Summary of useful Stata commands with RD studies

(pctfor is the running variable, levypass is treatment dummy)

General RD regression:

rdrobust comnewconstruction\_lead1 pctfor , p(1) q(2) c(0.5) kernel (uni) bwselect(mserd) covs (pop poverty pctsinparhhld medfamy unemprate pctlt5 pct5to17 pct18to64 pctmin pctnevermarr pctseparated pctdivorced lforcepartrate) vce(nn 3) all

Seemingly unrelated regression:

sureg (poverty levypass pctfor) (pctsinparhhld levypass pctfor) (medfamy levypass pctfor) (unemprate levypass pctfor) (pctrent levypass pctfor) (pctlt5 levypass pctfor) (pct5to17 levypass pctfor) (pct18to64 levypass pctfor) (pctmin levypass pctfor) (pctnevermarr levypass pctfor) (pctseparated levypass pctfor) (pctdivorced levypass pctfor) (lforcepartrate levypass pctfor)

add post-estimation command:

test (levypass)

covariate similarity within effective bandwidth:

drop if pctfor > 0.56

drop if pctfor < 0.44

sort levypass

by levypass: summarize poverty pctsinparhhld

density test (no precise control):  
rddensity pctfor, c(0.5) p(1) q(2) kernel(triangular) plot

placebo cutoff:

rdrobust comnewconstruction\_lead1 pctfor , p(1) q(2) c(0.57) kernel (uni) bwselect(mserd) covs (pop poverty pctsinparhhld medfamy unemprate pctlt5 pct5to17 pct18to64 pctmin pctnevermarr pctseparated pctdivorced lforcepartrate) vce(nn 3) all

test for confounding factors:

rdrobust comnewconstruction\_lag1 pctfor , p(1) q(2) c(0.5) kernel (uni) bwselect(mserd) covs (pop poverty pctsinparhhld medfamy unemprate pctlt5 pct5to17 pct18to64 pctmin pctnevermarr pctseparated pctdivorced lforcepartrate) vce(nn 3) all

test for covariate smoothness:

rdrobust poverty pctfor , p(1) q(2) c(0.5) kernel (uni) bwselect(mserd)

(could also do with poverty\_lead1, I’m re-thinking about best way to run this test, maybe you have some thoughts)