**MEDIATION CODE**

1. **Main mediation for crude case growth rate using movement without employment categories**

bootstrap indeff = r(ind\_eff) direff = r(dir\_eff) toteff = r(tot\_eff), reps(100) cluster(state\_fips) idcluster(nstate\_fips) group(county\_fips): ///

ml\_mediation, dv(caseRate) iv(z\_trump) mv(z\_dist1\_lag\_wk23) cv(state\_policy2 weekend2 z\_median\_household\_income\_2018 z\_medianage\_county\_2018

z\_pct\_age0to17 z\_pct\_age65to84 z\_pct\_age85plus z\_pop\_density z\_religion z\_percentEmployed z\_gini z\_perc\_black z\_perc\_asian z\_perc\_hisplatin)

l3id(state\_fips) l2id(county\_fips) mle

1. **Main mediation for crude death growth rate using movement without employment categories**

bootstrap indeff = r(ind\_eff) direff = r(dir\_eff) toteff = r(tot\_eff), reps(100) cluster(state\_fips) idcluster(nstate\_fips) group(county\_fips): ///

ml\_mediation, dv(deathRate) iv(z\_trump) mv(z\_dist1\_lag\_wk31)

cv(state\_policy2 weekend2 z\_median\_household\_income\_2018 z\_medianage\_county\_2018 z\_pct\_age0to17 z\_pct\_age65to84 z\_pct\_age85plus z\_pop\_density z\_religion z\_percentEmployed z\_gini z\_perc\_black z\_perc\_asian z\_perc\_hisplatin) l3id(state\_fips) l2id(county\_fips) mle

##identify dataset

use "C:\Git\Practicum\practicum\_data\STATA\phase1\_mediation.dta"

##call do file

do ml\_mediation

##run mixed model

ml\_mediation, dv(caseRate) iv(z\_trump) mv(z\_dist1\_lag\_wk23) l2id(county\_fips) l3id(state\_fips) cv(state\_policy2 weekend2 z\_median\_household\_income\_2018 z\_medianage\_county\_2018 z\_pct\_age0to17 z\_pct\_age65to84 z\_pct\_age85plus z\_pop\_density z\_religion z\_percentemployed z\_gini z\_perc\_black z\_perc\_asian z\_perc\_hisplatin) mle

##run boostrapping

bootstrap indeff = r(ind\_eff) direff = r(dir\_eff) toteff = r(tot\_eff), reps(100) cluster(state\_fips) idcluster(nstate\_fips) group(county\_fips): ml\_mediation, dv(caseRate) iv(z\_trump) mv(z\_dist1\_lag\_wk23) cv(state\_policy2 weekend2 z\_median\_household\_income\_2018 z\_medianage\_county\_2018 z\_pct\_age0to17 z\_pct\_age65to84 z\_pct\_age85plus z\_pop\_density z\_religion z\_percentemployed z\_gini z\_perc\_black z\_perc\_asian z\_perc\_hisplatin) l3id(state\_fips) l2id(county\_fips) mle