Survival Analysis Models

Three models are included thus far.

A quatrics model(p1 - Final)

A discrete model (p1-p7 as linear, and p8.optional & Final as dummies)

A regional model (p1-p7, whereas p8 & Final are excluded)

Each of the models contains a base model and a final model.

The base model only includes milestones.

The final model includes all significant predictors and interaction terms.

Survival analysis predicting logit hazard of dropout

Dependent variable:

Logit Odd

quatrics-base

quatrics-final

regional-base

regional-final

discrete-base

discrete- final

(1)

(2)

(3)

(4)

(5)

(6)

milestones

-0.981\*\*\*

-0.809\*\*\*

-0.325\*\*\*

-0.291\*\*\*

-0.325\*\*\*

-0.137\*\*\*

(0.018)

(0.031)

(0.007)

(0.026)

(0.007)

(0.019)

milestones2

0.102\*\*\*

0.084\*\*\*

(0.002)

(0.003)

csexperience

-0.243\*\*\*

-0.244\*\*\*

-0.310\*\*\*

(0.026)

(0.029)

(0.026)

male

-0.374\*\*\*

-0.423\*\*\*

-0.466\*\*\*

(0.067)

(0.076)

(0.068)

school

0.071\*\*

0.073\*\*

(0.036)

(0.036)

testtot

-0.373\*\*\*

-0.432\*\*\*

-0.433\*\*\*

(0.028)

(0.032)

(0.029)

age.scale.raw

-0.084\*\*\*

-0.101\*\*\*

-0.118\*\*\*

(0.026)

(0.029)

(0.025)

motiv

-0.092\*\*\*

-0.094\*\*\*

-0.094\*\*\*

(0.016)

(0.016)

(0.016)

gamehour5

0.047\*\*\*

0.048\*\*\*

0.044\*\*\*

(0.016)

(0.016)

(0.015)

foreign

0.253\*\*\*

0.259\*\*\*

0.245\*\*\*

(0.032)

(0.032)

(0.031)

milestones:testtot

0.064\*\*\*

0.090\*\*\*

0.078\*\*\*

(0.008)

(0.012)

(0.008)

m8:testtot

0.502\*\*\*

(0.102)

mf:testtot

0.646\*\*\*

(0.119)

milestones:csexperience

0.024\*\*\*

0.023\*\*

0.044\*\*\*

(0.007)

(0.010)

(0.007)

m8:csexperience

0.210\*\*

(0.084)

mf:csexperience

0.300\*\*

(0.127)

milestones:male

0.041\*\*

0.064\*\*

0.071\*\*\*

(0.020)

(0.028)

(0.021)

m8:male

0.069

(0.257)

mf:male

0.599

(0.408)

milestones:age.scale.raw

0.014\*\*

0.022\*\*

0.018\*\*\*

(0.006)

(0.009)

(0.006)

m8:age.scale.raw

0.045

(0.079)

mf:age.scale.raw

0.240\*\*

(0.122)

m8

-1.089\*\*\*

-0.713\*\*\*

(0.059)

(0.242)

mf

1.098\*\*\*

1.097\*\*\*

(0.084)

(0.381)

Constant

1.043\*\*\*

0.733\*\*\*

0.343\*\*\*

0.192\*\*\*

0.343\*\*\*

-0.061

(0.026)

(0.072)

(0.018)

(0.073)

(0.018)

(0.064)

Observations

46,496

21,356

46,496

21,356

44,106

21,364

Log Likelihood

-29,595.760

-12,969.600

-29,588.460

-12,841.860

-28,222.250

-13,367.850

Akaike Inf. Crit.

59,197.520

25,969.190

59,184.910

25,731.710

56,448.510

26,761.700

Note:

*p<0.1;* ***p<0.05;*** p<0.01