**Supplemental material 1. Stata® codes.**

\* CLUSTER = single random intercept cluster variable

\* DV = dependent variable

\* IV = independent variable

\* Restrict analysis to at least 10 individuals per cluster (Hox 2010)

egen ncl=group(CLUSTER)

lab var ncl "Nb individuals per cluster"

\* Run the multilevel logit model. Here, SE are robust (vce() option)

melogit DV IV1 IV2 IV3... if ncl>9 || CLUSTER :, vce(r)

\* Request fixed and random effects

predict fe, xb

predict re, reffects reses(rese)

\* Note: fixed and random effects can be jointly estimated by:

\* predict fere, eta

\* Retrieve variance of RE effects

\* Level-1 variance (logistic)

scalar tau1=c(pi)^2/3

\* Level-2 variance (model)

scalar tau2=\_b[var(\_cons[CLUSTER]):\_cons]

\* Calculate the FE and the FE+RE geometric estimators - central estimate

g gfc=1/(exp(fe)) if pdu==1 & ncl>9

lab var gfc "FE only censored geometric - central estimate"

g grc=1/(exp(fe+re)) if ncl>9

lab var grc "FE+RE censored geometric - central estimate"

quiet total grc, cformat(%9.0f)

mat G=r(table)

\* Output - CL method 1

dis as text "Central estimate:" as result %9.0f G[1,1]

dis as text "Lower limit (m1):" as result %9.0f G[1,1]-1.96\*sqrt(G[1,1]^2+e(N)^2\*(tau1+tau2)) as text "Upper limit (m1):" as result %9.0f G[1,1]+1.96\*sqrt(G[1,1]^2+e(N)^2\*(tau1+tau2))

\* Note: if overly conservative CL then switch to method 2

\* Output - CL method 2

dis as text "Central estimate:" as result %9.0f G[1,1]

dis as text "Lower limit (m2):" as result %9.0f G[1,1]-1.96\*sqrt(G[1,1]^2/e(N)\*(tau1+tau2)) as text "Upper limit (m2):" as result %9.0f G[1,1]+1.96\*sqrt(G[1,1]^2/e(N)\*(tau1+tau2))