**Appendix 3** Latent Gold Syntax: predictors to classification

version = 5.1

infile 'Step1\_C1\_S4.sav'

model

title LM\_C1\_S4\_age\_group;

options

maxthreads=4;

algorithm

tolerance=1e-008 emtolerance=0,01 emiterations=250 nriterations=50 ;

startvalues

seed=0 sets=16 tolerance=1e-005 iterations=50;

bayes

categorical=1 variances=1 latent=0 poisson=1;

montecarlo

seed=0 sets=0 replicates=500 tolerance=1e-008;

quadrature nodes=10;

missing includeall;

step3 proportional ml;

output

parameters=effect betaopts=wl standarderrors=robust profile=posterior

probmeans=posterior;

variables

independent age\_group;

latent State nominal posterior = (State#1 State#2 State#3 State#4);

psuid idnr;

equations

State <- 1 + age\_group;

end model

model

title LM\_C1\_S4\_gender;

options

maxthreads=4;

algorithm

tolerance=1e-008 emtolerance=0,01 emiterations=250 nriterations=50 ;

startvalues

seed=0 sets=16 tolerance=1e-005 iterations=50;

bayes

categorical=1 variances=1 latent=0 poisson=1;

montecarlo

seed=0 sets=0 replicates=500 tolerance=1e-008;

quadrature nodes=10;

missing includeall;

step3 proportional ml;

output

parameters=effect betaopts=wl standarderrors=robust profile=posterior

probmeans=posterior;

variables

independent gender;

latent State nominal posterior = (State#1 State#2 State#3 State#4);

psuid idnr;

equations

State <- 1 + gender;

end model

model

title LM\_C1\_S4\_illness\_duration\_group;

options

maxthreads=4;

algorithm

tolerance=1e-008 emtolerance=0,01 emiterations=250 nriterations=50 ;

startvalues

seed=0 sets=16 tolerance=1e-005 iterations=50;

bayes

categorical=1 variances=1 latent=0 poisson=1;

montecarlo

seed=0 sets=0 replicates=500 tolerance=1e-008;

quadrature nodes=10;

missing includeall;

step3 proportional ml;

output

parameters=effect betaopts=wl standarderrors=robust profile=posterior

probmeans=posterior;

variables

independent illness\_duration\_group;

latent State nominal posterior = (State#1 State#2 State#3 State#4);

psuid idnr;

equations

State <- 1 + illness\_duration\_group;

end model

model

title LM\_C1\_S4\_Antipsychotic;

options

maxthreads=4;

algorithm

tolerance=1e-008 emtolerance=0,01 emiterations=250 nriterations=50 ;

startvalues

seed=0 sets=16 tolerance=1e-005 iterations=50;

bayes

categorical=1 variances=1 latent=0 poisson=1;

montecarlo

seed=0 sets=0 replicates=500 tolerance=1e-008;

quadrature nodes=10;

missing includeall;

step3 proportional ml;

output

parameters=effect betaopts=wl standarderrors=robust profile=posterior

probmeans=posterior;

variables

independent Antipsychotic;

latent State nominal posterior = (State#1 State#2 State#3 State#4);

psuid idnr;

equations

State <- 1 + Antipsychotic;

end model

model

title LM\_C1\_S4\_DSM\_diagnosis;

options

maxthreads=4;

algorithm

tolerance=1e-008 emtolerance=0,01 emiterations=250 nriterations=50 ;

startvalues

seed=0 sets=16 tolerance=1e-005 iterations=50;

bayes

categorical=1 variances=1 latent=0 poisson=1;

montecarlo

seed=0 sets=0 replicates=500 tolerance=1e-008;

quadrature nodes=10;

missing includeall;

step3 proportional ml;

output

parameters=effect betaopts=wl standarderrors=robust profile=posterior

probmeans=posterior;

variables

independent DSM\_diagnosis;

latent State nominal posterior = (State#1 State#2 State#3 State#4);

psuid idnr;

equations

State <- 1 + DSM\_diagnosis;

end model