/\*\*\*\*\*\*\*\*\*\*

\* ortho\_prac aes

\*\*\*\*\*\*\*\*\*\*\*/

/\* First preserve between aes calculations \*/

preserve

/\* Set up macros \*/

local comp\_type = "replace"

local rmean\_type = "append"

local irmean\_type = "append"

/\* Create normalized effect estimates \*/

local counter = 1

gen flag = 1

foreach y in x\_s14aq1 x\_s14aq3 x\_s14aq4 x\_s14aq5 x\_s14aq6 x\_s14bq2 x\_s14aq8 x\_s14aq9 x\_s14aq12 x\_s14aq13 {

sum `y' if success==0

local nm`counter' = 1/r(sd)

local comp\_sd = r(sd)

local comp\_mean = r(mean)

gen n\_`y' = `y' / r(sd)

replace flag = . if `y' == .

sum `y' if success==1

local itt\_sd = r(sd)

gen aes`counter' = `y'

local counter = `counter' + 1

ivreg `y' (hajj2006 = success) \_x\_\*, cluster(clusterid)

\*outreg using /disk/homes2d/nber/clinging/Hajj/R1\_Analysis/tmp/paper\_results/appendix/ortho\_prac.out, coe pvalue 3aster addstat("Comparison Mean",`comp\_mean',"Comparison S.D.",`comp\_sd',"ITT S.D.",`itt\_sd') `comp\_type'

local comp\_type = "append"

}

/\* Handle rmean calclation here \*/

egen ortho\_prac\_rmean = rmean(n\_x\_s14aq1 n\_x\_s14aq3 n\_x\_s14aq4 n\_x\_s14aq5 n\_x\_s14aq6 n\_x\_s14bq2 n\_x\_s14aq8 n\_x\_s14aq9 n\_x\_s14aq12 n\_x\_s14aq13)

sum ortho\_prac\_rmean if success==0

local comp\_sd = r(sd)

local comp\_mean = r(mean)

sum ortho\_prac\_rmean if success == 1

local itt\_sd = r(sd)

ivreg ortho\_prac\_rmean (hajj2006 = success) \_x\_\*, cluster(clusterid)

\*outreg using /disk/homes2d/nber/clinging/Hajj/R1\_Analysis/tmp/paper\_results/rmean/base/religion.out, coef se 3aster addstat("Comparison Mean",`comp\_mean',"Comparison S.D.",`comp\_sd',"ITT S.D.",`itt\_sd') `rmean\_type'

\*outreg using /disk/homes2d/nber/clinging/Hajj/R1\_Analysis/tmp/paper\_results/rmean/base/religion.out, coef se 3aster addstat("Comparison Mean",`comp\_mean',"Comparison S.D.",`comp\_sd',"ITT S.D.",`itt\_sd') append

/\* Now handle the IRmean results \*/

foreach y in x\_s14aq1 x\_s14aq3 x\_s14aq4 x\_s14aq5 x\_s14aq6 x\_s14bq2 x\_s14aq8 x\_s14aq9 x\_s14aq12 x\_s14aq13 {

gen i`y' = `y' \* flag

sum `y' if success == 0

local sd = r(sd)

replace i`y' = i`y' / `sd'

}

egen ortho\_prac\_irmean = rmean(ix\_s14aq1 ix\_s14aq3 ix\_s14aq4 ix\_s14aq5 ix\_s14aq6 ix\_s14bq2 ix\_s14aq8 ix\_s14aq9 ix\_s14aq12 ix\_s14aq13)

sum ortho\_prac\_irmean if success==0

local comp\_sd = r(sd)

local comp\_mean = r(mean)

sum ortho\_prac\_irmean if success == 1

local itt\_sd = r(sd)

ivreg ortho\_prac\_irmean (hajj2006 = success) \_x\_\*, cluster(clusterid)

\*outreg using /disk/homes2d/nber/clinging/Hajj/R1\_Analysis/tmp/paper\_results/irmean/base/religion.out, coef se 3aster addstat("Comparison Mean",`comp\_mean',"Comparison S.D.",`comp\_sd',"ITT S.D.",`itt\_sd') `irmean\_type'

/\* Next reshape long \*/

reshape long aes, i(hhid persid) j(out)

label variable aes "ortho\_prac"

/\* Prepare for the regressions by forming interactions \*/

xi i.hajj2006\*i.out i.success\*i.out

gen \_Iout\_1 = 0

replace \_Iout\_1 = 1 if out == 1

gen \_IhajXout\_1\_1 = \_Ihajj2006\_1\*\_Iout\_1

gen \_IsucXout\_1\_1 = \_Isuccess\_1\*\_Iout\_1

/\* Construct the outcome \_x\_\* interactions \*/

forvalues z = 1/35 {

gen \_IoutX\_x\_1\_`z' = \_Iout\_1 \* \_x\_`z'

gen \_IoutX\_x\_2\_`z' = \_Iout\_2 \* \_x\_`z'

gen \_IoutX\_x\_3\_`z' = \_Iout\_3 \* \_x\_`z'

gen \_IoutX\_x\_4\_`z' = \_Iout\_4 \* \_x\_`z'

gen \_IoutX\_x\_5\_`z' = \_Iout\_5 \* \_x\_`z'

gen \_IoutX\_x\_6\_`z' = \_Iout\_6 \* \_x\_`z'

gen \_IoutX\_x\_7\_`z' = \_Iout\_7 \* \_x\_`z'

gen \_IoutX\_x\_8\_`z' = \_Iout\_8 \* \_x\_`z'

gen \_IoutX\_x\_9\_`z' = \_Iout\_9 \* \_x\_`z'

gen \_IoutX\_x\_10\_`z' = \_Iout\_10 \* \_x\_`z'

}

/\* Now run reg and calculate aes \*/

ivreg aes (\_IhajXout\* = \_IsucXout\*) \_Iout\*, cluster(clusterid) noconstant

local avg\_n = e(N) / (9 + 1)

\*outreg \_IhajXout\* using /disk/homes2d/nber/clinging/Hajj/R1\_Analysis/tmp/paper\_results/sure/ortho\_prac.out, nonobs coef pvalue addstat("Avg N",`avg\_n') addnote("x\_s14aq1","x\_s14aq3","x\_s14aq4","x\_s14aq5","x\_s14aq6","x\_s14bq2","x\_s14aq8","x\_s14aq9","x\_s14aq12","x\_s14aq13") replace

/\* With weighting \*/

lincom((`nm1'\*\_IhajXout\_1\_1 + `nm2'\*\_IhajXout\_1\_2 + `nm3'\*\_IhajXout\_1\_3 + `nm4'\*\_IhajXout\_1\_4 + `nm5'\*\_IhajXout\_1\_5 + `nm6'\*\_IhajXout\_1\_6 + `nm7'\*\_IhajXout\_1\_7 + `nm8'\*\_IhajXout\_1\_8 + `nm9'\*\_IhajXout\_1\_9 + `nm10'\*\_IhajXout\_1\_10) / 10)

/\* Without weighting \*/

lincom((\_IhajXout\_1\_1 + \_IhajXout\_1\_2 + \_IhajXout\_1\_3 + \_IhajXout\_1\_4 + \_IhajXout\_1\_5 + \_IhajXout\_1\_6 + \_IhajXout\_1\_7 + \_IhajXout\_1\_8 + \_IhajXout\_1\_9 + \_IhajXout\_1\_10) / 10)

/\* Restore before moving on \*/

restore