“ This script performs hierarchical regressions. ”

“ Radetz et al. (2021): Linking microstructural integrity and motor ”

“ cortex excitability in multiple sclerosis ”

“ Angela Radetz, 06/2020 ”

“MS: motor threshold on FA and NODDI values”

DATASET ACTIVATE DatenSet1.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA

/CRITERIA=PIN(.05) POUT(.05001)

/NOORIGIN

/DEPENDENT thresh

/METHOD=BACKWARD age gender lvol\_m1

/METHOD=BACKWARD odi\_gm\_leftm1\_ms

/METHOD=BACKWARD fiso\_gm\_leftm1\_ms

/METHOD=BACKWARD fa\_gm\_leftm1\_ms

/METHOD=BACKWARD ndi\_gm\_leftm1\_ms

/CASEWISE PLOT(ZRESID) OUTLIERS(3).

“HC: motor threshold on FA and NODDI values”

DATASET ACTIVATE DatenSet1.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA

/CRITERIA=PIN(.05) POUT(.05001)

/NOORIGIN

/DEPENDENT thresh

/METHOD=BACKWARD age gender lvol\_m1

/METHOD=BACKWARD fa\_gm\_leftm1\_ms

/METHOD=BACKWARD fiso\_gm\_leftm1\_ms

/METHOD=BACKWARD odi\_gm\_leftm1\_ms

/METHOD=BACKWARD ndi\_gm\_leftm1\_ms

/CASEWISE PLOT(ZRESID) OUTLIERS(3).

“MS: 9HPT on FA and NODDI values”

DATASET ACTIVATE DatenSet1.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA

/CRITERIA=PIN(.05) POUT(.05001)

/NOORIGIN

/DEPENDENT nhpt

/METHOD=BACKWARD age gender lvol\_m1

/METHOD=BACKWARD odi\_gm\_leftm1

/METHOD=BACKWARD fiso\_gm\_leftm1

/METHOD=BACKWARD fa\_gm\_leftm1

/METHOD=BACKWARD ndi\_gm\_leftm1

/CASEWISE PLOT(ZRESID) OUTLIERS(3).

“MS: TMT-A on FA and NODDI values”

DATASET ACTIVATE DatenSet1.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA

/CRITERIA=PIN(.05) POUT(.05001)

/NOORIGIN

/DEPENDENT tmt\_a

/METHOD=BACKWARD age gender lvol\_m1

/METHOD=BACKWARD odi\_gm\_leftm1

/METHOD=BACKWARD fa\_gm\_leftm1

/METHOD=BACKWARD fiso\_gm\_leftm1

/METHOD=BACKWARD ndi\_gm\_leftm1

/CASEWISE PLOT(ZRESID) OUTLIERS(3).

“MS: TMT-B on FA and NODDI values”

DATASET ACTIVATE DatenSet1.

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA

/CRITERIA=PIN(.05) POUT(.05001)

/NOORIGIN

/DEPENDENT tmt\_b

/METHOD=BACKWARD age gender lvol\_m1

/METHOD=BACKWARD fa\_gm\_leftm1

/METHOD=BACKWARD odi\_gm\_leftm1

/METHOD=BACKWARD fiso\_gm\_leftm1

/METHOD=BACKWARD ndi\_gm\_leftm1

/CASEWISE PLOT(ZRESID) OUTLIERS(3).