1]
ARG_het_voted_past[10,1] <- ""
ARG_het_voted_past[11,1] <- het_voted_not_past[6,1]
ARG_het_voted_past[12,1] <- ""
ARG_het_voted_past[13,1] <- het_voted_not_past[7,1]
ARG_het_voted_past[14,1] <- ""
ARG_het_voted_past[15,1] <- het_voted_not_past[8,1]
ARG_het_voted_past[16,1] <- ""
ARG_het_voted_past[17,1] <- "Sample"

het_voted_not_past[,2] <- as.numeric(as.character(het_voted_not_past[,2]))
het_voted_not_past[,3] <- as.numeric(as.character(het_voted_not_past[,3]))
het_voted_not_past[,4] <- as.numeric(as.character(het_voted_not_past[,4]))

ARG_het_voted_past[17,2] <- "Previous Non Voters"
```

```
ARG_het_voted_past[1,2] <- ifelse(het_voted_not_past[1,4]<0.1,paste0(het_voted_not_past[1,2],"*"),het_v
ARG_het_voted_past[1,2] <- ifelse(het_voted_not_past[1,4]<0.05,paste0(het_voted_not_past[1,2],"**"),ARG
ARG_het_voted_past[1,2] <- ifelse(het_voted_not_past[1,4]<0.01,paste0(het_voted_not_past[1,2],"***"),AR

ARG_het_voted_past[3,2] <- ifelse(het_voted_not_past[2,4]<0.1,paste0(het_voted_not_past[2,2],"*"),het_v
ARG_het_voted_past[3,2] <- ifelse(het_voted_not_past[2,4]<0.05,paste0(het_voted_not_past[2,2],"**"),ARG
ARG_het_voted_past[3,2] <- ifelse(het_voted_not_past[2,4]<0.01,paste0(het_voted_not_past[2,2],"***"),AR

ARG_het_voted_past[5,2] <- ifelse(het_voted_not_past[3,4]<0.1,paste0(het_voted_not_past[3,2],"*"),het_v
ARG_het_voted_past[5,2] <- ifelse(het_voted_not_past[3,4]<0.05,paste0(het_voted_not_past[3,2],"**"),ARG
ARG_het_voted_past[5,2] <- ifelse(het_voted_not_past[3,4]<0.01,paste0(het_voted_not_past[3,2],"***"),AR

ARG_het_voted_past[7,2] <- ifelse(het_voted_not_past[4,4]<0.1,paste0(het_voted_not_past[4,2],"*"),het_v
ARG_het_voted_past[7,2] <- ifelse(het_voted_not_past[4,4]<0.05,paste0(het_voted_not_past[4,2],"**"),ARG
ARG_het_voted_past[7,2] <- ifelse(het_voted_not_past[4,4]<0.01,paste0(het_voted_not_past[4,2],"***"),AR

ARG_het_voted_past[9,2] <- ifelse(het_voted_not_past[5,4]<0.1,paste0(het_voted_not_past[5,2],"*"),het_v
ARG_het_voted_past[9,2] <- ifelse(het_voted_not_past[5,4]<0.05,paste0(het_voted_not_past[5,2],"**"),ARG
ARG_het_voted_past[9,2] <- ifelse(het_voted_not_past[5,4]<0.01,paste0(het_voted_not_past[5,2],"***"),AR

ARG_het_voted_past[11,2] <- ifelse(het_voted_not_past[6,4]<0.1,paste0(het_voted_not_past[6,2],"*"),het_
ARG_het_voted_past[11,2] <- ifelse(het_voted_not_past[6,4]<0.05,paste0(het_voted_not_past[6,2],"**"),AR
ARG_het_voted_past[11,2] <- ifelse(het_voted_not_past[6,4]<0.01,paste0(het_voted_not_past[6,2],"***"),A

ARG_het_voted_past[13,2] <- ifelse(het_voted_not_past[7,4]<0.1,paste0(het_voted_not_past[7,2],"*"),het_
ARG_het_voted_past[13,2] <- ifelse(het_voted_not_past[7,4]<0.05,paste0(het_voted_not_past[7,2],"**"),AR
ARG_het_voted_past[13,2] <- ifelse(het_voted_not_past[7,4]<0.01,paste0(het_voted_not_past[7,2],"***"),A

ARG_het_voted_past[15,2] <- ifelse(het_voted_not_past[8,4]<0.1,paste0(het_voted_not_past[8,2],"*"),het_
ARG_het_voted_past[15,2] <- ifelse(het_voted_not_past[8,4]<0.05,paste0(het_voted_not_past[8,2],"**"),AR
ARG_het_voted_past[15,2] <- ifelse(het_voted_not_past[8,4]<0.01,paste0(het_voted_not_past[8,2],"***"),A

ARG_het_voted_past[2,2] <- paste0("(",het_voted_not_past[1,3],")")
ARG_het_voted_past[4,2] <- paste0("(",het_voted_not_past[2,3],")")
ARG_het_voted_past[6,2] <- paste0("(",het_voted_not_past[3,3],")")
ARG_het_voted_past[8,2] <- paste0("(",het_voted_not_past[4,3],")")
ARG_het_voted_past[10,2] <- paste0("(",het_voted_not_past[5,3],")")
ARG_het_voted_past[12,2] <- paste0("(",het_voted_not_past[6,3],")")
ARG_het_voted_past[14,2] <- paste0("(",het_voted_not_past[7,3],")")
ARG_het_voted_past[16,2] <- paste0("(",het_voted_not_past[8,3],")")

het_voted_past[,2] <- as.numeric(as.character(het_voted_past[,2]))
het_voted_past[,3] <- as.numeric(as.character(het_voted_past[,3]))
het_voted_past[,4] <- as.numeric(as.character(het_voted_past[,4]))

ARG_het_voted_past[17,3] <- "Previous Voters"
ARG_het_voted_past[1,3] <- ifelse(het_voted_past[1,4]<0.1,paste0(het_voted_past[1,2],"*"),het_voted_pas
ARG_het_voted_past[1,3] <- ifelse(het_voted_past[1,4]<0.05,paste0(het_voted_past[1,2],"**"),ARG_het_vot
ARG_het_voted_past[1,3] <- ifelse(het_voted_past[1,4]<0.01,paste0(het_voted_past[1,2],"***"),ARG_het_vo

ARG_het_voted_past[3,3] <- ifelse(het_voted_past[2,4]<0.1,paste0(het_voted_past[2,2],"*"),het_voted_pas
ARG_het_voted_past[3,3] <- ifelse(het_voted_past[2,4]<0.05,paste0(het_voted_past[2,2],"**"),ARG_het_vot
ARG_het_voted_past[3,3] <- ifelse(het_voted_past[2,4]<0.01,paste0(het_voted_past[2,2],"***"),ARG_het_vo
```

```
ARG_het_voted_past[5,3] <- ifelse(het_voted_past[3,4]<0.1,paste0(het_voted_past[3,2],"*"),het_voted_pas
ARG_het_voted_past[5,3] <- ifelse(het_voted_past[3,4]<0.05,paste0(het_voted_past[3,2],"**"),ARG_het_vot
ARG_het_voted_past[5,3] <- ifelse(het_voted_past[3,4]<0.01,paste0(het_voted_past[3,2],"***"),ARG_het_vo

ARG_het_voted_past[7,3] <- ifelse(het_voted_past[4,4]<0.1,paste0(het_voted_past[4,2],"*"),het_voted_pas
ARG_het_voted_past[7,3] <- ifelse(het_voted_past[4,4]<0.05,paste0(het_voted_past[4,2],"**"),ARG_het_vot
ARG_het_voted_past[7,3] <- ifelse(het_voted_past[4,4]<0.01,paste0(het_voted_past[4,2],"***"),ARG_het_vo

ARG_het_voted_past[9,3] <- ifelse(het_voted_past[5,4]<0.1,paste0(het_voted_past[5,2],"*"),het_voted_pas
ARG_het_voted_past[9,3] <- ifelse(het_voted_past[5,4]<0.05,paste0(het_voted_past[5,2],"**"),ARG_het_vot
ARG_het_voted_past[9,3] <- ifelse(het_voted_past[5,4]<0.01,paste0(het_voted_past[5,2],"***"),ARG_het_vo

ARG_het_voted_past[11,3] <- ifelse(het_voted_past[6,4]<0.1,paste0(het_voted_past[6,2],"*"),het_voted_pa
ARG_het_voted_past[11,3] <- ifelse(het_voted_past[6,4]<0.05,paste0(het_voted_past[6,2],"**"),ARG_het_vo
ARG_het_voted_past[11,3] <- ifelse(het_voted_past[6,4]<0.01,paste0(het_voted_past[6,2],"***"),ARG_het_v

ARG_het_voted_past[13,3] <- ifelse(het_voted_past[7,4]<0.1,paste0(het_voted_past[7,2],"*"),het_voted_pa
ARG_het_voted_past[13,3] <- ifelse(het_voted_past[7,4]<0.05,paste0(het_voted_past[7,2],"**"),ARG_het_vo
ARG_het_voted_past[13,3] <- ifelse(het_voted_past[7,4]<0.01,paste0(het_voted_past[7,2],"***"),ARG_het_v

ARG_het_voted_past[15,3] <- ifelse(het_voted_past[8,4]<0.1,paste0(het_voted_past[8,2],"*"),het_voted_pa
ARG_het_voted_past[15,3] <- ifelse(het_voted_past[8,4]<0.05,paste0(het_voted_past[8,2],"**"),ARG_het_vo
ARG_het_voted_past[15,3] <- ifelse(het_voted_past[8,4]<0.01,paste0(het_voted_past[8,2],"***"),ARG_het_v

ARG_het_voted_past[2,3] <- paste0("(",het_voted_past[1,3],")")
ARG_het_voted_past[4,3] <- paste0("(",het_voted_past[2,3],")")
ARG_het_voted_past[6,3] <- paste0("(",het_voted_past[3,3],")")
ARG_het_voted_past[8,3] <- paste0("(",het_voted_past[4,3],")")
ARG_het_voted_past[10,3] <- paste0("(",het_voted_past[5,3],")")
ARG_het_voted_past[12,3] <- paste0("(",het_voted_past[6,3],")")
ARG_het_voted_past[14,3] <- paste0("(",het_voted_past[7,3],")")
ARG_het_voted_past[16,3] <- paste0("(",het_voted_past[8,3],")")

het_interact_voted_past[,2] <- as.numeric(as.character(het_interact_voted_past[,2]))
het_interact_voted_past[,3] <- as.numeric(as.character(het_interact_voted_past[,3]))
het_interact_voted_past[,4] <- as.numeric(as.character(het_interact_voted_past[,4]))

ARG_het_voted_past[17,4] <- "Interaction Term"
ARG_het_voted_past[1,4] <- ifelse(het_interact_voted_past[1,4]<0.1,paste0(het_interact_voted_past[1,2],
ARG_het_voted_past[1,4] <- ifelse(het_interact_voted_past[1,4]<0.05,paste0(het_interact_voted_past[1,2]
ARG_het_voted_past[1,4] <- ifelse(het_interact_voted_past[1,4]<0.01,paste0(het_interact_voted_past[1,2]

ARG_het_voted_past[3,4] <- ifelse(het_interact_voted_past[2,4]<0.1,paste0(het_interact_voted_past[2,2],
ARG_het_voted_past[3,4] <- ifelse(het_interact_voted_past[2,4]<0.05,paste0(het_interact_voted_past[2,2]
ARG_het_voted_past[3,4] <- ifelse(het_interact_voted_past[2,4]<0.01,paste0(het_interact_voted_past[2,2]

ARG_het_voted_past[5,4] <- ifelse(het_interact_voted_past[3,4]<0.1,paste0(het_interact_voted_past[3,2],
ARG_het_voted_past[5,4] <- ifelse(het_interact_voted_past[3,4]<0.05,paste0(het_interact_voted_past[3,2]
ARG_het_voted_past[5,4] <- ifelse(het_interact_voted_past[3,4]<0.01,paste0(het_interact_voted_past[3,2]

ARG_het_voted_past[7,4] <- ifelse(het_interact_voted_past[4,4]<0.1,paste0(het_interact_voted_past[4,2],
ARG_het_voted_past[7,4] <- ifelse(het_interact_voted_past[4,4]<0.05,paste0(het_interact_voted_past[4,2]
ARG_het_voted_past[7,4] <- ifelse(het_interact_voted_past[4,4]<0.01,paste0(het_interact_voted_past[4,2]
```

```
ARG_het_voted_past[9,4] <- ifelse(het_interact_voted_past[5,4]<0.1,paste0(het_interact_voted_past[5,2],
ARG_het_voted_past[9,4] <- ifelse(het_interact_voted_past[5,4]<0.05,paste0(het_interact_voted_past[5,2]
ARG_het_voted_past[9,4] <- ifelse(het_interact_voted_past[5,4]<0.01,paste0(het_interact_voted_past[5,2]

ARG_het_voted_past[11,4] <- ifelse(het_interact_voted_past[6,4]<0.1,paste0(het_interact_voted_past[6,2]
ARG_het_voted_past[11,4] <- ifelse(het_interact_voted_past[6,4]<0.05,paste0(het_interact_voted_past[6,2
ARG_het_voted_past[11,4] <- ifelse(het_interact_voted_past[6,4]<0.01,paste0(het_interact_voted_past[6,2

ARG_het_voted_past[13,4] <- ifelse(het_interact_voted_past[7,4]<0.1,paste0(het_interact_voted_past[7,2]
ARG_het_voted_past[13,4] <- ifelse(het_interact_voted_past[7,4]<0.05,paste0(het_interact_voted_past[7,2
ARG_het_voted_past[13,4] <- ifelse(het_interact_voted_past[7,4]<0.01,paste0(het_interact_voted_past[7,2

ARG_het_voted_past[15,4] <- ifelse(het_interact_voted_past[8,4]<0.1,paste0(het_interact_voted_past[8,2]
ARG_het_voted_past[15,4] <- ifelse(het_interact_voted_past[8,4]<0.05,paste0(het_interact_voted_past[8,2
ARG_het_voted_past[15,4] <- ifelse(het_interact_voted_past[8,4]<0.01,paste0(het_interact_voted_past[8,2

ARG_het_voted_past[2,4] <- paste0("(",het_interact_voted_past[1,3],")")
ARG_het_voted_past[4,4] <- paste0("(",het_interact_voted_past[2,3],")")
ARG_het_voted_past[6,4] <- paste0("(",het_interact_voted_past[3,3],")")
ARG_het_voted_past[8,4] <- paste0("(",het_interact_voted_past[4,3],")")
ARG_het_voted_past[10,4] <- paste0("(",het_interact_voted_past[5,3],")")
ARG_het_voted_past[12,4] <- paste0("(",het_interact_voted_past[6,3],")")
ARG_het_voted_past[14,4] <- paste0("(",het_interact_voted_past[7,3],")")
ARG_het_voted_past[16,4] <- paste0("(",het_interact_voted_past[8,3],")")

ARG_het_voted_past
```

```
##                                    V1                  V2              V3
## 1         Progress on state corruption              -0.328           -0.2*
## 2                                                  (0.216)         (0.103)
## 3  State's ability to solve corruption               -0.22          -0.167
## 4                                                  (0.233)         (0.116)
## 5             Prevalence of corruption               0.241           0.095
## 6                                                  (0.178)          (0.08)
## 7                          Demonstrate              -0.057        -0.089**
## 8                                                   (0.08)         (0.039)
## 9                         Invalid vote               0.021        0.093***
## 10                                                 (0.102)         (0.035)
## 11                  Trust in judiciary               -0.25        -0.243**
## 12                                                 (0.206)         (0.094)
## 13                    Trust in parties              -0.302          -0.2**
## 14                                                 (0.199)         (0.096)
## 15                   Trust in congress              -0.096         -0.188*
## 16                                                 (0.197)         (0.098)
## 17                              Sample Previous Non Voters Previous Voters
##                  V4
## 1             0.125
## 2           (0.189)
## 3             -0.22
## 4           (0.221)
## 5             0.011
## 6           (0.152)
## 7            -0.051
```

```
## 8           (0.072)
## 9             0.037
## 10           (0.07)
## 11             0.15
## 12          (0.177)
## 13            0.141
## 14          (0.177)
## 15            0.115
## 16          (0.181)
## 17 Interaction Term
```

```
#Table A15:
stargazer(as.matrix(ARG_het_voted_past), rownames=F, out="TableA15.tex")
```

```
##
## % Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harva
## % Date and time: Tue, Nov 08, 2022 - 11:06:37
## \begin{table}[!htbp] \centering
##   \caption{}
##   \label{}
## \begin{tabular}{@{\extracolsep{5pt}} cccc}
## \\[-1.8ex]\hline
## \hline \\[-1.8ex]
## V1 & V2 & V3 & V4 \\
## \hline \\[-1.8ex]
## Progress on state corruption & -0.328 & -0.2\textasteriskcentered  & 0.125 \\
##  & (0.216) & (0.103) & (0.189) \\
## State's ability to solve corruption & -0.22 & -0.167 & -0.22 \\
##  & (0.233) & (0.116) & (0.221) \\
## Prevalence of corruption & 0.241 & 0.095 & 0.011 \\
##  & (0.178) & (0.08) & (0.152) \\
## Demonstrate & -0.057 & -0.089\textasteriskcentered \textasteriskcentered  & -0.051 \\
##  & (0.08) & (0.039) & (0.072) \\
## Invalid vote & 0.021 & 0.093\textasteriskcentered \textasteriskcentered \textasteriskcentered  & 0.03
##  & (0.102) & (0.035) & (0.07) \\
## Trust in judiciary & -0.25 & -0.243\textasteriskcentered \textasteriskcentered  & 0.15 \\
##  & (0.206) & (0.094) & (0.177) \\
## Trust in parties & -0.302 & -0.2\textasteriskcentered \textasteriskcentered  & 0.141 \\
##  & (0.199) & (0.096) & (0.177) \\
## Trust in congress & -0.096 & -0.188\textasteriskcentered  & 0.115 \\
##  & (0.197) & (0.098) & (0.181) \\
## Sample & Previous Non Voters & Previous Voters & Interaction Term \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

```
###Sensitivity analysis: Dropping one province at a time

ARG_sensitivity_province <- data.frame(matrix(NA, nrow=(length(unique(ARG$reg))*8), ncol=6))
colnames(ARG_sensitivity_province) <- c("ProvinceDropped","Variable","Effect","SE","pValue","N")

for (i in 1:length(unique(ARG$reg))){
ARG_temp <- subset(ARG, ARG$reg!=unique(ARG$reg)[i])

outcomes_temp <- rbind(
```

```
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat14 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(progcorrupt ~ treat14 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(ARG_temp,ARG_temp$treat14==0|ARG_temp$treat14==1)$progcorrupt),1,0))),
  c("solvecorrupt",
    summary(lm(solvecorrupt ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(solvecorrupt ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(ARG_temp,ARG_temp$treat14==0|ARG_temp$treat14==1)$solvecorrupt),1,0))),
  c("corrupt",
    summary(lm(corrupt ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(corrupt ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG_temp,ARG_temp$treat14==0|ARG_temp$treat14==1)$corrupt),1,0))),
  c("demonstrate_willingness",
    summary(lm(demonstrate_willingness ~ treat14 + male + age + complete_highschool + university + labo
    summary(lm(demonstrate_willingness ~ treat14 + male + age + complete_highschool + university + labo
    sum(ifelse(!is.na(subset(ARG_temp,ARG_temp$treat14==0|ARG_temp$treat14==1)$demonstrate_willingness)
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(vote_invalid ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(ARG_temp,ARG_temp$treat14==0|ARG_temp$treat14==1)$vote_invalid),1,0))),
  c("conf_judge",
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + pover
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(ARG_temp,ARG_temp$treat14==0|ARG_temp$treat14==1)$conf_judge),1,0))),
  c("conf_parties",
    summary(lm(conf_parties ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(conf_parties ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(ARG_temp,ARG_temp$treat14==0|ARG_temp$treat14==1)$conf_parties),1,0))),
  c("conf_parl",
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(ARG_temp,ARG_temp$treat14==0|ARG_temp$treat14==1)$conf_parl),1,0)))
)

table_sens <- outcomes_temp[,c(1,3:6)]
table_sens <- as.matrix(table_sens)

table_sens[,1] <- c("Progress on state corruption","State's ability to solve corruption","Prevalence of

table_sens <- cbind(rep(unique(ARG$reg)[i],8),table_sens)

ARG_sensitivity_province[c((i*8-7):(i*8)),] <- table_sens
}

ARG_sensitivity_province
```

```
##     ProvinceDropped                          Variable              Effect
## 1             32301       Progress on state corruption  -0.175607666859792
## 2             32301 State's ability to solve corruption  -0.414918930296432
## 3             32301           Prevalence of corruption    0.20055243509378
## 4             32301                         Demonstrate -0.0408197627313592
## 5             32301                        Invalid vote  0.0430881079657564
## 6             32301                Trust in judiciary  -0.414314391419234
## 7             32301                  Trust in parties  -0.314788178067049
```

```
## 8            32301                   Trust in congress  -0.113518430911816
## 9            32001        Progress on state corruption  -0.135598780773729
## 10           32001 State's ability to solve corruption  -0.159490745222467
## 11           32001            Prevalence of corruption   0.172114394922211
## 12           32001                         Demonstrate  -0.049385344836224
## 13           32001                        Invalid vote  0.0839993485264236
## 14           32001                 Trust in judiciary  -0.252436206184637
## 15           32001                   Trust in parties  -0.208326193380534
## 16           32001                  Trust in congress  -0.135172014294506
## 17           32302        Progress on state corruption  -0.158721076321444
## 18           32302 State's ability to solve corruption  -0.171650167889948
## 19           32302            Prevalence of corruption   0.143372131335148
## 20           32302                         Demonstrate  -0.092631947248098
## 21           32302                        Invalid vote  0.0463487722067216
## 22           32302                 Trust in judiciary  -0.187238135538629
## 23           32302                   Trust in parties  -0.162002824987505
## 24           32302                  Trust in congress -0.0791784610915477
## 25           32304        Progress on state corruption  -0.165799813808744
## 26           32304 State's ability to solve corruption  -0.248086963434344
## 27           32304            Prevalence of corruption   0.192557880873575
## 28           32304                         Demonstrate -0.0801229739448027
## 29           32304                        Invalid vote  0.0787921624770072
## 30           32304                 Trust in judiciary  -0.216037452290854
## 31           32304                   Trust in parties  -0.174702010517754
## 32           32304                  Trust in congress  -0.124167668752906
## 33           32101        Progress on state corruption  -0.150031689145494
## 34           32101 State's ability to solve corruption  -0.224908251307635
## 35           32101            Prevalence of corruption    0.15226817383504
## 36           32101                         Demonstrate -0.0520128851531085
## 37           32101                        Invalid vote  0.0639981826953877
## 38           32101                 Trust in judiciary  -0.220558716457478
## 39           32101                   Trust in parties  -0.191803509973257
## 40           32101                  Trust in congress  -0.104122024297926
## 41           32211        Progress on state corruption  -0.155040214349816
## 42           32211 State's ability to solve corruption  -0.243054557623936
## 43           32211            Prevalence of corruption   0.163980910000587
## 44           32211                         Demonstrate -0.0676054411946285
## 45           32211                        Invalid vote  0.0625613329211487
## 46           32211                 Trust in judiciary  -0.217232513861212
## 47           32211                   Trust in parties  -0.183585221115901
## 48           32211                  Trust in congress  -0.082726901363092
## 49           32209        Progress on state corruption  -0.151390090743558
## 50           32209 State's ability to solve corruption  -0.228004942324605
## 51           32209            Prevalence of corruption   0.171335874250405
## 52           32209                         Demonstrate  -0.066561846821794
## 53           32209                        Invalid vote  0.0606601602684085
## 54           32209                 Trust in judiciary  -0.234123730255264
## 55           32209                   Trust in parties  -0.195641490557378
## 56           32209                  Trust in congress  -0.105280972080745
## 57           32201        Progress on state corruption  -0.162445841301885
## 58           32201 State's ability to solve corruption  -0.251966980099258
## 59           32201            Prevalence of corruption   0.185014756344201
## 60           32201                         Demonstrate -0.0594480581746434
## 61           32201                        Invalid vote   0.060246623592803
```

```
## 62            32201                  Trust in judiciary  -0.221949207998343
## 63            32201                    Trust in parties  -0.187094989162078
## 64            32201                   Trust in congress  -0.111096470984672
## 65            32306        Progress on state corruption  -0.130026484681236
## 66            32306 State's ability to solve corruption  -0.207623040254907
## 67            32306            Prevalence of corruption   0.184185041047518
## 68            32306                         Demonstrate  -0.063911462429276
## 69            32306                        Invalid vote  0.0462260995992561
## 70            32306                  Trust in judiciary  -0.237016187570169
## 71            32306                    Trust in parties  -0.202150127841184
## 72            32306                   Trust in congress -0.0861636161736145
## 73            32202        Progress on state corruption  -0.156657188241738
## 74            32202 State's ability to solve corruption  -0.231300527721196
## 75            32202            Prevalence of corruption   0.173142132357774
## 76            32202                         Demonstrate -0.0663314001615078
## 77            32202                        Invalid vote  0.0614891265260226
## 78            32202                  Trust in judiciary  -0.235114521176601
## 79            32202                    Trust in parties  -0.196426036390747
## 80            32202                   Trust in congress  -0.106053940433235
## 81            32207        Progress on state corruption  -0.155114218218073
## 82            32207 State's ability to solve corruption  -0.229543904002409
## 83            32207            Prevalence of corruption   0.172849058027169
## 84            32207                         Demonstrate -0.0665726496861347
## 85            32207                        Invalid vote  0.0612799520782602
## 86            32207                  Trust in judiciary  -0.234736469778945
## 87            32207                    Trust in parties  -0.197200855705779
## 88            32207                   Trust in congress  -0.104818914331471
## 89            32303        Progress on state corruption    -0.1548680642334
## 90            32303 State's ability to solve corruption  -0.232459925626065
## 91            32303            Prevalence of corruption   0.172623452414401
## 92            32303                         Demonstrate -0.0662095203527265
## 93            32303                        Invalid vote  0.0614371872677228
## 94            32303                  Trust in judiciary  -0.234957522280807
## 95            32303                    Trust in parties  -0.197573487379743
## 96            32303                   Trust in congress   -0.10555486406433
## 97            32203        Progress on state corruption  -0.158034468124548
## 98            32203 State's ability to solve corruption   -0.24008650472087
## 99            32203            Prevalence of corruption   0.171634764414545
## 100           32203                         Demonstrate -0.0760988684529131
## 101           32203                        Invalid vote   0.060852043255626
## 102           32203                  Trust in judiciary  -0.230419751888851
## 103           32203                    Trust in parties  -0.201424208499113
## 104           32203                   Trust in congress  -0.105452748753458
## 105           32307        Progress on state corruption  -0.154364686999978
## 106           32307 State's ability to solve corruption  -0.231416018983567
## 107           32307            Prevalence of corruption   0.172113900011826
## 108           32307                         Demonstrate -0.0658388499007561
## 109           32307                        Invalid vote  0.0612248913302953
## 110           32307                  Trust in judiciary  -0.234635845058451
## 111           32307                    Trust in parties  -0.196767134185815
## 112           32307                   Trust in congress  -0.104863605590566
##                    SE               pValue    N
## 1    0.105236213543767   0.0956950881759835  637
## 2    0.121602325058269 0.000686674256181603  652
```

```
## 3   0.0830043772924974   0.0159823968870835  633
## 4   0.0415524944952829    0.326296015870731  664
## 5   0.0432652931913614    0.319703346800246  624
## 6   0.0987911148007726 3.13667260107375e-05  662
## 7   0.0998488024654183  0.00169420797774488  667
## 8    0.101707932151216    0.264798278243346  658
## 9   0.0851711431523344     0.11172674414882  919
## 10  0.0944469206740146   0.0916219982763989  951
## 11  0.0667736971652527   0.0101123417155118  912
## 12  0.0314853800621117    0.117104824565772  957
## 13  0.0303189967550711  0.00571655422318839  903
## 14  0.0774233286888734  0.00115350249790763  950
## 15  0.0777393189158067  0.00749798599133592  959
## 16  0.0798823159228572   0.0909609801990154  950
## 17  0.0852959592091634   0.0630981133513208  926
## 18  0.0920968277853454   0.0626662966536768  961
## 19  0.0650131180498525   0.0276900455021857  924
## 20  0.0306057621323897  0.00254133429725858  964
## 21  0.0295435746979689    0.117049676585596  911
## 22  0.0763438239212248    0.014368163704861  960
## 23  0.0761253881185437   0.0335899401508247  968
## 24   0.078699994106233    0.314640369740401  960
## 25  0.0841368099287225   0.0490812151775857  922
## 26  0.0933901905902368  0.00803428550668526  951
## 27  0.0650539773784792  0.00315989137249019  910
## 28   0.030816104460689  0.00947099396442772  956
## 29  0.0292214983746962  0.00714575748885524  903
## 30  0.0757487589618881  0.00444206705379557  951
## 31  0.0762065581104026   0.0221021927073075  959
## 32  0.0782778254874999    0.113029275887831  952
## 33  0.0852750600235384   0.0788477227922493  948
## 34  0.0941712878724999   0.0171233452401485  978
## 35  0.0658514771994439   0.0209859391570822  938
## 36   0.030940074626077   0.0930755172034467  986
## 37  0.0303237375027892   0.0350939569314634  926
## 38  0.0753025824498438  0.00348270825212577  981
## 39  0.0762858152771985   0.0120915134068889  989
## 40  0.0785319709811503    0.185208386424372  980
## 41  0.0818214851551844   0.0584186534263878  975
## 42   0.090941138329552   0.0076517027563802 1007
## 43  0.0633197679003982  0.00975553695087142  967
## 44  0.0302965134143288   0.0258769087206398 1015
## 45  0.0291933176765041   0.0323744185177449  958
## 46  0.0728813852658271  0.00294818494550765 1010
## 47  0.0741231925471766   0.0134258247623175 1018
## 48  0.0766067315832996    0.280458708797382 1009
## 49  0.0814098739083765   0.0632648826522523  946
## 50  0.0874146875058581  0.00924363678128965  976
## 51  0.0622600460462072  0.00604385483556094  935
## 52  0.0297291314486313   0.0253916469333074  983
## 53  0.0280494253684539   0.0308361022834771  928
## 54  0.0719952495932024  0.00118697686641013  979
## 55  0.0729088283962941  0.00741522539742566  986
## 56  0.0751496954975912    0.161558334761026  979
```

```
## 57  0.0818561562740286   0.0474898902087246  970
## 58  0.0897510295892125  0.00509549871459058  998
## 59   0.063435842967417  0.00362462580939959  963
## 60  0.0301254945016895   0.0487395414769932 1008
## 61  0.0290345231059296   0.0382673968979228  946
## 62  0.0738753196324302  0.00272992843893023 1004
## 63  0.0739640449116675   0.0115784721664928 1008
## 64  0.0760281067730542    0.144271606415908 1000
## 65  0.0822041447818571    0.114042466617177  980
## 66  0.0895521670807212    0.020630882309202 1012
## 67  0.0632349551676983  0.00366851673240707  972
## 68  0.0302647389417347   0.0349615537705788 1016
## 69  0.0286370620732697    0.106824670919846  961
## 70  0.0731728301350641  0.00123955786620796 1012
## 71  0.0743839187723129  0.00669028548034566 1020
## 72  0.0762257072276213    0.258596614208333 1012
## 73  0.0800753562372044     0.05071967169007  971
## 74  0.0880350842210756  0.00874162022680311 1002
## 75    0.06174881922945  0.00515358440209594  962
## 76  0.0295840782641992    0.025177944509498 1010
## 77  0.0287521703143608   0.0327321932809242  956
## 78  0.0714112748933632   0.0010293802824042 1005
## 79  0.0726346679202211  0.00696391132386305 1014
## 80  0.0746794210445394    0.155894614816338 1004
## 81   0.080212957845225    0.053440425240124  978
## 82  0.0875064397608139  0.00884852461801191 1008
## 83  0.0616114521311756  0.00512835946719604  976
## 84     0.0297020967849   0.0252276126054294 1016
## 85  0.0286396569477951   0.0326430365031018  956
## 86  0.0715915585945292   0.0010793347363483 1012
## 87  0.0723088747669204  0.00650139091393662 1019
## 88  0.0743506397546927    0.158920753091796 1011
## 89  0.0803280545584121   0.0541626298105322  980
## 90  0.0879730852071081  0.00836458407680246 1010
## 91   0.062265065376366  0.00567535293300973  972
## 92  0.0294674368262701   0.0248701973646699 1019
## 93  0.0287651462188989   0.0329575029612815  958
## 94   0.071862728536178  0.00111495383885185 1014
## 95  0.0726712336178089  0.00666858555848288 1022
## 96  0.0749036025633332     0.15909209863151 1013
## 97  0.0811305370414656   0.0517280272463116  966
## 98  0.0896306782313481   0.0075191200023721  998
## 99  0.0633100089132852   0.0068325926862411  959
## 100 0.0296105740083143   0.0103190863370288 1005
## 101  0.028908599349328   0.0355660126324439  950
## 102 0.0732439762538149  0.00170651283271412 1001
## 103 0.0733483640381445  0.00614186290326492 1008
## 104 0.0760465249520536    0.165858051346765 1001
## 105 0.0805300074112607   0.0555561794287685  986
## 106 0.0885988348331351  0.00914062596911506 1016
## 107 0.0622950939115427  0.00584135312722648  977
## 108 0.0297142337961463   0.0269372288246298 1025
## 109 0.0280760801962821    0.029458032478097  964
## 110  0.071656334105715  0.00109570500921939 1018
```

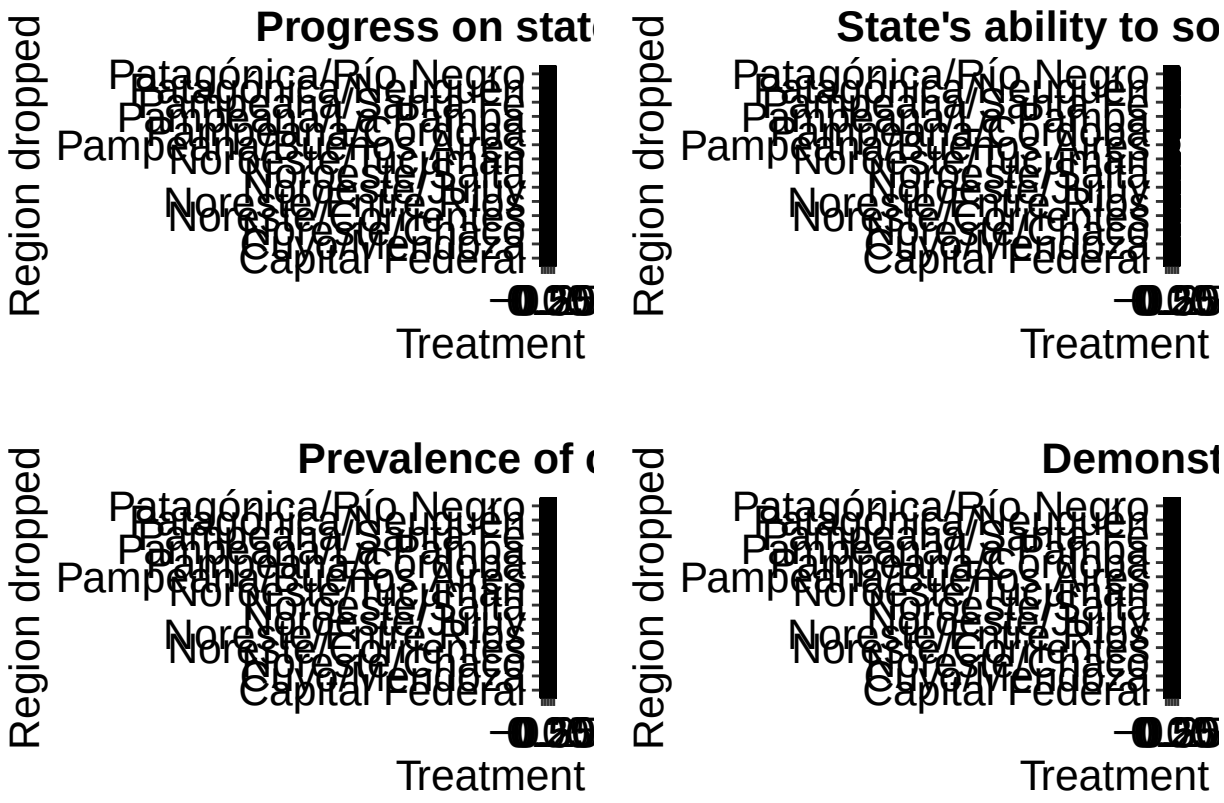
```
## 111 0.0721216385946617  0.00647964566079493 1026
## 112  0.074419229508999     0.15912492618592 1017
```

```
ARG_sensitivity_province$Effect <- as.numeric(ARG_sensitivity_province$Effect)
ARG_sensitivity_province$SE <- as.numeric(ARG_sensitivity_province$SE)
ARG_sensitivity_province$pValue <- as.numeric(ARG_sensitivity_province$pValue)

ARG_sensitivity_province$ProvinceDropped[ARG_sensitivity_province$ProvinceDropped=="32001"] <- "Capital
ARG_sensitivity_province$ProvinceDropped[ARG_sensitivity_province$ProvinceDropped=="32101"] <- "Cuyo/Me
ARG_sensitivity_province$ProvinceDropped[ARG_sensitivity_province$ProvinceDropped=="32201"] <- "Noreste/
ARG_sensitivity_province$ProvinceDropped[ARG_sensitivity_province$ProvinceDropped=="32202"] <- "Noreste/
ARG_sensitivity_province$ProvinceDropped[ARG_sensitivity_province$ProvinceDropped=="32203"] <- "Noreste/
ARG_sensitivity_province$ProvinceDropped[ARG_sensitivity_province$ProvinceDropped=="32207"] <- "Noroest
ARG_sensitivity_province$ProvinceDropped[ARG_sensitivity_province$ProvinceDropped=="32209"] <- "Noroest
ARG_sensitivity_province$ProvinceDropped[ARG_sensitivity_province$ProvinceDropped=="32211"] <- "Noroest
ARG_sensitivity_province$ProvinceDropped[ARG_sensitivity_province$ProvinceDropped=="32301"] <- "Pampeana
ARG_sensitivity_province$ProvinceDropped[ARG_sensitivity_province$ProvinceDropped=="32302"] <- "Pampeana
ARG_sensitivity_province$ProvinceDropped[ARG_sensitivity_province$ProvinceDropped=="32303"] <- "Pampeana
ARG_sensitivity_province$ProvinceDropped[ARG_sensitivity_province$ProvinceDropped=="32304"] <- "Pampeana
ARG_sensitivity_province$ProvinceDropped[ARG_sensitivity_province$ProvinceDropped=="32306"] <- "Patagóni
ARG_sensitivity_province$ProvinceDropped[ARG_sensitivity_province$ProvinceDropped=="32307"] <- "Patagóni

q1 <- ggplot(subset(ARG_sensitivity_province,Variable=="Progress on state corruption"), aes(y=Effect,x=
  ggtitle("Progress on state corruption")+
  theme(plot.title=element_text(size=16, face="bold", hjust=0.5))+
  theme(plot.margin=unit(c(0.5,0.5,0.5,0.5),"cm"))+
  geom_hline(yintercept=0, linetype="dotted",size=0.9)+
  ylab("Treatment effect")+
  xlab("Region dropped")+
  theme(axis.text.x = element_text(angle = 0,vjust=0.5,hjust=0.5))+
  scale_color_manual(values=c("darkblue", "red"))+
  theme(text=element_text(size=16))+
  theme(axis.text.y=element_text(size=16, color="black"))+
  theme(axis.text.x=element_text(size=16, color="black"))+
  theme(legend.position = "none",legend.title = element_blank())+
  scale_y_continuous(breaks=c(-0.5,-0.25,0,0.25,0.5), limits=c(-0.7,0.7))+
  geom_point(size=4,position = position_dodge(.9))+
  geom_errorbar(aes(ymax=Effect + (SE*-qnorm((1-0.90)/2)), ymin=Effect - (SE*-qnorm((1-0.90)/2))), widt
  geom_errorbar(aes(ymax=Effect + (SE*(-qnorm((1-0.95)/2))), ymin=Effect - (SE*(-qnorm((1-0.95)/2)))),
  coord_flip()

q2 <- ggplot(subset(ARG_sensitivity_province,Variable=="State's ability to solve corruption"), aes(y=Ef
  ggtitle("State's ability to solve corruption")+
  theme(plot.title=element_text(size=16, face="bold", hjust=0.5))+
  theme(plot.margin=unit(c(0.5,0.5,0.5,0.5),"cm"))+
  geom_hline(yintercept=0, linetype="dotted",size=0.9)+
  ylab("Treatment effect")+
  xlab("Region dropped")+
  theme(axis.text.x = element_text(angle = 0,vjust=0.5,hjust=0.5))+
  scale_color_manual(values=c("darkblue", "red"))+
  theme(text=element_text(size=16))+
  theme(axis.text.y=element_text(size=16, color="black"))+
  theme(axis.text.x=element_text(size=16, color="black"))+
  theme(legend.position = "none",legend.title = element_blank())+
```

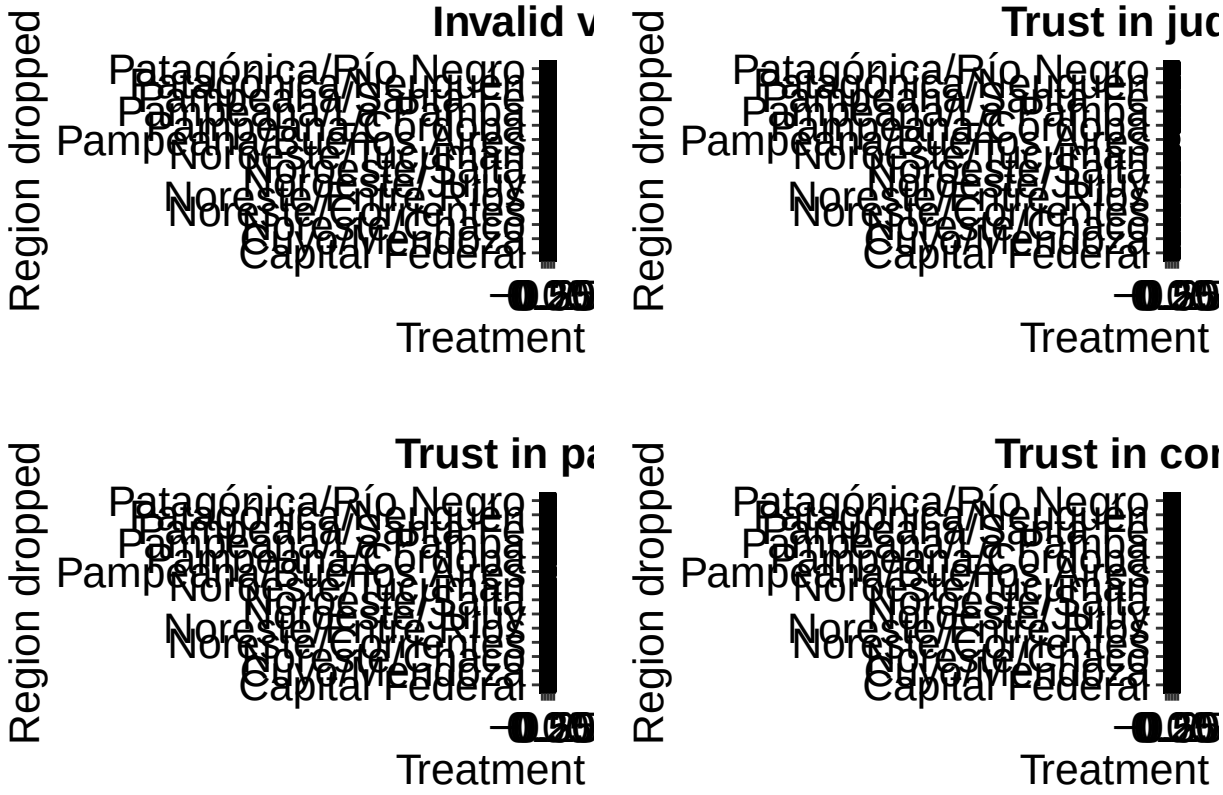
```
  scale_y_continuous(breaks=c(-0.5,-0.25,0,0.25,0.5), limits=c(-0.7,0.7))+
  geom_point(size=4,position = position_dodge(.9))+
  geom_errorbar(aes(ymax=Effect + (SE*-qnorm((1-0.90)/2)), ymin=Effect - (SE*-qnorm((1-0.90)/2))), width
  geom_errorbar(aes(ymax=Effect + (SE*(-qnorm((1-0.95)/2))), ymin=Effect - (SE*(-qnorm((1-0.95)/2)))), w
  coord_flip()

q3 <- ggplot(subset(ARG_sensitivity_province,Variable=="Prevalence of corruption"), aes(y=Effect,x=Provi
  ggtitle("Prevalence of corruption")+
  theme(plot.title=element_text(size=16, face="bold", hjust=0.5))+
  theme(plot.margin=unit(c(0.5,0.5,0.5,0.5),"cm"))+
  geom_hline(yintercept=0, linetype="dotted",size=0.9)+
  ylab("Treatment effect")+
  xlab("Region dropped")+
  theme(axis.text.x = element_text(angle = 0,vjust=0.5,hjust=0.5))+
  scale_color_manual(values=c("darkblue", "red"))+
  theme(text=element_text(size=16))+
  theme(axis.text.y=element_text(size=16, color="black"))+
  theme(axis.text.x=element_text(size=16, color="black"))+
  theme(legend.position = "none",legend.title = element_blank())+
  scale_y_continuous(breaks=c(-0.5,-0.25,0,0.25,0.5), limits=c(-0.7,0.7))+
  geom_point(size=4,position = position_dodge(.9))+
  geom_errorbar(aes(ymax=Effect + (SE*-qnorm((1-0.90)/2)), ymin=Effect - (SE*-qnorm((1-0.90)/2))), width
  geom_errorbar(aes(ymax=Effect + (SE*(-qnorm((1-0.95)/2))), ymin=Effect - (SE*(-qnorm((1-0.95)/2)))), w
  coord_flip()

q4 <- ggplot(subset(ARG_sensitivity_province,Variable=="Demonstrate"), aes(y=Effect,x=ProvinceDropped))
  ggtitle("Demonstrate")+
  theme(plot.title=element_text(size=16, face="bold", hjust=0.5))+
  theme(plot.margin=unit(c(0.5,0.5,0.5,0.5),"cm"))+
  geom_hline(yintercept=0, linetype="dotted",size=0.9)+
  ylab("Treatment effect")+
  xlab("Region dropped")+
  theme(axis.text.x = element_text(angle = 0,vjust=0.5,hjust=0.5))+
  scale_color_manual(values=c("darkblue", "red"))+
  theme(text=element_text(size=16))+
  theme(axis.text.y=element_text(size=16, color="black"))+
  theme(axis.text.x=element_text(size=16, color="black"))+
  theme(legend.position = "none",legend.title = element_blank())+
  scale_y_continuous(breaks=c(-0.5,-0.25,0,0.25,0.5), limits=c(-0.7,0.7))+
  geom_point(size=4,position = position_dodge(.9))+
  geom_errorbar(aes(ymax=Effect + (SE*-qnorm((1-0.90)/2)), ymin=Effect - (SE*-qnorm((1-0.90)/2))), width
  geom_errorbar(aes(ymax=Effect + (SE*(-qnorm((1-0.95)/2))), ymin=Effect - (SE*(-qnorm((1-0.95)/2)))), w
  coord_flip()

q5 <- ggplot(subset(ARG_sensitivity_province,Variable=="Invalid vote"), aes(y=Effect,x=ProvinceDropped)
  ggtitle("Invalid vote")+
  theme(plot.title=element_text(size=16, face="bold", hjust=0.5))+
  theme(plot.margin=unit(c(0.5,0.5,0.5,0.5),"cm"))+
  geom_hline(yintercept=0, linetype="dotted",size=0.9)+
  ylab("Treatment effect")+
  xlab("Region dropped")+
  theme(axis.text.x = element_text(angle = 0,vjust=0.5,hjust=0.5))+
  scale_color_manual(values=c("darkblue", "red"))+
```

```
  theme(text=element_text(size=16))+
  theme(axis.text.y=element_text(size=16, color="black"))+
  theme(axis.text.x=element_text(size=16, color="black"))+
  theme(legend.position = "none",legend.title = element_blank())+
  scale_y_continuous(breaks=c(-0.5,-0.25,0,0.25,0.5), limits=c(-0.7,0.7))+
  geom_point(size=4,position = position_dodge(.9))+
  geom_errorbar(aes(ymax=Effect + (SE*-qnorm((1-0.90)/2)), ymin=Effect - (SE*-qnorm((1-0.90)/2))), width
  geom_errorbar(aes(ymax=Effect + (SE*(-qnorm((1-0.95)/2))), ymin=Effect - (SE*(-qnorm((1-0.95)/2)))), w
  coord_flip()

q6 <- ggplot(subset(ARG_sensitivity_province,Variable=="Trust in judiciary"), aes(y=Effect,x=ProvinceDr
  ggtitle("Trust in judiciary")+
  theme(plot.title=element_text(size=16, face="bold", hjust=0.5))+
  theme(plot.margin=unit(c(0.5,0.5,0.5,0.5),"cm"))+
  geom_hline(yintercept=0, linetype="dotted",size=0.9)+
  ylab("Treatment effect")+
  xlab("Region dropped")+
  theme(axis.text.x = element_text(angle = 0,vjust=0.5,hjust=0.5))+
  scale_color_manual(values=c("darkblue", "red"))+
  theme(text=element_text(size=16))+
  theme(axis.text.y=element_text(size=16, color="black"))+
  theme(axis.text.x=element_text(size=16, color="black"))+
  theme(legend.position = "none",legend.title = element_blank())+
  scale_y_continuous(breaks=c(-0.5,-0.25,0,0.25,0.5), limits=c(-0.7,0.7))+
  geom_point(size=4,position = position_dodge(.9))+
  geom_errorbar(aes(ymax=Effect + (SE*-qnorm((1-0.90)/2)), ymin=Effect - (SE*-qnorm((1-0.90)/2))), width
  geom_errorbar(aes(ymax=Effect + (SE*(-qnorm((1-0.95)/2))), ymin=Effect - (SE*(-qnorm((1-0.95)/2)))), w
  coord_flip()

q7 <- ggplot(subset(ARG_sensitivity_province,Variable=="Trust in parties"), aes(y=Effect,x=ProvinceDropp
  ggtitle("Trust in parties")+
  theme(plot.title=element_text(size=16, face="bold", hjust=0.5))+
  theme(plot.margin=unit(c(0.5,0.5,0.5,0.5),"cm"))+
  geom_hline(yintercept=0, linetype="dotted",size=0.9)+
  ylab("Treatment effect")+
  xlab("Region dropped")+
  theme(axis.text.x = element_text(angle = 0,vjust=0.5,hjust=0.5))+
  scale_color_manual(values=c("darkblue", "red"))+
  theme(text=element_text(size=16))+
  theme(axis.text.y=element_text(size=16, color="black"))+
  theme(axis.text.x=element_text(size=16, color="black"))+
  theme(legend.position = "none",legend.title = element_blank())+
  scale_y_continuous(breaks=c(-0.5,-0.25,0,0.25,0.5), limits=c(-0.7,0.7))+
  geom_point(size=4,position = position_dodge(.9))+
  geom_errorbar(aes(ymax=Effect + (SE*-qnorm((1-0.90)/2)), ymin=Effect - (SE*-qnorm((1-0.90)/2))), width
  geom_errorbar(aes(ymax=Effect + (SE*(-qnorm((1-0.95)/2))), ymin=Effect - (SE*(-qnorm((1-0.95)/2)))), w
  coord_flip()

q8 <- ggplot(subset(ARG_sensitivity_province,Variable=="Trust in congress"), aes(y=Effect,x=ProvinceDrop
  ggtitle("Trust in congress")+
  theme(plot.title=element_text(size=16, face="bold", hjust=0.5))+
  theme(plot.margin=unit(c(0.5,0.5,0.5,0.5),"cm"))+
  geom_hline(yintercept=0, linetype="dotted",size=0.9)+
```

```
  ylab("Treatment effect")+
  xlab("Region dropped")+
  theme(axis.text.x = element_text(angle = 0,vjust=0.5,hjust=0.5))+
  scale_color_manual(values=c("darkblue", "red"))+
  theme(text=element_text(size=16))+
  theme(axis.text.y=element_text(size=16, color="black"))+
  theme(axis.text.x=element_text(size=16, color="black"))+
  theme(legend.position = "none",legend.title = element_blank())+
  scale_y_continuous(breaks=c(-0.5,-0.25,0,0.25,0.5), limits=c(-0.7,0.7))+
  geom_point(size=4,position = position_dodge(.9))+
  geom_errorbar(aes(ymax=Effect + (SE*-qnorm((1-0.90)/2)), ymin=Effect - (SE*-qnorm((1-0.90)/2))), width
  geom_errorbar(aes(ymax=Effect + (SE*(-qnorm((1-0.95)/2)))), ymin=Effect - (SE*(-qnorm((1-0.95)/2)))), w
  coord_flip()


#Figure A4:
ARG_sensitivity_graph1 <- grid.arrange(q1, q2, q3, q4, ncol = 2)
```




```
ggsave("FigureA4.pdf", plot = ARG_sensitivity_graph1, width = 15, height = 15)


#Figure A5:
ARG_sensitivity_graph2 <- grid.arrange(q5, q6, q7, q8, ncol = 2)
```




```
ggsave("FigureA5.pdf", plot = ARG_sensitivity_graph2, width = 15, height = 15)
```