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# Exclusion of below 18s

This syntax was applied to the file of raw data (**ISMN\_ALL\_DATA\_Final).**

\* Delete participants who claim to be under 18 years old.

SELECT IF (sysmis(Age) or Age>=18).

EXECUTE.

# Recoding of checkboxes

This syntax was applied to the file of raw data (**ISMN\_ALL\_DATA\_Final).**

\* Recode checkboxes so that no tick is coded 0.

RECODE Important\_children\_1 Important\_children\_2 Important\_children\_3 Important\_children\_4 Important\_children\_5 Important\_children\_6 Important\_children\_7 Important\_children\_8 Important\_children\_9 Important\_children\_10 Perceived\_threat\_1 Perceived\_threat\_2 Perceived\_threat\_3 Perceived\_threat\_4 Perceived\_threat\_5 Perceived\_threat\_6 Perceived\_threat\_7 Perceived\_threat\_8 Perceived\_threat\_9 (SYSMIS=0).

EXECUTE.

# Imputation of missing data

This syntax was applied to the file of raw data (**ISMN\_ALL\_DATA\_Final**) to yield a new file **ISMN\_ALL\_DATA\_Imputed** with missing data imputed.

DATASET NAME rawdata.

\* Impute missing values.

DATASET DECLARE impu.

MVA VARIABLES=Individualism\_Q1 PowerDistance\_Q2 Individualism\_Q4 Individualism\_Q6 PowerDistance\_Q7 Individualism\_Q9 Indulgence\_Q11 Indulgence\_Q12 Indulgence\_Q16 Indulgence\_Q17 PowerDistance\_Q20 PowerDistance\_Q23 You\_confront Confront\_you You\_Talk Talk\_about\_you You\_avoid Avoids\_you Just\_homo Just\_divorce Just\_abortion Just\_suicide Just\_beatwife Just\_violence Tightness\_Q1 Tightness\_Q2 Tightness\_Q3 Tightness\_Q4 Tightness\_Q5 Tightness\_Q6 StealApp StealNothApp StealRemarkApp StealTalkApp StealAvoidApp StealPhysPunApp StealPhysPunRemApp StealPhysPunTalkApp StealPhysPunAvoidApp StealPhysPunNothApp Sce1AApp Sce1CApp Sce1EApp Sce1BApp Sce1DApp Sce2AApp Sce2BApp Sce2DApp Sce2CApp Sce2EApp Sce3AApp Sce3CApp Sce3EApp Sce3BApp Sce3DApp Sce4AApp Sce4EApp Sce4DApp Sce4BApp Sce4CApp InsultAppropriate InsultCApp InsultBApp InsultEApp InsultDApp ReprimandApp ReprimandTalkApp ReprimandNothingApp ReprimandRemarkApp ReprimandAvoidApp SpeakNegApp SpeakNegRemarkApp SpeakNegAvoidApp SpeakNegNothingApp SpeakNegTalkApp StayAwayApp StayAwayNothingApp StayAwayRemarkApp StayAwayAvoidApp StayAwayTalkApp

/EM(TOLERANCE=0.001 CONVERGENCE=0.0001 ITERATIONS=25 OUTFILE=impu).

\* To merge imputed variables with the rest, create Case ID in both files as follows.

COMPUTE MyID=$CASENUM.

EXECUTE.

COMPUTE ResponseID = STRING(MyID, F5.0).

EXECUTE.

DATASET ACTIVATE impu.

COMPUTE MyID=$CASENUM.

EXECUTE.

STRING ResponseID (A17).

COMPUTE ResponseID = STRING(MyID, F5.0).

EXECUTE.

MATCH FILES /FILE=\*

/FILE='rawdata'

/RENAME (PowerDistance\_Q7 Individualism\_Q6 PowerDistance\_Q2 Individualism\_Q9 Individualism\_Q4 Individualism\_Q1 Just\_abortion Indulgence\_Q16 Just\_divorce Indulgence\_Q17 Just\_beatwife Just\_homo Sce4AApp Sce2AApp Sce1AApp Sce3AApp StealPhysPunApp StealApp Sce4BApp Sce4CApp Sce4DApp Sce4EApp Sce2BApp Sce2CApp Sce2DApp Sce2EApp Sce1BApp Sce1CApp Sce1DApp Sce1EApp ReprimandApp SpeakNegApp StayAwayApp StealNothApp StealPhysPunNothApp InsultBApp ReprimandNothingApp SpeakNegNothingApp StayAwayNothingApp StealPhysPunRemApp StealRemarkApp InsultCApp ReprimandRemarkApp SpeakNegRemarkApp StayAwayRemarkApp StealPhysPunTalkApp StealTalkApp InsultDApp ReprimandTalkApp SpeakNegTalkApp StayAwayTalkApp StealAvoidApp StealPhysPunAvoidApp InsultEApp ReprimandAvoidApp SpeakNegAvoidApp StayAwayAvoidApp Sce3BApp Sce3CApp Sce3DApp Sce3EApp You\_avoid You\_confront Avoids\_you Talk\_about\_you You\_Talk Confront\_you PowerDistance\_Q20 Tightness\_Q5 Tightness\_Q2 Indulgence\_Q11 Indulgence\_Q12 MyID Tightness\_Q3 Tightness\_Q6 Tightness\_Q4 InsultAppropriate Just\_suicide Tightness\_Q1 Just\_violence PowerDistance\_Q23 = d0 d1 d2 d3 d4 d5 d6 d7 d8 d9 d10 d11 d12 d13 d14 d15 d16 d17 d18 d19 d20 d21 d22 d23 d24 d25 d26 d27 d28 d29 d30 d31 d32 d33 d34 d35 d36 d37 d38 d39 d40 d41 d42 d43 d44 d45 d46 d47 d48 d49 d50 d51 d52 d53 d54 d55 d56 d57 d58 d59 d60 d61 d62 d63 d64 d65 d66 d67 d68 d69 d70 d71 d72 d73 d74 d75 d76 d77 d78 d79 d80)

/BY ResponseId

/DROP= d0 d1 d2 d3 d4 d5 d6 d7 d8 d9 d10 d11 d12 d13 d14 d15 d16 d17 d18 d19 d20 d21 d22 d23 d24 d25 d26 d27 d28 d29 d30 d31 d32 d33 d34 d35 d36 d37 d38 d39 d40 d41 d42 d43 d44 d45 d46 d47 d48 d49 d50 d51 d52 d53 d54 d55 d56 d57 d58 d59 d60 d61 d62 d63 d64 d65 d66 d67 d68 d69 d70 d71 d72 d73 d74 d75 d76 d77 d78 d79 d80.

EXECUTE.

\* Save as ISMN\_ALL\_DATA\_imputed

SAVE OUTFILE='ISMN\_ALL\_DATA\_imputed.sav'

/COMPRESSED.

# Restructuring of appropriateness ratings by scenario

This syntax was applied to the file of imputed data (**ISMN\_ALL\_DATA\_Imputed).** It restructures appropriateness ratings by scenario so that every participant is represented by 10 rows of data, one for each scenario. The restructured data file is named **ISMN\_10\_rows\_per\_subject.**

VARSTOCASES

/ID=id

/MAKE appropriateness FROM StealApp StealNothApp StealRemarkApp StealTalkApp StealAvoidApp StealPhysPunApp StealPhysPunRemApp StealPhysPunTalkApp StealPhysPunAvoidApp StealPhysPunNothApp Sce1AApp Sce1CApp Sce1EApp Sce1BApp Sce1DApp Sce2AApp Sce2BApp Sce2DApp Sce2CApp Sce2EApp Sce3AApp Sce3CApp Sce3EApp Sce3BApp Sce3DApp Sce4AApp Sce4EApp Sce4DApp Sce4BApp Sce4CApp InsultAppropriate InsultCApp InsultBApp InsultEApp InsultDApp ReprimandApp ReprimandTalkApp ReprimandNothingApp ReprimandRemarkApp ReprimandAvoidApp

SpeakNegApp SpeakNegRemarkApp SpeakNegAvoidApp SpeakNegNothingApp SpeakNegTalkApp StayAwayApp StayAwayNothingApp StayAwayRemarkApp StayAwayAvoidApp StayAwayTalkApp

/INDEX=Scenario(appropriateness)

/KEEP=ResponseId SiteCountry City Sample DataCollection Gender Age Origin Degree Major Attention Comprehension Individualism\_Q1 PowerDistance\_Q2 Individualism\_Q4 Individualism\_Q6 PowerDistance\_Q7 Individualism\_Q9 Indulgence\_Q11 Indulgence\_Q12 Indulgence\_Q16 Indulgence\_Q17 PowerDistance\_Q20 PowerDistance\_Q23 You\_confront Confront\_you You\_Talk Talk\_about\_you You\_avoid Avoids\_you Important\_children\_1 Important\_children\_2 Important\_children\_3 Important\_children\_4 Important\_children\_5 Important\_children\_6 Important\_children\_7 Important\_children\_8 Important\_children\_9 Important\_children\_10 Just\_homo Just\_divorce Just\_abortion Just\_suicide Just\_beatwife Just\_violence Tightness\_Q1 Tightness\_Q2 Tightness\_Q3 Tightness\_Q4 Tightness\_Q5 Tightness\_Q6 Perceived\_threat\_1 Perceived\_threat\_2 Perceived\_threat\_3 Perceived\_threat\_4 Perceived\_threat\_5 Perceived\_threat\_6 Perceived\_threat\_7 Perceived\_threat\_8 Perceived\_threat\_9

/NULL=KEEP.

\* Recodes norm violations and responses to consistent names.

STRING Action (A8).

RECODE Scenario ('StealApp'='violate') ('StealNothApp'='nothing') ('StealRemarkApp'='verbal') ('StealTalkApp'='spread') ('StealAvoidApp'='avoid') ('StealPhysPunApp'='violate') ('StealPhysPunRemApp'='verbal') ('StealPhysPunTalkApp'='spread') ('StealPhysPunAvoidApp'='avoid')

('StealPhysPunNothApp'='nothing') ('Sce1AApp'='violate') ('Sce1CApp'='verbal')

('Sce1DApp'='spread') ('Sce1EApp'='avoid') ('Sce1BApp'='nothing') ('Sce2AApp'='violate') ('Sce2CApp'='verbal') ('Sce2DApp'='spread') ('Sce2EApp'='avoid') ('Sce2BApp'='nothing') ('Sce3AApp'='violate') ('Sce3CApp'='verbal') ('Sce3DApp'='spread') ('Sce3EApp'='avoid')

('Sce3BApp'='nothing') ('Sce4AApp'='violate') ('Sce4CApp'='verbal') ('Sce4DApp'='spread') ('Sce4EApp'='avoid') ('Sce4BApp'='nothing') ('InsultAppropriate'='violate') ('InsultCApp'='verbal') ('InsultDApp'='spread') ('InsultEApp'='avoid') ('InsultBApp'='nothing') ('ReprimandApp'='violate') ('ReprimandNothingApp'='nothing') ('ReprimandRemarkApp'='verbal') ('ReprimandTalkApp'='spread') ('ReprimandAvoidApp'='avoid') ('SpeakNegApp'='violate') ('SpeakNegNothingApp'='nothing') ('SpeakNegRemarkApp'='verbal')('SpeakNegTalkApp'='spread') ('SpeakNegAvoidApp'='avoid') ('StayAwayApp'='violate')('StayAwayNothingApp'='nothing') ('StayAwayRemarkApp'='verbal') ('StayAwayTalkApp'='spread') ('StayAwayAvoidApp'='avoid') INTO Action.

EXECUTE.

\* Recodes scenario labels to letters A through J.

STRING BasicScenario (A8).

RECODE Scenario ('StealApp'='A') ('StealNothApp'='A') ('StealRemarkApp'='A')

('StealTalkApp'='A') ('StealAvoidApp'='A') ('StealPhysPunApp'='F') ('StealPhysPunRemApp'='F') ('StealPhysPunTalkApp'='F')('StealPhysPunAvoidApp'='F')

('StealPhysPunNothApp'='F') ('Sce1AApp'=‘B’) ('Sce1BApp'=‘B’)('Sce1CApp'=‘B’)

('Sce1DApp'=‘B’) ('Sce1EApp'=‘B’) ('Sce2AApp'=‘C’)('Sce2BApp'=‘C’) ('Sce2CApp'=‘C’) ('Sce2DApp'=‘C’) ('Sce2EApp'=‘C’)('Sce3AApp'=‘D’) ('Sce3BApp'=‘D’) ('Sce3CApp'=‘D’) ('Sce3DApp'=‘D’) ('Sce3EApp'=‘D’)('Sce4AApp'=‘E’) ('Sce4BApp'=‘E’) ('Sce4CApp'=‘E’) ('Sce4DApp'=‘E’) ('Sce4EApp'=‘E’)('InsultAppropriate'=‘G’) ('InsultBApp'=‘G’) ('InsultCApp'=‘G’)('InsultDApp'=‘G’) ('InsultEApp'=‘G’)('ReprimandApp'=‘H’)

('ReprimandNothingApp'=‘H’) ('ReprimandRemarkApp'=‘H’)('ReprimandTalkApp'=‘H’) ('ReprimandAvoidApp'=‘H’) ('SpeakNegApp'=‘I’)('SpeakNegNothingApp'=‘I’) ('SpeakNegRemarkApp'=‘I’)('SpeakNegTalkApp'=‘I’) ('SpeakNegAvoidApp'=‘I’) ('StayAwayApp'=‘J’)('StayAwayNothingApp'=‘J’) ('StayAwayRemarkApp'=‘J’)

('StayAwayTalkApp'=‘J’) ('StayAwayAvoidApp'=‘J’) INTO BasicScenario.

EXECUTE.

SORT CASES BY ResponseId SiteCountry City Sample DataCollection BasicScenario Action.

CASESTOVARS

/ID=ResponseId SiteCountry City Sample DataCollection BasicScenario

/INDEX=Action

/GROUPBY=VARIABLE.

DELETE VARIABLES Scenario.avoid Scenario.verbal Scenario.spread Scenario.nothing Scenario.violate.

SAVE OUTFILE='ISMN\_10\_rows\_per\_subject.sav'

/COMPRESSED.

# Standardizing appropriateness ratings

This syntax was applied to the file of restructured data (**ISMN\_10\_rows\_per\_subject**) to calculate standardized appropriateness ratings (standardized by the difference between the participant’s mean rating and the global mean rating).

AGGREGATE

/OUTFILE=\* MODE=ADDVARIABLES

/BREAK=ResponseId SiteCountry

/appropriateness\_mean=MEAN(appropriateness).

AGGREGATE

/OUTFILE=\* MODE=ADDVARIABLES

/appropriateness\_global\_mean=MEAN(appropriateness).

COMPUTE appropriateness\_adjusted=appropriateness - appropriateness\_mean + appropriateness\_global\_mean.

EXECUTE.

# Hypothesis 1

This syntax was applied to the file of restructured data (**ISMN\_10\_rows\_per\_subject**) to calculate the country mean appropriateness ratings of norm violations and responses (placed in a new file **Country aggregated appropriateness**, and then calculate their within-country correlations (= standardized regression coefficients) placed in file **Correlations of appropriateness in each country**. Fig. 1 is drawn**.** Mean values of correlations, with bootstrapped 95% CIs, are calculated.

AGGREGATE

/OUTFILE='Country aggregated appropriateness.sav'

/BREAK=SiteCountry BasicScenario

/appropriateness\_adjusted.avoid\_mean=MEAN(appropriateness\_adjusted.avoid)

/appropriateness\_adjusted.verbal\_mean=MEAN(appropriateness\_adjusted.verbal)

/appropriateness\_adjusted.spread\_mean=MEAN(appropriateness\_adjusted.spread)

/appropriateness\_adjusted.nothing\_mean=MEAN(appropriateness\_adjusted.nothing)

/appropriateness\_adjusted.violate\_mean=MEAN(appropriateness\_adjusted.violate).

GET

FILE='Country aggregated appropriateness.sav'.

DATASET NAME Regressions WINDOW=FRONT.

SORT CASES BY SiteCountry.

SPLIT FILE LAYERED BY SiteCountry.

\* OMS.

DATASET DECLARE coeff2.

OMS

/SELECT TABLES

/IF COMMANDS=['Regression'] SUBTYPES=['Coefficients']

/DESTINATION FORMAT=SAV NUMBERED=TableNumber\_

OUTFILE='coeff2' VIEWER=YES

/TAG='coeff2id'.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT appropriateness\_adjusted.verbal\_mean

/METHOD=ENTER appropriateness\_adjusted.violate\_mean.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT appropriateness\_adjusted.spread\_mean

/METHOD=ENTER appropriateness\_adjusted.violate\_mean.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT appropriateness\_adjusted.avoid\_mean

/METHOD=ENTER appropriateness\_adjusted.violate\_mean.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT appropriateness\_adjusted.nothing\_mean

/METHOD=ENTER appropriateness\_adjusted.violate\_mean.

omsend tag = ['coeff2id'].

DATASET ACTIVATE coeff2.

SORT CASES BY TableNumber\_ Var1 Var3.

CASESTOVARS

/ID=TableNumber\_ Var1

/INDEX=Var3

/GROUPBY=VARIABLE.

DELETE VARIABLES Command\_ Subtype\_ Label\_ Var2 v1 v2 v3 v4.

VARIABLE LABELS

TableNumber\_ 'Reaction type'.

VALUE LABELS

TableNumber\_

1 'Verbal confrontation'

2 'Gossip'

3 'Social ostracism'

4 'Non-action'.

EXECUTE.

RENAME VARIABLES (TableNumber\_=Reaction) (Var1=Country).

VARIABLE LABELS

B.appropriateness\_adjusted.violate\_mean 'Correlation'.

SAVE OUTFILE='Correlations of appropriateness in each country.sav'

/COMPRESSED.

\* Produce boxplot graph.

COMPUTE filter\_$=(Reaction <= 4).

VARIABLE LABELS filter\_$ 'Reaction <= 4 (FILTER)'.

VALUE LABELS filter\_$ 0 'Not Selected' 1 'Selected'.

FORMATS filter\_$ (f1.0).

FILTER BY filter\_$.

EXECUTE.

EXAMINE VARIABLES=Beta BY Reaction

/PLOT=BOXPLOT

/STATISTICS=NONE

/NOTOTAL

/ID=Country.

\* Calculate means of correlations, with bootstrapped Cis.

BOOTSTRAP

/SAMPLING METHOD=SIMPLE

/VARIABLES TARGET=Beta INPUT= Reaction

/CRITERIA CILEVEL=95 CITYPE=BCA NSAMPLES=1000

/MISSING USERMISSING=EXCLUDE.

MEANS TABLES=Beta BY Reaction

/CELLS=MEAN COUNT STDDEV.

# Country measures of metanorms for verbal ability, social ostracism, gossip, non-action

This syntax was applied to the file of restructured data (**ISMN\_10\_rows\_per\_subject**) to calculate country measures of the metanorm for verbal confrontation (variable Estimate, rows 3-59, in the output from the MIXED command), which were manually copied-and-pasted to the file **Metanorms\_and\_other\_country\_measures** (stored as variable *metanorm\_verbal\_controlled*). The same syntax was also modified (see comments in the code) to calculate:

* metanorms for social ostracism, gossip, and non-action (stored as variables *metanorm\_avoid\_controlled, metanorm\_spread\_controlled, metanorm\_nothing\_controlled*)
* metanorms based on other sets of scenarios (all ten scenarios, stored as variables *metanorm\_verbal\_controlled10*, etc.; only out-of-place scenarios, stored as variables *metanorm\_verbal\_BCDE*, etc.; each of ten single scenarios, stored as variables *verbal.1* through *verbal.10*, etc.)
* metanorms based on smaller population units than countries (cities, stored in separate file **Metanorms per city**; students and nonstudents, stored in separate file **Metanorms in countrysamples**)

\* To calculate metanorms for other responses, use the same syntax with the string “verbal” replaced by “avoid” (for social ostracism), “spread” (for gossip)”, “nothing” (for non-action).

\* The set of multiple scenarios on which metanorms are based is set here. For single scenarios, use code further below.

COMPUTE filter\_$=(Any(BasicScenario,"A","B","C","D","E")).

VARIABLE LABELS filter\_$ 'Established norm violations'.

VALUE LABELS filter\_$ 0 'Not Selected' 1 'Selected'.

FORMATS filter\_$ (f1.0).

FILTER BY filter\_$.

EXECUTE.

\* Create dummy variables for other population units by changing here.

SPSSINC CREATE DUMMIES VARIABLE=SiteCountry

ROOTNAME1=CountryDummy

/OPTIONS ORDER=A USEVALUELABELS=YES USEML=YES OMITFIRST=YES.

\* Calculate control variables (centered norm violation appropriateness at individual and population unit level).

AGGREGATE

/OUTFILE=\* MODE=ADDVARIABLES

/BREAK=BasicScenario

/appropriateness\_adjusted.violate\_globalmean=MEAN(appropriateness\_adjusted.violate).

COMPUTE appropriateness\_adjusted.violate\_centered=appropriateness\_adjusted.violate-appropriateness\_adjusted.violate\_globalmean.

EXECUTE.

AGGREGATE

/OUTFILE=\* MODE=ADDVARIABLES

/BREAK=BasicScenario SiteCountry

/appropriateness\_adjusted.violate\_centered\_countrymean=MEAN(appropriateness\_adjusted.violate\_centered).

\* The MIXED command that calculates metanorm measures. If using another population unit than country, change to the corresponding set of dummy variables.

MIXED appropriateness\_adjusted.verbal WITH appropriateness\_adjusted.violate\_centered\_countrymean

appropriateness\_adjusted.violate\_centered CountryDummy\_1 CountryDummy\_2 CountryDummy\_3

CountryDummy\_4 CountryDummy\_5 CountryDummy\_6 CountryDummy\_7 CountryDummy\_8 CountryDummy\_9 CountryDummy\_10 CountryDummy\_11 CountryDummy\_12 CountryDummy\_13 CountryDummy\_14 CountryDummy\_15 CountryDummy\_16 CountryDummy\_17 CountryDummy\_18 CountryDummy\_19 CountryDummy\_20 CountryDummy\_21 CountryDummy\_22 CountryDummy\_23 CountryDummy\_24 CountryDummy\_25 CountryDummy\_26 CountryDummy\_27 CountryDummy\_28 CountryDummy\_29 CountryDummy\_30 CountryDummy\_31 CountryDummy\_32 CountryDummy\_33 CountryDummy\_34 CountryDummy\_35 CountryDummy\_36 CountryDummy\_37 CountryDummy\_38 CountryDummy\_39 CountryDummy\_40 CountryDummy\_41 CountryDummy\_42 CountryDummy\_43 CountryDummy\_44 CountryDummy\_45 CountryDummy\_46 CountryDummy\_47 CountryDummy\_48 CountryDummy\_49 CountryDummy\_50 CountryDummy\_51 CountryDummy\_52 CountryDummy\_53 CountryDummy\_54 CountryDummy\_55 CountryDummy\_56 CountryDummy\_57

/CRITERIA=CIN(95) MXITER(100) MXSTEP(10) SCORING(1) SINGULAR(0.000000000001) HCONVERGE(0, ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVERGE(0.000001, ABSOLUTE)

/FIXED=appropriateness\_adjusted.violate\_centered\_countrymean

appropriateness\_adjusted.violate\_centered CountryDummy\_1 CountryDummy\_2 CountryDummy\_3 CountryDummy\_4 CountryDummy\_5 CountryDummy\_6 CountryDummy\_7 CountryDummy\_8 CountryDummy\_9 CountryDummy\_10 CountryDummy\_11 CountryDummy\_12 CountryDummy\_13 CountryDummy\_14 CountryDummy\_15 CountryDummy\_16 CountryDummy\_17 CountryDummy\_18 CountryDummy\_19 CountryDummy\_20 CountryDummy\_21 CountryDummy\_22 CountryDummy\_23 CountryDummy\_24 CountryDummy\_25 CountryDummy\_26 CountryDummy\_27

CountryDummy\_28 CountryDummy\_29 CountryDummy\_30 CountryDummy\_31 CountryDummy\_32 CountryDummy\_33 CountryDummy\_34 CountryDummy\_35 CountryDummy\_36 CountryDummy\_37 CountryDummy\_38 CountryDummy\_39 CountryDummy\_40 CountryDummy\_41 CountryDummy\_42 CountryDummy\_43 CountryDummy\_44 CountryDummy\_45 CountryDummy\_46 CountryDummy\_47 CountryDummy\_48 CountryDummy\_49 CountryDummy\_50 CountryDummy\_51 CountryDummy\_52 CountryDummy\_53 CountryDummy\_54 CountryDummy\_55 CountryDummy\_56 CountryDummy\_57

| NOINT SSTYPE(3)

/METHOD=REML

/PRINT=SOLUTION

/RANDOM=INTERCEPT | SUBJECT(ResponseID) COVTYPE(VC).

\* The following code generates metanorm measures based on each separate scenario.

SORT CASES BY BasicScenario.

SPLIT FILE LAYERED BY BasicScenario.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA

/CRITERIA=PIN(.05) POUT(.10)

/ORIGIN

/DEPENDENT appropriateness\_adjusted.verbal

/METHOD=ENTER appropriateness\_adjusted.violate CountryDummy\_1 CountryDummy\_2 CountryDummy\_3 CountryDummy\_4 CountryDummy\_5 CountryDummy\_6 CountryDummy\_7 CountryDummy\_8 CountryDummy\_9 CountryDummy\_10 CountryDummy\_11 CountryDummy\_12 CountryDummy\_13 CountryDummy\_14 CountryDummy\_15 CountryDummy\_16 CountryDummy\_17 CountryDummy\_18 CountryDummy\_19 CountryDummy\_20 CountryDummy\_21 CountryDummy\_22 CountryDummy\_23 CountryDummy\_24 CountryDummy\_25 CountryDummy\_26 CountryDummy\_27

CountryDummy\_28 CountryDummy\_29 CountryDummy\_30 CountryDummy\_31 CountryDummy\_32 CountryDummy\_33 CountryDummy\_34 CountryDummy\_35 CountryDummy\_36 CountryDummy\_37 CountryDummy\_38 CountryDummy\_39 CountryDummy\_40 CountryDummy\_41 CountryDummy\_42 CountryDummy\_43 CountryDummy\_44 CountryDummy\_45 CountryDummy\_46 CountryDummy\_47 CountryDummy\_48 CountryDummy\_49 CountryDummy\_50 CountryDummy\_51 CountryDummy\_52 CountryDummy\_53 CountryDummy\_54 CountryDummy\_55 CountryDummy\_56 CountryDummy\_57.

# Country measures of the metanorm for physical confrontation

This syntax was applied to the file of restructured data (**ISMN\_10\_rows\_per\_subject**) to calculate country measures of the metanorm for physical confrontation, which were manually copied-and-pasted to the file **Metanorms\_and\_other\_country\_measures** (stored as variable *metanorm\_physical\_uncontrolled*). The same syntax was also modified (see comments in the code) to calculate separate metanorms for physical confrontation in response to non-cooperation (stored as *phys.cooperation*) and insult (stored as *phys.insult*), andbased on other population units than countries (cities, stored in separate file **Metanorms per city**; students and nonstudents, stored in separate file **Metanorms in countrysamples**).

\* To obtain metanorm measures for physical confrontation based only non-cooperation (scenario F) or only on insult (scenario), change the filter here.

COMPUTE filter\_$=(BasicScenario="F" or BasicScenario="G").

VARIABLE LABELS filter\_$ 'BasicScenario="F" or BasicScenario="G" (FILTER)'.

VALUE LABELS filter\_$ 0 'Not Selected' 1 'Selected'.

FORMATS filter\_$ (f1.0).

FILTER BY filter\_$.

EXECUTE.

\* Change the break variable to use another population unit variable than country in the calculation here.

AGGREGATE

/BREAK=SiteCountry

/appropriateness\_adjusted.violate\_mean=MEAN(appropriateness\_adjusted.violate).

# Proportion of variance of city-level metanorms explained by country

Proportion of variance of city-level metanorms explained by country was calculated by applying the following syntax to file **Metanorms per city.**

\* Use only countries with data from multiple cities.

COMPUTE filter\_$=(multiple\_cities).

VARIABLE LABELS filter\_$ 'multiple\_cities (FILTER)'.

VALUE LABELS filter\_$ 0 'Not Selected' 1 'Selected'.

FORMATS filter\_$ (f1.0).

FILTER BY filter\_$.

EXECUTE.

\* ANOVAs to calculate how much variation is accounted for by country.

UNIANOVA physical\_city BY SiteCountry

/METHOD=SSTYPE(3)

/INTERCEPT=INCLUDE

/CRITERIA=ALPHA(.05)

/DESIGN=SiteCountry.

UNIANOVA verbal\_city BY SiteCountry

/METHOD=SSTYPE(3)

/INTERCEPT=INCLUDE

/CRITERIA=ALPHA(.05)

/DESIGN=SiteCountry.

UNIANOVA avoid\_city BY SiteCountry

/METHOD=SSTYPE(3)

/INTERCEPT=INCLUDE

/CRITERIA=ALPHA(.05)

/DESIGN=SiteCountry.

UNIANOVA spread\_city BY SiteCountry

/METHOD=SSTYPE(3)

/INTERCEPT=INCLUDE

/CRITERIA=ALPHA(.05)

/DESIGN=SiteCountry.

UNIANOVA nothing\_city BY SiteCountry

/METHOD=SSTYPE(3)

/INTERCEPT=INCLUDE

/CRITERIA=ALPHA(.05)

/DESIGN=SiteCountry.

# Proportion of variance of sample-level (student vs. nonstudent) metanorms explained by country

Proportion of variance of sample-level metanorms explained by country was calculated by applying the following syntax to file **Metanorms in countrysamples**

\* Use only countries with data from multiple sample.

COMPUTE filter\_$=(multiplesamples).

VARIABLE LABELS filter\_$ 'multiplesamples (FILTER)'.

VALUE LABELS filter\_$ 0 'Not Selected' 1 'Selected'.

FORMATS filter\_$ (f1.0).

FILTER BY filter\_$.

EXECUTE.

\* ANOVAs to calculate how much variation is accounted for by country.

UNIANOVA physical BY Country

/METHOD=SSTYPE(3)

/INTERCEPT=INCLUDE

/CRITERIA=ALPHA(0.05)

/DESIGN=Country.

UNIANOVA verbal BY Country

/METHOD=SSTYPE(3)

/INTERCEPT=INCLUDE

/CRITERIA=ALPHA(0.05)

/DESIGN=Country.

UNIANOVA avoid BY Country

/METHOD=SSTYPE(3)

/INTERCEPT=INCLUDE

/CRITERIA=ALPHA(0.05)

/DESIGN=Country.

UNIANOVA spread BY Country

/METHOD=SSTYPE(3)

/INTERCEPT=INCLUDE

/CRITERIA=ALPHA(0.05)

/DESIGN=Country.

UNIANOVA nothing BY Country

/METHOD=SSTYPE(3)

/INTERCEPT=INCLUDE

/CRITERIA=ALPHA(0.05)

/DESIGN=Country.

# Fig. 2

The color-coded maps in Fig. 2 are based on z-scored metanorm measures in **Metanorms\_and\_other\_country\_measures** (variables *Zmetanorm\_physical\_uncontrolled*, etc.), calculated through the following syntax.

DESCRIPTIVES VARIABLES=metanorm\_physical\_uncontrolled metanorm\_verbal\_controlled

metanorm\_avoid\_controlled metanorm\_spread\_controlled metanorm\_nothing\_controlled

/SAVE

/STATISTICS=MEAN.

# Hypothesis 2

This syntax was applied to the file of country measures (**Metanorms\_and\_other\_country\_measures**) to perform the analyses of Hypothesis 2 for verbal confrontation (correlations and internal consistency). The same syntax was also modified (see comments in the code) to perform the corresponding analyses for social ostracism, gossip, and non-action.

\* To perform analyses for other responses, use the same syntax with the string “verbal” replaced by “avoid” (for social ostracism), “spread” (for gossip)”, “nothing” (for non-action).

BOOTSTRAP

/SAMPLING METHOD=SIMPLE

/VARIABLES INPUT=metanorm\_verbal\_controlled verbal.1

/CRITERIA CILEVEL=95 CITYPE=BCA NSAMPLES=1000

/MISSING USERMISSING=EXCLUDE.

CORRELATIONS

/VARIABLES=metanorm\_verbal\_controlled verbal.1

/PRINT=TWOTAIL NOSIG

/MISSING=PAIRWISE.

BOOTSTRAP

/SAMPLING METHOD=SIMPLE

/VARIABLES INPUT=metanorm\_verbal\_controlled metanorm\_verbal\_controlled10

/CRITERIA CILEVEL=95 CITYPE=BCA NSAMPLES=1000

/MISSING USERMISSING=EXCLUDE.

CORRELATIONS

/VARIABLES=metanorm\_verbal\_controlled metanorm\_verbal\_controlled10

/PRINT=TWOTAIL NOSIG

/MISSING=PAIRWISE.

RELIABILITY

/VARIABLES=verbal.1 verbal.2 verbal.3 verbal.4 verbal.5 verbal.6 verbal.7 verbal.8 verbal.9 verbal.10

/SCALE('ALL VARIABLES') ALL

/MODEL=ALPHA.

\* Analyses of physical confrontation metanorm measures come next.

BOOTSTRAP

/SAMPLING METHOD=SIMPLE

/VARIABLES INPUT=metanorm\_physical\_uncontrolled phys.cooperation

/CRITERIA CILEVEL=95 CITYPE=BCA NSAMPLES=1000

/MISSING USERMISSING=EXCLUDE.

CORRELATIONS

/VARIABLES=metanorm\_physical\_uncontrolled phys.cooperation

/PRINT=TWOTAIL NOSIG

/MISSING=PAIRWISE.

RELIABILITY

/VARIABLES=phys.cooperation phys.insult

/SCALE('ALL VARIABLES') ALL

/MODEL=ALPHA.

# Hypothesis 3

This syntax was applied to the file of country measures (**Metanorms\_and\_other\_country\_measures**) to perform the analysis of Hypothesis 3.

BOOTSTRAP

/SAMPLING METHOD=SIMPLE

/VARIABLES INPUT=metanorm\_physical\_uncontrolled metanorm\_verbal\_controlled

metanorm\_avoid\_controlled metanorm\_spread\_controlled metanorm\_nothing\_controlled

/CRITERIA CILEVEL=95 CITYPE=BCA NSAMPLES=1000

/MISSING USERMISSING=EXCLUDE.

PARTIAL CORR

/VARIABLES=metanorm\_physical\_uncontrolled metanorm\_verbal\_controlled metanorm\_avoid\_controlled metanorm\_spread\_controlled BY metanorm\_nothing\_controlled

/SIGNIFICANCE=TWOTAIL

/MISSING=LISTWISE.

# Country measures of use of different reponses

This syntax was applied to the file **ISMN\_10\_rows\_per\_subject** to calculate country measures of the use of confrontation, social ostracism, and gossip, which were manually copied-and-pasted to the file **Metanorms\_and\_other\_country\_measures** (stored as variables *Use\_confront\_mean, Use\_avoid\_mean,* *Use\_spread\_mean*).

AGGREGATE

/OUTFILE='aggr\_use'

/BREAK=SiteCountry

/Use\_confront\_mean=MEAN(You\_confront)

/Use\_spread\_mean=MEAN(You\_Talk)

/Use\_avoid\_mean=MEAN(You\_avoid).

# Hypothesis 4

This syntax was applied to the file of country measures (**Metanorms\_and\_other\_country\_measures**) to perform the analysis of Hypothesis 4.

BOOTSTRAP

/SAMPLING METHOD=SIMPLE

/VARIABLES INPUT=metanorm\_physical\_uncontrolled metanorm\_verbal\_controlled

metanorm\_avoid\_controlled metanorm\_spread\_controlled metanorm\_nothing\_controlled Use\_confront\_mean Use\_spread\_mean Use\_avoid\_mean

/CRITERIA CILEVEL=95 CITYPE=BCA NSAMPLES=1000

/MISSING USERMISSING=EXCLUDE.

CORRELATIONS Use\_confront\_mean Use\_avoid\_mean Use\_spread\_mean WITH metanorm\_physical\_uncontrolled metanorm\_verbal\_controlled metanorm\_avoid\_controlled

metanorm\_spread\_controlled metanorm\_nothing\_controlled.

# Country measures of culture from survey data

This syntax was applied to the file **ISMN\_10\_rows\_per\_subject** to calculate internal consistency and, when adequate, country scores, from survey data on scales for indulgence, power distance, individualism, individual autonomy, emancipative moral judgments, pro-violence attitudes, tightness, and perceived threat. Country scores were manually copied-and-pasted to file **Metanorms\_and\_other\_country\_measures** (stored as variables *Autonomy\_scale, Liberal\_values, Proviolence\_values, Tightness\_adjusted\_scale, Threat\_scale*).

\* Start by standardizing tightness ratings by mean appropriateness ratings.

COMPUTE Tightness\_Q1\_adjusted=Tightness\_Q1-appropriateness\_mean.

EXECUTE.

COMPUTE Tightness\_Q2\_adjusted=Tightness\_Q2-appropriateness\_mean.

EXECUTE.

COMPUTE Tightness\_Q3\_adjusted=Tightness\_Q3-appropriateness\_mean.

EXECUTE.

COMPUTE Tightness\_Q4\_adjusted=Tightness\_Q4-appropriateness\_mean.

EXECUTE.

COMPUTE Tightness\_Q5\_adjusted=Tightness\_Q5-appropriateness\_mean.

EXECUTE.

COMPUTE Tightness\_Q6\_adjusted=Tightness\_Q6-appropriateness\_mean.

EXECUTE.

\* Aggregate ratings on culture items to country level.

DATASET DECLARE aggr\_scales.

AGGREGATE

/OUTFILE='aggr\_scales'

/BREAK=SiteCountry

/Indulgence\_Q11\_mean=MEAN(Indulgence\_Q11)

/Indulgence\_Q12\_mean=MEAN(Indulgence\_Q12)

/Indulgence\_Q16\_mean=MEAN(Indulgence\_Q16)

/Indulgence\_Q17\_mean=MEAN(Indulgence\_Q17)

/PowerDistance\_Q2\_mean=MEAN(PowerDistance\_Q2)

/PowerDistance\_Q7\_mean=MEAN(PowerDistance\_Q7)

/PowerDistance\_Q20\_mean=MEAN(PowerDistance\_Q20)

/PowerDistance\_Q23\_mean=MEAN(PowerDistance\_Q23)

/Individualism\_Q1\_mean=MEAN(Individualism\_Q1)

/Individualism\_Q4\_mean=MEAN(Individualism\_Q4)

/Individualism\_Q6\_mean=MEAN(Individualism\_Q6)

/Individualism\_Q9\_mean=MEAN(Individualism\_Q9)

/Important\_children\_1\_mean=MEAN(Important\_children\_1)

/Important\_children\_2\_mean=MEAN(Important\_children\_2)

/Important\_children\_3\_mean=MEAN(Important\_children\_3)

/Important\_children\_4\_mean=MEAN(Important\_children\_4)

/Important\_children\_5\_mean=MEAN(Important\_children\_5)

/Important\_children\_6\_mean=MEAN(Important\_children\_6)

/Important\_children\_7\_mean=MEAN(Important\_children\_7)

/Important\_children\_8\_mean=MEAN(Important\_children\_8)

/Important\_children\_9\_mean=MEAN(Important\_children\_9)

/Important\_children\_10\_mean=MEAN(Important\_children\_10)

/Just\_homo\_mean=MEAN(Just\_homo)

/Just\_divorce\_mean=MEAN(Just\_divorce)

/Just\_abortion\_mean=MEAN(Just\_abortion)

/Just\_suicide\_mean=MEAN(Just\_suicide)

/Just\_beatwife\_mean=MEAN(Just\_beatwife)

/Just\_violence\_mean=MEAN(Just\_violence)

/Tightness\_Q1\_adjusted\_mean=MEAN(Tightness\_Q1\_adjusted)

/Tightness\_Q2\_adjusted\_mean=MEAN(Tightness\_Q2\_adjusted)

/Tightness\_Q3\_adjusted\_mean=MEAN(Tightness\_Q3\_adjusted)

/Tightness\_Q4\_adjusted\_mean=MEAN(Tightness\_Q4\_adjusted)

/Tightness\_Q5\_adjusted\_mean=MEAN(Tightness\_Q5\_adjusted)

/Tightness\_Q6\_adjusted\_mean=MEAN(Tightness\_Q6\_adjusted)

/Perceived\_threat\_1\_mean=MEAN(Perceived\_threat\_1)

/Perceived\_threat\_2\_mean=MEAN(Perceived\_threat\_2)

/Perceived\_threat\_3\_mean=MEAN(Perceived\_threat\_3)

/Perceived\_threat\_4\_mean=MEAN(Perceived\_threat\_4)

/Perceived\_threat\_5\_mean=MEAN(Perceived\_threat\_5)

/Perceived\_threat\_6\_mean=MEAN(Perceived\_threat\_6)

/Perceived\_threat\_7\_mean=MEAN(Perceived\_threat\_7)

/Perceived\_threat\_8\_mean=MEAN(Perceived\_threat\_8)

/Perceived\_threat\_9\_mean=MEAN(Perceived\_threat\_9).

DATASET ACTIVATE aggr\_scales.

\* Establish poor internal consistency of Hofstede scales.

RELIABILITY

/VARIABLES=Indulgence\_Q11\_mean Indulgence\_Q12\_mean Indulgence\_Q16\_mean Indulgence\_Q17\_mean

/SCALE('ALL VARIABLES') ALL

/MODEL=ALPHA.

RELIABILITY

/VARIABLES=PowerDistance\_Q2\_mean PowerDistance\_Q7\_mean PowerDistance\_Q20\_mean

PowerDistance\_Q23\_mean

/SCALE('ALL VARIABLES') ALL

/MODEL=ALPHA.

RELIABILITY

/VARIABLES=Individualism\_Q1\_mean Individualism\_Q4\_mean Individualism\_Q6\_mean Individualism\_Q9\_mean

/SCALE('ALL VARIABLES') ALL

/MODEL=ALPHA.

\* Establish adequate internal consistency of individual autonomy scale and calculate country scores.

COMPUTE Important\_children\_8\_rev = -Important\_children\_8\_mean.

EXECUTE.

COMPUTE Important\_children\_10\_rev = -Important\_children\_10\_mean.

EXECUTE.

RELIABILITY

/VARIABLES=Important\_children\_1\_mean Important\_children\_7\_mean Important\_children\_10\_rev Important\_children\_8\_rev

/SCALE('ALL VARIABLES') ALL

/MODEL=ALPHA.

COMPUTE Autonomy\_scale=Important\_children\_1\_mean + Important\_children\_7\_mean -Important\_children\_8\_mean - Important\_children\_10\_mean.

EXECUTE.

\* Establish adequate internal consistency of emancipative moral judgments scale and calculate country scores.

RELIABILITY

/VARIABLES=Just\_homo\_mean Just\_divorce\_mean Just\_abortion\_mean Just\_suicide\_mean

/SCALE('ALL VARIABLES') ALL

/MODEL=ALPHA.

COMPUTE Liberal\_values=mean(Just\_homo\_mean, Just\_divorce\_mean, Just\_abortion\_mean, Just\_suicide\_mean).

EXECUTE.

\* Establish adequate internal consistency of pro-violence attitudes scale and calculate country scores.

RELIABILITY

/VARIABLES=Just\_beatwife\_mean Just\_violence\_mean

/SCALE('ALL VARIABLES') ALL

/MODEL=ALPHA.

COMPUTE Proviolence\_values=mean(Just\_beatwife\_mean, Just\_violence\_mean).

EXECUTE.

\* Establish adequate internal consistency of tightness scale and calculate country scores.

RELIABILITY

/VARIABLES= Tightness\_Q1\_adjusted\_mean Tightness\_Q2\_adjusted\_mean Tightness\_Q3\_adjusted\_mean Tightness\_Q4\_adjusted\_mean Tightness\_Q5\_adjusted\_mean Tightness\_Q6\_adjusted\_mean

/SCALE('ALL VARIABLES') ALL

/MODEL=ALPHA.

COMPUTE Tightness\_adjusted\_scale=mean(Tightness\_Q1\_adjusted\_mean, Tightness\_Q2\_adjusted\_mean, Tightness\_Q3\_adjusted\_mean, Tightness\_Q4\_adjusted\_mean, Tightness\_Q5\_adjusted\_mean, Tightness\_Q6\_adjusted\_mean).

EXECUTE.

\* Establish adequate internal consistency of threat scale and calculate country scores.

RELIABILITY

/VARIABLES= Perceived\_threat\_1\_mean Perceived\_threat\_2\_mean Perceived\_threat\_3\_mean Perceived\_threat\_4\_mean Perceived\_threat\_5\_mean Perceived\_threat\_6\_mean Perceived\_threat\_7\_mean Perceived\_threat\_8\_mean Perceived\_threat\_9\_mean

/SCALE('ALL VARIABLES') ALL

/MODEL=ALPHA.

COMPUTE Threat\_scale=mean(Perceived\_threat\_1\_mean, Perceived\_threat\_2\_mean, Perceived\_threat\_3\_mean, Perceived\_threat\_4\_mean, Perceived\_threat\_5\_mean, Perceived\_threat\_6\_mean, Perceived\_threat\_7\_mean, Perceived\_threat\_8\_mean, Perceived\_threat\_9\_mean).

EXECUTE.

# Country measures from other sources

We manually pasted to the file **Metanorms\_and\_other\_country\_measures** country scores from others sources as follows. Measures of indulgence, power distance, and individualism from Hofstede Insights (<https://www.hofstede-insights.com/product/compare-countries/>) were stored as variables *Hofstede\_Indulgence, Hofstede\_Power\_Distance, Hofstede\_Individualism*. A measure of historical pathogen prevalence from Murray and Schaller (2010) was stored as variable *Historical\_prevalence\_pathogens*. The Global Gender Gap Index 2020 measure of gender equality from the World Economic Forum (2020) was stored as variable *GGGI2020*.

A measure of median per-capita income from Gallup (2013) was stored as variable *Median\_income*.

# Hypothesis 5

This syntax was applied to the file of country measures (**Metanorms\_and\_other\_country\_measures**) to perform the analysis of Hypothesis 5 and draw Fig. 3.

\* Correlations beween metanorms and other country measures.

BOOTSTRAP

/SAMPLING METHOD=SIMPLE

/VARIABLES INPUT=metanorm\_physical\_uncontrolled metanorm\_verbal\_controlled

metanorm\_avoid\_controlled metanorm\_spread\_controlled metanorm\_nothing\_controlled

Hofstede\_Indulgence

/CRITERIA CILEVEL=95 CITYPE=BCA NSAMPLES=1000

/MISSING USERMISSING=EXCLUDE.

CORRELATIONS Hofstede\_Indulgence WITH metanorm\_physical\_uncontrolled metanorm\_verbal\_controlled metanorm\_avoid\_controlled metanorm\_spread\_controlled metanorm\_nothing\_controlled

BOOTSTRAP

/SAMPLING METHOD=SIMPLE

/VARIABLES INPUT=metanorm\_physical\_uncontrolled metanorm\_verbal\_controlled

metanorm\_avoid\_controlled metanorm\_spread\_controlled metanorm\_nothing\_controlled

Hofstede\_Power\_Distance Hofstede\_Individualism

/CRITERIA CILEVEL=95 CITYPE=BCA NSAMPLES=1000

/MISSING USERMISSING=EXCLUDE.

CORRELATIONS Hofstede\_Power\_Distance Hofstede\_Individualism WITH metanorm\_physical\_uncontrolled metanorm\_verbal\_controlled metanorm\_avoid\_controlled metanorm\_spread\_controlled metanorm\_nothing\_controlled

BOOTSTRAP

/SAMPLING METHOD=SIMPLE

/VARIABLES INPUT=metanorm\_physical\_uncontrolled metanorm\_verbal\_controlled

metanorm\_avoid\_controlled metanorm\_spread\_controlled metanorm\_nothing\_controlled

Autonomy\_scale Liberal\_values Proviolence\_values Tightness\_adjusted\_scale Threat\_scale Historical\_prevalence\_pathogens GGGI2020

/CRITERIA CILEVEL=95 CITYPE=BCA NSAMPLES=1000

/MISSING USERMISSING=EXCLUDE.

CORRELATIONS Autonomy\_scale Liberal\_values Proviolence\_values Tightness\_adjusted\_scale Threat\_scale Historical\_prevalence\_pathogens GGGI2020 WITH metanorm\_physical\_uncontrolled metanorm\_verbal\_controlled metanorm\_avoid\_controlled metanorm\_spread\_controlled metanorm\_nothing\_controlled

BOOTSTRAP

/SAMPLING METHOD=SIMPLE

/VARIABLES INPUT=metanorm\_physical\_uncontrolled metanorm\_verbal\_controlled

metanorm\_avoid\_controlled metanorm\_spread\_controlled metanorm\_nothing\_controlled

Median\_income

/CRITERIA CILEVEL=95 CITYPE=BCA NSAMPLES=1000

/MISSING USERMISSING=EXCLUDE.

CORRELATIONS Median\_income WITH metanorm\_physical\_uncontrolled metanorm\_verbal\_controlled metanorm\_avoid\_controlled metanorm\_spread\_controlled metanorm\_nothing\_controlled

\* Intercorrelations of other country measures.

CORRELATIONS

/VARIABLES=Hofstede\_Indulgence Hofstede\_Power\_Distance Hofstede\_Individualism Autonomy\_scale Liberal\_values Proviolence\_values Tightness\_adjusted\_scale Threat\_scale

Historical\_prevalence\_pathogens GGGI2020 Median\_income

/PRINT=TWOTAIL NOSIG

/MISSING=PAIRWISE.

\* Draw the two panels of Fig. 3.

GRAPH

/SCATTERPLOT(BIVAR)=Median\_income WITH metanorm\_physical\_uncontrolled BY CountryISO (IDENTIFY)

/MISSING=LISTWISE.

GRAPH

/SCATTERPLOT(BIVAR)=Median\_income WITH metanorm\_spread\_controlled BY CountryISO (IDENTIFY)

/MISSING=LISTWISE.