CostaRica.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("Latinobarometro2009Eng.dta")

COR <- subset(full,idenpa=="Costa Rica")

COR$date <- as.numeric(gsub("[-]", "" , COR$date, perl=TRUE))

##treatment (before vs. after Oct. 5, 2009)
COR$treat14 <- ifelse(COR$date < 20091005,0,NA)
COR$treat14 <- ifelse(COR$date > 20091005 & COR$date<20091020,1,COR$treat14)

##recode variables for analysis:
#gender:
COR$male <- ifelse(COR$s5=="Male",1,0)

#age:
COR$age <- COR$s6

#level of education:
COR$incomplete_highschool <- ifelse(COR$reeduc1=="Illiterate"|COR$reeduc1=="Incomplete primary"|COR$reed
COR$complete_highschool <- ifelse(COR$reeduc1=="Complete Secondary, technical",1,0)
COR$university <- ifelse(COR$reeduc1=="Incomplete high"|COR$reeduc1=="Complete high",1,0)

#part of the labor force:
COR$laborforce <- ifelse(COR$s14a=="Self employed"|COR$s14a=="Salaried employee in a public company"|COR
```

```r
#poverty:
COR$poverty <- ifelse(COR$s4b=="No",0,1)
COR$poverty <- ifelse(COR$s4b=="Don't know",NA,COR$poverty)
COR$poverty <- ifelse(COR$s4b=="No answer/Refused",NA,COR$poverty)

#voted in last election:
COR$voted <- ifelse(COR$p37stm=="I voted in last election",1,0)
COR$voted <- ifelse(COR$p37stm=="Don't remember what I did/don't know"|COR$p37stm=="No answer",NA,COR$v

#progress on corruption made:
COR$progcorrupt <- ifelse(COR$p74st=="No progress at all",0,NA)
COR$progcorrupt <- ifelse(COR$p74st=="Little",1,COR$progcorrupt)
COR$progcorrupt <- ifelse(COR$p74st=="Some",2,COR$progcorrupt)
COR$progcorrupt <- ifelse(COR$p74st=="Much",3,COR$progcorrupt)

#can state solve corruption
#solvecorrupt
#question not asked in COR

#extent of local corruption
#localcorrupt
#question not asked in COR

#extent of national corruption
#nationalcorrupt
#question not asked in COR

#inclination to vote or protest:
COR$participation_willingness <- ifelse(COR$p28st=="It is not possible to contribute to change things",
COR$participation_willingness <- ifelse(COR$p28st=="No answer/Refused" | COR$p28st=="None of the above"

#null vote (voto nulo:)
COR$vote_null <- ifelse(COR$p35st=="Null vote/Blank vote",1,0)
COR$vote_null <- ifelse(COR$p35st=="No answer"|COR$p35st=="Not registered/No legal age",NA,COR$vote_nul

#not voting (staying at home):
COR$vote_not <- ifelse(COR$p35st=="Do not vote/None",1,0)
COR$vote_not <- ifelse(COR$p35st=="No answer"|COR$p35st=="Not registered/No legal age",NA,COR$vote_not)

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

#trust in the judiciary:
COR$conf_judge <- ifelse(COR$p26st_b=="A lot of confidence",3,NA)
COR$conf_judge <- ifelse(COR$p26st_b=="Some confidence",2,COR$conf_judge)
COR$conf_judge <- ifelse(COR$p26st_b=="Little confidence",1,COR$conf_judge)
COR$conf_judge <- ifelse(COR$p26st_b=="No confidence at all",0,COR$conf_judge)

#trust in the political parties:
COR$conf_parties <- ifelse(COR$p26st_c=="A lot of confidence",3,NA)
COR$conf_parties <- ifelse(COR$p26st_c=="Some confidence",2,COR$conf_parties)
COR$conf_parties <- ifelse(COR$p26st_c=="Little confidence",1,COR$conf_parties)
COR$conf_parties <- ifelse(COR$p26st_c=="No confidence at all",0,COR$conf_parties)
```

```r
#trust in the legislature:
COR$conf_parl <- ifelse(COR$p26st_a=="A lot of confidence",3,NA)
COR$conf_parl <- ifelse(COR$p26st_a=="Some confidence",2,COR$conf_parl)
COR$conf_parl <- ifelse(COR$p26st_a=="Little confidence",1,COR$conf_parl)
COR$conf_parl <- ifelse(COR$p26st_a=="No confidence at all",0,COR$conf_parl)

#trust in the church:
COR$conf_church <- ifelse(COR$p26st_g=="A lot of confidence",3,NA)
COR$conf_church <- ifelse(COR$p26st_g=="Some confidence",2,COR$conf_church)
COR$conf_church <- ifelse(COR$p26st_g=="Little confidence",1,COR$conf_church)
COR$conf_church <- ifelse(COR$p26st_g=="No confidence at all",0,COR$conf_church)

#trust in the local government:
COR$conf_local_gov <- ifelse(COR$p26st_f=="A lot",3,NA)
COR$conf_local_gov <- ifelse(COR$p26st_f=="Some",2,COR$conf_local_gov)
COR$conf_local_gov <- ifelse(COR$p26st_f=="Little",1,COR$conf_local_gov)
COR$conf_local_gov <- ifelse(COR$p26st_f=="None",0,COR$conf_local_gov)


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

band14 <- subset(COR,!is.na(COR$treat14))
cities14T <- unique(subset(band14, band14$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] 163
```

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

```
## [1] 76
```

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

```
## [1] 87
```

```r
#observations with all covariates:

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] 151
```

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

```
## [1] 74
```

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

```
## [1] 77
```

```
#valid observations for each covariate:

#age:
band14_controls_age <- subset(band14,!is.na(band14$age))
cities14_controls_T_age <- unique(subset(band14_controls_age, band14_controls_age$treat14==1)$ciudad) #
cities14_controls_C_age <- unique(subset(band14_controls_age, band14_controls_age$treat14==0)$ciudad) #
cities14_controls_age <- intersect(cities14_controls_T_age,cities14_controls_C_age) #cities with observ
band14_controls_age <- subset(band14_controls_age, band14_controls_age$ciudad %in% cities14_controls_ag
nrow(band14_controls_age)
```

```
## [1] 163
```

```
#male:
band14_controls_male <- subset(band14,!is.na(band14$male))
cities14_controls_T_male <- unique(subset(band14_controls_male, band14_controls_male$treat14==1)$ciudad
cities14_controls_C_male <- unique(subset(band14_controls_male, band14_controls_male$treat14==0)$ciudad
cities14_controls_male <- intersect(cities14_controls_T_male,cities14_controls_C_male) #cities with obs
band14_controls_male <- subset(band14_controls_male, band14_controls_male$ciudad %in% cities14_controls
nrow(band14_controls_male)
```

```
## [1] 163
```

```
#incomplete_highschool:
band14_controls_incomplete_highschool <- subset(band14,!is.na(band14$incomplete_highschool))
cities14_controls_T_incomplete_highschool <- unique(subset(band14_controls_incomplete_highschool, band1
cities14_controls_C_incomplete_highschool <- unique(subset(band14_controls_incomplete_highschool, band1
cities14_controls_incomplete_highschool <- intersect(cities14_controls_T_incomplete_highschool,cities14
band14_controls_incomplete_highschool <- subset(band14_controls_incomplete_highschool, band14_controls_
nrow(band14_controls_incomplete_highschool)
```

```
## [1] 163
```

```
#complete_highschool:
band14_controls_complete_highschool <- subset(band14,!is.na(band14$complete_highschool))
cities14_controls_T_complete_highschool <- unique(subset(band14_controls_complete_highschool, band14_co
cities14_controls_C_complete_highschool <- unique(subset(band14_controls_complete_highschool, band14_co
cities14_controls_complete_highschool <- intersect(cities14_controls_T_complete_highschool,cities14_con
band14_controls_complete_highschool <- subset(band14_controls_complete_highschool, band14_controls_compl
nrow(band14_controls_complete_highschool)
```

```
## [1] 163
```

```
#university:
band14_controls_university <- subset(band14,!is.na(band14$university))
cities14_controls_T_university <- unique(subset(band14_controls_university, band14_controls_university$
cities14_controls_C_university <- unique(subset(band14_controls_university, band14_controls_university$
cities14_controls_university <- intersect(cities14_controls_T_university,cities14_controls_C_university
band14_controls_university <- subset(band14_controls_university, band14_controls_university$ciudad %in%
nrow(band14_controls_university)
```

```
## [1] 163
```

```
#laborforce:
band14_controls_laborforce <- subset(band14,!is.na(band14$laborforce))
cities14_controls_T_laborforce <- unique(subset(band14_controls_laborforce, band14_controls_laborforce$
cities14_controls_C_laborforce <- unique(subset(band14_controls_laborforce, band14_controls_laborforce$
cities14_controls_laborforce <- intersect(cities14_controls_T_laborforce,cities14_controls_C_laborforce
```

```
band14_controls_laborforce <- subset(band14_controls_laborforce, band14_controls_laborforce$ciudad %in%
nrow(band14_controls_laborforce)
```

```
## [1] 163
```

```
#poverty:
band14_controls_poverty <- subset(band14,!is.na(band14$poverty))
cities14_controls_T_poverty <- unique(subset(band14_controls_poverty, band14_controls_poverty$treat14==
cities14_controls_C_poverty <- unique(subset(band14_controls_poverty, band14_controls_poverty$treat14==
cities14_controls_poverty <- intersect(cities14_controls_T_poverty,cities14_controls_C_poverty) #cities
band14_controls_poverty <- subset(band14_controls_poverty, band14_controls_poverty$ciudad %in% cities14_
nrow(band14_controls_poverty)
```

```
## [1] 156
```

```
#voted:
band14_controls_voted <- subset(band14,!is.na(band14$voted))
cities14_controls_T_voted <- unique(subset(band14_controls_voted, band14_controls_voted$treat14==1)$ciu
cities14_controls_C_voted <- unique(subset(band14_controls_voted, band14_controls_voted$treat14==0)$ciu
cities14_controls_voted <- intersect(cities14_controls_T_voted,cities14_controls_C_voted) #cities with
band14_controls_voted <- subset(band14_controls_voted, band14_controls_voted$ciudad %in% cities14_contr
nrow(band14_controls_voted)
```

```
## [1] 158
```

```
##valid observations for each outcome:

#progcorrupt:
band14_controls_progcorrupt <- subset(band14,!is.na(band14$progcorrupt))
cities14_controls_T_progcorrupt <- unique(subset(band14_controls_progcorrupt, band14_controls_progcorru
cities14_controls_C_progcorrupt <- unique(subset(band14_controls_progcorrupt, band14_controls_progcorru
cities14_controls_progcorrupt <- intersect(cities14_controls_T_progcorrupt,cities14_controls_C_progcorr
band14_controls_progcorrupt <- subset(band14_controls_progcorrupt, band14_controls_progcorrupt$ciudad %
nrow(band14_controls_progcorrupt)
```

```
## [1] 158
```

```
#participation_willingness:
band14_controls_participation_willingness <- subset(band14,!is.na(band14$participation_willingness))
cities14_controls_T_participation_willingness <- unique(subset(band14_controls_participation_willingnes
cities14_controls_C_participation_willingness <- unique(subset(band14_controls_participation_willingnes
cities14_controls_participation_willingness <- intersect(cities14_controls_T_participation_willingness,
band14_controls_participation_willingness <- subset(band14_controls_participation_willingness, band14_c
nrow(band14_controls_participation_willingness)
```

```
## [1] 150
```

```
#vote_invalid:
band14_controls_vote_invalid <- subset(band14,!is.na(band14$vote_invalid))
cities14_controls_T_vote_invalid <- unique(subset(band14_controls_vote_invalid, band14_controls_vote_in
cities14_controls_C_vote_invalid <- unique(subset(band14_controls_vote_invalid, band14_controls_vote_in
cities14_controls_vote_invalid <- intersect(cities14_controls_T_vote_invalid,cities14_controls_C_vote_i
band14_controls_vote_invalid <- subset(band14_controls_vote_invalid, band14_controls_vote_invalid$ciuda
nrow(band14_controls_vote_invalid)
```

```
## [1] 155
```

```
#conf_judge:
band14_controls_conf_judge <- subset(band14,!is.na(band14$conf_judge))
cities14_controls_T_conf_judge <- unique(subset(band14_controls_conf_judge, band14_controls_conf_judge$
cities14_controls_C_conf_judge <- unique(subset(band14_controls_conf_judge, band14_controls_conf_judge$
cities14_controls_conf_judge <- intersect(cities14_controls_T_conf_judge,cities14_controls_C_conf_judge
band14_controls_conf_judge <- subset(band14_controls_conf_judge, band14_controls_conf_judge$ciudad %in%
nrow(band14_controls_conf_judge)
```

```
## [1] 151
```

```
#conf_parties:
band14_controls_conf_parties <- subset(band14,!is.na(band14$conf_parties))
cities14_controls_T_conf_parties <- unique(subset(band14_controls_conf_parties, band14_controls_conf_par
cities14_controls_C_conf_parties <- unique(subset(band14_controls_conf_parties, band14_controls_conf_par
cities14_controls_conf_parties <- intersect(cities14_controls_T_conf_parties,cities14_controls_C_conf_pa
band14_controls_conf_parties <- subset(band14_controls_conf_parties, band14_controls_conf_parties$ciudad
nrow(band14_controls_conf_parties)
```

```
## [1] 154
```

```
#conf_parl:
band14_controls_conf_parl <- subset(band14,!is.na(band14$conf_parl))
cities14_controls_T_conf_parl <- unique(subset(band14_controls_conf_parl, band14_controls_conf_parl$trea
cities14_controls_C_conf_parl <- unique(subset(band14_controls_conf_parl, band14_controls_conf_parl$trea
cities14_controls_conf_parl <- intersect(cities14_controls_T_conf_parl,cities14_controls_C_conf_parl) #
band14_controls_conf_parl <- subset(band14_controls_conf_parl, band14_controls_conf_parl$ciudad %in% ci
nrow(band14_controls_conf_parl)
```

```
## [1] 154
```

```
##valid observations with data for all covariates and outcomes:
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_conf_parl <- intersect(cities14_controls_T_full,cities14_controls_C_full) #cities wit
band14_controls_full <- subset(band14_controls_full, band14_controls_full$ciudad %in% cities14_controls_
nrow(band14_controls_full)
```

```
## [1] 125
```

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

```
## [1] 57
```

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

```
## [1] 68
```

```
##valid observations with data for all outcomes (but not covariates):
band14_controls_full <- subset(band14, !is.na(progcorrupt) & !is.na(participation_willingness) & !is.na
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_conf_parl <- intersect(cities14_controls_T_full,cities14_controls_C_full) #cities wit
band14_controls_full <- subset(band14_controls_full, band14_controls_full$ciudad %in% cities14_controls_
nrow(band14_controls_full)
```

```
## [1] 130
```

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

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

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

```
## [1] 71
```

```
##balance tests:
##Table A6:

balance <-
  rbind(
    c("age",
      summary(lm(age ~ treat14 + factor(ciudad),data=COR))$coefficients[1,1],
      summary(lm(age ~ treat14 + factor(ciudad),data=COR))$coefficients[2,][c(1,2,4)],
      sum(ifelse(!is.na(subset(COR,COR$treat14==0|COR$treat14==1)$age),1,0)),
      nrow(band14_controls_age)),
    c("male",
      summary(lm(male ~ treat14 + factor(ciudad),data=COR))$coefficients[1,1],
      summary(lm(male ~ treat14 + factor(ciudad),data=COR))$coefficients[2,][c(1,2,4)],
      sum(ifelse(!is.na(subset(COR,COR$treat14==0|COR$treat14==1)$male),1,0)),
      nrow(band14_controls_male)),
    c("incomplete_highschool",
      summary(lm(incomplete_highschool ~ treat14 + factor(ciudad),data=COR))$coefficients[1,1],
      summary(lm(incomplete_highschool ~ treat14 + factor(ciudad),data=COR))$coefficients[2,][c(1,2,4)]
      sum(ifelse(!is.na(subset(COR,COR$treat14==0|COR$treat14==1)$incomplete_highschool),1,0)),
      nrow(band14_controls_incomplete_highschool)),
    c("complete_highschool",
      summary(lm(complete_highschool ~ treat14 + factor(ciudad),data=COR))$coefficients[1,1],
      summary(lm(complete_highschool ~ treat14 + factor(ciudad),data=COR))$coefficients[2,][c(1,2,4)],
      sum(ifelse(!is.na(subset(COR,COR$treat14==0|COR$treat14==1)$complete_highschool),1,0)),
      nrow(band14_controls_complete_highschool)),
    c("university",
      summary(lm(university ~ treat14 + factor(ciudad),data=COR))$coefficients[1,1],
      summary(lm(university ~ treat14 + factor(ciudad),data=COR))$coefficients[2,][c(1,2,4)],
      sum(ifelse(!is.na(subset(COR,COR$treat14==0|COR$treat14==1)$university),1,0)),
      nrow(band14_controls_university)),
    c("laborforce",
      summary(lm(laborforce ~ treat14 + factor(ciudad),data=COR))$coefficients[1,1],
      summary(lm(laborforce ~ treat14 + factor(ciudad),data=COR))$coefficients[2,][c(1,2,4)],
      sum(ifelse(!is.na(subset(COR,COR$treat14==0|COR$treat14==1)$laborforce),1,0)),
      nrow(band14_controls_laborforce)),
    c("poverty",
      summary(lm(poverty ~ treat14 + factor(ciudad),data=COR))$coefficients[1,1],
      summary(lm(poverty ~ treat14 + factor(ciudad),data=COR))$coefficients[2,][c(1,2,4)],
      sum(ifelse(!is.na(subset(COR,COR$treat14==0|COR$treat14==1)$poverty),1,0)),
      nrow(band14_controls_poverty)),
    c("voted",
      summary(lm(voted ~ treat14 + factor(ciudad),data=COR))$coefficients[1,1],
      summary(lm(voted ~ treat14 + factor(ciudad),data=COR))$coefficients[2,][c(1,2,4)],
      sum(ifelse(!is.na(subset(COR,COR$treat14==0|COR$treat14==1)$voted),1,0)),
      nrow(band14_controls_voted))
  )
balance <- cbind(balance[,c(1:2)],rowSums(cbind(as.numeric(balance[,2]),as.numeric(balance[,3]))),balan
```

```r
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 A6:
stargazer(balance.table, out="TableA6.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 - 11:07:13
## \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 & 40.188 & 39.472 & -0.716 & 0.794 & 962 & 163 \\
## male & 0.502 & 0.553 & 0.05 & 0.56 & 962 & 163 \\
## incomplete\_highschool & 0.708 & 0.641 & -0.067 & 0.377 & 962 & 163 \\
## complete\_highschool & 0.093 & 0.181 & 0.088 & 0.087 & 962 & 163 \\
## university & 0.2 & 0.178 & -0.022 & 0.739 & 962 & 163 \\
## laborforce & 0.665 & 0.658 & -0.006 & 0.937 & 962 & 163 \\
## poverty & 0.227 & 0.243 & 0.016 & 0.833 & 932 & 156 \\
## voted & 0.677 & 0.621 & -0.056 & 0.488 & 925 & 158 \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

```r
###descriptive statistics for outcomes:

##for all observations:
##Table A3:

descriptives <- rbind(
  c("progcorrupt",min(COR$progcorrupt,na.rm=T),max(COR$progcorrupt,na.rm=T),mean(COR$progcorrupt,na.rm=
  c("participation_willingness",min(COR$participation_willingness,na.rm=T),max(COR$participation_willin
  c("vote_invalid",min(COR$vote_invalid,na.rm=T),max(COR$vote_invalid,na.rm=T),mean(COR$vote_invalid,na
  c("conf_judge",min(COR$conf_judge,na.rm=T),max(COR$conf_judge,na.rm=T),mean(COR$conf_judge,na.rm=T),me
  c("conf_parties",min(COR$conf_parties,na.rm=T),max(COR$conf_parties,na.rm=T),mean(COR$conf_parties,na
  c("conf_parl",min(COR$conf_parl,na.rm=T),max(COR$conf_parl,na.rm=T),mean(COR$conf_parl,na.rm=T),media
)

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"     "1.345" "1"    "975"
## [2,] "participation_willingness" "0"     "1"     "0.849" "1"    "935"
## [3,] "vote_invalid"              "0"     "1"     "0.291" "0"    "951"
## [4,] "conf_judge"                "0"     "3"     "1.48"  "1"    "961"
## [5,] "conf_parties"              "0"     "3"     "0.911" "1"    "975"
## [6,] "conf_parl"                 "0"     "3"     "1.716" "2"    "979"
```

```
#Table A3:
stargazer(descriptives, out="TableA3.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 - 11:07:14
## \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 & 1.345 & 1 & 975 \\
## participation\_willingness & 0 & 1 & 0.849 & 1 & 935 \\
## vote\_invalid & 0 & 1 & 0.291 & 0 & 951 \\
## conf\_judge & 0 & 3 & 1.48 & 1 & 961 \\
## conf\_parties & 0 & 3 & 0.911 & 1 & 975 \\
## conf\_parl & 0 & 3 & 1.716 & 2 & 979 \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

```
##for analytic sample:
##Table A4:
descriptives_analytic <- rbind(
  c("progcorrupt",min(band14_controls_progcorrupt$progcorrupt,na.rm=T),max(band14_controls_progcorrupt$p
  c("participation_willingness",min(band14_controls_participation_willingness$participation_willingness
  c("vote_invalid",min(band14_controls_vote_invalid$vote_invalid,na.rm=T),max(band14_controls_vote_inval
  c("conf_judge",min(band14_controls_conf_judge$conf_judge,na.rm=T),max(band14_controls_conf_judge$conf_
  c("conf_parties",min(band14_controls_conf_parties$conf_parties,na.rm=T),max(band14_controls_conf_parti
  c("conf_parl",min(band14_controls_conf_parl$conf_parl,na.rm=T),max(band14_controls_conf_parl$conf_parl
)

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"     "1.437" "1"    "158"
## [2,] "participation_willingness" "0"     "1"     "0.853" "1"    "150"
## [3,] "vote_invalid"              "0"     "1"     "0.265" "0"    "155"
## [4,] "conf_judge"                "0"     "3"     "1.702" "2"    "151"
## [5,] "conf_parties"              "0"     "3"     "0.981" "1"    "154"
```

```
## [6,] "conf_parl"                 "0"     "3"     "1.877" "2"    "154"
```

```
#Table A4:
stargazer(descriptives_analytic, out="TableA4.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 - 11:07:14
## \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 & 1.437 & 1 & 158 \\
## participation\_willingness & 0 & 1 & 0.853 & 1 & 150 \\
## vote\_invalid & 0 & 1 & 0.265 & 0 & 155 \\
## conf\_judge & 0 & 3 & 1.702 & 2 & 151 \\
## conf\_parties & 0 & 3 & 0.981 & 1 & 154 \\
## conf\_parl & 0 & 3 & 1.877 & 2 & 154 \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

```
##treatment outcomes (with covariates):
##Table A9:
outcomes_controls <- 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(COR,COR$treat14==0|COR$treat14==1)$progcorrupt),1,0))),
  c("participation_willingness",
    summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + lab
    summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + lab
    sum(ifelse(!is.na(subset(COR,COR$treat14==0|COR$treat14==1)$participation_willingness),1,0))),
  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(COR,COR$treat14==0|COR$treat14==1)$vote_invalid),1,0))),
  c("conf_judge",
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + pover
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(COR,COR$treat14==0|COR$treat14==1)$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(COR,COR$treat14==0|COR$treat14==1)$conf_parties),1,0))),
  c("conf_parl",
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverr
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverr
    sum(ifelse(!is.na(subset(COR,COR$treat14==0|COR$treat14==1)$conf_parl),1,0)))
)
```

```r
colnames(outcomes_controls) <- c("Variable",
                                 "Intercept14","Estimate14","SE14","pvalue14","ValidN14")

outcomes_controls
```

```
##      Variable                    Intercept14         Estimate14
## [1,] "progcorrupt"               "1.14158181525912"  "-0.0670059846173174"
## [2,] "participation_willingness" "0.827513064093466" "-0.134220500671045"
## [3,] "vote_invalid"              "0.294143977235438" "-0.0377776104537355"
## [4,] "conf_judge"                "1.57628417354669"  "-0.626832231911141"
## [5,] "conf_parties"              "0.803808699796957" "-0.355351258363767"
## [6,] "conf_parl"                 "1.85562814600781"  "-0.459163786017144"
##      SE14                 pvalue14               ValidN14
## [1,] "0.173938931188347"  "0.700169705367929"    "937"
## [2,] "0.0620849266532625" "0.030927008296776"    "897"
## [3,] "0.0768789433252726" "0.623284806927038"    "913"
## [4,] "0.162806037042672"  "0.000127348226049114" "926"
## [5,] "0.149489869109312"  "0.0176782217659447"   "938"
## [6,] "0.162489013897355"  "0.00483069146800274"  "941"
```

```r
table_appendix <- outcomes_controls[,c(1,3:6)]
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[,1] <- c("Progress on state corruption","Inclination to vote or protest","Invalid vote",

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

#Table A9:
stargazer(table_appendix, out="TableA9.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 - 11:07:14
## \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 & -0.067 & 0.174 & 0.7 & 937 \\
## Inclination to vote or protest & -0.134 & 0.062 & 0.031 & 897 \\
## Invalid vote & -0.038 & 0.077 & 0.623 & 913 \\
## Trust in judiciary & -0.627 & 0.163 & 0 & 926 \\
## Trust in parties & -0.355 & 0.149 & 0.018 & 938 \\
## Trust in congress & -0.459 & 0.162 & 0.005 & 941 \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

```r
##treatment outcomes (without covariates):
##Table A10:
```

```
outcomes_without_controls <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat14 + factor(ciudad),data=COR))$coefficients[1,1],
    summary(lm(progcorrupt ~ treat14 + factor(ciudad),data=COR))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(COR,COR$treat14==0|COR$treat14==1)$progcorrupt),1,0))),
  c("participation_willingness",
    summary(lm(participation_willingness ~ treat14 + factor(ciudad),data=COR))$coefficients[1,1],
    summary(lm(participation_willingness ~ treat14 + factor(ciudad),data=COR))$coefficients[2,][c(1,2,4
    sum(ifelse(!is.na(subset(COR,COR$treat14==0|COR$treat14==1)$participation_willingness),1,0))),
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat14 + factor(ciudad),data=COR))$coefficients[1,1],
    summary(lm(vote_invalid ~ treat14 + factor(ciudad),data=COR))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(COR,COR$treat14==0|COR$treat14==1)$vote_invalid),1,0))),
  c("conf_judge",
    summary(lm(conf_judge ~ treat14 + factor(ciudad),data=COR))$coefficients[1,1],
    summary(lm(conf_judge ~ treat14 + factor(ciudad),data=COR))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(COR,COR$treat14==0|COR$treat14==1)$conf_judge),1,0))),
  c("conf_parties",
    summary(lm(conf_parties ~ treat14 + factor(ciudad),data=COR))$coefficients[1,1],
    summary(lm(conf_parties ~ treat14 + factor(ciudad),data=COR))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(COR,COR$treat14==0|COR$treat14==1)$conf_parties),1,0))),
  c("conf_parl",
    summary(lm(conf_parl ~ treat14 + factor(ciudad),data=COR))$coefficients[1,1],
    summary(lm(conf_parl ~ treat14 + factor(ciudad),data=COR))$coefficients[2,][c(1,2,4)],
    sum(ifelse(!is.na(subset(COR,COR$treat14==0|COR$treat14==1)$conf_parl),1,0)))
)

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

outcomes_without_controls
```

```
##      Variable                    Intercept14         Estimate14
## [1,] "progcorrupt"               "1.33992197048042"  "-0.114153426718072"
## [2,] "participation_willingness" "0.810140046091128" "-0.12763694380429"
## [3,] "vote_invalid"              "0.254090999800438" "-0.0226002793853593"
## [4,] "conf_judge"                "1.83973131678306"  "-0.642732610997595"
## [5,] "conf_parties"              "0.9135497566004"   "-0.373733250329146"
## [6,] "conf_parl"                 "1.81140767398076"  "-0.451591942819996"
##      SE14                 pvalue14               ValidN14
## [1,] "0.166229500817057"  "0.492439777046424"    "937"
## [2,] "0.0601832847500087" "0.0342321374304148"   "897"
## [3,] "0.0762825790576421" "0.767095697727557"    "913"
## [4,] "0.157281189321409"  "4.78626434830115e-05" "926"
## [5,] "0.144082163646211"  "0.00964795383780969"  "938"
## [6,] "0.156176098320775"  "0.00392778381652952"  "941"
```

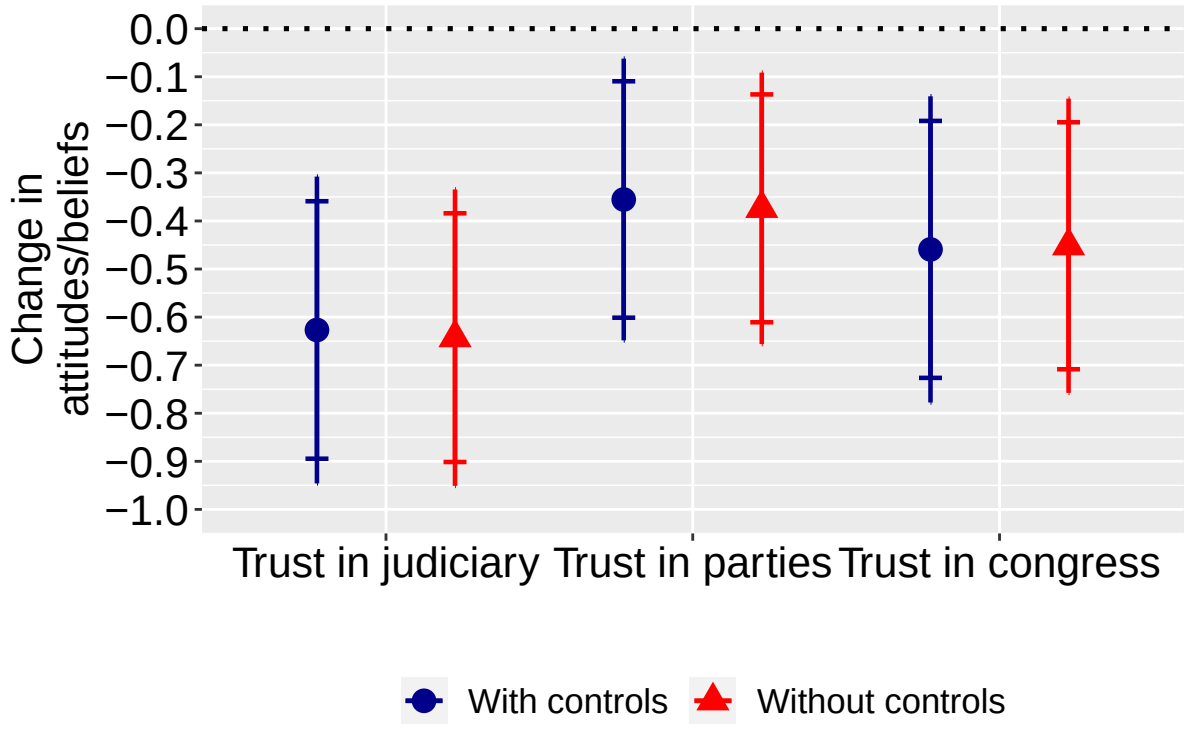
```
table_without_controls <- outcomes_without_controls[,c(1,3:6)]
table_without_controls[,2] <- round(as.numeric(table_without_controls[,2]),3)
table_without_controls[,3] <- round(as.numeric(table_without_controls[,3]),3)
table_without_controls[,4] <- round(as.numeric(table_without_controls[,4]),3)

table_without_controls[,1] <- c("Progress on corruption","Inclination to vote or protest","Invalid vote
```

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

#Table A10:
stargazer(table_without_controls, out="TableA10.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 - 11:07:14
## \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 corruption & -0.114 & 0.166 & 0.492 & 937 \\
## Inclination to vote or protest & -0.128 & 0.06 & 0.034 & 897 \\
## Invalid vote & -0.023 & 0.076 & 0.767 & 913 \\
## Trust in judiciary & -0.643 & 0.157 & 0 & 926 \\
## Trust in parties & -0.374 & 0.144 & 0.01 & 938 \\
## Trust in congress & -0.452 & 0.156 & 0.004 & 941 \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

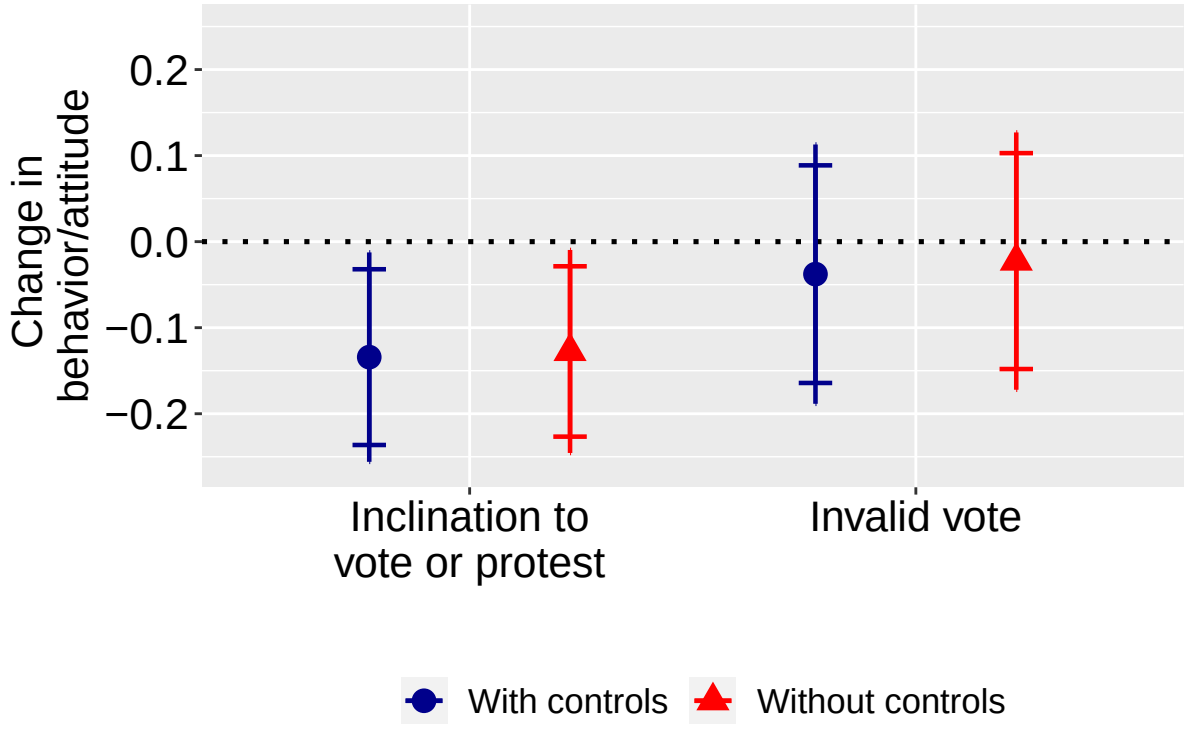
```r
###CREATE FIGURES
##merge dataframes:
outcomes_without_controls <- as.data.frame(outcomes_without_controls)
outcomes_without_controls$Estimate14 <- as.numeric(as.character(outcomes_without_controls$Estimate14))
outcomes_without_controls$SE14 <- as.numeric(as.character(outcomes_without_controls$SE14))
outcomes_without_controls$pvalue14 <- as.numeric(as.character(outcomes_without_controls$pvalue14))
outcomes_without_controls$Variable <- as.character(outcomes_without_controls$Variable)
outcomes_without_controls$controls <- "Without controls"
outcomes_14 <- as.data.frame(outcomes_without_controls)
colnames(outcomes_14)[2:6] <- c("Intercept","Estimate","SE","pvalue","ValidN")

outcomes_controls <- as.data.frame(outcomes_controls)
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_14 <- outcomes_controls
colnames(outcomes_controls_14)[2:6] <- c("Intercept","Estimate","SE","pvalue","ValidN")

outcomes_combined <- rbind(outcomes_14,outcomes_controls_14)

outcomes_combined$Variable <- as.character(outcomes_combined$Variable)
outcomes_combined$Variable[outcomes_combined$Variable=="progcorrupt"] <- "Progress on\ncorruption"
outcomes_combined$Variable[outcomes_combined$Variable=="participation_willingness"] <- "Inclination to\n
outcomes_combined$Variable[outcomes_combined$Variable=="vote_invalid"] <- "Invalid vote"
outcomes_combined$Variable[outcomes_combined$Variable=="conf_judge"] <- "Trust in judiciary"
outcomes_combined$Variable[outcomes_combined$Variable=="conf_parties"] <- "Trust in parties"
```

```
outcomes_combined$Variable[outcomes_combined$Variable=="conf_parl"] <- "Trust in congress"
outcomes_combined$Variable <- as.factor(outcomes_combined$Variable)
outcomes_combined$Variable <- factor(outcomes_combined$Variable,levels = c("Progress on\ncorruption","In


##Figure 6: Trust in Courts, Parl, & Parties:
ggplot(outcomes_combined[c(10:12,4:6),], 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(-1,-0.9,-0.8,-0.7,-0.6,-0.5,-0.4,-0.3,-0.2,-0.1,0,0.1,0.2,0.3,0.4,0.5), li
  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("Figure6.pdf", width = 9, height = 5)


##Figure 7: Inclination to vote or protest & Invalid vote
ggplot(outcomes_combined[c(2:3,8:9),], 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(-0.26,0.25))+
  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("Figure7.pdf", width = 9, height = 4)


##Placebo tests: effect on trust in other institutions:
##Table A22:
other_institutions <- rbind(
  c("conf_church",
    summary(lm(conf_church ~ treat14 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(conf_church ~ treat14 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(COR,COR$treat14==0|COR$treat14==1)$conf_church),1,0))),
  c("conf_local_gov",
    summary(lm(conf_local_gov ~ treat14 + male + age + complete_highschool + university + laborforce + p
    summary(lm(conf_local_gov ~ treat14 + male + age + complete_highschool + university + laborforce + p
    sum(ifelse(!is.na(subset(COR,COR$treat14==0|COR$treat14==1)$conf_local_gov),1,0)))
```

```
)

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

other_institutions
```

```
##      Variable         Intercept14        Estimate14
## [1,] "conf_church"    "1.90652113254565" "-0.227161719768907"
## [2,] "conf_local_gov" "1.36066469635514" "-0.224575976963767"
##      SE14               pvalue14           ValidN14
## [1,] "0.165849704342809" "0.171165079808146" "931"
## [2,] "0.147433019094848" "0.128083565035228" "938"
```

```
other_institutions_appendix <- other_institutions[,c(1,3:6)]
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[,1] <- c("Trust in church","Trust in local government")

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

#Table A22:
stargazer(other_institutions_appendix, out="TableA22.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 - 11:07:14
## \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 church & -0.227 & 0.166 & 0.171 & 931 \\
## Trust in local government & -0.225 & 0.147 & 0.128 & 938 \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

```
##Effects for main outcomes without PUSC supporters:
##Table A12:

COR_withoutPUSC <- subset(COR,p35st!="CR: Partido Unidad Social Cristiana (PUSC)")

outcomes_withoutPUSC <- 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(COR_withoutPUSC,COR_withoutPUSC$treat14==0|COR_withoutPUSC$treat14==1)$prog
  c("participation_willingness",
    summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + lab
```

```
    summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + lab
    sum(ifelse(!is.na(subset(COR_withoutPUSC,COR_withoutPUSC$treat14==0|COR_withoutPUSC$treat14==1)$part
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(vote_invalid ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(COR_withoutPUSC,COR_withoutPUSC$treat14==0|COR_withoutPUSC$treat14==1)$vote
  c("conf_judge",
    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(COR_withoutPUSC,COR_withoutPUSC$treat14==0|COR_withoutPUSC$treat14==1)$conf
  c("conf_parties",
    summary(lm(conf_parties ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(conf_parties ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(COR_withoutPUSC,COR_withoutPUSC$treat14==0|COR_withoutPUSC$treat14==1)$conf
  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(COR_withoutPUSC,COR_withoutPUSC$treat14==0|COR_withoutPUSC$treat14==1)$conf
)

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

outcomes_withoutPUSC
```

```
##      Variable                    Intercept14         Estimate14
## [1,] "progcorrupt"               "1.14043602361731"  "-0.0932159220237437"
## [2,] "participation_willingness" "0.83674435846137"  "-0.123694698801282"
## [3,] "vote_invalid"              "0.289738835170156" "-0.0423881867397242"
## [4,] "conf_judge"                "1.62406308592042"  "-0.678287538537313"
## [5,] "conf_parties"              "0.821337461421669" "-0.363905189497639"
## [6,] "conf_parl"                 "1.87921134409411"  "-0.478425554432459"
##      SE14                 pvalue14               ValidN14
## [1,] "0.175623192826688"  "0.595725015342353"    "915"
## [2,] "0.0626173273744755" "0.0485796329847283"   "875"
## [3,] "0.0783182430929305" "0.58850376591042"     "891"
## [4,] "0.164286492973808"  "4.03761268434502e-05" "904"
## [5,] "0.151910497151104"  "0.0168258420356743"   "916"
## [6,] "0.165155529249467"  "0.00387266064783974"  "920"
```

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

table_withoutPUSC[,1] <- c("Progress on corruption","Inclination to vote or protest","Invalid vote","Tru

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

#Table A12:
stargazer(table_withoutPUSC, out="TableA12.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 - 11:07:14
## \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 corruption & -0.093 & 0.176 & 0.596 & 915 \\
## Inclination to vote or protest & -0.124 & 0.063 & 0.049 & 875 \\
## Invalid vote & -0.042 & 0.078 & 0.589 & 891 \\
## Trust in judiciary & -0.678 & 0.164 & 0 & 904 \\
## Trust in parties & -0.364 & 0.152 & 0.017 & 916 \\
## Trust in congress & -0.478 & 0.165 & 0.004 & 920 \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

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

#the first day of data collection was on Sept. 30, this date is recoded as diareal 0 to ensure that dia
COR$diareal <- as.numeric(as.character(COR$diareal))
COR$diareal[COR$diareal==30] <- 0

set.seed(12022020) #the date on which the randomization occured: 12-02-2020
sample(c(0:19,22),3,replace=F) #yielded 19, 17, 3 as randomly selected cutoff dates within the range of
```

```
## [1] 19 17  3
```

```
##for the first cutoff date (October 19, 2009):
d=19
##treatment (before vs. after randomly selected cutoff dates)
COR$placebo14 <- ifelse(COR$diareal<d & COR$diareal>(d-14),0,NA)
COR$placebo14 <- ifelse(COR$diareal>d & COR$diareal<(d+14),1,COR$placebo14)

##treatment outcomes (with covariates):
placebo_outcomes <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ placebo14 + male + age + complete_highschool + university + laborforce + po
    summary(lm(progcorrupt ~ placebo14 + male + age + complete_highschool + university + laborforce + po
    sum(ifelse(!is.na(subset(COR,COR$placebo14==0|COR$placebo14==1)$progcorrupt),1,0))),
  c("participation_willingness",
    summary(lm(participation_willingness ~ placebo14 + male + age + complete_highschool + university + l
    summary(lm(participation_willingness ~ placebo14 + male + age + complete_highschool + university + l
    sum(ifelse(!is.na(subset(COR,COR$placebo14==0|COR$placebo14==1)$participation_willingness),1,0))),
  c("vote_invalid",
    summary(lm(vote_invalid ~ placebo14 + male + age + complete_highschool + university + laborforce + p
    summary(lm(vote_invalid ~ placebo14 + male + age + complete_highschool + university + laborforce + p
    sum(ifelse(!is.na(subset(COR,COR$placebo14==0|COR$placebo14==1)$vote_invalid),1,0))),
  c("conf_judge",
    summary(lm(conf_judge ~ placebo14 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(conf_judge ~ placebo14 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(COR,COR$placebo14==0|COR$placebo14==1)$conf_judge),1,0))),
```

```
  c("conf_parties",
    summary(lm(conf_parties ~ placebo14 + male + age + complete_highschool + university + laborforce + p
    summary(lm(conf_parties ~ placebo14 + male + age + complete_highschool + university + laborforce + p
    sum(ifelse(!is.na(subset(COR,COR$placebo14==0|COR$placebo14==1)$conf_parties),1,0))),
  c("conf_parl",
    summary(lm(conf_parl ~ placebo14 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(conf_parl ~ placebo14 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(COR,COR$placebo14==0|COR$placebo14==1)$conf_parl),1,0)))
)

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

placebo_outcomes
```

```
##      Variable                    Intercept14         Estimate14
## [1,] "progcorrupt"               "0.900771028012857" "-0.831789471357112"
## [2,] "participation_willingness" "0.63817325796725"  "0.0378735949910236"
## [3,] "vote_invalid"              "0.290768602266491" "-0.0430336646604347"
## [4,] "conf_judge"                "0.846844467993218" "-0.615876002202261"
## [5,] "conf_parties"              "0.548911002866574" "0.0928670793387575"
## [6,] "conf_parl"                 "1.31426465178026"  "-0.364401445704209"
##      SE14                pvalue14            ValidN14
## [1,] "0.479251251086389" "0.083131060801314" "717"
## [2,] "0.172099315301166" "0.825893612168856" "680"
## [3,] "0.21518398866043"  "0.84155928067944"  "694"
## [4,] "0.480448194165772" "0.200373213966814" "705"
## [5,] "0.426908171310012" "0.827863484856557" "718"
## [6,] "0.450718774921329" "0.419117901889541" "721"
```

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

placebo <- placebo_outcomes[,c(1,3:6)]

colnames(placebo) <- c("Variable","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\ncorruption"
placebo$Variable[placebo$Variable=="participation_willingness"] <- "Inclination to\nvote or protest"
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$Variable <- as.factor(placebo$Variable)
placebo$Variable <- factor(placebo$Variable,levels = c("Progress on\ncorruption","Inclination to\nvote

placebo_19 <- placebo


###for the second cutoff date (October 17, 2009):
d=17
##treatment (before vs. after randomly selected cutoff dates)
```

```
COR$placebo14 <- ifelse(COR$diareal<d & COR$diareal>(d-14),0,NA)
COR$placebo14 <- ifelse(COR$diareal>d & COR$diareal<(d+14),1,COR$placebo14)

##treatment outcomes (with covariates):
placebo_outcomes <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ placebo14 + male + age + complete_highschool + university + laborforce + po
    summary(lm(progcorrupt ~ placebo14 + male + age + complete_highschool + university + laborforce + po
    sum(ifelse(!is.na(subset(COR,COR$placebo14==0|COR$placebo14==1)$progcorrupt),1,0))),
  c("participation_willingness",
    summary(lm(participation_willingness ~ placebo14 + male + age + complete_highschool + university + l
    summary(lm(participation_willingness ~ placebo14 + male + age + complete_highschool + university + l
    sum(ifelse(!is.na(subset(COR,COR$placebo14==0|COR$placebo14==1)$participation_willingness),1,0))),
  c("vote_invalid",
    summary(lm(vote_invalid ~ placebo14 + male + age + complete_highschool + university + laborforce + p
    summary(lm(vote_invalid ~ placebo14 + male + age + complete_highschool + university + laborforce + p
    sum(ifelse(!is.na(subset(COR,COR$placebo14==0|COR$placebo14==1)$vote_invalid),1,0))),
  c("conf_judge",
    summary(lm(conf_judge ~ placebo14 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(conf_judge ~ placebo14 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(COR,COR$placebo14==0|COR$placebo14==1)$conf_judge),1,0))),
  c("conf_parties",
    summary(lm(conf_parties ~ placebo14 + male + age + complete_highschool + university + laborforce + p
    summary(lm(conf_parties ~ placebo14 + male + age + complete_highschool + university + laborforce + p
    sum(ifelse(!is.na(subset(COR,COR$placebo14==0|COR$placebo14==1)$conf_parties),1,0))),
  c("conf_parl",
    summary(lm(conf_parl ~ placebo14 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(conf_parl ~ placebo14 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(COR,COR$placebo14==0|COR$placebo14==1)$conf_parl),1,0)))
)

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

placebo_outcomes
```

```
##      Variable                    Intercept14         Estimate14
## [1,] "progcorrupt"               "1.02083914061928"  "-0.338404312948535"
## [2,] "participation_willingness" "0.727972690003689" "-0.0550488096592501"
## [3,] "vote_invalid"              "0.298422299536114" "0.0449349159675077"
## [4,] "conf_judge"                "0.996581112539947" "-0.451779353654311"
## [5,] "conf_parties"              "0.421278952560007" "-0.141101109207889"
## [6,] "conf_parl"                 "1.31950735249075"  "-0.646235364717299"
##      SE14                pvalue14             ValidN14
## [1,] "0.2460297558563"   "0.169467570121236"  "737"
## [2,] "0.085190136029398" "0.518396974338386"  "705"
## [3,] "0.107195520136503" "0.675222491102484"  "719"
## [4,] "0.229097422170761" "0.0490449232535337" "725"
## [5,] "0.201821597036234" "0.484717161580891"  "739"
## [6,] "0.221277825413335" "0.0036167115193556" "741"
```

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

placebo <- placebo_outcomes[,c(1,3:6)]
```

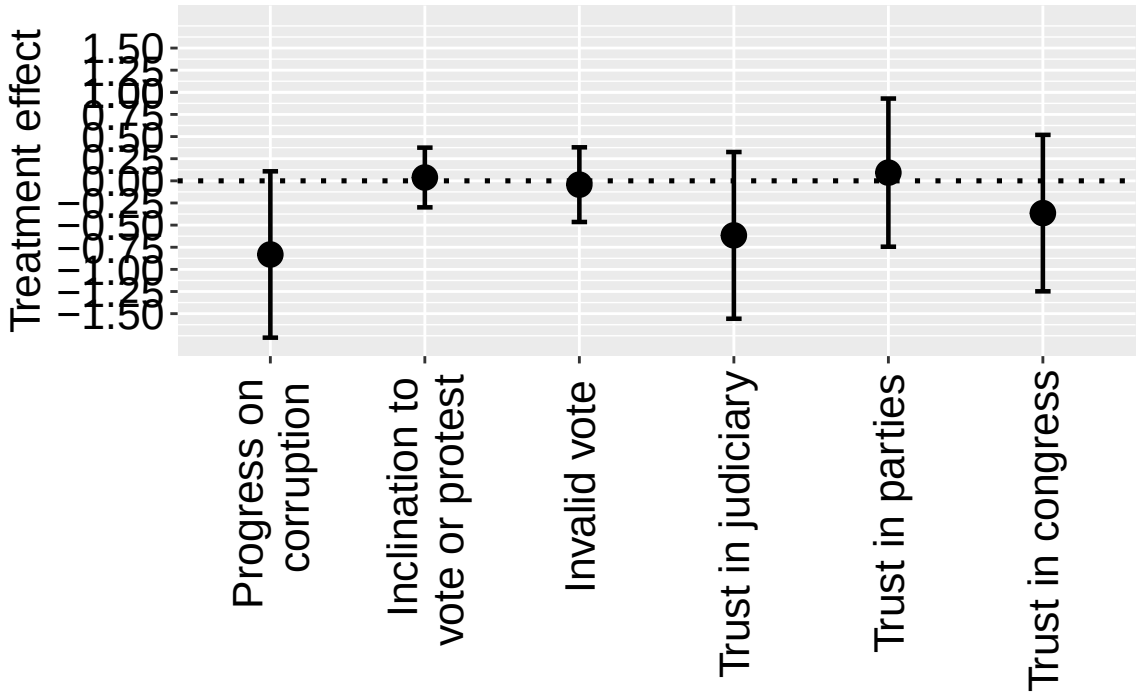
```
colnames(placebo) <- c("Variable","Estimate","SE","pvalue", "ValidN")
placebo$Estimate <- as.numeric(as.character(placebo$Estimate))
placebo$SE <- as.numeric(as.character(placebo$SE))

placebo$Variable <- as.character(placebo$Variable)
placebo$Variable[placebo$Variable=="progcorrupt"] <- "Progress on\ncorruption"
placebo$Variable[placebo$Variable=="participation_willingness"] <- "Inclination to\nvote or protest"
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$Variable <- as.factor(placebo$Variable)
placebo$Variable <- factor(placebo$Variable,levels = c("Progress on\ncorruption","Inclination to\nvote o

placebo_17 <- placebo


##for the third cutoff date (October 3, 2009):
d=3
##treatment (before vs. after randomly selected cutoff dates)
COR$placebo14 <- ifelse(COR$diareal<d & COR$diareal>(d-14),0,NA)
COR$placebo14 <- ifelse(COR$diareal>d & COR$diareal<(d+14),1,COR$placebo14)

##treatment outcomes (with covariates):
placebo_outcomes <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ placebo14 + male + age + complete_highschool + university + laborforce + po
    summary(lm(progcorrupt ~ placebo14 + male + age + complete_highschool + university + laborforce + po
    sum(ifelse(!is.na(subset(COR,COR$placebo14==0|COR$placebo14==1)$progcorrupt),1,0))),
  c("participation_willingness",
    summary(lm(participation_willingness ~ placebo14 + male + age + complete_highschool + university + l
    summary(lm(participation_willingness ~ placebo14 + male + age + complete_highschool + university + l
    sum(ifelse(!is.na(subset(COR,COR$placebo14==0|COR$placebo14==1)$participation_willingness),1,0))),
  c("vote_invalid",
    summary(lm(vote_invalid ~ placebo14 + male + age + complete_highschool + university + laborforce + p
    summary(lm(vote_invalid ~ placebo14 + male + age + complete_highschool + university + laborforce + p
    sum(ifelse(!is.na(subset(COR,COR$placebo14==0|COR$placebo14==1)$vote_invalid),1,0))),
  c("conf_judge",
    summary(lm(conf_judge ~ placebo14 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(conf_judge ~ placebo14 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(COR,COR$placebo14==0|COR$placebo14==1)$conf_judge),1,0))),
  c("conf_parties",
    summary(lm(conf_parties ~ placebo14 + male + age + complete_highschool + university + laborforce + p
    summary(lm(conf_parties ~ placebo14 + male + age + complete_highschool + university + laborforce + p
    sum(ifelse(!is.na(subset(COR,COR$placebo14==0|COR$placebo14==1)$conf_parties),1,0))),
  c("conf_parl",
    summary(lm(conf_parl ~ placebo14 + male + age + complete_highschool + university + laborforce + pove
    summary(lm(conf_parl ~ placebo14 + male + age + complete_highschool + university + laborforce + pove
    sum(ifelse(!is.na(subset(COR,COR$placebo14==0|COR$placebo14==1)$conf_parl),1,0)))
)

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

```
placebo_outcomes
```

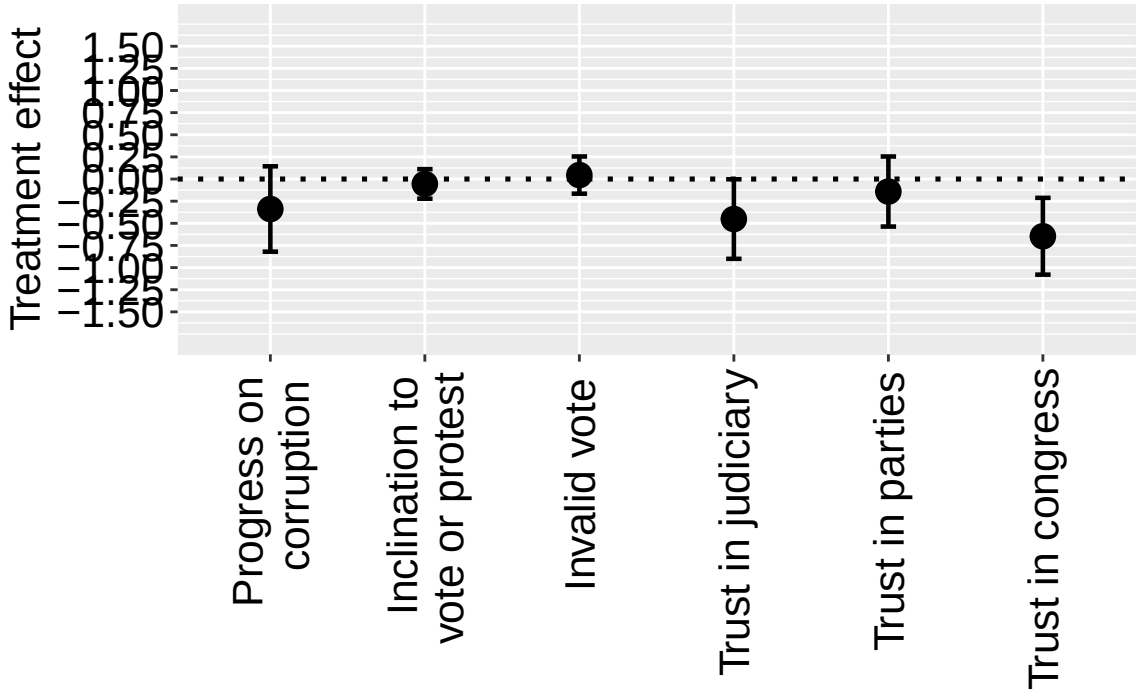
```
##      Variable                    Intercept14         Estimate14
## [1,] "progcorrupt"               "1.07150768388414"  "-0.00506070642541997"
## [2,] "participation_willingness" "0.818099333796858" "-0.0836440575108828"
## [3,] "vote_invalid"              "0.324171395324943" "-0.0296082822282632"
## [4,] "conf_judge"                "1.61477043796423"  "-0.565656275306124"
## [5,] "conf_parties"              "0.846179319290928" "-0.38580158647428"
## [6,] "conf_parl"                 "1.84955130418208"  "-0.42804307561905"
##      SE14                 pvalue14               ValidN14
## [1,] "0.167807121853143"  "0.975949385983007"    "841"
## [2,] "0.0602745132724345" "0.165662461956594"    "802"
## [3,] "0.0752748866702664" "0.694188495314185"    "822"
## [4,] "0.159131997802935"  "0.000403126397795216" "828"
## [5,] "0.143644576535455"  "0.0073990006911279"   "840"
## [6,] "0.156618950204028"  "0.00642685648771098"  "841"
```

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

placebo <- placebo_outcomes[,c(1,3:6)]

colnames(placebo) <- c("Variable","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\ncorruption"
placebo$Variable[placebo$Variable=="participation_willingness"] <- "Inclination to\nvote or protest"
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$Variable <- as.factor(placebo$Variable)
placebo$Variable <- factor(placebo$Variable,levels = c("Progress on\ncorruption","Inclination to\nvote o

placebo_3 <- placebo

##to merge the results from the three placebo tests:
placebo_19$date <- "October 19"
placebo_17$date <- "October 17"
placebo_3$date <- "October 3"

placebo <- rbind(placebo_19,placebo_17,placebo_3)

#Figure A11:
ggplot(placebo_19, 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"))+
```

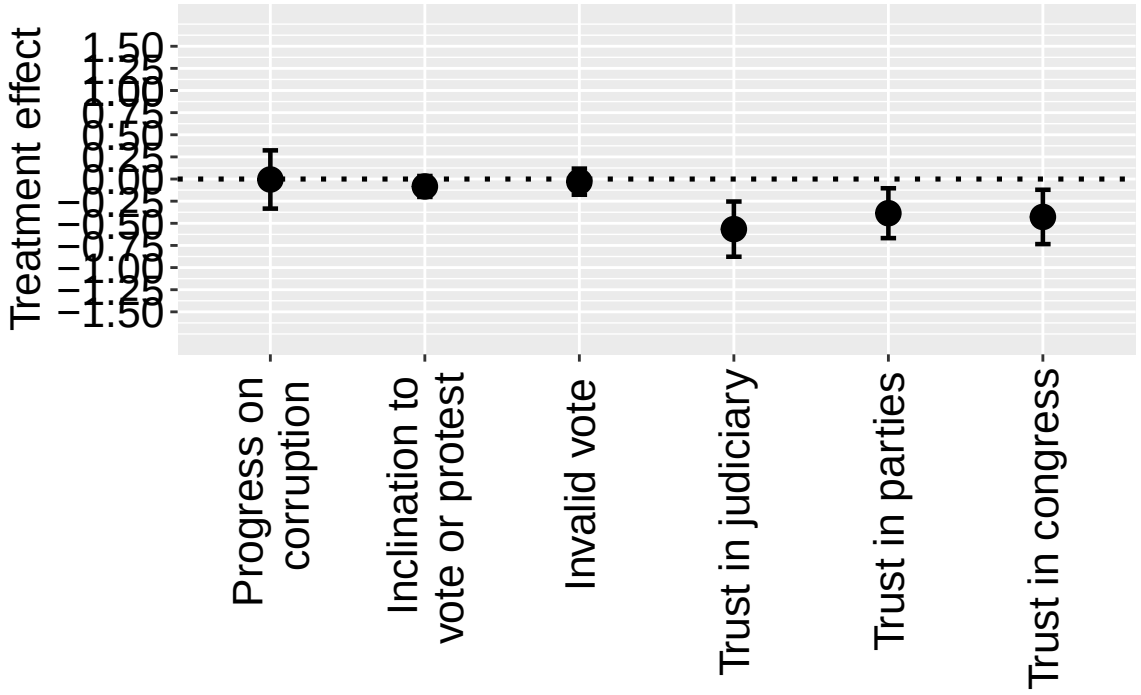
```
  theme(text=element_text(size=16))+
  theme(axis.text.y=element_text(size=16, color="black"))+
  theme(axis.text.x=element_text(size=16, color="black"))+
  theme(legend.position = "none",legend.title = element_blank())+
  scale_y_continuous(breaks=c(-1.5,-1.25,-1,-0.75,-0.5,-0.25,0,0.25,0.5,0.75,1,1,1.25,1.5), limits=c(-1
  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("FigureA11.pdf", width = 12, height = 7)

#Figure A12:
ggplot(placebo_17, 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,-0.25,0,0.25,0.5,0.75,1,1,1.25,1.5), limits=c(-1
  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))),
```

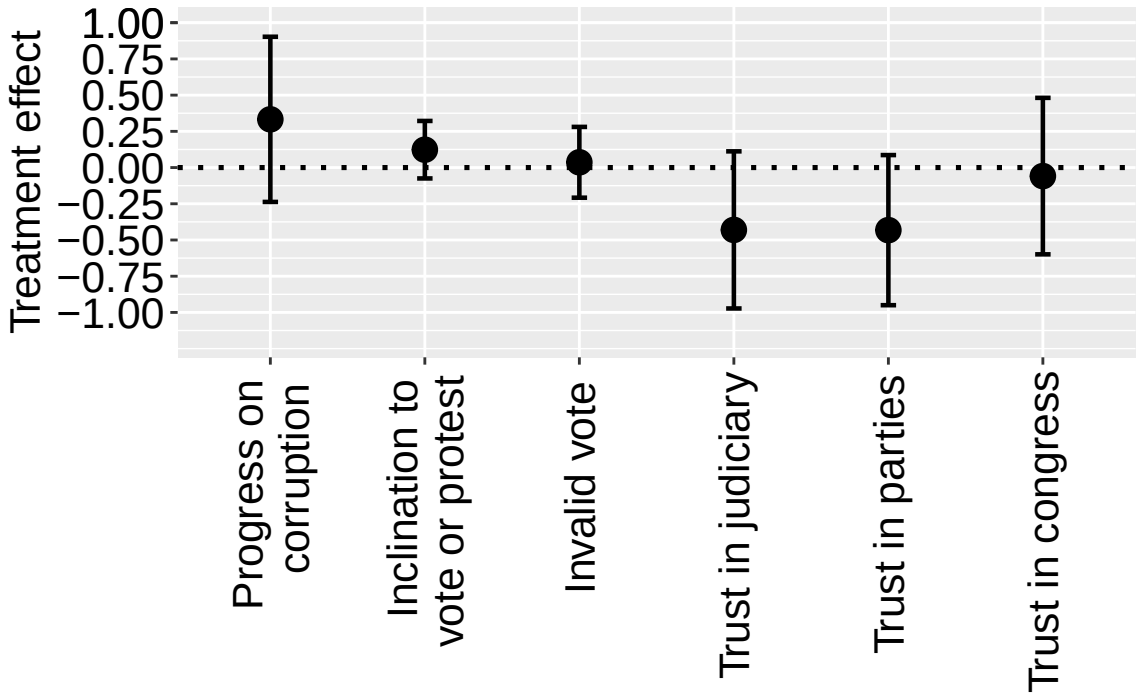



```
ggsave("FigureA12.pdf", width = 12, height = 7)

#Figure A13:
ggplot(placebo_3, 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,-0.25,0,0.25,0.5,0.75,1,1,1.25,1.5), limits=c(-1
  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("FigureA13.pdf", width = 12, height = 7)



## Placebo test for median of control group (Oct 2):
## Figure A14:

d=2
##treatment (before vs. after median of control group)
COR$placebo <- ifelse(COR$diareal<d,0,NA)
COR$placebo <- ifelse(COR$diareal>d & COR$diareal<5,1,COR$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(COR,COR$placebo==0|COR$placebo==1)$progcorrupt),1,0))),
  c("participation_willingness",
    summary(lm(participation_willingness ~ placebo + male + age + complete_highschool + university + lab
    summary(lm(participation_willingness ~ placebo + male + age + complete_highschool + university + lab
    sum(ifelse(!is.na(subset(COR,COR$placebo==0|COR$placebo==1)$participation_willingness),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(COR,COR$placebo==0|COR$placebo==1)$vote_invalid),1,0))),
  c("conf_judge",
    summary(lm(conf_judge ~ placebo + male + age + complete_highschool + university + laborforce + povei
    summary(lm(conf_judge ~ placebo + male + age + complete_highschool + university + laborforce + povei
    sum(ifelse(!is.na(subset(COR,COR$placebo==0|COR$placebo==1)$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(COR,COR$placebo==0|COR$placebo==1)$conf_parties),1,0))),
  c("conf_parl",
    summary(lm(conf_parl ~ placebo + male + age + complete_highschool + university + laborforce + pover
    summary(lm(conf_parl ~ placebo + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(COR,COR$placebo==0|COR$placebo==1)$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$Variable <- as.character(placebo$Variable)
placebo$Variable[placebo$Variable=="progcorrupt"] <- "Progress on\ncorruption"
placebo$Variable[placebo$Variable=="participation_willingness"] <- "Inclination to\nvote or protest"
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$Variable <- as.factor(placebo$Variable)
placebo$Variable <- factor(placebo$Variable,levels = c("Progress on\ncorruption","Inclination to\nvote

placebo_2 <- placebo

placebo_2$date <- "June 2"

#Figure A14:
ggplot(placebo_2, 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,-0.75,-0.5,-0.25,0,0.25,0.5,0.75,1,1,1.25,1.5), limits=c(-1.2,1))+
  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("FigureA14.pdf", width = 12, height = 7)


##Checking for time trends in control group:

timetrend_control <- 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(COR,COR$placebo==0 | placebo==1)$progcorrupt),1,0))),
  c("participation_willingness",
    summary(lm(participation_willingness ~ diareal + male + age + complete_highschool + university + lab
    summary(lm(participation_willingness ~ diareal + male + age + complete_highschool + university + lab
    sum(ifelse(!is.na(subset(COR,COR$placebo==0 | placebo==1)$participation_willingness),1,0))),
   c("vote_invalid",
    summary(lm(vote_invalid ~ diareal + male + age + complete_highschool + university + laborforce + pov
    summary(lm(vote_invalid ~ diareal + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(COR,COR$placebo==0 | placebo==1)$vote_invalid),1,0))),
  c("conf_judge",
    summary(lm(conf_judge ~ diareal + male + age + complete_highschool + university + laborforce + povei
    summary(lm(conf_judge ~ diareal + male + age + complete_highschool + university + laborforce + povei
    sum(ifelse(!is.na(subset(COR,COR$placebo==0 | placebo==1)$conf_judge),1,0))),
  c("conf_parties",
    summary(lm(conf_parties ~ diareal + male + age + complete_highschool + university + laborforce + pov
    summary(lm(conf_parties ~ diareal + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(COR,COR$placebo==0 | placebo==1)$conf_parties),1,0))),
  c("conf_parl",
    summary(lm(conf_parl ~ diareal + male + age + complete_highschool + university + laborforce + poverr
    summary(lm(conf_parl ~ diareal + male + age + complete_highschool + university + laborforce + poverr
    sum(ifelse(!is.na(subset(COR,COR$placebo==0 | placebo==1)$conf_parl),1,0)))
)
```

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

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

```
##                    Variable         Intercept           Estimate
## 1               progcorrupt  1.83861570072104  0.103588044761621
## 2 participation_willingness 0.838574310108653 0.0272278815148943
## 3              vote_invalid 0.228643932899848 0.0240895171450064
## 4                conf_judge  1.46315564521491 -0.107977493820887
## 5              conf_parties 0.994651982158535 -0.209223485552233
## 6                 conf_parl  2.04685937423692 0.0126083867913037
##                     SE             pvalue ValidN
## 1  0.100161000925774  0.302985516289102    158
## 2 0.0348273799163302  0.435756454626426    158
## 3 0.0425253513961416  0.572071137243735    155
## 4 0.0947809477983272  0.256717433669302    156
## 5 0.0895333009863964 0.0210011788139208    156
## 6 0.0942941626339236  0.893837637887224    157
```

```
####Het. effects:

###by gender:
###Table A18:

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

outcomes_men <- 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(men,men$treat14==0|men$treat14==1)$progcorrupt),1,0))),
  c("participation_willingness",
    summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + lab
    summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + lab
    sum(ifelse(!is.na(subset(men,men$treat14==0|men$treat14==1)$participation_willingness),1,0))),
  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(men,men$treat14==0|men$treat14==1)$vote_invalid),1,0))),
  c("conf_judge",
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + pover
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(men,men$treat14==0|men$treat14==1)$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(men,men$treat14==0|men$treat14==1)$conf_parties),1,0))),
  c("conf_parl",
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(men,men$treat14==0|men$treat14==1)$conf_parl),1,0)))
)
```

```r
colnames(outcomes_men) <- c("Variable",
                            "Intercept14","Estimate14","SE14","pvalue14","ValidN14")

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)

het_men[,1] <- c("Progress on corruption","Inclination to vote or protest","Invalid vote","Trust in judi

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

het_men
```

```
##                          Variable Effect    SE p Value   N
## 1         Progress on corruption  0.194 0.242   0.424 460
## 2 Inclination to vote or protest  -0.19 0.082   0.022 442
## 3                   Invalid vote  -0.09 0.109   0.407 449
## 4             Trust in judiciary -0.891 0.237       0 453
## 5               Trust in parties  -0.37 0.214   0.085 459
## 6              Trust in congress -0.519 0.237   0.029 461
```

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

outcomes_female <- 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(female,female$treat14==0|female$treat14==1)$progcorrupt),1,0))),
  c("participation_willingness",
    summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + lab
    summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + lab
    sum(ifelse(!is.na(subset(female,female$treat14==0|female$treat14==1)$participation_willingness),1,0
  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(female,female$treat14==0|female$treat14==1)$vote_invalid),1,0))),
  c("conf_judge",
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + povei
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + povei
    sum(ifelse(!is.na(subset(female,female$treat14==0|female$treat14==1)$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(female,female$treat14==0|female$treat14==1)$conf_parties),1,0))),
  c("conf_parl",
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverr
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverr
    sum(ifelse(!is.na(subset(female,female$treat14==0|female$treat14==1)$conf_parl),1,0)))
)
```

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

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)

het_women[,1] <- c("Progress on corruption","Inclination to vote or protest","Invalid vote","Trust in ju

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

het_women
```

```
##                          Variable Effect    SE p Value   N
## 1         Progress on corruption  -0.37 0.256   0.149 477
## 2 Inclination to vote or protest -0.078 0.093   0.403 455
## 3                   Invalid vote  0.042 0.111   0.703 464
## 4             Trust in judiciary -0.403 0.225   0.074 473
## 5               Trust in parties -0.387 0.215   0.072 479
## 6              Trust in congress  -0.42 0.226   0.064 480
```

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

outcomes_interact_gender <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat14 * male + treat14 + male + age + complete_highschool + university +
    summary(lm(progcorrupt ~ treat14 * male + treat14 + male + age + complete_highschool + university +
    sum(ifelse(!is.na(subset(valid_gender,valid_gender$treat14==0|valid_gender$treat14==1)$progcorrupt)
  c("participation_willingness",
    summary(lm(participation_willingness ~ treat14 * male + treat14 + male + age + complete_highschool
    summary(lm(participation_willingness ~ treat14 * male + treat14 + male + age + complete_highschool
    sum(ifelse(!is.na(subset(valid_gender,valid_gender$treat14==0|valid_gender$treat14==1)$participatio
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat14 * male + treat14 + male + age + complete_highschool + university
    summary(lm(vote_invalid ~ treat14 * male + treat14 + male + age + complete_highschool + university
    sum(ifelse(!is.na(subset(valid_gender,valid_gender$treat14==0|valid_gender$treat14==1)$vote_invalid
  c("conf_judge",
    summary(lm(conf_judge ~ treat14 * male + treat14 + male + age + complete_highschool + university + l
    summary(lm(conf_judge ~ treat14 * male + treat14 + male + age + complete_highschool + university + l
    sum(ifelse(!is.na(subset(valid_gender,valid_gender$treat14==0|valid_gender$treat14==1)$conf_judge),1
  c("conf_parties",
    summary(lm(conf_parties ~ treat14 * male + treat14 + male + age + complete_highschool + university
    summary(lm(conf_parties ~ treat14 * male + treat14 + male + age + complete_highschool + university
    sum(ifelse(!is.na(subset(valid_gender,valid_gender$treat14==0|valid_gender$treat14==1)$conf_parties)
  c("conf_parl",
    summary(lm(conf_parl ~ treat14 * male + treat14 + male + age + complete_highschool + university + la
    summary(lm(conf_parl ~ treat14 * male + treat14 + male + age + complete_highschool + university + la
    sum(ifelse(!is.na(subset(valid_gender,valid_gender$treat14==0|valid_gender$treat14==1)$conf_parl),1
)
```

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

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)

het_interact_gender[,1] <-  c("Progress on corruption","Inclination to vote or protest","Invalid vote",

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

het_interact_gender
```

```
##                          Variable Effect    SE p Value   N
## 1         Progress on corruption  0.312 0.249   0.212 937
## 2 Inclination to vote or protest  0.275 0.096   0.004 897
## 3                   Invalid vote  0.116  0.11   0.292 913
## 4             Trust in judiciary  0.381 0.229   0.097 926
## 5               Trust in parties  0.156 0.212   0.461 938
## 6              Trust in congress  0.438 0.231   0.059 941
```

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

COR_het_men[1,1] <- het_women[1,1]
COR_het_men[2,1] <- ""
COR_het_men[3,1] <- het_women[2,1]
COR_het_men[4,1] <- ""
COR_het_men[5,1] <- het_women[3,1]
COR_het_men[6,1] <- ""
COR_het_men[7,1] <- het_women[4,1]
COR_het_men[8,1] <- ""
COR_het_men[9,1] <- het_women[5,1]
COR_het_men[10,1] <- ""
COR_het_men[11,1] <- het_women[6,1]
COR_het_men[12,1] <- ""
COR_het_men[13,1] <- "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]))

COR_het_men[13,2] <- "Women"
COR_het_men[1,2] <- ifelse(het_women[1,4]<0.1,paste0(het_women[1,2],"*"),het_women[1,2])
COR_het_men[1,2] <- ifelse(het_women[1,4]<0.05,paste0(het_women[1,2],"**"),COR_het_men[1,2])
COR_het_men[1,2] <- ifelse(het_women[1,4]<0.01,paste0(het_women[1,2],"***"),COR_het_men[1,2])

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

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

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

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

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

COR_het_men[2,2] <- paste0("(",het_women[1,3],")")
COR_het_men[4,2] <- paste0("(",het_women[2,3],")")
COR_het_men[6,2] <- paste0("(",het_women[3,3],")")
COR_het_men[8,2] <- paste0("(",het_women[4,3],")")
COR_het_men[10,2] <- paste0("(",het_women[5,3],")")
COR_het_men[12,2] <- paste0("(",het_women[6,3],")")

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]))

COR_het_men[13,3] <- "Men"
COR_het_men[1,3] <- ifelse(het_men[1,4]<0.1,paste0(het_men[1,2],"*"),het_men[1,2])
COR_het_men[1,3] <- ifelse(het_men[1,4]<0.05,paste0(het_men[1,2],"**"),COR_het_men[1,3])
COR_het_men[1,3] <- ifelse(het_men[1,4]<0.01,paste0(het_men[1,2],"***"),COR_het_men[1,3])

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

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

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

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

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

COR_het_men[2,3] <- paste0("(",het_men[1,3],")")
```

```
COR_het_men[4,3] <- paste0("(",het_men[2,3],")")
COR_het_men[6,3] <- paste0("(",het_men[3,3],")")
COR_het_men[8,3] <- paste0("(",het_men[4,3],")")
COR_het_men[10,3] <- paste0("(",het_men[5,3],")")
COR_het_men[12,3] <- paste0("(",het_men[6,3],")")

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]))

COR_het_men[13,4] <- "Interaction Term"
COR_het_men[1,4] <- ifelse(het_interact_gender[1,4]<0.1,paste0(het_interact_gender[1,2],"*"),het_intera
COR_het_men[1,4] <- ifelse(het_interact_gender[1,4]<0.05,paste0(het_interact_gender[1,2],"**"),COR_het_m
COR_het_men[1,4] <- ifelse(het_interact_gender[1,4]<0.01,paste0(het_interact_gender[1,2],"***"),COR_het

COR_het_men[3,4] <- ifelse(het_interact_gender[2,4]<0.1,paste0(het_interact_gender[2,2],"*"),het_intera
COR_het_men[3,4] <- ifelse(het_interact_gender[2,4]<0.05,paste0(het_interact_gender[2,2],"**"),COR_het_m
COR_het_men[3,4] <- ifelse(het_interact_gender[2,4]<0.01,paste0(het_interact_gender[2,2],"***"),COR_het

COR_het_men[5,4] <- ifelse(het_interact_gender[3,4]<0.1,paste0(het_interact_gender[3,2],"*"),het_intera
COR_het_men[5,4] <- ifelse(het_interact_gender[3,4]<0.05,paste0(het_interact_gender[3,2],"**"),COR_het_m
COR_het_men[5,4] <- ifelse(het_interact_gender[3,4]<0.01,paste0(het_interact_gender[3,2],"***"),COR_het

COR_het_men[7,4] <- ifelse(het_interact_gender[4,4]<0.1,paste0(het_interact_gender[4,2],"*"),het_intera
COR_het_men[7,4] <- ifelse(het_interact_gender[4,4]<0.05,paste0(het_interact_gender[4,2],"**"),COR_het_m
COR_het_men[7,4] <- ifelse(het_interact_gender[4,4]<0.01,paste0(het_interact_gender[4,2],"***"),COR_het

COR_het_men[9,4] <- ifelse(het_interact_gender[5,4]<0.1,paste0(het_interact_gender[5,2],"*"),het_intera
COR_het_men[9,4] <- ifelse(het_interact_gender[5,4]<0.05,paste0(het_interact_gender[5,2],"**"),COR_het_m
COR_het_men[9,4] <- ifelse(het_interact_gender[5,4]<0.01,paste0(het_interact_gender[5,2],"***"),COR_het

COR_het_men[11,4] <- ifelse(het_interact_gender[6,4]<0.1,paste0(het_interact_gender[6,2],"*"),het_intera
COR_het_men[11,4] <- ifelse(het_interact_gender[6,4]<0.05,paste0(het_interact_gender[6,2],"**"),COR_het
COR_het_men[11,4] <- ifelse(het_interact_gender[6,4]<0.01,paste0(het_interact_gender[6,2],"***"),COR_he

COR_het_men[2,4] <- paste0("(",het_interact_gender[1,3],")")
COR_het_men[4,4] <- paste0("(",het_interact_gender[2,3],")")
COR_het_men[6,4] <- paste0("(",het_interact_gender[3,3],")")
COR_het_men[8,4] <- paste0("(",het_interact_gender[4,3],")")
COR_het_men[10,4] <- paste0("(",het_interact_gender[5,3],")")
COR_het_men[12,4] <- paste0("(",het_interact_gender[6,3],")")

COR_het_men
```

```
##                                V1      V2        V3              V4
## 1          Progress on corruption   -0.37     0.194           0.312
## 2                                  (0.256)   (0.242)         (0.249)
## 3  Inclination to vote or protest  -0.078   -0.19**        0.275***
## 4                                  (0.093)   (0.082)         (0.096)
## 5                     Invalid vote   0.042     -0.09           0.116
## 6                                  (0.111)   (0.109)          (0.11)
## 7              Trust in judiciary -0.403* -0.891***          0.381*
## 8                                  (0.225)   (0.237)         (0.229)
## 9                Trust in parties -0.387*    -0.37*           0.156
```

```
## 10                                (0.215)   (0.214)          (0.212)
## 11             Trust in congress  -0.42*  -0.519**           0.438*
## 12                                (0.226)   (0.237)          (0.231)
## 13                         Sample   Women       Men Interaction Term
```

```
#Table A18:
stargazer(as.matrix(COR_het_men), rownames=F, out="TableA18.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 - 11:07:15
## \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 corruption & -0.37 & 0.194 & 0.312 \\
##  & (0.256) & (0.242) & (0.249) \\
## Inclination to vote or protest & -0.078 & -0.19\textasteriskcentered \textasteriskcentered  & 0.275\
##  & (0.093) & (0.082) & (0.096) \\
## Invalid vote & 0.042 & -0.09 & 0.116 \\
##  & (0.111) & (0.109) & (0.11) \\
## Trust in judiciary & -0.403\textasteriskcentered  & -0.891\textasteriskcentered \textasteriskcentere
##  & (0.225) & (0.237) & (0.229) \\
## Trust in parties & -0.387\textasteriskcentered  & -0.37\textasteriskcentered  & 0.156 \\
##  & (0.215) & (0.214) & (0.212) \\
## Trust in congress & -0.42\textasteriskcentered  & -0.519\textasteriskcentered \textasteriskcentered
##  & (0.226) & (0.237) & (0.231) \\
## Sample & Women & Men & Interaction Term \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

```
###by region:
##Table A17:

##conurbano:
conurbano <- subset(COR, COR$reg=="CR: San José" | COR$reg=="CR: Alajuela" | COR$reg=="CR: Heredia")
COR$conurbano <- ifelse(COR$reg=="CR: San José" | COR$reg=="CR: Alajuela" | COR$reg=="CR: Heredia", 1, 

outcomes_conurbano <- 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(conurbano,treat14==0|treat14==1)$progcorrupt),1,0))),
  c("participation_willingness",
    summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + lab
    summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + lab
    sum(ifelse(!is.na(subset(conurbano,treat14==0|treat14==1)$participation_willingness),1,0))),
  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(conurbano,treat14==0|treat14==1)$vote_invalid),1,0))),
  c("conf_judge",
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + pover
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(conurbano,treat14==0|treat14==1)$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(conurbano,treat14==0|treat14==1)$conf_parties),1,0))),
  c("conf_parl",
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(conurbano,treat14==0|treat14==1)$conf_parl),1,0)))
)

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

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)

het_conurbano[,1] <- c("Progress on corruption","Inclination to vote or protest","Invalid vote","Trust i

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

het_conurbano
```

```
##                          Variable Effect    SE p Value   N
## 1         Progress on corruption -0.168 0.186   0.367 597
## 2 Inclination to vote or protest -0.146 0.062   0.019 576
## 3                   Invalid vote -0.016 0.081   0.849 587
## 4             Trust in judiciary -0.705 0.166       0 595
## 5               Trust in parties -0.343 0.158    0.03 602
## 6              Trust in congress   -0.4 0.162   0.014 607
```

```
##other_provinces:
other_provinces <- subset(COR, COR$reg!="CR: San José" & COR$reg!="CR: Alajuela" & COR$reg!="CR: Heredia

outcomes_other_provinces <- 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(other_provinces,other_provinces$treat14==0|other_provinces$treat14==1)$prog
  c("participation_willingness",
    summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + lab
    summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + lab
    sum(ifelse(!is.na(subset(other_provinces,other_provinces$treat14==0|other_provinces$treat14==1)$part
  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(other_provinces,other_provinces$treat14==0|other_provinces$treat14==1)$vote
  c("conf_judge",
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + pover
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(other_provinces,other_provinces$treat14==0|other_provinces$treat14==1)$conf
  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(other_provinces,other_provinces$treat14==0|other_provinces$treat14==1)$conf
  c("conf_parl",
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(other_provinces,other_provinces$treat14==0|other_provinces$treat14==1)$conf
)

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

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)

het_other_provinces[,1] <- c("Progress on corruption","Inclination to vote or protest","Invalid vote","T

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

het_other_provinces
```

```
##                          Variable Effect    SE p Value   N
## 1         Progress on corruption  1.037 0.541   0.056 340
## 2 Inclination to vote or protest -0.043 0.218   0.843 321
## 3                   Invalid vote -0.187 0.249   0.453 326
## 4             Trust in judiciary  0.179 0.559   0.749 331
## 5               Trust in parties -0.225 0.487   0.645 336
## 6              Trust in congress -1.023 0.626   0.103 334
```

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

outcomes_interact_region <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat14 * conurbano + treat14 + male + age + complete_highschool + universi
    summary(lm(progcorrupt ~ treat14 * conurbano + treat14 + male + age + complete_highschool + universi
    sum(ifelse(!is.na(subset(valid_region,valid_region$treat14==0|valid_region$treat14==1)$progcorrupt)
  c("participation_willingness",
    summary(lm(participation_willingness ~ treat14 * conurbano + treat14 + male + age + complete_highsch
    summary(lm(participation_willingness ~ treat14 * conurbano + treat14 + male + age + complete_highsch
    sum(ifelse(!is.na(subset(valid_region,valid_region$treat14==0|valid_region$treat14==1)$participation
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat14 * conurbano + treat14 + male + age + complete_highschool + univers
    summary(lm(vote_invalid ~ treat14 * conurbano + treat14 + male + age + complete_highschool + univers
```

```
    sum(ifelse(!is.na(subset(valid_region,valid_region$treat14==0|valid_region$treat14==1)$vote_invalid
  c("conf_judge",
    summary(lm(conf_judge ~ treat14 * conurbano + treat14 + male + age + complete_highschool + universi
    summary(lm(conf_judge ~ treat14 * conurbano + treat14 + male + age + complete_highschool + universi
    sum(ifelse(!is.na(subset(valid_region,valid_region$treat14==0|valid_region$treat14==1)$conf_judge),
  c("conf_parties",
    summary(lm(conf_parties ~ treat14 * conurbano + treat14 + male + age + complete_highschool + univers
    summary(lm(conf_parties ~ treat14 * conurbano + treat14 + male + age + complete_highschool + univers
    sum(ifelse(!is.na(subset(valid_region,valid_region$treat14==0|valid_region$treat14==1)$conf_parties
  c("conf_parl",
    summary(lm(conf_parl ~ treat14 * conurbano + treat14 + male + age + complete_highschool + universit
    summary(lm(conf_parl ~ treat14 * conurbano + treat14 + male + age + complete_highschool + universit
    sum(ifelse(!is.na(subset(valid_region,valid_region$treat14==0|valid_region$treat14==1)$conf_parl),1
)

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

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)

het_interact_region[,1] <-  c("Progress on corruption","Inclination to vote or protest","Invalid vote",

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

het_interact_region
```

```
##                          Variable Effect    SE p Value   N
## 1         Progress on corruption  0.027 0.229   0.906 937
## 2 Inclination to vote or protest  0.155 0.078   0.048 897
## 3                   Invalid vote  0.011   0.1   0.911 913
## 4             Trust in judiciary -0.293 0.204   0.152 926
## 5               Trust in parties  0.228  0.19    0.23 938
## 6              Trust in congress -0.184 0.207   0.376 941
```

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

COR_het_region[1,1] <- het_other_provinces[1,1]
COR_het_region[2,1] <- ""
COR_het_region[3,1] <- het_other_provinces[2,1]
COR_het_region[4,1] <- ""
COR_het_region[5,1] <- het_other_provinces[3,1]
COR_het_region[6,1] <- ""
COR_het_region[7,1] <- het_other_provinces[4,1]
COR_het_region[8,1] <- ""
COR_het_region[9,1] <- het_other_provinces[5,1]
COR_het_region[10,1] <- ""
COR_het_region[11,1] <- het_other_provinces[6,1]
COR_het_region[12,1] <- ""
```

```
COR_het_region[13,1] <- "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]))

COR_het_region[13,2] <- "Other Provinces"
COR_het_region[1,2] <- ifelse(het_other_provinces[1,4]<0.1,paste0(het_other_provinces[1,2],"*"),het_othe
COR_het_region[1,2] <- ifelse(het_other_provinces[1,4]<0.05,paste0(het_other_provinces[1,2],"**"),COR_he
COR_het_region[1,2] <- ifelse(het_other_provinces[1,4]<0.01,paste0(het_other_provinces[1,2],"***"),COR_h

COR_het_region[3,2] <- ifelse(het_other_provinces[2,4]<0.1,paste0(het_other_provinces[2,2],"*"),het_othe
COR_het_region[3,2] <- ifelse(het_other_provinces[2,4]<0.05,paste0(het_other_provinces[2,2],"**"),COR_he
COR_het_region[3,2] <- ifelse(het_other_provinces[2,4]<0.01,paste0(het_other_provinces[2,2],"***"),COR_h

COR_het_region[5,2] <- ifelse(het_other_provinces[3,4]<0.1,paste0(het_other_provinces[3,2],"*"),het_othe
COR_het_region[5,2] <- ifelse(het_other_provinces[3,4]<0.05,paste0(het_other_provinces[3,2],"**"),COR_he
COR_het_region[5,2] <- ifelse(het_other_provinces[3,4]<0.01,paste0(het_other_provinces[3,2],"***"),COR_h

COR_het_region[7,2] <- ifelse(het_other_provinces[4,4]<0.1,paste0(het_other_provinces[4,2],"*"),het_othe
COR_het_region[7,2] <- ifelse(het_other_provinces[4,4]<0.05,paste0(het_other_provinces[4,2],"**"),COR_he
COR_het_region[7,2] <- ifelse(het_other_provinces[4,4]<0.01,paste0(het_other_provinces[4,2],"***"),COR_h

COR_het_region[9,2] <- ifelse(het_other_provinces[5,4]<0.1,paste0(het_other_provinces[5,2],"*"),het_othe
COR_het_region[9,2] <- ifelse(het_other_provinces[5,4]<0.05,paste0(het_other_provinces[5,2],"**"),COR_he
COR_het_region[9,2] <- ifelse(het_other_provinces[5,4]<0.01,paste0(het_other_provinces[5,2],"***"),COR_h

COR_het_region[11,2] <- ifelse(het_other_provinces[6,4]<0.1,paste0(het_other_provinces[6,2],"*"),het_oth
COR_het_region[11,2] <- ifelse(het_other_provinces[6,4]<0.05,paste0(het_other_provinces[6,2],"**"),COR_h
COR_het_region[11,2] <- ifelse(het_other_provinces[6,4]<0.01,paste0(het_other_provinces[6,2],"***"),COR

COR_het_region[2,2] <- paste0("(",het_other_provinces[1,3],")")
COR_het_region[4,2] <- paste0("(",het_other_provinces[2,3],")")
COR_het_region[6,2] <- paste0("(",het_other_provinces[3,3],")")
COR_het_region[8,2] <- paste0("(",het_other_provinces[4,3],")")
COR_het_region[10,2] <- paste0("(",het_other_provinces[5,3],")")
COR_het_region[12,2] <- paste0("(",het_other_provinces[6,3],")")

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]))

COR_het_region[13,3] <- "Conurbano"
COR_het_region[1,3] <- ifelse(het_conurbano[1,4]<0.1,paste0(het_conurbano[1,2],"*"),het_conurbano[1,2])
COR_het_region[1,3] <- ifelse(het_conurbano[1,4]<0.05,paste0(het_conurbano[1,2],"**"),COR_het_region[1,3
COR_het_region[1,3] <- ifelse(het_conurbano[1,4]<0.01,paste0(het_conurbano[1,2],"***"),COR_het_region[1

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

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

```
COR_het_region[5,3] <- ifelse(het_conurbano[3,4]<0.01,paste0(het_conurbano[3,2],"***"),COR_het_region[5

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

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

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

COR_het_region[2,3] <- paste0("(",het_conurbano[1,3],")")
COR_het_region[4,3] <- paste0("(",het_conurbano[2,3],")")
COR_het_region[6,3] <- paste0("(",het_conurbano[3,3],")")
COR_het_region[8,3] <- paste0("(",het_conurbano[4,3],")")
COR_het_region[10,3] <- paste0("(",het_conurbano[5,3],")")
COR_het_region[12,3] <- paste0("(",het_conurbano[6,3],")")

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]))

COR_het_region[13,4] <- "Interaction Term"
COR_het_region[1,4] <- ifelse(het_interact_region[1,4]<0.1,paste0(het_interact_region[1,2],"*"),het_inte
COR_het_region[1,4] <- ifelse(het_interact_region[1,4]<0.05,paste0(het_interact_region[1,2],"**"),COR_he
COR_het_region[1,4] <- ifelse(het_interact_region[1,4]<0.01,paste0(het_interact_region[1,2],"***"),COR_

COR_het_region[3,4] <- ifelse(het_interact_region[2,4]<0.1,paste0(het_interact_region[2,2],"*"),het_inte
COR_het_region[3,4] <- ifelse(het_interact_region[2,4]<0.05,paste0(het_interact_region[2,2],"**"),COR_he
COR_het_region[3,4] <- ifelse(het_interact_region[2,4]<0.01,paste0(het_interact_region[2,2],"***"),COR_

COR_het_region[5,4] <- ifelse(het_interact_region[3,4]<0.1,paste0(het_interact_region[3,2],"*"),het_inte
COR_het_region[5,4] <- ifelse(het_interact_region[3,4]<0.05,paste0(het_interact_region[3,2],"**"),COR_he
COR_het_region[5,4] <- ifelse(het_interact_region[3,4]<0.01,paste0(het_interact_region[3,2],"***"),COR_

COR_het_region[7,4] <- ifelse(het_interact_region[4,4]<0.1,paste0(het_interact_region[4,2],"*"),het_inte
COR_het_region[7,4] <- ifelse(het_interact_region[4,4]<0.05,paste0(het_interact_region[4,2],"**"),COR_he
COR_het_region[7,4] <- ifelse(het_interact_region[4,4]<0.01,paste0(het_interact_region[4,2],"***"),COR_

COR_het_region[9,4] <- ifelse(het_interact_region[5,4]<0.1,paste0(het_interact_region[5,2],"*"),het_inte
COR_het_region[9,4] <- ifelse(het_interact_region[5,4]<0.05,paste0(het_interact_region[5,2],"**"),COR_he
COR_het_region[9,4] <- ifelse(het_interact_region[5,4]<0.01,paste0(het_interact_region[5,2],"***"),COR_

COR_het_region[11,4] <- ifelse(het_interact_region[6,4]<0.1,paste0(het_interact_region[6,2],"*"),het_int
COR_het_region[11,4] <- ifelse(het_interact_region[6,4]<0.05,paste0(het_interact_region[6,2],"**"),COR_
COR_het_region[11,4] <- ifelse(het_interact_region[6,4]<0.01,paste0(het_interact_region[6,2],"***"),COR

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

```r
COR_het_region[8,4] <- paste0("(",het_interact_region[4,3],")")
COR_het_region[10,4] <- paste0("(",het_interact_region[5,3],")")
COR_het_region[12,4] <- paste0("(",het_interact_region[6,3],")")

COR_het_region
```

```
##                                V1              V2        V3              V4
## 1          Progress on corruption          1.037*    -0.168           0.027
## 2                                         (0.541)   (0.186)         (0.229)
## 3  Inclination to vote or protest          -0.043  -0.146**         0.155**
## 4                                         (0.218)   (0.062)         (0.078)
## 5                    Invalid vote          -0.187    -0.016           0.011
## 6                                         (0.249)   (0.081)           (0.1)
## 7              Trust in judiciary           0.179 -0.705***         -0.293
## 8                                         (0.559)   (0.166)         (0.204)
## 9                Trust in parties          -0.225  -0.343**           0.228
## 10                                        (0.487)   (0.158)          (0.19)
## 11              Trust in congress          -1.023    -0.4**         -0.184
## 12                                        (0.626)   (0.162)         (0.207)
## 13                        Sample Other Provinces Conurbano Interaction Term
```

```r
#Table A17:
stargazer(as.matrix(COR_het_region), rownames=F, out="TableA17.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 - 11:07:16
## \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 corruption & 1.037\textasteriskcentered  & -0.168 & 0.027 \\
##  & (0.541) & (0.186) & (0.229) \\
## Inclination to vote or protest & -0.043 & -0.146\textasteriskcentered \textasteriskcentered  & 0.155
##  & (0.218) & (0.062) & (0.078) \\
## Invalid vote & -0.187 & -0.016 & 0.011 \\
##  & (0.249) & (0.081) & (0.1) \\
## Trust in judiciary & 0.179 & -0.705\textasteriskcentered \textasteriskcentered \textasteriskcentered
##  & (0.559) & (0.166) & (0.204) \\
## Trust in parties & -0.225 & -0.343\textasteriskcentered \textasteriskcentered  & 0.228 \\
##  & (0.487) & (0.158) & (0.19) \\
## Trust in congress & -1.023 & -0.4\textasteriskcentered \textasteriskcentered  & -0.184 \\
##  & (0.626) & (0.162) & (0.207) \\
## Sample & Other Provinces & Conurbano & Interaction Term \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

```r
###by age:
###Table A20:
```

```r
##age_1:
age_1 <- subset(COR, COR$age<41) #below median age:

outcomes_age_1 <- 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(age_1,age_1$treat14==0|age_1$treat14==1)$progcorrupt),1,0))),
  c("participation_willingness",
    summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + lab
    summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + lab
    sum(ifelse(!is.na(subset(age_1,age_1$treat14==0|age_1$treat14==1)$participation_willingness),1,0)))
  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(age_1,age_1$treat14==0|age_1$treat14==1)$vote_invalid),1,0))),
  c("conf_judge",
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + povert
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + povert
    sum(ifelse(!is.na(subset(age_1,age_1$treat14==0|age_1$treat14==1)$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(age_1,age_1$treat14==0|age_1$treat14==1)$conf_parties),1,0))),
  c("conf_parl",
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(age_1,age_1$treat14==0|age_1$treat14==1)$conf_parl),1,0)))
)

colnames(outcomes_age_1) <- c("Variable",
                              "Intercept14","Estimate14","SE14","pvalue14","ValidN14")

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)

het_age_1[,1] <- c("Progress on corruption","Inclination to vote or protest","Invalid vote","Trust in ju

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

het_age_1
```

```
##                         Variable Effect    SE p Value   N
## 1         Progress on corruption -0.004 0.224   0.986 570
## 2 Inclination to vote or protest -0.099 0.081   0.221 548
## 3                   Invalid vote -0.147 0.099   0.137 562
## 4             Trust in judiciary -0.552  0.21   0.009 566
## 5               Trust in parties -0.429 0.188   0.023 572
## 6              Trust in congress -0.539 0.204   0.009 573
```

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

outcomes_age_2 <- 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(age_2,age_2$treat14==0|age_2$treat14==1)$progcorrupt),1,0))),
  c("participation_willingness",
    summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + lab
    summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + lab
    sum(ifelse(!is.na(subset(age_2,age_2$treat14==0|age_2$treat14==1)$participation_willingness),1,0)))
  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(age_2,age_2$treat14==0|age_2$treat14==1)$vote_invalid),1,0))),
  c("conf_judge",
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + povert
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + povert
    sum(ifelse(!is.na(subset(age_2,age_2$treat14==0|age_2$treat14==1)$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(age_2,age_2$treat14==0|age_2$treat14==1)$conf_parties),1,0))),
  c("conf_parl",
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(age_2,age_2$treat14==0|age_2$treat14==1)$conf_parl),1,0)))
)

colnames(outcomes_age_2) <- c("Variable",
                              "Intercept14","Estimate14","SE14","pvalue14","ValidN14")

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)

het_age_2[,1] <- c("Progress on corruption","Inclination to vote or protest","Invalid vote","Trust in ju

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

het_age_2
```

```
##                         Variable Effect    SE p Value   N
## 1         Progress on corruption -0.225 0.283   0.428 367
## 2 Inclination to vote or protest -0.193 0.097   0.047 349
## 3                   Invalid vote  0.231 0.124   0.065 351
## 4             Trust in judiciary -0.807 0.273   0.003 360
## 5               Trust in parties -0.338 0.251   0.178 366
## 6              Trust in congress -0.347 0.279   0.214 368
```

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

outcomes_interact_age <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat14 * age + treat14 + male + age + complete_highschool + university + l
    summary(lm(progcorrupt ~ treat14 * age + treat14 + male + age + complete_highschool + university + l
    sum(ifelse(!is.na(subset(valid_age,valid_age$treat14==0|valid_age$treat14==1)$progcorrupt),1,0))),
  c("participation_willingness",
    summary(lm(participation_willingness ~ treat14 * age + treat14 + male + age + complete_highschool +
    summary(lm(participation_willingness ~ treat14 * age + treat14 + male + age + complete_highschool +
    sum(ifelse(!is.na(subset(valid_age,valid_age$treat14==0|valid_age$treat14==1)$participation_willingn
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat14 * age + treat14 + male + age + complete_highschool + university +
    summary(lm(vote_invalid ~ treat14 * age + treat14 + male + age + complete_highschool + university +
    sum(ifelse(!is.na(subset(valid_age,valid_age$treat14==0|valid_age$treat14==1)$vote_invalid),1,0))),
  c("conf_judge",
    summary(lm(conf_judge ~ treat14 * age + treat14 + male + age + complete_highschool + university + la
    summary(lm(conf_judge ~ treat14 * age + treat14 + male + age + complete_highschool + university + la
    sum(ifelse(!is.na(subset(valid_age,valid_age$treat14==0|valid_age$treat14==1)$conf_judge),1,0))),
  c("conf_parties",
    summary(lm(conf_parties ~ treat14 * age + treat14 + male + age + complete_highschool + university +
    summary(lm(conf_parties ~ treat14 * age + treat14 + male + age + complete_highschool + university +
    sum(ifelse(!is.na(subset(valid_age,valid_age$treat14==0|valid_age$treat14==1)$conf_parties),1,0))),
  c("conf_parl",
    summary(lm(conf_parl ~ treat14 * age + treat14 + male + age + complete_highschool + university + lab
    summary(lm(conf_parl ~ treat14 * age + treat14 + male + age + complete_highschool + university + lab
    sum(ifelse(!is.na(subset(valid_age,valid_age$treat14==0|valid_age$treat14==1)$conf_parl),1,0)))
)

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

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)

het_interact_age[,1] <-  c("Progress on corruption","Inclination to vote or protest","Invalid vote","Tru

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

het_interact_age
```

```
##                         Variable Effect    SE p Value   N
## 1         Progress on corruption  0.326 0.249   0.191 937
## 2 Inclination to vote or protest  0.278 0.096   0.004 897
## 3                   Invalid vote  0.116  0.11   0.292 913
## 4             Trust in judiciary  0.359 0.228   0.117 926
## 5               Trust in parties  0.148 0.212   0.485 938
## 6              Trust in congress   0.44 0.231   0.058 941
```

```r
##combine the output for the different subgroup analyses & interaction term:
COR_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

COR_het_age[1,1] <- het_age_1[1,1]
COR_het_age[2,1] <- ""
COR_het_age[3,1] <- het_age_1[2,1]
COR_het_age[4,1] <- ""
COR_het_age[5,1] <- het_age_1[3,1]
COR_het_age[6,1] <- ""
COR_het_age[7,1] <- het_age_1[4,1]
COR_het_age[8,1] <- ""
COR_het_age[9,1] <- het_age_1[5,1]
COR_het_age[10,1] <- ""
COR_het_age[11,1] <- het_age_1[6,1]
COR_het_age[12,1] <- ""
COR_het_age[13,1] <- "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]))

COR_het_age[13,2] <- "Young"
COR_het_age[1,2] <- ifelse(het_age_1[1,4]<0.1,paste0(het_age_1[1,2],"*"),het_age_1[1,2])
COR_het_age[1,2] <- ifelse(het_age_1[1,4]<0.05,paste0(het_age_1[1,2],"**"),COR_het_age[1,2])
COR_het_age[1,2] <- ifelse(het_age_1[1,4]<0.01,paste0(het_age_1[1,2],"***"),COR_het_age[1,2])

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

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

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

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

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

COR_het_age[2,2] <- paste0("(",het_age_1[1,3],")")
COR_het_age[4,2] <- paste0("(",het_age_1[2,3],")")
COR_het_age[6,2] <- paste0("(",het_age_1[3,3],")")
COR_het_age[8,2] <- paste0("(",het_age_1[4,3],")")
COR_het_age[10,2] <- paste0("(",het_age_1[5,3],")")
COR_het_age[12,2] <- paste0("(",het_age_1[6,3],")")
```

```
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]))

COR_het_age[13,3] <- "Old"
COR_het_age[1,3] <- ifelse(het_age_2[1,4]<0.1,paste0(het_age_2[1,2],"*"),het_age_2[1,2])
COR_het_age[1,3] <- ifelse(het_age_2[1,4]<0.05,paste0(het_age_2[1,2],"**"),COR_het_age[1,3])
COR_het_age[1,3] <- ifelse(het_age_2[1,4]<0.01,paste0(het_age_2[1,2],"***"),COR_het_age[1,3])

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

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

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

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

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

COR_het_age[2,3] <- paste0("(",het_age_2[1,3],")")
COR_het_age[4,3] <- paste0("(",het_age_2[2,3],")")
COR_het_age[6,3] <- paste0("(",het_age_2[3,3],")")
COR_het_age[8,3] <- paste0("(",het_age_2[4,3],")")
COR_het_age[10,3] <- paste0("(",het_age_2[5,3],")")
COR_het_age[12,3] <- paste0("(",het_age_2[6,3],")")

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]))

COR_het_age[13,4] <- "Interaction Term"
COR_het_age[1,4] <- ifelse(het_interact_age[1,4]<0.1,paste0(het_interact_age[1,2],"*"),het_interact_age
COR_het_age[1,4] <- ifelse(het_interact_age[1,4]<0.05,paste0(het_interact_age[1,2],"**"),COR_het_age[1,
COR_het_age[1,4] <- ifelse(het_interact_age[1,4]<0.01,paste0(het_interact_age[1,2],"***"),COR_het_age[1

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

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

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

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

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

COR_het_age[2,4] <- paste0("(",het_interact_age[1,3],")")
COR_het_age[4,4] <- paste0("(",het_interact_age[2,3],")")
COR_het_age[6,4] <- paste0("(",het_interact_age[3,3],")")
COR_het_age[8,4] <- paste0("(",het_interact_age[4,3],")")
COR_het_age[10,4] <- paste0("(",het_interact_age[5,3],")")
COR_het_age[12,4] <- paste0("(",het_interact_age[6,3],")")

COR_het_age
```

```
##                                V1        V2        V3              V4
## 1          Progress on corruption    -0.004    -0.225           0.326
## 2                                   (0.224)   (0.283)         (0.249)
## 3  Inclination to vote or protest    -0.099  -0.193**         0.278***
## 4                                   (0.081)   (0.097)         (0.096)
## 5                     Invalid vote    -0.147    0.231*           0.116
## 6                                   (0.099)   (0.124)          (0.11)
## 7              Trust in judiciary -0.552*** -0.807***           0.359
## 8                                    (0.21)   (0.273)         (0.228)
## 9                Trust in parties  -0.429**    -0.338           0.148
## 10                                  (0.188)   (0.251)         (0.212)
## 11              Trust in congress -0.539***    -0.347           0.44*
## 12                                  (0.204)   (0.279)         (0.231)
## 13                         Sample     Young       Old Interaction Term
```

```
#Table A20:
stargazer(as.matrix(COR_het_age), rownames=F, out="TableA20.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 - 11:07:16
## \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 corruption & -0.004 & -0.225 & 0.326 \\
##  & (0.224) & (0.283) & (0.249) \\
## Inclination to vote or protest & -0.099 & -0.193\textasteriskcentered \textasteriskcentered  & 0.278
##  & (0.081) & (0.097) & (0.096) \\
```

```
## Invalid vote & -0.147 & 0.231\textasteriskcentered  & 0.116 \\
##  & (0.099) & (0.124) & (0.11) \\
## Trust in judiciary & -0.552\textasteriskcentered \textasteriskcentered \textasteriskcentered  & -0.8
##  & (0.21) & (0.273) & (0.228) \\
## Trust in parties & -0.429\textasteriskcentered \textasteriskcentered  & -0.338 & 0.148 \\
##  & (0.188) & (0.251) & (0.212) \\
## Trust in congress & -0.539\textasteriskcentered \textasteriskcentered \textasteriskcentered  & -0.34
##  & (0.204) & (0.279) & (0.231) \\
## Sample & Young & Old & Interaction Term \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

```
###by past voting status:
###Table A19:

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

outcomes_voted_not_past <- 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(voted_not_past,voted_not_past$treat14==0|voted_not_past$treat14==1)$progco
  c("participation_willingness",
    summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + lab
    summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + lab
    sum(ifelse(!is.na(subset(voted_not_past,voted_not_past$treat14==0|voted_not_past$treat14==1)$partici
  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(voted_not_past,voted_not_past$treat14==0|voted_not_past$treat14==1)$vote_in
  c("conf_judge",
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + povert
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + povert
    sum(ifelse(!is.na(subset(voted_not_past,voted_not_past$treat14==0|voted_not_past$treat14==1)$conf_ju
  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(voted_not_past,voted_not_past$treat14==0|voted_not_past$treat14==1)$conf_pa
  c("conf_parl",
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverty
    sum(ifelse(!is.na(subset(voted_not_past,voted_not_past$treat14==0|voted_not_past$treat14==1)$conf_pa
)

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

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)
```

```r
het_voted_not_past <- as.data.frame(het_voted_not_past)

het_voted_not_past[,1] <- c("Progress on corruption","Inclination to vote or protest","Invalid vote","T

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 corruption  -0.04 0.396   0.919 307
## 2 Inclination to vote or protest -0.397 0.136   0.004 296
## 3                   Invalid vote -0.178 0.188   0.345 302
## 4             Trust in judiciary -0.892 0.355   0.013 308
## 5               Trust in parties -0.268 0.316   0.398 316
## 6              Trust in congress -0.363 0.364    0.32 314
```

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

outcomes_voted_past <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    summary(lm(progcorrupt ~ treat14 + male + age + complete_highschool + university + laborforce + pov
    sum(ifelse(!is.na(subset(voted_past,voted_past$treat14==0|voted_past$treat14==1)$progcorrupt),1,0))
  c("participation_willingness",
    summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + lab
    summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + lab
    sum(ifelse(!is.na(subset(voted_past,voted_past$treat14==0|voted_past$treat14==1)$participation_willi
  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(voted_past,voted_past$treat14==0|voted_past$treat14==1)$vote_invalid),1,0))
  c("conf_judge",
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + pover
    summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + pover
    sum(ifelse(!is.na(subset(voted_past,voted_past$treat14==0|voted_past$treat14==1)$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(voted_past,voted_past$treat14==0|voted_past$treat14==1)$conf_parties),1,0))
  c("conf_parl",
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverr
    summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + poverr
    sum(ifelse(!is.na(subset(voted_past,voted_past$treat14==0|voted_past$treat14==1)$conf_parl),1,0)))
)

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

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)
```

```r
het_voted_past <- as.data.frame(het_voted_past)

het_voted_past[,1] <-  c("Progress on corruption","Inclination to vote or protest","Invalid vote","Trust

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

het_voted_past
```

```
##                          Variable Effect    SE p Value   N
## 1         Progress on corruption -0.085 0.201   0.671 599
## 2 Inclination to vote or protest -0.075 0.072   0.301 582
## 3                   Invalid vote  0.006 0.082   0.945 589
## 4             Trust in judiciary  -0.63  0.19   0.001 591
## 5               Trust in parties -0.368 0.177   0.038 595
## 6              Trust in congress -0.553 0.186   0.003 596
```

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

outcomes_interact_voted_past <- rbind(
  c("progcorrupt",
    summary(lm(progcorrupt ~ treat14 * voted + treat14 + male + age + complete_highschool + university +
    summary(lm(progcorrupt ~ treat14 * voted + treat14 + male + age + complete_highschool + university +
    sum(ifelse(!is.na(subset(valid_voted_past,valid_voted_past$treat14==0|valid_voted_past$treat14==1)$p
  c("participation_willingness",
    summary(lm(participation_willingness ~ treat14 * voted + treat14 + male + age + complete_highschool
    summary(lm(participation_willingness ~ treat14 * voted + treat14 + male + age + complete_highschool
    sum(ifelse(!is.na(subset(valid_voted_past,valid_voted_past$treat14==0|valid_voted_past$treat14==1)$p
  c("vote_invalid",
    summary(lm(vote_invalid ~ treat14 * voted + treat14 + male + age + complete_highschool + university
    summary(lm(vote_invalid ~ treat14 * voted + treat14 + male + age + complete_highschool + university
    sum(ifelse(!is.na(subset(valid_voted_past,valid_voted_past$treat14==0|valid_voted_past$treat14==1)$v
  c("conf_judge",
    summary(lm(conf_judge ~ treat14 * voted + treat14 + male + age + complete_highschool + university +
    summary(lm(conf_judge ~ treat14 * voted + treat14 + male + age + complete_highschool + university +
    sum(ifelse(!is.na(subset(valid_voted_past,valid_voted_past$treat14==0|valid_voted_past$treat14==1)$c
  c("conf_parties",
    summary(lm(conf_parties ~ treat14 * voted + treat14 + male + age + complete_highschool + university
    summary(lm(conf_parties ~ treat14 * voted + treat14 + male + age + complete_highschool + university
    sum(ifelse(!is.na(subset(valid_voted_past,valid_voted_past$treat14==0|valid_voted_past$treat14==1)$c
  c("conf_parl",
    summary(lm(conf_parl ~ treat14 * voted + treat14 + male + age + complete_highschool + university + l
    summary(lm(conf_parl ~ treat14 * voted + treat14 + male + age + complete_highschool + university + l
    sum(ifelse(!is.na(subset(valid_voted_past,valid_voted_past$treat14==0|valid_voted_past$treat14==1)$c
)

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

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)
```

```r
het_interact_voted_past <- as.data.frame(het_interact_voted_past)

het_interact_voted_past[,1] <-  c("Progress on corruption","Inclination to vote or protest","Invalid vo

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 corruption  0.323  0.25   0.197 906
## 2 Inclination to vote or protest  0.275 0.096   0.004 878
## 3                   Invalid vote  0.107  0.11   0.331 891
## 4             Trust in judiciary  0.368 0.229    0.11 899
## 5               Trust in parties  0.161 0.212   0.447 911
## 6              Trust in congress  0.447 0.232   0.054 910
```

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

COR_het_voted_past[1,1] <- het_voted_not_past[1,1]
COR_het_voted_past[2,1] <- ""
COR_het_voted_past[3,1] <- het_voted_not_past[2,1]
COR_het_voted_past[4,1] <- ""
COR_het_voted_past[5,1] <- het_voted_not_past[3,1]
COR_het_voted_past[6,1] <- ""
COR_het_voted_past[7,1] <- het_voted_not_past[4,1]
COR_het_voted_past[8,1] <- ""
COR_het_voted_past[9,1] <- het_voted_not_past[5,1]
COR_het_voted_past[10,1] <- ""
COR_het_voted_past[11,1] <- het_voted_not_past[6,1]
COR_het_voted_past[12,1] <- ""
COR_het_voted_past[13,1] <- "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]))

COR_het_voted_past[13,2] <- "Previous Non Voters"
COR_het_voted_past[1,2] <- ifelse(het_voted_not_past[1,4]<0.1,paste0(het_voted_not_past[1,2],"*"),het_v
COR_het_voted_past[1,2] <- ifelse(het_voted_not_past[1,4]<0.05,paste0(het_voted_not_past[1,2],"**"),COR
COR_het_voted_past[1,2] <- ifelse(het_voted_not_past[1,4]<0.01,paste0(het_voted_not_past[1,2],"***"),CO

COR_het_voted_past[3,2] <- ifelse(het_voted_not_past[2,4]<0.1,paste0(het_voted_not_past[2,2],"*"),het_v
COR_het_voted_past[3,2] <- ifelse(het_voted_not_past[2,4]<0.05,paste0(het_voted_not_past[2,2],"**"),COR
COR_het_voted_past[3,2] <- ifelse(het_voted_not_past[2,4]<0.01,paste0(het_voted_not_past[2,2],"***"),CO

COR_het_voted_past[5,2] <- ifelse(het_voted_not_past[3,4]<0.1,paste0(het_voted_not_past[3,2],"*"),het_v
COR_het_voted_past[5,2] <- ifelse(het_voted_not_past[3,4]<0.05,paste0(het_voted_not_past[3,2],"**"),COR
COR_het_voted_past[5,2] <- ifelse(het_voted_not_past[3,4]<0.01,paste0(het_voted_not_past[3,2],"***"),CO

COR_het_voted_past[7,2] <- ifelse(het_voted_not_past[4,4]<0.1,paste0(het_voted_not_past[4,2],"*"),het_v
COR_het_voted_past[7,2] <- ifelse(het_voted_not_past[4,4]<0.05,paste0(het_voted_not_past[4,2],"**"),COR
COR_het_voted_past[7,2] <- ifelse(het_voted_not_past[4,4]<0.01,paste0(het_voted_not_past[4,2],"***"),CO
```

```
COR_het_voted_past[9,2] <- ifelse(het_voted_not_past[5,4]<0.1,paste0(het_voted_not_past[5,2],"*"),het_v
COR_het_voted_past[9,2] <- ifelse(het_voted_not_past[5,4]<0.05,paste0(het_voted_not_past[5,2],"**"),COR_
COR_het_voted_past[9,2] <- ifelse(het_voted_not_past[5,4]<0.01,paste0(het_voted_not_past[5,2],"***"),CO

COR_het_voted_past[11,2] <- ifelse(het_voted_not_past[6,4]<0.1,paste0(het_voted_not_past[6,2],"*"),het_
COR_het_voted_past[11,2] <- ifelse(het_voted_not_past[6,4]<0.05,paste0(het_voted_not_past[6,2],"**"),CO
COR_het_voted_past[11,2] <- ifelse(het_voted_not_past[6,4]<0.01,paste0(het_voted_not_past[6,2],"***"),C

COR_het_voted_past[2,2] <- paste0("(",het_voted_not_past[1,3],")")
COR_het_voted_past[4,2] <- paste0("(",het_voted_not_past[2,3],")")
COR_het_voted_past[6,2] <- paste0("(",het_voted_not_past[3,3],")")
COR_het_voted_past[8,2] <- paste0("(",het_voted_not_past[4,3],")")
COR_het_voted_past[10,2] <- paste0("(",het_voted_not_past[5,3],")")
COR_het_voted_past[12,2] <- paste0("(",het_voted_not_past[6,3],")")

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]))

COR_het_voted_past[13,3] <- "Previous Voters"
COR_het_voted_past[1,3] <- ifelse(het_voted_past[1,4]<0.1,paste0(het_voted_past[1,2],"*"),het_voted_pas
COR_het_voted_past[1,3] <- ifelse(het_voted_past[1,4]<0.05,paste0(het_voted_past[1,2],"**"),COR_het_vot
COR_het_voted_past[1,3] <- ifelse(het_voted_past[1,4]<0.01,paste0(het_voted_past[1,2],"***"),COR_het_vo

COR_het_voted_past[3,3] <- ifelse(het_voted_past[2,4]<0.1,paste0(het_voted_past[2,2],"*"),het_voted_pas
COR_het_voted_past[3,3] <- ifelse(het_voted_past[2,4]<0.05,paste0(het_voted_past[2,2],"**"),COR_het_vot
COR_het_voted_past[3,3] <- ifelse(het_voted_past[2,4]<0.01,paste0(het_voted_past[2,2],"***"),COR_het_vo

COR_het_voted_past[5,3] <- ifelse(het_voted_past[3,4]<0.1,paste0(het_voted_past[3,2],"*"),het_voted_pas
COR_het_voted_past[5,3] <- ifelse(het_voted_past[3,4]<0.05,paste0(het_voted_past[3,2],"**"),COR_het_vot
COR_het_voted_past[5,3] <- ifelse(het_voted_past[3,4]<0.01,paste0(het_voted_past[3,2],"***"),COR_het_vo

COR_het_voted_past[7,3] <- ifelse(het_voted_past[4,4]<0.1,paste0(het_voted_past[4,2],"*"),het_voted_pas
COR_het_voted_past[7,3] <- ifelse(het_voted_past[4,4]<0.05,paste0(het_voted_past[4,2],"**"),COR_het_vot
COR_het_voted_past[7,3] <- ifelse(het_voted_past[4,4]<0.01,paste0(het_voted_past[4,2],"***"),COR_het_vo

COR_het_voted_past[9,3] <- ifelse(het_voted_past[5,4]<0.1,paste0(het_voted_past[5,2],"*"),het_voted_pas
COR_het_voted_past[9,3] <- ifelse(het_voted_past[5,4]<0.05,paste0(het_voted_past[5,2],"**"),COR_het_vot
COR_het_voted_past[9,3] <- ifelse(het_voted_past[5,4]<0.01,paste0(het_voted_past[5,2],"***"),COR_het_vo

COR_het_voted_past[11,3] <- ifelse(het_voted_past[6,4]<0.1,paste0(het_voted_past[6,2],"*"),het_voted_pa
COR_het_voted_past[11,3] <- ifelse(het_voted_past[6,4]<0.05,paste0(het_voted_past[6,2],"**"),COR_het_vo
COR_het_voted_past[11,3] <- ifelse(het_voted_past[6,4]<0.01,paste0(het_voted_past[6,2],"***"),COR_het_v

COR_het_voted_past[2,3] <- paste0("(",het_voted_past[1,3],")")
COR_het_voted_past[4,3] <- paste0("(",het_voted_past[2,3],")")
COR_het_voted_past[6,3] <- paste0("(",het_voted_past[3,3],")")
COR_het_voted_past[8,3] <- paste0("(",het_voted_past[4,3],")")
COR_het_voted_past[10,3] <- paste0("(",het_voted_past[5,3],")")
COR_het_voted_past[12,3] <- paste0("(",het_voted_past[6,3],")")

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]))
```

```r
het_interact_voted_past[,4] <- as.numeric(as.character(het_interact_voted_past[,4]))

COR_het_voted_past[13,4] <- "Interaction Term"
COR_het_voted_past[1,4] <- ifelse(het_interact_voted_past[1,4]<0.1,paste0(het_interact_voted_past[1,2],'
COR_het_voted_past[1,4] <- ifelse(het_interact_voted_past[1,4]<0.05,paste0(het_interact_voted_past[1,2]
COR_het_voted_past[1,4] <- ifelse(het_interact_voted_past[1,4]<0.01,paste0(het_interact_voted_past[1,2]

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

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

COR_het_voted_past[7,4] <- ifelse(het_interact_voted_past[4,4]<0.1,paste0(het_interact_voted_past[4,2],'
COR_het_voted_past[7,4] <- ifelse(het_interact_voted_past[4,4]<0.05,paste0(het_interact_voted_past[4,2]
COR_het_voted_past[7,4] <- ifelse(het_interact_voted_past[4,4]<0.01,paste0(het_interact_voted_past[4,2]

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

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

COR_het_voted_past[2,4] <- paste0("(",het_interact_voted_past[1,3],")")
COR_het_voted_past[4,4] <- paste0("(",het_interact_voted_past[2,3],")")
COR_het_voted_past[6,4] <- paste0("(",het_interact_voted_past[3,3],")")
COR_het_voted_past[8,4] <- paste0("(",het_interact_voted_past[4,3],")")
COR_het_voted_past[10,4] <- paste0("(",het_interact_voted_past[5,3],")")
COR_het_voted_past[12,4] <- paste0("(",het_interact_voted_past[6,3],")")

COR_het_voted_past
```

```
##                                V1                 V2             V3
## 1          Progress on corruption              -0.04         -0.085
## 2                                             (0.396)        (0.201)
## 3  Inclination to vote or protest          -0.397***         -0.075
## 4                                             (0.136)        (0.072)
## 5                    Invalid vote             -0.178          0.006
## 6                                             (0.188)        (0.082)
## 7              Trust in judiciary           -0.892**        -0.63***
## 8                                             (0.355)         (0.19)
## 9                Trust in parties             -0.268        -0.368**
## 10                                            (0.316)        (0.177)
## 11              Trust in congress             -0.363       -0.553***
## 12                                            (0.364)        (0.186)
## 13                         Sample Previous Non Voters Previous Voters
##                  V4
## 1             0.323
## 2            (0.25)
## 3          0.275***
```

```
## 4           (0.096)
## 5             0.107
## 6            (0.11)
## 7             0.368
## 8           (0.229)
## 9             0.161
## 10          (0.212)
## 11           0.447*
## 12          (0.232)
## 13 Interaction Term
```

```
#Table A19:
stargazer(as.matrix(COR_het_voted_past), rownames=F, out="TableA19.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 - 11:07:17
## \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 corruption & -0.04 & -0.085 & 0.323 \\
##  & (0.396) & (0.201) & (0.25) \\
## Inclination to vote or protest & -0.397\textasteriskcentered \textasteriskcentered \textasteriskcente
##  & (0.136) & (0.072) & (0.096) \\
## Invalid vote & -0.178 & 0.006 & 0.107 \\
##  & (0.188) & (0.082) & (0.11) \\
## Trust in judiciary & -0.892\textasteriskcentered \textasteriskcentered  & -0.63\textasteriskcentered
##  & (0.355) & (0.19) & (0.229) \\
## Trust in parties & -0.268 & -0.368\textasteriskcentered \textasteriskcentered  & 0.161 \\
##  & (0.316) & (0.177) & (0.212) \\
## Trust in congress & -0.363 & -0.553\textasteriskcentered \textasteriskcentered \textasteriskcentered
##  & (0.364) & (0.186) & (0.232) \\
## Sample & Previous Non Voters & Previous Voters & Interaction Term \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

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

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

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

  outcomes_temp <- rbind(
    c("progcorrupt",
      summary(lm(progcorrupt ~ treat14 + male + age + complete_highschool + university + laborforce + po
      summary(lm(progcorrupt ~ treat14 + male + age + complete_highschool + university + laborforce + po
      sum(ifelse(!is.na(subset(COR_temp,COR_temp$treat14==0|COR_temp$treat14==1)$progcorrupt),1,0))),
```

```
    c("participation_willingness",
      summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + l
      summary(lm(participation_willingness ~ treat14 + male + age + complete_highschool + university + l
      sum(ifelse(!is.na(subset(COR_temp,COR_temp$treat14==0|COR_temp$treat14==1)$participation_willingne
    c("vote_invalid",
      summary(lm(vote_invalid ~ treat14 + male + age + complete_highschool + university + laborforce + p
      summary(lm(vote_invalid ~ treat14 + male + age + complete_highschool + university + laborforce + p
      sum(ifelse(!is.na(subset(COR_temp,COR_temp$treat14==0|COR_temp$treat14==1)$vote_invalid),1,0))),
    c("conf_judge",
      summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + pov
      summary(lm(conf_judge ~ treat14 + male + age + complete_highschool + university + laborforce + pov
      sum(ifelse(!is.na(subset(COR_temp,COR_temp$treat14==0|COR_temp$treat14==1)$conf_judge),1,0))),
    c("conf_parties",
      summary(lm(conf_parties ~ treat14 + male + age + complete_highschool + university + laborforce + p
      summary(lm(conf_parties ~ treat14 + male + age + complete_highschool + university + laborforce + p
      sum(ifelse(!is.na(subset(COR_temp,COR_temp$treat14==0|COR_temp$treat14==1)$conf_parties),1,0))),
    c("conf_parl",
      summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + pove
      summary(lm(conf_parl ~ treat14 + male + age + complete_highschool + university + laborforce + pove
      sum(ifelse(!is.na(subset(COR_temp,COR_temp$treat14==0|COR_temp$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 corruption","Inclination to vote or protest","Invalid vote","Trust in

  table_sens <- cbind(rep(unique(as.character(COR$reg))[i],6),table_sens)

  COR_sensitivity_province[c((i*6-5):(i*6)),] <- table_sens
}

COR_sensitivity_province
```

```
##    ProvinceDropped                       Variable              Effect
## 1     CR: San José         Progress on corruption   0.570628471662139
## 2     CR: San José Inclination to vote or protest -0.0289070339642152
## 3     CR: San José                     Invalid vote  -0.228356849093769
## 4     CR: San José              Trust in judiciary  -0.169109148820513
## 5     CR: San José                Trust in parties   0.329584171651408
## 6     CR: San José               Trust in congress   0.222120899040456
## 7     CR: Alajuela         Progress on corruption  -0.133319787560785
## 8     CR: Alajuela Inclination to vote or protest  -0.147644617707105
## 9     CR: Alajuela                     Invalid vote 0.00245498066250174
## 10    CR: Alajuela              Trust in judiciary  -0.684907077581059
## 11    CR: Alajuela                Trust in parties   -0.55691608824714
## 12    CR: Alajuela               Trust in congress  -0.716039429932038
## 13     CR: Cartago         Progress on corruption  -0.173562492534974
## 14     CR: Cartago Inclination to vote or protest  -0.145858049263911
## 15     CR: Cartago                     Invalid vote -0.0193594136567685
## 16     CR: Cartago              Trust in judiciary  -0.708383500603752
## 17     CR: Cartago                Trust in parties   -0.35275935391742
## 18     CR: Cartago               Trust in congress  -0.410732291595194
## 19     CR: Heredia         Progress on corruption -0.0754958907934926
```

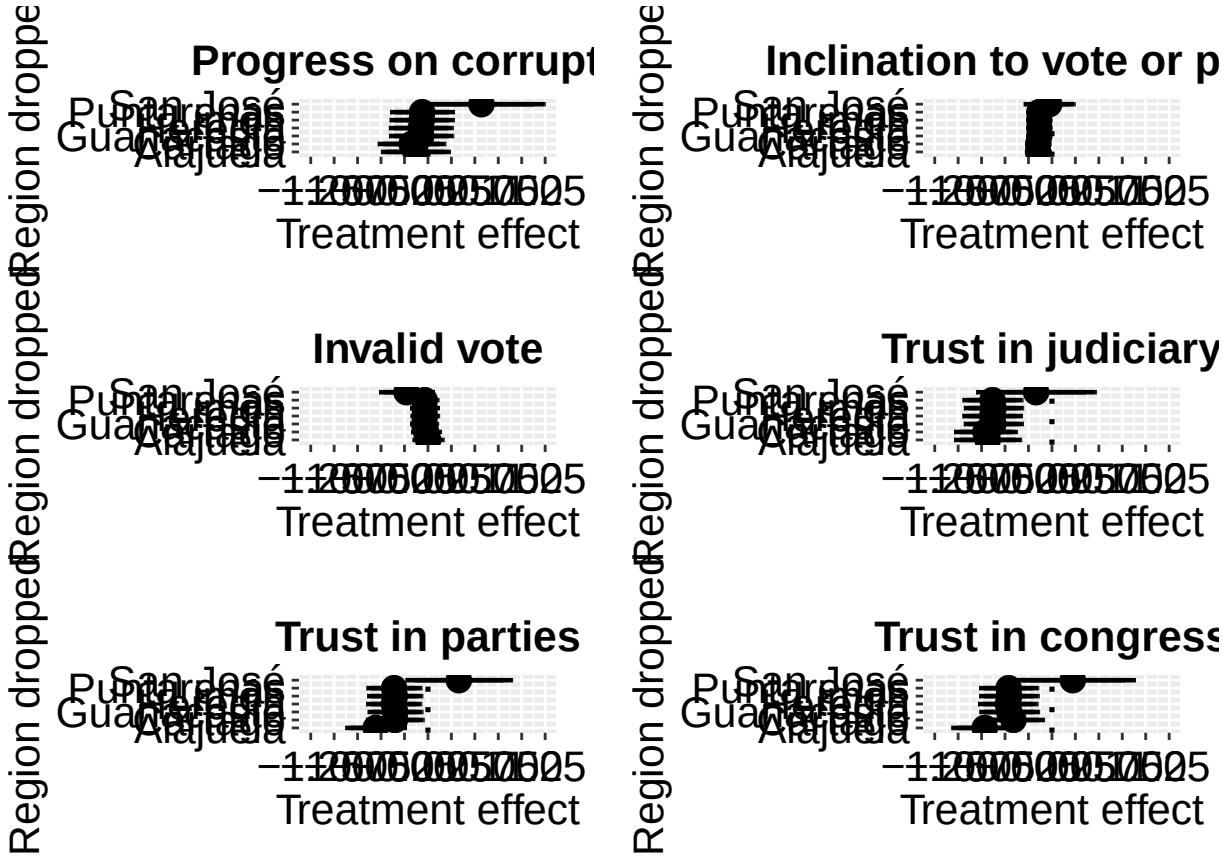
```
## 20     CR: Heredia Inclination to vote or protest  -0.133969186130695
## 21     CR: Heredia                   Invalid vote  -0.031859060744018
## 22     CR: Heredia             Trust in judiciary  -0.636770779040777
## 23     CR: Heredia               Trust in parties  -0.364051154156832
## 24     CR: Heredia              Trust in congress  -0.469807403566052
## 25  CR: Guanacaste         Progress on corruption -0.0716122653197428
## 26  CR: Guanacaste Inclination to vote or protest  -0.134477886866621
## 27  CR: Guanacaste                   Invalid vote -0.0396666574910996
## 28  CR: Guanacaste             Trust in judiciary  -0.624504485726337
## 29  CR: Guanacaste               Trust in parties  -0.349784912569377
## 30  CR: Guanacaste              Trust in congress  -0.454202492263694
## 31  CR: Puntarenas         Progress on corruption -0.0620620277756164
## 32  CR: Puntarenas Inclination to vote or protest  -0.133928806099557
## 33  CR: Puntarenas                   Invalid vote  -0.035374833431041
## 34  CR: Puntarenas             Trust in judiciary  -0.633206465558986
## 35  CR: Puntarenas               Trust in parties  -0.360998863630154
## 36  CR: Puntarenas              Trust in congress  -0.461727520442108
## 37       CR: Limón         Progress on corruption -0.0656086427319123
## 38       CR: Limón Inclination to vote or protest  -0.134552360309056
## 39       CR: Limón                   Invalid vote -0.0365244015625183
## 40       CR: Limón             Trust in judiciary  -0.622634364410579
## 41       CR: Limón               Trust in parties  -0.352879766505943
## 42       CR: Limón              Trust in congress  -0.456750036828791
##                    SE                pValue   N
## 1   0.344494340243785   0.0982452075000678 606
## 2   0.138744996320185    0.835044127768192 576
## 3   0.149726357466933    0.127847351454942 587
## 4   0.325240227040067    0.603322096495879 601
## 5   0.289840150040061    0.256013229595457 607
## 6   0.338379533118763    0.511843112084455 608
## 7   0.187672261595837    0.477715221935081 768
## 8  0.0688070481059603   0.0322662070253821 732
## 9   0.084416360519459    0.976808310208387 743
## 10  0.182228789753883 0.000186243424621061 755
## 11  0.164882666398114 0.000773833552216538 766
## 12  0.181391833454209  8.7432631233933e-05 767
## 13  0.184097688460655    0.346103839426775 843
## 14  0.065216282932515   0.0256243701872342 805
## 15 0.0812927223642235    0.811836228204104 819
## 16  0.170816995914123 3.76014298793298e-05 835
## 17  0.157160343972687   0.0250864944972385 846
## 18  0.166647880213477   0.0139375821499573 850
## 19  0.173994977271206    0.664490772967243 840
## 20  0.059861966756928    0.025532864963997 807
## 21 0.0774230908077066      0.6808331848227 822
## 22  0.161689715297598 8.99864644258802e-05 827
## 23  0.150224968945764   0.0156166259935881 839
## 24  0.162134964238134  0.00387145161926706 841
## 25  0.174795132420984    0.682147545566114 868
## 26 0.0613241203912018    0.028629138080505 827
## 27 0.0759872359320822    0.601814027810144 846
## 28  0.160703359404324 0.000110868081969228 859
## 29  0.149211144295638   0.0193224697984802 870
## 30  0.162240664962318   0.0052463216426281 875
```

```
## 31  0.173731424918659    0.721022804181326 839
## 32 0.0618447795799822   0.0306745023960862 813
## 33 0.0756559077590231    0.640229818189253 822
## 34  0.163197762088764 0.000113955885965989 829
## 35   0.15002311958819    0.016361039461955 840
## 36  0.161087210154744  0.00427128113241468 843
## 37  0.174695194315516    0.707350733444457 858
## 38 0.0610430758136997   0.0278241028758664 822
## 39  0.078845571657292    0.643330233985443 839
## 40  0.161392772812656 0.000124358403906212 850
## 41  0.149799069757509   0.0187456677742192 860
## 42  0.161631225434101  0.00484068341917783 862
```

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

COR_sensitivity_province$ProvinceDropped[COR_sensitivity_province$ProvinceDropped=="CR: San José"] <- "S
COR_sensitivity_province$ProvinceDropped[COR_sensitivity_province$ProvinceDropped=="CR: Alajuela"] <- "A
COR_sensitivity_province$ProvinceDropped[COR_sensitivity_province$ProvinceDropped=="CR: Cartago"] <- "Ca
COR_sensitivity_province$ProvinceDropped[COR_sensitivity_province$ProvinceDropped=="CR: Heredia"] <- "He
COR_sensitivity_province$ProvinceDropped[COR_sensitivity_province$ProvinceDropped=="CR: Guanacaste"] <-
COR_sensitivity_province$ProvinceDropped[COR_sensitivity_province$ProvinceDropped=="CR: Puntarenas"] <-
COR_sensitivity_province$ProvinceDropped[COR_sensitivity_province$ProvinceDropped=="CR: Limón"] <- "Limo

q1 <- ggplot(subset(COR_sensitivity_province,Variable=="Progress on corruption"), aes(y=Effect,x=Provinc
  ggtitle("Progress on 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(-1.25,-1,-0.75,-0.5,-0.25,0,0.25,0.5,0.75,1,1.25), limits=c(-1.25,1.25))+
  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(COR_sensitivity_province,Variable=="Inclination to vote or protest"), aes(y=Effect,x
  ggtitle("Inclination to vote or protest")+
  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(-1.25,-1,-0.75,-0.5,-0.25,0,0.25,0.5,0.75,1,1.25), limits=c(-1.25,1.25))+
  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(COR_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(-1.25,-1,-0.75,-0.5,-0.25,0,0.25,0.5,0.75,1,1.25), limits=c(-1.25,1.25))+
  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(COR_sensitivity_province,Variable=="Trust in judiciary"), aes(y=Effect,x=ProvinceDro
  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(-1.25,-1,-0.75,-0.5,-0.25,0,0.25,0.5,0.75,1,1.25), limits=c(-1.25,1.25))+
  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(COR_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(-1.25,-1,-0.75,-0.5,-0.25,0,0.25,0.5,0.75,1,1.25), limits=c(-1.25,1.25))+
  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(COR_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(-1.25,-1,-0.75,-0.5,-0.25,0,0.25,0.5,0.75,1,1.25), limits=c(-1.25,1.25))+
  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()

COR_sensitivity_graph <- grid.arrange(q1, q2, q3, q4, q5, q6, ncol = 2)
```




```
ggsave("FigureA6.pdf", plot = COR_sensitivity_graph, width = 18, height = 15)
```