Appendix 2 Stata do-files for analysis:

\*\*mild\*

\*baseline

gen baseline\_var =(baseline\*(1-baseline))

gen baseline\_lowerCI= baseline-(1.96\*sqrt(baseline\_var/n\_pre))

gen baseline\_upperCI= baseline+(1.96\*sqrt(baseline\_var/n\_pre))

\*final

gen final\_var = (final\*(1-final))

gen final\_lowerCI= final-(1.96\*sqrt(final\_var/n\_post))

gen final\_upperCI= final+(1.96\*sqrt(final\_var/n\_post))

\*pool

gen pool\_var = ((baseline\_var\*(n\_pre-1))/(n\_pre+n\_post))+((final\_var \*(n\_post-1))/(n\_pre+n\_post))

\*additional ci

gen additional = final-baseline

gen additional\_lowerCI = (final-baseline)-(1.96\*sqrt((pool\_var)/(n\_post+n\_pre)))

gen additional\_upperCI = (final-baseline)+(1.96\*sqrt((pool\_var)/(n\_post+n\_pre)))

metan additional additional\_lowerCI additional\_upperCI, wgt(sum\_n) label(namevar==Study) random title(Anxiety and Depression (mild))

metan additional additional\_lowerCI additional\_upperCI, wgt(sum\_n) by(Country) label(namevar==Study) random title(Anxiety and Depression (mild) by country)

\*severe

\*baseline

gen severe\_baseline\_var =(severe\_baseline\*(1-severe\_baseline))

gen severe\_baseline\_lowerCI= severe\_baseline-(1.96\*sqrt(severe\_baseline\_var)/severe\_n\_pre)

gen severe\_baseline\_upperCI= severe\_baseline+(1.96\*sqrt(severe\_baseline\_var)/severe\_n\_pre)

\*final

gen severe\_final\_var = (severe\_final\*(1-severe\_final))

gen severe\_final\_lowerCI= severe\_final-(1.96\*sqrt(severe\_final\_var)/severe\_n\_post)

 gen severe\_final\_upperCI= severe\_final+(1.96\*sqrt(severe\_final\_var)/severe\_n\_post)

\*pool

gen severe\_pool\_var = ((severe\_baseline\_var\*(severe\_n\_pre-1))/(severe\_n\_pre+severe\_n\_post))+((severe\_final\_var \*(severe\_n\_post-1))/(severe\_n\_pre+severe\_n\_post))

\*additional ci

gen severe\_additional = severe\_final-severe\_baseline

gen severe\_additional\_lowerCI = (severe\_final-severe\_baseline)-(1.96\*sqrt((severe\_pool\_var)/(severe\_n\_post+severe\_n\_pre)))

gen severe\_additional\_upperCI = (severe\_final-severe\_baseline)+(1.96\*sqrt((severe\_pool\_var)/(severe\_n\_post+severe\_n\_pre)))

\*change in %

gen severe\_additionalinper = severe\_additional\*0.1

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, wgt(sum\_n) label(namevar==Study) random title(Anxiety and Depression (severe))

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, wgt(sum\_n) by(Country) label(namevar==Study) random title(Anxiety and Depression (severe) by country)

 clear

 \*rq1 depression

list Study n\_post n\_pre

\*\*mild\*

\*baseline

gen baseline\_var =(baseline\*(1-baseline))

gen baseline\_lowerCI= baseline-(1.96\*sqrt(baseline\_var/n\_pre))

gen baseline\_upperCI= baseline+(1.96\*sqrt(baseline\_var/n\_pre))

\*final

gen final\_var = (final\*(1-final))

gen final\_lowerCI= final-(1.96\*sqrt(final\_var/n\_post))

 gen final\_upperCI= final+(1.96\*sqrt(final\_var/n\_post))

\*pool

gen pool\_var = ((baseline\_var\*(n\_pre-1))/(n\_pre+n\_post))+((final\_var \*(n\_post-1))/(n\_pre+n\_post))

\*additional ci

gen additional = final-baseline

gen additional\_lowerCI = (final-baseline)-(1.96\*sqrt((pool\_var)/(n\_post+n\_pre)))

gen additional\_upperCI = (final-baseline)+(1.96\*sqrt((pool\_var)/(n\_post+n\_pre)))

\*change in %

gen additionalinper = additional\*0.1

metan additional additional\_lowerCI additional\_upperCI, wgt(sum\_n) label(namevar==Study) random title(Depression (mild))

metan additional additional\_lowerCI additional\_upperCI, wgt(sum\_n) by(Country) label(namevar==Study) random title(Depression (mild) by country)

\*severe

\*baseline

gen severe\_baseline\_var =(severe\_baseline\*(1-severe\_baseline))

gen severe\_baseline\_lowerCI= severe\_baseline-(1.96\*sqrt(severe\_baseline\_var)/severe\_n\_pre)

gen severe\_baseline\_upperCI= severe\_baseline+(1.96\*sqrt(severe\_baseline\_var)/severe\_n\_pre)

\*final

gen severe\_final\_var = (severe\_final\*(1-severe\_final))

gen severe\_final\_lowerCI= severe\_final-(1.96\*sqrt(severe\_final\_var)/severe\_n\_post)

 gen severe\_final\_upperCI= severe\_final+(1.96\*sqrt(severe\_final\_var)/severe\_n\_post)

\*pool

gen severe\_pool\_var = ((severe\_baseline\_var\*(severe\_n\_pre-1))/(severe\_n\_pre+severe\_n\_post))+((severe\_final\_var \*(severe\_n\_post-1))/(severe\_n\_pre+severe\_n\_post))

\*additional ci

gen severe\_additional = severe\_final-severe\_baseline

gen severe\_additional\_lowerCI = (severe\_final-severe\_baseline)-(1.96\*sqrt((severe\_pool\_var)/(severe\_n\_post+severe\_n\_pre)))

gen severe\_additional\_upperCI = (severe\_final-severe\_baseline)+(1.96\*sqrt((severe\_pool\_var)/(severe\_n\_post+severe\_n\_pre)))

\*change in %

gen severe\_additionalinper = severe\_additional\*0.1

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, wgt(sum\_n) label(namevar==Study) random title(Depression (severe))

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, wgt(sum\_n) by(Country) label(namevar==Study) random title(Depression (severe) by country)

\*\*mild\*

\*baseline

gen baseline\_var =(baseline\*(1-baseline))

gen baseline\_lowerCI= baseline-(1.96\*sqrt(baseline\_var)/n\_pre)

gen baseline\_upperCI= baseline+(1.96\*sqrt(baseline\_var)/n\_pre)

\*final

gen final\_var = (final\*(1-final))

gen final\_lowerCI= final-(1.96\*sqrt(final\_var)/n\_post)

gen final\_upperCI= final+(1.96\*sqrt(final\_var)/n\_post)

\*pool

gen pool\_var = ((baseline\_var\*(n\_pre-1))/(n\_pre+n\_post))+((final\_var \*(n\_post-1))/(n\_pre+n\_post))

\*additional ci

gen additional = final-baseline

gen additional\_lowerCI = (final-baseline)-(1.96\*sqrt((pool\_var)/(n\_post+n\_pre)))

gen additional\_upperCI = (final-baseline)+(1.96\*sqrt((pool\_var)/(n\_post+n\_pre)))

\*change in %

gen additionalinper = additional\*0.1

metan additional additional\_lowerCI additional\_upperCI, wgt(sum\_n) label(namevar==Study) random title(Anxiety (mild))

metan additional additional\_lowerCI additional\_upperCI, wgt(sum\_n) by(Country) label(namevar==Study) random title(Anxiety (mild) by country)

\*severe

\*baseline

gen severe\_baseline\_var =(severe\_baseline\*(1-severe\_baseline))

gen severe\_baseline\_lowerCI= severe\_baseline-(1.96\*sqrt(severe\_baseline\_var)/severe\_n\_pre)

gen severe\_baseline\_upperCI= severe\_baseline+(1.96\*sqrt(severe\_baseline\_var)/severe\_n\_pre)

\*final

gen severe\_final\_var = (severe\_final\*(1-severe\_final))

gen severe\_final\_lowerCI= severe\_final-(1.96\*sqrt(severe\_final\_var)/severe\_n\_post)

 gen severe\_final\_upperCI= severe\_final+(1.96\*sqrt(severe\_final\_var)/severe\_n\_post)

\*pool

gen severe\_pool\_var = ((severe\_baseline\_var\*(severe\_n\_pre-1))/(severe\_n\_pre+severe\_n\_post))+((severe\_final\_var \*(severe\_n\_post-1))/(severe\_n\_pre+severe\_n\_post))

\*additional ci

gen severe\_additional = severe\_final-severe\_baseline

gen severe\_additional\_lowerCI = (severe\_final-severe\_baseline)-(1.96\*sqrt((severe\_pool\_var)/(severe\_n\_post+severe\_n\_pre)))

gen severe\_additional\_upperCI = (severe\_final-severe\_baseline)+(1.96\*sqrt((severe\_pool\_var)/(severe\_n\_post+severe\_n\_pre)))

\*change in %

gen severe\_additionalinper = severe\_additional\*0.1

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, wgt(sum\_n) label(namevar==Study) random title(Anxiety (severe))

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, wgt(sum\_n) by(Country) label(namevar==Study) random title(Anxiety (severe) by country)

 clear

 \*rq2

\*\*mild\*

\*baseline

gen baseline\_var =(baseline\*(1-baseline))

gen baseline\_lowerCI= baseline-(1.96\*sqrt(baseline\_var)/n\_pre)

gen baseline\_upperCI= baseline+(1.96\*sqrt(baseline\_var)/n\_pre)

\*final

gen final\_var = (final\*(1-final))

gen final\_lowerCI= final-(1.96\*sqrt(final\_var)/n\_post)

 gen final\_upperCI= final+(1.96\*sqrt(final\_var)/n\_post)

\*pool

gen pool\_var = ((baseline\_var\*(n\_pre-1))/(n\_pre+n\_post))+((final\_var \*(n\_post-1))/(n\_pre+n\_post))

\*additional ci

gen additional = final-baseline

gen additional\_lowerCI = (final-baseline)-(1.96\*sqrt((pool\_var)/(n\_post+n\_pre)))

gen additional\_upperCI = (final-baseline)+(1.96\*sqrt((pool\_var)/(n\_post+n\_pre)))

\*change in %

gen additionalinper = additional\*0.1

\*severe

\*baseline

gen severe\_baseline\_var =(severe\_baseline\*(1-severe\_baseline))

gen severe\_baseline\_lowerCI= severe\_baseline-(1.96\*sqrt(severe\_baseline\_var)/severe\_n\_pre)

gen severe\_baseline\_upperCI= severe\_baseline+(1.96\*sqrt(severe\_baseline\_var)/severe\_n\_pre)

\*final

gen severe\_final\_var = (severe\_final\*(1-severe\_final))

gen severe\_final\_lowerCI= severe\_final-(1.96\*sqrt(severe\_final\_var)/severe\_n\_post)

 gen severe\_final\_upperCI= severe\_final+(1.96\*sqrt(severe\_final\_var)/severe\_n\_post)

\*pool

gen severe\_pool\_var = ((severe\_baseline\_var\*(severe\_n\_pre-1))/(severe\_n\_pre+severe\_n\_post))+((severe\_final\_var \*(severe\_n\_post-1))/(severe\_n\_pre+severe\_n\_post))

\*additional ci

gen severe\_additional = severe\_final-severe\_baseline

gen severe\_additional\_lowerCI = (severe\_final-severe\_baseline)-(1.96\*sqrt((severe\_pool\_var)/(severe\_n\_post+severe\_n\_pre)))

gen severe\_additional\_upperCI = (severe\_final-severe\_baseline)+(1.96\*sqrt((severe\_pool\_var)/(severe\_n\_post+severe\_n\_pre)))

\*change in %

gen severe\_additionalinper = severe\_additional\*0.1

\*sex

\* mild

metan additional additional\_lowerCI additional\_upperCI if Sex=="1" & age=="0-65+" , label(namevar==Study) graphregion(color(white)) name(g1,replace) random title("Anxiety and Depression in male(mild)") wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="2" & age=="0-65+", label(namevar==Study) graphregion(color(white)) name(g2,replace) random title(" Anxiety and Depression in female(mild)" ) wgt(sum\_n)

\*sex severe

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, by(sex) random wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1" & age=="0-65+" , label(namevar==Study) graphregion(color(white)) name(g1,replace) random title( Anxiety and Depression among male (severe)) wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="2" & age=="0-65+" , label(namevar==Study) graphregion(color(white)) name(g2,replace) random title( Anxiety and Depression among female (severe)) wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, by(sex) random wgt(sum\_n)

\*age

\*mild

metan additional additional\_lowerCI additional\_upperCI if Sex=="1\_2" & age=="0-18" , label(namevar==Study) graphregion(color(white)) name(g1,replace) random title( Anxiety and Depression by aged 0-18(mild) ) wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="1\_2" & age=="19-64", label(namevar==Study) graphregion(color(white)) name(g2,replace) random title( Anxiety and Depression by aged 19-64(mild) ) wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="1\_2" & age=="65+", label(namevar==Study) graphregion(color(white)) name(g3,replace) random title( Anxiety and Depression by aged 65+(mild) ) wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="1\_2" & age=="0-65+", label(namevar==Study) graphregion(color(white)) name(g4,replace) random title( Anxiety and Depression by aged 0-65+(mild) ) wgt(sum\_n)

\*severe

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1\_2" & age=="0-18" , label(namevar==Study) graphregion(color(white)) name(g1,replace) random title( Anxiety and Depression by aged 0-18(severe) ) wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1\_2" & age=="19-64", label(namevar==Study) graphregion(color(white)) name(g2,replace) random title( Anxiety and Depression by aged 19-64(severe) ) wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1\_2" & age=="65+", label(namevar==Study) graphregion(color(white)) name(g3,replace) random title( Anxiety and Depression by aged 65+(severe) ) wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1\_2" & age=="0-65+", label(namevar==Study) graphregion(color(white)) name(g4,replace) random title(Anxiety and Depression by aged 0-65+(severe) ) wgt(sum\_n)

\*agexsex

\*mild

metan additional additional\_lowerCI additional\_upperCI if Sex=="1" & age=="0-18" , label(namevar==Study) graphregion(color(white)) name(g1,replace) random title( Anxiety and Depression by male aged 0-18(mild) ) wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="1" & age=="19-64", label(namevar==Study) graphregion(color(white)) name(g2,replace) random title( Anxiety and Depression by male aged 19-64(mild) ) wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="1" & age=="65+", label(namevar==Study) graphregion(color(white)) name(g3,replace) random title(Anxiety and Depression by male aged 65+(mild) ) wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="1" & age=="0-65+", label(namevar==Study) graphregion(color(white)) name(g4,replace) random title( Anxiety and Depression by male aged 0-65+(mild) ) wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="2" & age=="0-18" , label(namevar==Study) graphregion(color(white)) name(g5,replace) random title( Anxiety and Depression by female aged 0-18(mild) ) wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="2" & age=="19-64", label(namevar==Study) graphregion(color(white)) name(g6,replace) random title( Anxiety and Depression by female aged 19-64(mild) ) wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="2" & age=="65+", label(namevar==Study) graphregion(color(white)) name(g7,replace) random title( Anxiety and Depression by female aged 65+(mild) ) wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="2" & age=="0-65+", label(namevar==Study) graphregion(color(white)) name(g8,replace) random title( Anxiety and Depression by female aged 0-65+(mild) ) wgt(sum\_n)

\*severe

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1" & age=="0-18" , label(namevar==Study) graphregion(color(white)) name(g1,replace) random title( Anxiety and Depression by male aged 0-18(severe) ) wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1" & age=="19-64", label(namevar==Study) graphregion(color(white)) name(g2,replace) random title( Anxiety and Depression by male aged 19-64(severe) ) wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1" & age=="65+", label(namevar==Study) graphregion(color(white)) name(g3,replace) random title( Anxiety and Depression by male aged 65+(severe) ) wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1" & age=="0-65+", label(namevar==Study) graphregion(color(white)) name(g4,replace) random title( Anxiety and Depression by male aged 0-65+(severe) ) wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="2" & age=="0-18" , label(namevar==Study) graphregion(color(white)) name(g5,replace) random title( Anxiety and Depression by female aged 0-18(severe) ) wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="2" & age=="19-64", label(namevar==Study) graphregion(color(white)) name(g6,replace) random title(Anxiety and Depression by female aged 19-64(severe) ) wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="2" & age=="65+", label(namevar==Study) graphregion(color(white)) name(g7,replace) random title( Anxiety and Depression by female aged 65+(severe) ) wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="2" & age=="0-65+", label(namevar==Study) graphregion(color(white)) name(g8,replace) random title( Anxiety and Depression by female aged 0-65+(severe) ) wgt(sum\_n)

clear

list Study n\_post n\_pre

\*\*mild\*

\*baseline

gen baseline\_var =(baseline\*(1-baseline))

gen baseline\_lowerCI= baseline-(1.96\*sqrt(baseline\_var)/n\_pre)

gen baseline\_upperCI= baseline+(1.96\*sqrt(baseline\_var)/n\_pre)

\*final

gen final\_var = (final\*(1-final))

gen final\_lowerCI= final-(1.96\*sqrt(final\_var)/n\_post)

 gen final\_upperCI= final+(1.96\*sqrt(final\_var)/n\_post)

\*pool

gen pool\_var = ((baseline\_var\*(n\_pre-1))/(n\_pre+n\_post))+((final\_var \*(n\_post-1))/(n\_pre+n\_post))

\*additional ci

gen additional = final-baseline

gen additional\_lowerCI = (final-baseline)-(1.96\*sqrt((pool\_var)/(n\_post+n\_pre)))

gen additional\_upperCI = (final-baseline)+(1.96\*sqrt((pool\_var)/(n\_post+n\_pre)))

\*change in %

gen additionalinper = additional\*0.1

\*severe

\*baseline

gen severe\_baseline\_var =(severe\_baseline\*(1-severe\_baseline))

gen severe\_baseline\_lowerCI= severe\_baseline-(1.96\*sqrt(severe\_baseline\_var)/severe\_n\_pre)

gen severe\_baseline\_upperCI= severe\_baseline+(1.96\*sqrt(severe\_baseline\_var)/severe\_n\_pre)

\*final

gen severe\_final\_var = (severe\_final\*(1-severe\_final))

gen severe\_final\_lowerCI= severe\_final-(1.96\*sqrt(severe\_final\_var)/severe\_n\_post)

 gen severe\_final\_upperCI= severe\_final+(1.96\*sqrt(severe\_final\_var)/severe\_n\_post)

\*pool

gen severe\_pool\_var = ((severe\_baseline\_var\*(severe\_n\_pre-1))/(severe\_n\_pre+severe\_n\_post))+((severe\_final\_var \*(severe\_n\_post-1))/(severe\_n\_pre+severe\_n\_post))

\*additional ci

gen severe\_additional = severe\_final-severe\_baseline

gen severe\_additional\_lowerCI = (severe\_final-severe\_baseline)-(1.96\*sqrt((severe\_pool\_var)/(severe\_n\_post+severe\_n\_pre)))

gen severe\_additional\_upperCI = (severe\_final-severe\_baseline)+(1.96\*sqrt((severe\_pool\_var)/(severe\_n\_post+severe\_n\_pre)))

\*change in %

gen severe\_additionalinper = severe\_additional\*0.1

\*sex

\* mild

metan additional additional\_lowerCI additional\_upperCI if Sex=="1" & age=="0-65+" , label(namevar==Study) graphregion(color(white)) name(g1,replace) random title("Depression in male(mild)") wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="2" & age=="0-65+", label(namevar==Study) graphregion(color(white)) name(g2,replace) random title( "Depression in female(mild)") wgt(sum\_n)

\*sex severe

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1" & age=="0-65+" , label(namevar==Study) graphregion(color(white)) name(g1,replace) random title( "Depression in male (severe)") wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="2" & age=="0-65+" , label(namevar==Study) graphregion(color(white)) name(g2,replace) random title( "Depression in female (severe)") wgt(sum\_n)

\*age

\*mild

metan additional additional\_lowerCI additional\_upperCI if Sex=="1\_2" & age=="0-18" , wgt(sum\_n) label(namevar==Study) graphregion(color(white)) name(g1,replace) random title( "Depression in aged 0-18(mild)")

metan additional additional\_lowerCI additional\_upperCI if Sex=="1\_2" & age=="19-64", wgt(sum\_n) label(namevar==Study) graphregion(color(white)) name(g2,replace) random title( "Depression in aged 19-64(mild) ")

metan additional additional\_lowerCI additional\_upperCI if Sex=="1\_2" & age=="65+", wgt(sum\_n) label(namevar==Study) graphregion(color(white)) name(g3,replace) random title( "Depression in aged 65+(mild) ")

metan additional additional\_lowerCI additional\_upperCI if Sex=="1\_2" & age=="0-65+", wgt(sum\_n) label(namevar==Study) graphregion(color(white)) name(g4,replace) random title(" Depression in aged 0-65+(mild)" )

\*severe

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1\_2" & age=="0-18" , label(namevar==Study) graphregion(color(white)) name(g1,replace) random title( "Depression in aged 0-18(severe)" ) wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1\_2" & age=="19-64", label(namevar==Study) graphregion(color(white)) name(g2,replace) random title( "Depression in aged 19-64(severe)" ) wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1\_2" & age=="65+", label(namevar==Study) graphregion(color(white)) name(g3,replace) random title( "Depression in aged 65+(severe) ") wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1\_2" & age=="0-65+", label(namevar==Study) graphregion(color(white)) name(g4,replace) random title("Depression in aged 0-65+(severe)" ) wgt(sum\_n)

\*agexsex

\*mild

metan additional additional\_lowerCI additional\_upperCI if Sex=="1" & age=="0-18" , label(namevar==Study) graphregion(color(white)) name(g1,replace) random title( "Depression in male aged 0-18(mild) ") wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="1" & age=="19-64", label(namevar==Study) graphregion(color(white)) name(g2,replace) random title( "Depression in male aged 19-64(mild)" ) wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="1" & age=="65+", label(namevar==Study) graphregion(color(white)) name(g3,replace) random title("Depression in male aged 65+(mild) ") wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="1" & age=="0-65+", label(namevar==Study) graphregion(color(white)) name(g4,replace) random title( "Depression in male aged 0-65+(mild)" ) wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="2" & age=="0-18" , label(namevar==Study) graphregion(color(white)) name(g5,replace) random title( "Depression in female aged 0-18(mild) ") wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="2" & age=="19-64", label(namevar==Study) graphregion(color(white)) name(g6,replace) random title( "Depression infemale aged 19-64(mild)" ) wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="2" & age=="65+", label(namevar==Study) graphregion(color(white)) name(g7,replace) random title( "Depression in female aged 65+(mild) ") wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="2" & age=="0-65+", label(namevar==Study) graphregion(color(white)) name(g8,replace) random title(" Depression in female aged 0-65+(mild) ") wgt(sum\_n)

\*severe

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1" & age=="0-18" , label(namevar==Study) graphregion(color(white)) name(g1,replace) random title( "Depression in male aged 0-18(severe) ") wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1" & age=="19-64", label(namevar==Study) graphregion(color(white)) name(g2,replace) random title( "Depression in male aged 19-64(severe)" ) wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1" & age=="65+", label(namevar==Study) graphregion(color(white)) name(g3,replace) random title( "Depression in male aged 65+(severe) ") wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1" & age=="0-65+", label(namevar==Study) graphregion(color(white)) name(g4,replace) random title( "Depression in male aged 0-65+(severe)" ) wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="2" & age=="0-18" , label(namevar==Study) graphregion(color(white)) name(g5,replace) random title( "Depression in female aged 0-18(severe) ") wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="2" & age=="19-64", label(namevar==Study) graphregion(color(white)) name(g6,replace) random title("Depression in female aged 19-64(severe) ") wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="2" & age=="65+", label(namevar==Study) graphregion(color(white)) name(g7,replace) random title( "Depression in female aged 65+(severe) ") wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="2" & age=="0-65+", label(namevar==Study) graphregion(color(white)) name(g8,replace) random title( "Depression in female aged 0-65+(severe)" ) wgt(sum\_n)

clear

\*\*mild\*

\*baseline

gen baseline\_var =(baseline\*(1-baseline))

gen baseline\_lowerCI= baseline-(1.96\*sqrt(baseline\_var)/n\_pre)

gen baseline\_upperCI= baseline+(1.96\*sqrt(baseline\_var)/n\_pre)

\*final

gen final\_var = (final\*(1-final))

gen final\_lowerCI= final-(1.96\*sqrt(final\_var)/n\_post)

 gen final\_upperCI= final+(1.96\*sqrt(final\_var)/n\_post)

\*pool

gen pool\_var = ((baseline\_var\*(n\_pre-1))/(n\_pre+n\_post))+((final\_var \*(n\_post-1))/(n\_pre+n\_post))

\*additional ci

gen additional = final-baseline

gen additional\_lowerCI = (final-baseline)-(1.96\*sqrt((pool\_var)/(n\_post+n\_pre)))

gen additional\_upperCI = (final-baseline)+(1.96\*sqrt((pool\_var)/(n\_post+n\_pre)))

\*change in %

gen additionalinper = additional\*0.1

\*severe

\*baseline

gen severe\_baseline\_var =(severe\_baseline\*(1-severe\_baseline))

gen severe\_baseline\_lowerCI= severe\_baseline-(1.96\*sqrt(severe\_baseline\_var)/severe\_n\_pre)

gen severe\_baseline\_upperCI= severe\_baseline+(1.96\*sqrt(severe\_baseline\_var)/severe\_n\_pre)

\*final

gen severe\_final\_var = (severe\_final\*(1-severe\_final))

gen severe\_final\_lowerCI= severe\_final-(1.96\*sqrt(severe\_final\_var)/severe\_n\_post)

 gen severe\_final\_upperCI= severe\_final+(1.96\*sqrt(severe\_final\_var)/severe\_n\_post)

\*pool

gen severe\_pool\_var = ((severe\_baseline\_var\*(severe\_n\_pre-1))/(severe\_n\_pre+severe\_n\_post))+((severe\_final\_var \*(severe\_n\_post-1))/(severe\_n\_pre+severe\_n\_post))

\*additional ci

gen severe\_additional = severe\_final-severe\_baseline

gen severe\_additional\_lowerCI = (severe\_final-severe\_baseline)-(1.96\*sqrt((severe\_pool\_var)/(severe\_n\_post+severe\_n\_pre)))

gen severe\_additional\_upperCI = (severe\_final-severe\_baseline)+(1.96\*sqrt((severe\_pool\_var)/(severe\_n\_post+severe\_n\_pre)))

\*change in %

gen severe\_additionalinper = severe\_additional\*0.1

\*sex

\* mild

metan additional additional\_lowerCI additional\_upperCI if Sex=="1" & age=="0-65+" , label(namevar==Study) graphregion(color(white)) name(g1,replace) random title("Anxiety in male(mild)") wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="2" & age=="0-65+", label(namevar==Study) graphregion(color(white)) name(g2,replace) random title( "Anxiety in female(mild)") wgt(sum\_n)

\*sex severe

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1" & age=="0-65+" , label(namevar==Study) graphregion(color(white)) name(g1,replace) random title( "Anxiety in male (severe)") wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="2" & age=="0-65+" , label(namevar==Study) graphregion(color(white)) name(g2,replace) random title( "Anxiety in female (severe)") wgt(sum\_n)

\*age

\*mild

metan additional additional\_lowerCI additional\_upperCI if Sex=="1\_2" & age=="0-18" , label(namevar==Study) graphregion(color(white)) name(g1,replace) random title( "Anxiety in aged 0-18(mild)") wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="1\_2" & age=="19-64", label(namevar==Study) graphregion(color(white)) name(g2,replace) random title( "Anxiety in aged 19-64(mild) ") wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="1\_2" & age=="65+", label(namevar==Study) graphregion(color(white)) name(g3,replace) random title( "Anxiety in aged 65+(mild) ") wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="1\_2" & age=="0-65+", label(namevar==Study) graphregion(color(white)) name(g4,replace) random title(" Anxiety in aged 0-65+(mild)" ) wgt(sum\_n)

\*severe

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1\_2" & age=="0-18" , label(namevar==Study) graphregion(color(white)) name(g1,replace) random title( "Anxiety in aged 0-18(severe)" ) wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1\_2" & age=="19-64", label(namevar==Study) graphregion(color(white)) name(g2,replace) random title( "Anxiety in aged 19-64(severe)" ) wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1\_2" & age=="65+", label(namevar==Study) graphregion(color(white)) name(g3,replace) random title( "Anxiety in aged 65+(severe) ") wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1\_2" & age=="0-65+", label(namevar==Study) graphregion(color(white)) name(g4,replace) random title("Anxiety in aged 0-65+(severe)" ) wgt(sum\_n)

\*agexsex

\*mild

metan additional additional\_lowerCI additional\_upperCI if Sex=="1" & age=="0-18" , label(namevar==Study) graphregion(color(white)) name(g1,replace) random title( "Anxiety in male aged 0-18(mild) ") wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="1" & age=="19-64", label(namevar==Study) graphregion(color(white)) name(g2,replace) random title( "Anxiety in male aged 19-64(mild)" ) wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="1" & age=="65+", label(namevar==Study) graphregion(color(white)) name(g3,replace) random title("Anxiety in male aged 65+(mild) ") wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="1" & age=="0-65+", label(namevar==Study) graphregion(color(white)) name(g4,replace) random title( "Anxiety in male aged 0-65+(mild)" ) wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="2" & age=="0-18" , label(namevar==Study) graphregion(color(white)) name(g5,replace) random title( "Anxiety in female aged 0-18(mild) ") wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="2" & age=="19-64", label(namevar==Study) graphregion(color(white)) name(g6,replace) random title( "Anxiety infemale aged 19-64(mild)" ) wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="2" & age=="65+", label(namevar==Study) graphregion(color(white)) name(g7,replace) random title( "Anxiety in female aged 65+(mild) ") wgt(sum\_n)

metan additional additional\_lowerCI additional\_upperCI if Sex=="2" & age=="0-65+", label(namevar==Study) graphregion(color(white)) name(g8,replace) random title(" Anxiety in female aged 0-65+(mild) ") wgt(sum\_n)

\*severe

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1" & age=="0-18" , label(namevar==Study) graphregion(color(white)) name(g1,replace) random title( "Anxiety in male aged 0-18(severe) ") wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1" & age=="19-64", label(namevar==Study) graphregion(color(white)) name(g2,replace) random title( "Anxiety in male aged 19-64(severe)" ) wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1" & age=="65+", label(namevar==Study) graphregion(color(white)) name(g3,replace) random title( "Anxiety in male aged 65+(severe) ") wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="1" & age=="0-65+", label(namevar==Study) graphregion(color(white)) name(g4,replace) random title( "Anxiety in male aged 0-65+(severe)" ) wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="2" & age=="0-18" , label(namevar==Study) graphregion(color(white)) name(g5,replace) random title( "Anxiety in female aged 0-18(severe) ") wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="2" & age=="19-64", label(namevar==Study) graphregion(color(white)) name(g6,replace) random title("Anxiety in female aged 19-64(severe) ") wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="2" & age=="65+", label(namevar==Study) graphregion(color(white)) name(g7,replace) random title( "Anxiety in female aged 65+(severe) ") wgt(sum\_n)

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI if Sex=="2" & age=="0-65+", label(namevar==Study) graphregion(color(white)) name(g8,replace) random title( "Anxiety in female aged 0-65+(severe)" ) wgt(sum\_n)

clear

 \*rq3

\*\*mild\*

\*baseline

gen baseline\_var =(baseline\*(1-baseline))

gen baseline\_lowerCI= baseline-(1.96\*sqrt(baseline\_var)/n\_pre)

gen baseline\_upperCI= baseline+(1.96\*sqrt(baseline\_var)/n\_pre)

\*final

gen final\_var = (final\*(1-final))

gen final\_lowerCI= final-(1.96\*sqrt(final\_var)/n\_post)

 gen final\_upperCI= final+(1.96\*sqrt(final\_var)/n\_post)

\*pool

gen pool\_var = ((baseline\_var\*(n\_pre-1))/(n\_pre+n\_post))+((final\_var \*(n\_post-1))/(n\_pre+n\_post))

\*additional ci

gen additional = final-baseline

gen additional\_lowerCI = (final-baseline)-(1.96\*sqrt((pool\_var)/(n\_post+n\_pre)))

gen additional\_upperCI = (final-baseline)+(1.96\*sqrt((pool\_var)/(n\_post+n\_pre)))

\*change in %

gen additionalinper = additional\*0.1

metan additional additional\_lowerCI additional\_upperCI, wgt(sum\_n) label(namevar==Study) random title(Anxiety and Depression (mild))

metareg additional schoolrestriction sum\_n, random wsse(\_seES)

metareg additional socialdistancing sum\_n, random wsse(\_seES)

/\*

metareg additional femaleratio, random wsse(\_seES)

metareg additional new\_cases, random wsse(\_seES)

metareg additional total\_deaths, random wsse(\_seES)

metareg additional new\_deaths, random wsse(\_seES)

metareg additional total\_deaths\_per\_million, random wsse(\_seES)

metareg additional new\_deaths\_per\_million , random wsse(\_seES)

metareg additional positive\_rate , random wsse(\_seES)

metareg additional population , random wsse(\_seES)

metareg additional gdp\_per\_capita , random wsse(\_seES)

metareg additional Accdeathpercapita , random wsse(\_seES)

metareg additional Newdeathpercapita, random wsse(\_seES)

metareg additional Newcasepercapita, random wsse(\_seES)

metareg additional schoolrestriction socialdistancing, random wsse(\_seES)

metareg additional schoolrestriction socialdistancing gdp\_per\_capita population , random wsse(\_seES)

metareg additional schoolrestriction gdp\_per\_capita population , random wsse(\_seES)

metareg additional socialdistancing gdp\_per\_capita population , random wsse(\_seES)

\*/

clear

 \*Rq3

\*severe

\*baseline

gen severe\_baseline\_var =(severe\_baseline\*(1-severe\_baseline))

gen severe\_baseline\_lowerCI= severe\_baseline-(1.96\*sqrt(severe\_baseline\_var)/severe\_n\_pre)

gen severe\_baseline\_upperCI= severe\_baseline+(1.96\*sqrt(severe\_baseline\_var)/severe\_n\_pre)

\*final

gen severe\_final\_var = (severe\_final\*(1-severe\_final))

gen severe\_final\_lowerCI= severe\_final-(1.96\*sqrt(severe\_final\_var)/severe\_n\_post)

 gen severe\_final\_upperCI= severe\_final+(1.96\*sqrt(severe\_final\_var)/severe\_n\_post)

\*pool

gen severe\_pool\_var = ((severe\_baseline\_var\*(severe\_n\_pre-1))/(severe\_n\_pre+severe\_n\_post))+((severe\_final\_var \*(severe\_n\_post-1))/(severe\_n\_pre+severe\_n\_post))

\*additional ci

gen severe\_additional = severe\_final-severe\_baseline

gen severe\_additional\_lowerCI = (severe\_final-severe\_baseline)-(1.96\*sqrt((severe\_pool\_var)/(severe\_n\_post+severe\_n\_pre)))

gen severe\_additional\_upperCI = (severe\_final-severe\_baseline)+(1.96\*sqrt((severe\_pool\_var)/(severe\_n\_post+severe\_n\_pre)))

\*change in %

gen severe\_additionalinper = severe\_additional\*0.1

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, wgt(sum\_n) label(namevar==Study) random title(Anxiety and Depression (severe))

metareg severe\_additional schoolrestriction sum\_n, random wsse(\_seES)

metareg severe\_additional socialdistancing sum\_n, random wsse(\_seES)

/\*

metareg additional femaleratio, random wsse(\_seES)

metareg additional new\_cases, random wsse(\_seES)

metareg additional total\_deaths, random wsse(\_seES)

metareg additional new\_deaths, random wsse(\_seES)

metareg additional total\_deaths\_per\_million, random wsse(\_seES)

metareg additional new\_deaths\_per\_million , random wsse(\_seES)

metareg additional positive\_rate , random wsse(\_seES)

metareg additional population , random wsse(\_seES)

metareg additional gdp\_per\_capita , random wsse(\_seES)

metareg additional Accdeathpercapita , random wsse(\_seES)

metareg additional Newdeathpercapita, random wsse(\_seES)

metareg additional Newcasepercapita, random wsse(\_seES)

metareg additional schoolrestriction socialdistancing, random wsse(\_seES)

metareg additional schoolrestriction socialdistancing gdp\_per\_capita population , random wsse(\_seES)

metareg additional schoolrestriction gdp\_per\_capita population , random wsse(\_seES)

metareg additional socialdistancing gdp\_per\_capita population , random wsse(\_seES)

\*/clear

 \*rq3

\*\*mild\*

\*baseline

gen baseline\_var =(baseline\*(1-baseline))

gen baseline\_lowerCI= baseline-(1.96\*sqrt(baseline\_var)/n\_pre)

gen baseline\_upperCI= baseline+(1.96\*sqrt(baseline\_var)/n\_pre)

\*final

gen final\_var = (final\*(1-final))

gen final\_lowerCI= final-(1.96\*sqrt(final\_var)/n\_post)

 gen final\_upperCI= final+(1.96\*sqrt(final\_var)/n\_post)

\*pool

gen pool\_var = ((baseline\_var\*(n\_pre-1))/(n\_pre+n\_post))+((final\_var \*(n\_post-1))/(n\_pre+n\_post))

\*additional ci

gen additional = final-baseline

gen additional\_lowerCI = (final-baseline)-(1.96\*sqrt((pool\_var)/(n\_post+n\_pre)))

gen additional\_upperCI = (final-baseline)+(1.96\*sqrt((pool\_var)/(n\_post+n\_pre)))

\*change in %

gen additionalinper = additional\*0.1

metan additional additional\_lowerCI additional\_upperCI, wgt(sum\_n) label(namevar==Study) random title(Anxiety and Depression (mild))

metareg additional schoolrestriction, random wsse(\_seES)

metareg additional socialdistancing, random wsse(\_seES)

metareg additional femaleratio, random wsse(\_seES)

metareg additional new\_cases, random wsse(\_seES)

metareg additional total\_deaths, random wsse(\_seES)

metareg additional new\_deaths, random wsse(\_seES)

metareg additional total\_deaths\_per\_million, random wsse(\_seES)

metareg additional new\_deaths\_per\_million , random wsse(\_seES)

metareg additional positive\_rate , random wsse(\_seES)

metareg additional population , random wsse(\_seES)

metareg additional gdp\_per\_capita , random wsse(\_seES)

metareg additional Accdeathpercapita , random wsse(\_seES)

metareg additional Newdeathpercapita, random wsse(\_seES)

metareg additional Newcasepercapita, random wsse(\_seES)

metareg additional schoolrestriction socialdistancing, random wsse(\_seES)

metareg additional schoolrestriction socialdistancing gdp\_per\_capita population , random wsse(\_seES)

metareg additional schoolrestriction gdp\_per\_capita population , random wsse(\_seES)

metareg additional socialdistancing gdp\_per\_capita population , random wsse(\_seES)

clear

 \*Rq3

\*severe

\*baseline

gen severe\_baseline\_var =(severe\_baseline\*(1-severe\_baseline))

gen severe\_baseline\_lowerCI= severe\_baseline-(1.96\*sqrt(severe\_baseline\_var)/severe\_n\_pre)

gen severe\_baseline\_upperCI= severe\_baseline+(1.96\*sqrt(severe\_baseline\_var)/severe\_n\_pre)

\*final

gen severe\_final\_var = (severe\_final\*(1-severe\_final))

gen severe\_final\_lowerCI= severe\_final-(1.96\*sqrt(severe\_final\_var)/severe\_n\_post)

 gen severe\_final\_upperCI= severe\_final+(1.96\*sqrt(severe\_final\_var)/severe\_n\_post)

\*pool

gen severe\_pool\_var = ((severe\_baseline\_var\*(severe\_n\_pre-1))/(severe\_n\_pre+severe\_n\_post))+((severe\_final\_var \*(severe\_n\_post-1))/(severe\_n\_pre+severe\_n\_post))

\*additional ci

gen severe\_additional = severe\_final-severe\_baseline

gen severe\_additional\_lowerCI = (severe\_final-severe\_baseline)-(1.96\*sqrt((severe\_pool\_var)/(severe\_n\_post+severe\_n\_pre)))

gen severe\_additional\_upperCI = (severe\_final-severe\_baseline)+(1.96\*sqrt((severe\_pool\_var)/(severe\_n\_post+severe\_n\_pre)))

\*change in %

gen severe\_additionalinper = severe\_additional\*0.1

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, wgt(sum\_n) label(namevar==Study) random title(Anxiety and Depression (severe))

metareg severe\_additional schoolrestriction, random wsse(\_seES)

metareg severe\_additional socialdistancing, random wsse(\_seES)

metareg severe\_additional femaleratio, random wsse(\_seES)

metareg severe\_additional new\_cases, random wsse(\_seES)

metareg severe\_additional total\_deaths, random wsse(\_seES)

metareg severe\_additional new\_deaths, random wsse(\_seES)

metareg severe\_additional total\_deaths\_per\_million, random wsse(\_seES)

metareg severe\_additional new\_deaths\_per\_million , random wsse(\_seES)

metareg severe\_additional positive\_rate , random wsse(\_seES)

metareg severe\_additional population , random wsse(\_seES)

metareg severe\_additional gdp\_per\_capita , random wsse(\_seES)

metareg severe\_additional Accdeathpercapita , random wsse(\_seES)

metareg severe\_additional Newdeathpercapita, random wsse(\_seES)

metareg severe\_additional Newcasepercapita, random wsse(\_seES)

metareg severe\_additional schoolrestriction socialdistancing, random wsse(\_seES)

metareg severe\_additional schoolrestriction socialdistancing gdp\_per\_capita population , random wsse(\_seES)

metareg severe\_additional schoolrestriction gdp\_per\_capita population , random wsse(\_seES)

metareg severe\_additional socialdistancing gdp\_per\_capita population , random wsse(\_seES)

clear

 \*rq3

\*\*mild\*

\*baseline

gen baseline\_var =(baseline\*(1-baseline))

gen baseline\_lowerCI= baseline-(1.96\*sqrt(baseline\_var)/n\_pre)

gen baseline\_upperCI= baseline+(1.96\*sqrt(baseline\_var)/n\_pre)

\*final

gen final\_var = (final\*(1-final))

gen final\_lowerCI= final-(1.96\*sqrt(final\_var)/n\_post)

 gen final\_upperCI= final+(1.96\*sqrt(final\_var)/n\_post)

\*pool

gen pool\_var = ((baseline\_var\*(n\_pre-1))/(n\_pre+n\_post))+((final\_var \*(n\_post-1))/(n\_pre+n\_post))

\*additional ci

gen additional = final-baseline

gen additional\_lowerCI = (final-baseline)-(1.96\*sqrt((pool\_var)/(n\_post+n\_pre)))

gen additional\_upperCI = (final-baseline)+(1.96\*sqrt((pool\_var)/(n\_post+n\_pre)))

\*change in %

gen additionalinper = additional\*0.1

metan additional additional\_lowerCI additional\_upperCI, wgt(sum\_n) label(namevar==Study) random title(Anxiety and Depression (mild))

metareg additional schoolrestriction, random wsse(\_seES)

metareg additional socialdistancing, random wsse(\_seES)

metareg additional femaleratio, random wsse(\_seES)

metareg additional new\_cases, random wsse(\_seES)

metareg additional total\_deaths, random wsse(\_seES)

metareg additional new\_deaths, random wsse(\_seES)

metareg additional total\_deaths\_per\_million, random wsse(\_seES)

metareg additional new\_deaths\_per\_million , random wsse(\_seES)

metareg additional positive\_rate , random wsse(\_seES)

metareg additional population , random wsse(\_seES)

metareg additional gdp\_per\_capita , random wsse(\_seES)

metareg additional Accdeathpercapita , random wsse(\_seES)

metareg additional Newdeathpercapita, random wsse(\_seES)

metareg additional Newcasepercapita, random wsse(\_seES)

metareg additional schoolrestriction socialdistancing, random wsse(\_seES)

metareg additional schoolrestriction socialdistancing gdp\_per\_capita population , random wsse(\_seES)

metareg additional schoolrestriction gdp\_per\_capita population , random wsse(\_seES)

metareg additional socialdistancing gdp\_per\_capita population , random wsse(\_seES)

clear

 \*Rq3

\*severe

\*baseline

gen severe\_baseline\_var =(severe\_baseline\*(1-severe\_baseline))

gen severe\_baseline\_lowerCI= severe\_baseline-(1.96\*sqrt(severe\_baseline\_var)/severe\_n\_pre)

gen severe\_baseline\_upperCI= severe\_baseline+(1.96\*sqrt(severe\_baseline\_var)/severe\_n\_pre)

\*final

gen severe\_final\_var = (severe\_final\*(1-severe\_final))

gen severe\_final\_lowerCI= severe\_final-(1.96\*sqrt(severe\_final\_var)/severe\_n\_post)

 gen severe\_final\_upperCI= severe\_final+(1.96\*sqrt(severe\_final\_var)/severe\_n\_post)

\*pool

gen severe\_pool\_var = ((severe\_baseline\_var\*(severe\_n\_pre-1))/(severe\_n\_pre+severe\_n\_post))+((severe\_final\_var \*(severe\_n\_post-1))/(severe\_n\_pre+severe\_n\_post))

\*additional ci

gen severe\_additional = severe\_final-severe\_baseline

gen severe\_additional\_lowerCI = (severe\_final-severe\_baseline)-(1.96\*sqrt((severe\_pool\_var)/(severe\_n\_post+severe\_n\_pre)))

gen severe\_additional\_upperCI = (severe\_final-severe\_baseline)+(1.96\*sqrt((severe\_pool\_var)/(severe\_n\_post+severe\_n\_pre)))

\*change in %

gen severe\_additionalinper = severe\_additional\*0.1

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, wgt(sum\_n) label(namevar==Study) random title(Anxiety and Depression (severe))

metareg severe\_additional schoolrestriction, random wsse(\_seES)

metareg severe\_additional socialdistancing, random wsse(\_seES)

metareg severe\_additional femaleratio, random wsse(\_seES)

metareg severe\_additional new\_cases, random wsse(\_seES)

metareg severe\_additional total\_deaths, random wsse(\_seES)

metareg severe\_additional new\_deaths, random wsse(\_seES)

metareg severe\_additional total\_deaths\_per\_million, random wsse(\_seES)

metareg severe\_additional new\_deaths\_per\_million , random wsse(\_seES)

metareg severe\_additional positive\_rate , random wsse(\_seES)

metareg severe\_additional population , random wsse(\_seES)

metareg severe\_additional gdp\_per\_capita , random wsse(\_seES)

metareg severe\_additional Accdeathpercapita , random wsse(\_seES)

metareg severe\_additional Newdeathpercapita, random wsse(\_seES)

metareg severe\_additional Newcasepercapita, random wsse(\_seES)

metareg severe\_additional schoolrestriction socialdistancing, random wsse(\_seES)

metareg severe\_additional schoolrestriction socialdistancing gdp\_per\_capita population , random wsse(\_seES)

metareg severe\_additional schoolrestriction gdp\_per\_capita population , random wsse(\_seES)

metareg severe\_additional socialdistancing gdp\_per\_capita population , random wsse(\_seES)

\*\*\*Additional estimations

\*\*Mild anxiety and depression combined

preserve

keep if additional != .

keep if additional != 0

keep if sex==""

keep if age=="0-65+"

\*Prediction interval

meta set additional additional\_lowerCI additional\_upperCI, random(dlaird)

meta summarize, wgt(sum\_n) predint

\*Egger’s test and funnel plot

meta bias, egger

meta funnelplot, title("Mild depression and anxiety combined")

\*Trim-and-fill analysis

gen SE\_additional =( ( additional\_upperCI ) - ( additional\_lowerCI )) / (2\*invnorm(.975))

metan additional additional\_lowerCI additional\_upperCI, wgt(sum\_n)

metatrim additional SE\_additional, funnel print

\*Influence (leave-one-out) analysis

metan additional additional\_lowerCI additional\_upperCI, random wgt(sum\_n) study(Study)

metaninf additional additional\_lowerCI additional\_upperCI, random wgt(sum\_n) label(namevar=Study)

\*Meta-regression with additional adjustment for study quality

metan additional additional\_lowerCI additional\_upperCI, random wgt(sum\_n) study(Study)

metareg additional schoolrestriction sum\_n, random wsse(\_seES)

metareg additional schoolrestriction sum\_n Studyqual, random wsse(\_seES)

restore

\*\*Mild anxiety alone

preserve

drop if Outcome!="Anxiety"

keep if additional != .

keep if additional != 0

keep if sex==""

keep if age=="0-65+"

\*Prediction interval

meta set additional additional\_lowerCI additional\_upperCI, random(dlaird)

meta summarize, wgt(sum\_n) predint

\*Egger’s test and funnel plot

meta bias, egger

meta funnelplot, title("Mild anxiety alone")

\*Trim-and-fill analysis

gen SE\_additional =( ( additional\_upperCI ) - ( additional\_lowerCI )) / (2\*invnorm(.975))

metan additional additional\_lowerCI additional\_upperCI, wgt(sum\_n)

metatrim additional SE\_additional, funnel print

\*Influence (leave-one-out) analysis

metan additional additional\_lowerCI additional\_upperCI, random wgt(sum\_n) study(Study)

metaninf additional additional\_lowerCI additional\_upperCI, random wgt(sum\_n) label(namevar=Study)

\*Meta-regression with additional adjustment for study quality

metan additional additional\_lowerCI additional\_upperCI, random wgt(sum\_n) study(Study)

metareg additional schoolrestriction sum\_n, random wsse(\_seES)

metareg additional schoolrestriction sum\_n Studyqual, random wsse(\_seES)

restore

\*\*Mild depression alone

preserve

drop if Outcome!="Depression"

keep if additional != .

keep if additional != 0

keep if sex==""

keep if age=="0-65+"

\*Prediction interval

meta set additional additional\_lowerCI additional\_upperCI, random(dlaird)

meta summarize, wgt(sum\_n) predint

\*Egger’s test and funnel plot

meta bias, egger

meta funnelplot, title("Mild depression alone")

\*Trim-and-fill analysis

gen SE\_additional =( ( additional\_upperCI ) - ( additional\_lowerCI )) / (2\*invnorm(.975))

metan additional additional\_lowerCI additional\_upperCI, wgt(sum\_n)

metatrim additional SE\_additional, funnel print

\*Influence (leave-one-out) analysis

metan additional additional\_lowerCI additional\_upperCI, random wgt(sum\_n) study(Study)

metaninf additional additional\_lowerCI additional\_upperCI, random wgt(sum\_n) label(namevar=Study)

\*Meta-regression with additional adjustment for study quality

metan additional additional\_lowerCI additional\_upperCI, random wgt(sum\_n) study(Study)

metareg additional schoolrestriction sum\_n, random wsse(\_seES)

metareg additional schoolrestriction sum\_n Studyqual, random wsse(\_seES)

restore

\*\*\*Additional estimations

\*\*Severe anxiety and depression combined

preserve

keep if severe\_additional != .

keep if severe\_additional != 0

keep if sex==""

keep if age=="0-65+"

\*Prediction interval

meta set severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, random(dlaird)

meta summarize, wgt(sum\_n) predint

\*Egger’s test and funnel plot

meta bias, egger

meta funnelplot, title("Severe depression and anxiety combined")

\*Trim-and-fill analysis

gen SE\_severe\_additional =( ( severe\_additional\_upperCI ) - ( severe\_additional\_lowerCI )) / (2\*invnorm(.975))

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, wgt(sum\_n)

metatrim severe\_additional SE\_severe\_additional, funnel print

\*Influence (leave-one-out) analysis

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, random wgt(sum\_n) study(Study)

metaninf severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, random wgt(sum\_n) label(namevar=Study)

\*Meta-regression with additional adjustment for study quality

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, random wgt(sum\_n) study(Study)

metareg severe\_additional schoolrestriction sum\_n, random wsse(\_seES)

metareg severe\_additional schoolrestriction sum\_n Studyqual, random wsse(\_seES)

restore

\*\*Severe anxiety alone

preserve

drop if Outcome!="Anxiety"

keep if additional != .

keep if additional != 0

keep if sex==""

keep if age=="0-65+"

\*Prediction interval

meta set severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, random(dlaird)

meta summarize, wgt(sum\_n) predint

\*Egger’s test and funnel plot

meta bias, egger

meta funnelplot, title("Severe anxiety alone")

\*Trim-and-fill analysis

gen SE\_severe\_additional =( ( severe\_additional\_upperCI ) - ( severe\_additional\_lowerCI )) / (2\*invnorm(.975))

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, wgt(sum\_n)

metatrim severe\_additional SE\_severe\_additional, funnel print

\*Influence (leave-one-out) analysis

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, random wgt(sum\_n) study(Study)

metaninf severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, random wgt(sum\_n) label(namevar=Study)

\*Meta-regression with additional adjustment for study quality

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, random wgt(sum\_n) study(Study)

metareg severe\_additional schoolrestriction sum\_n, random wsse(\_seES)

metareg severe\_additional schoolrestriction sum\_n Studyqual, random wsse(\_seES)

restore

\*\*Severe depression alone

preserve

drop if Outcome!="Depression"

keep if severe\_additional != .

keep if severe\_additional != 0

keep if sex==""

keep if age=="0-65+"

\*Prediction interval

meta set severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, random(dlaird)

meta summarize, wgt(sum\_n) predint

\*Egger’s test and funnel plot

meta bias, egger

meta funnelplot, title("Severe depression alone")

\*Trim-and-fill analysis

gen SE\_severe\_additional =( ( severe\_additional\_upperCI ) - ( severe\_additional\_lowerCI )) / (2\*invnorm(.975))

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, wgt(sum\_n)

metatrim severe\_additional SE\_severe\_additional, funnel print

\*Influence (leave-one-out) analysis

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, random wgt(sum\_n) study(Study)

metaninf severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, random wgt(sum\_n) label(namevar=Study)

\*Meta-regression with additional adjustment for study quality

metan severe\_additional severe\_additional\_lowerCI severe\_additional\_upperCI, random wgt(sum\_n) study(Study)

metareg severe\_additional schoolrestriction sum\_n, random wsse(\_seES)

metareg severe\_additional schoolrestriction sum\_n Studyqual, random wsse(\_seES)

restore

log close