-------------------------------------------------------------------------------------------------------------------------------------------------------------------

name: <unnamed>

log: C:\Users\fanwa.BC\Downloads\Untitled.log

log type: text

opened on: 19 Feb 2019, 10:49:32

. dis comb(10, 4)\*.3^4\*.7^6

.20012095

. do "C:\Users\fanwa.BC\AppData\Local\Temp\STD2794\_000000.tmp"

. drop if deathyr >= .

(3,577 observations deleted)

. stset deathyr, failure(deathw12) id(hhidpn) origin(time byear) enter(time firstinyr)

id: hhidpn

failure event: deathw12 != 0 & deathw12 < .

obs. time interval: (deathyr[\_n-1], deathyr]

enter on or after: time firstinyr

exit on or before: failure

t for analysis: (time-origin)

origin: time byear

------------------------------------------------------------------------------

33,918 total observations

0 exclusions

------------------------------------------------------------------------------

33,918 observations remaining, representing

33,918 subjects

10,716 failures in single-failure-per-subject data

441,292 total analysis time at risk and under observation

at risk from t = 0

earliest observed entry t = 18

last observed exit t = 115

. tab \_t0

analysis |

time when |

record |

begins | Freq. Percent Cum.

------------+-----------------------------------

18 | 1 0.00 0.00

19 | 1 0.00 0.01

22 | 2 0.01 0.01

23 | 2 0.01 0.02

24 | 3 0.01 0.03

25 | 7 0.02 0.05

26 | 4 0.01 0.06

27 | 3 0.01 0.07

28 | 7 0.02 0.09

29 | 9 0.03 0.11

30 | 11 0.03 0.15

31 | 17 0.05 0.20

32 | 20 0.06 0.26

33 | 20 0.06 0.32

34 | 27 0.08 0.40

35 | 30 0.09 0.48

36 | 48 0.14 0.63

37 | 44 0.13 0.75

38 | 75 0.22 0.98

39 | 78 0.23 1.21

40 | 90 0.27 1.47

41 | 92 0.27 1.74

42 | 135 0.40 2.14

43 | 173 0.51 2.65

44 | 217 0.64 3.29

45 | 264 0.78 4.07

46 | 330 0.97 5.04

47 | 390 1.15 6.19

48 | 478 1.41 7.60

49 | 629 1.85 9.46

50 | 797 2.35 11.80

51 | 2,523 7.44 19.24

52 | 2,584 7.62 26.86

53 | 2,359 6.96 33.82

54 | 2,307 6.80 40.62

55 | 2,228 6.57 47.19

56 | 2,003 5.91 53.09

57 | 1,056 3.11 56.21

58 | 1,077 3.18 59.38

59 | 904 2.67 62.05

60 | 969 2.86 64.90

61 | 883 2.60 67.51

62 | 437 1.29 68.80

63 | 296 0.87 69.67

64 | 262 0.77 70.44

65 | 267 0.79 71.23

66 | 204 0.60 71.83

67 | 231 0.68 72.51

68 | 512 1.51 74.02

69 | 499 1.47 75.49

70 | 795 2.34 77.83

71 | 884 2.61 80.44

72 | 833 2.46 82.90

73 | 750 2.21 85.11

74 | 731 2.16 87.26

75 | 459 1.35 88.62

76 | 402 1.19 89.80

77 | 379 1.12 90.92

78 | 339 1.00 91.92

79 | 335 0.99 92.91

80 | 358 1.06 93.96

81 | 335 0.99 94.95

82 | 277 0.82 95.77

83 | 240 0.71 96.47

84 | 238 0.70 97.18

85 | 199 0.59 97.76

86 | 161 0.47 98.24

87 | 128 0.38 98.61

88 | 108 0.32 98.93

89 | 87 0.26 99.19

90 | 78 0.23 99.42

91 | 38 0.11 99.53

92 | 35 0.10 99.63

93 | 35 0.10 99.74

94 | 21 0.06 99.80

95 | 17 0.05 99.85

96 | 19 0.06 99.91

97 | 7 0.02 99.93

98 | 12 0.04 99.96

99 | 4 0.01 99.97

100 | 4 0.01 99.99

101 | 3 0.01 99.99

103 | 2 0.01 100.00

------------+-----------------------------------

Total | 33,918 100.00

. drop if \_t0 < 50

(3,207 observations deleted)

.

end of do-file

. do "C:\Users\fanwa.BC\AppData\Local\Temp\STD2794\_000000.tmp"

. streg female eduyrs, dist(weibull) // PH with exp(beta); note the 95% CI for ln\_p (= 0) or p (= 1) --> constant hazard rejected

failure \_d: deathw12

analysis time \_t: (deathyr-origin)

origin: time byear

enter on or after: time firstinyr

id: hhidpn

Fitting constant-only model:

Iteration 0: log likelihood = -2642.3155

Iteration 1: log likelihood = -3662256.8

Iteration 2: log likelihood = .

Iteration 3: log likelihood = .

Iteration 4: log likelihood = .

Iteration 5: log likelihood = .

Iteration 6: log likelihood = .

Iteration 7: log likelihood = .

Iteration 8: log likelihood = .

Iteration 9: log likelihood = .

Iteration 10: log likelihood = .

Iteration 11: log likelihood = .

Iteration 12: log likelihood = .

Iteration 13: log likelihood = .

Iteration 14: log likelihood = .

Iteration 15: log likelihood = .

Iteration 16: log likelihood = .

Iteration 17: log likelihood = .

Iteration 18: log likelihood = .

Iteration 19: log likelihood = .

Iteration 20: log likelihood = .

convergence not achieved

Attempting constant-only model again:

initial: log likelihood = -4593.7235

alternative: log likelihood = -2087.7189

rescale: log likelihood = -2087.7189

rescale eq: log likelihood = -225.59262

Iteration 0: log likelihood = -225.59262 (not concave)

Iteration 1: log likelihood = 1382.6521

Iteration 2: log likelihood = 2714.4366

Iteration 3: log likelihood = 3011.5633

Iteration 4: log likelihood = 3014.3307

Iteration 5: log likelihood = 3014.3332

Iteration 6: log likelihood = 3014.3332

Fitting full model:

Iteration 0: log likelihood = 3014.3332

Iteration 1: log likelihood = 3334.9896

Iteration 2: log likelihood = 3343.3105

Iteration 3: log likelihood = 3343.3169

Iteration 4: log likelihood = 3343.3169

Weibull PH regression

No. of subjects = 30,607 Number of obs = 30,607

No. of failures = 10,550

Time at risk = 394767

LR chi2(2) = 657.97

Log likelihood = 3343.3169 Prob > chi2 = 0.0000

------------------------------------------------------------------------------

\_t | Haz. Ratio Std. Err. z P>|z| [95% Conf. Interval]

-------------+----------------------------------------------------------------

female | .6990074 .0137217 -18.24 0.000 .6726243 .7264254

eduyrs | .9533439 .0024024 -18.96 0.000 .9486468 .9580643

\_cons | 1.58e-16 5.52e-17 -104.33 0.000 7.99e-17 3.14e-16

-------------+----------------------------------------------------------------

/ln\_p | 2.11648 .0092266 229.39 0.000 2.098396 2.134564

-------------+----------------------------------------------------------------

p | 8.301866 .0765982 8.153086 8.453362

1/p | .1204548 .0011114 .1182961 .1226529

------------------------------------------------------------------------------

Note: Estimates are transformed only in the first equation.

Note: \_cons estimates baseline hazard.

.

end of do-file

. do "C:\Users\fanwa.BC\AppData\Local\Temp\STD2794\_000000.tmp"

. streg female eduyrs, dist(weibull) nohr // PH with beta

failure \_d: deathw12

analysis time \_t: (deathyr-origin)

origin: time byear

enter on or after: time firstinyr

id: hhidpn

Fitting constant-only model:

Iteration 0: log likelihood = -2642.3155

Iteration 1: log likelihood = -3662256.8

Iteration 2: log likelihood = .

Iteration 3: log likelihood = .

Iteration 4: log likelihood = .

Iteration 5: log likelihood = .

Iteration 6: log likelihood = .

Iteration 7: log likelihood = .

Iteration 8: log likelihood = .

Iteration 9: log likelihood = .

Iteration 10: log likelihood = .

Iteration 11: log likelihood = .

Iteration 12: log likelihood = .

Iteration 13: log likelihood = .

Iteration 14: log likelihood = .

Iteration 15: log likelihood = .

Iteration 16: log likelihood = .

Iteration 17: log likelihood = .

Iteration 18: log likelihood = .

Iteration 19: log likelihood = .

Iteration 20: log likelihood = .

convergence not achieved

Attempting constant-only model again:

initial: log likelihood = -4593.7235

alternative: log likelihood = -2087.7189

rescale: log likelihood = -2087.7189

rescale eq: log likelihood = -225.59262

Iteration 0: log likelihood = -225.59262 (not concave)

Iteration 1: log likelihood = 1382.6521

Iteration 2: log likelihood = 2714.4366

Iteration 3: log likelihood = 3011.5633

Iteration 4: log likelihood = 3014.3307

Iteration 5: log likelihood = 3014.3332

Iteration 6: log likelihood = 3014.3332

Fitting full model:

Iteration 0: log likelihood = 3014.3332

Iteration 1: log likelihood = 3334.9896

Iteration 2: log likelihood = 3343.3105

Iteration 3: log likelihood = 3343.3169

Iteration 4: log likelihood = 3343.3169

Weibull PH regression

No. of subjects = 30,607 Number of obs = 30,607

No. of failures = 10,550

Time at risk = 394767

LR chi2(2) = 657.97

Log likelihood = 3343.3169 Prob > chi2 = 0.0000

------------------------------------------------------------------------------

\_t | Coef. Std. Err. z P>|z| [95% Conf. Interval]

-------------+----------------------------------------------------------------

female | -.3580939 .0196302 -18.24 0.000 -.3965684 -.3196194

eduyrs | -.0477796 .00252 -18.96 0.000 -.0527187 -.0428404

\_cons | -36.38195 .3487048 -104.33 0.000 -37.0654 -35.6985

-------------+----------------------------------------------------------------

/ln\_p | 2.11648 .0092266 229.39 0.000 2.098396 2.134564

-------------+----------------------------------------------------------------

p | 8.301866 .0765982 8.153086 8.453362

1/p | .1204548 .0011114 .1182961 .1226529

------------------------------------------------------------------------------

.

end of do-file

. do "C:\Users\fanwa.BC\AppData\Local\Temp\STD2794\_000000.tmp"

. streg female eduyrs, dist(lognormal) tr // AFT with exp(beta)

failure \_d: deathw12

analysis time \_t: (deathyr-origin)

origin: time byear

enter on or after: time firstinyr

id: hhidpn

Fitting constant-only model:

Iteration 0: log likelihood = -4479.8096 (not concave)

Iteration 1: log likelihood = -3613.0715 (not concave)

Iteration 2: log likelihood = -3516.4012 (not concave)

Iteration 3: log likelihood = -3374.6992 (not concave)

Iteration 4: log likelihood = -3187.0713 (not concave)

Iteration 5: log likelihood = -2838.9883 (not concave)

Iteration 6: log likelihood = -2414.0092 (not concave)

Iteration 7: log likelihood = -461.0628 (not concave)

Iteration 8: log likelihood = 1974.0155

Iteration 9: log likelihood = 2291.7325

Iteration 10: log likelihood = 2422.0734

Iteration 11: log likelihood = 2422.191

Iteration 12: log likelihood = 2422.191

Fitting full model:

Iteration 0: log likelihood = 2422.191

Iteration 1: log likelihood = 2756.3548

Iteration 2: log likelihood = 2774.827

Iteration 3: log likelihood = 2774.876

Iteration 4: log likelihood = 2774.876

Lognormal AFT regression

No. of subjects = 30,607 Number of obs = 30,607

No. of failures = 10,550

Time at risk = 394767

LR chi2(2) = 705.37

Log likelihood = 2774.876 Prob > chi2 = 0.0000

------------------------------------------------------------------------------

\_t | Time Ratio Std. Err. z P>|z| [95% Conf. Interval]

-------------+----------------------------------------------------------------

female | 1.049534 .0029063 17.46 0.000 1.043853 1.055246

eduyrs | 1.00836 .0004259 19.71 0.000 1.007525 1.009195

\_cons | 73.15805 .3968406 791.35 0.000 72.38438 73.93999

-------------+----------------------------------------------------------------

/lnsigma | -1.878352 .0075925 -247.40 0.000 -1.893233 -1.863471

-------------+----------------------------------------------------------------

sigma | .1528418 .0011605 .1505842 .1551332

------------------------------------------------------------------------------

Note: Estimates are transformed only in the first equation.

Note: \_cons estimates baseline time.

.

end of do-file

. do "C:\Users\fanwa.BC\AppData\Local\Temp\STD2794\_000000.tmp"

. streg female eduyrs, dist(weibull) time

failure \_d: deathw12

analysis time \_t: (deathyr-origin)

origin: time byear

enter on or after: time firstinyr

id: hhidpn

Fitting constant-only model:

Iteration 0: log likelihood = -2642.3155

Iteration 1: log likelihood = -3662256.8

Iteration 2: log likelihood = .

Iteration 3: log likelihood = .

Iteration 4: log likelihood = .

Iteration 5: log likelihood = .

Iteration 6: log likelihood = .

Iteration 7: log likelihood = .

Iteration 8: log likelihood = .

Iteration 9: log likelihood = .

Iteration 10: log likelihood = .

Iteration 11: log likelihood = .

Iteration 12: log likelihood = .

Iteration 13: log likelihood = .

Iteration 14: log likelihood = .

Iteration 15: log likelihood = .

Iteration 16: log likelihood = .

Iteration 17: log likelihood = .

Iteration 18: log likelihood = .

Iteration 19: log likelihood = .

Iteration 20: log likelihood = .

convergence not achieved

Attempting constant-only model again:

initial: log likelihood = -4593.7235

alternative: log likelihood = -2087.7189

rescale: log likelihood = -2087.7189

rescale eq: log likelihood = -225.59262

Iteration 0: log likelihood = -225.59262 (not concave)

Iteration 1: log likelihood = 1382.6521

Iteration 2: log likelihood = 2714.4366

Iteration 3: log likelihood = 3011.5633

Iteration 4: log likelihood = 3014.3307

Iteration 5: log likelihood = 3014.3332

Iteration 6: log likelihood = 3014.3332

Fitting full model:

Iteration 0: log likelihood = 3014.3332

Iteration 1: log likelihood = 3334.9896

Iteration 2: log likelihood = 3343.3105

Iteration 3: log likelihood = 3343.3169

Iteration 4: log likelihood = 3343.3169

Weibull AFT regression

No. of subjects = 30,607 Number of obs = 30,607

No. of failures = 10,550

Time at risk = 394767

LR chi2(2) = 657.97

Log likelihood = 3343.3169 Prob > chi2 = 0.0000

------------------------------------------------------------------------------

\_t | Coef. Std. Err. z P>|z| [95% Conf. Interval]

-------------+----------------------------------------------------------------

female | .0431341 .0023522 18.34 0.000 .0385239 .0477443

eduyrs | .0057553 .0003164 18.19 0.000 .0051351 .0063754

\_cons | 4.382382 .0039853 1099.64 0.000 4.374571 4.390193

-------------+----------------------------------------------------------------

/ln\_p | 2.11648 .0092266 229.39 0.000 2.098396 2.134564

-------------+----------------------------------------------------------------

p | 8.301866 .0765982 8.153086 8.453362

1/p | .1204548 .0011114 .1182961 .1226529

------------------------------------------------------------------------------

. predict t\_mean, mean time

(104 missing values generated)

. predict t\_median, median time

(104 missing values generated)

.

end of do-file

. bysort female: sum t\_mean

-------------------------------------------------------------------------------------------------------------------------------------------------------------------

-> female = 0

Variable | Obs Mean Std. Dev. Min Max

-------------+---------------------------------------------------------

t\_mean | 14,020 81.00308 1.684833 75.50046 83.26085

-------------------------------------------------------------------------------------------------------------------------------------------------------------------

-> female = 1

Variable | Obs Mean Std. Dev. Min Max

-------------+---------------------------------------------------------

t\_mean | 16,587 84.46193 1.607638 78.82836 86.93082

. do "C:\Users\fanwa.BC\AppData\Local\Temp\STD2794\_000000.tmp"

. streg female eduyrs, dist(weibull)

failure \_d: deathw12

analysis time \_t: (deathyr-origin)

origin: time byear

enter on or after: time firstinyr

id: hhidpn

Fitting constant-only model:

Iteration 0: log likelihood = -2642.3155

Iteration 1: log likelihood = -3662256.8

Iteration 2: log likelihood = .

Iteration 3: log likelihood = .

Iteration 4: log likelihood = .

Iteration 5: log likelihood = .

Iteration 6: log likelihood = .

Iteration 7: log likelihood = .

Iteration 8: log likelihood = .

Iteration 9: log likelihood = .

Iteration 10: log likelihood = .

Iteration 11: log likelihood = .

Iteration 12: log likelihood = .

Iteration 13: log likelihood = .

Iteration 14: log likelihood = .

Iteration 15: log likelihood = .

Iteration 16: log likelihood = .

Iteration 17: log likelihood = .

Iteration 18: log likelihood = .

Iteration 19: log likelihood = .

Iteration 20: log likelihood = .

convergence not achieved

Attempting constant-only model again:

initial: log likelihood = -4593.7235

alternative: log likelihood = -2087.7189

rescale: log likelihood = -2087.7189

rescale eq: log likelihood = -225.59262

Iteration 0: log likelihood = -225.59262 (not concave)

Iteration 1: log likelihood = 1382.6521

Iteration 2: log likelihood = 2714.4366

Iteration 3: log likelihood = 3011.5633

Iteration 4: log likelihood = 3014.3307

Iteration 5: log likelihood = 3014.3332

Iteration 6: log likelihood = 3014.3332

Fitting full model:

Iteration 0: log likelihood = 3014.3332

Iteration 1: log likelihood = 3334.9896

Iteration 2: log likelihood = 3343.3105

Iteration 3: log likelihood = 3343.3169

Iteration 4: log likelihood = 3343.3169

Weibull PH regression

No. of subjects = 30,607 Number of obs = 30,607

No. of failures = 10,550

Time at risk = 394767

LR chi2(2) = 657.97

Log likelihood = 3343.3169 Prob > chi2 = 0.0000

------------------------------------------------------------------------------

\_t | Haz. Ratio Std. Err. z P>|z| [95% Conf. Interval]

-------------+----------------------------------------------------------------

female | .6990074 .0137217 -18.24 0.000 .6726243 .7264254

eduyrs | .9533439 .0024024 -18.96 0.000 .9486468 .9580643

\_cons | 1.58e-16 5.52e-17 -104.33 0.000 7.99e-17 3.14e-16

-------------+----------------------------------------------------------------

/ln\_p | 2.11648 .0092266 229.39 0.000 2.098396 2.134564

-------------+----------------------------------------------------------------

p | 8.301866 .0765982 8.153086 8.453362

1/p | .1204548 .0011114 .1182961 .1226529

------------------------------------------------------------------------------

Note: Estimates are transformed only in the first equation.

Note: \_cons estimates baseline hazard.

.

end of do-file

. do "C:\Users\fanwa.BC\AppData\Local\Temp\STD2794\_000000.tmp"

. margins, predict(mean)

Predictive margins Number of obs = 30,607

Model VCE : OIM

Expression : Predicted mean \_t, predict(mean)

------------------------------------------------------------------------------

| Delta-method

| Margin Std. Err. z P>|z| [95% Conf. Interval]

-------------+----------------------------------------------------------------

\_cons | 82.87755 .1110221 746.50 0.000 82.65995 83.09515

------------------------------------------------------------------------------

.

end of do-file

. do "C:\Users\fanwa.BC\AppData\Local\Temp\STD2794\_000000.tmp"

. margins, predict(mean) at(female = (0 1))

Predictive margins Number of obs = 30,607

Model VCE : OIM

Expression : Predicted mean \_t, predict(mean)

1.\_at : female = 0

2.\_at : female = 1

------------------------------------------------------------------------------

| Delta-method

| Margin Std. Err. z P>|z| [95% Conf. Interval]

-------------+----------------------------------------------------------------

\_at |

1 | 80.94516 .1481158 546.50 0.000 80.65485 81.23546

2 | 84.51305 .1466855 576.15 0.000 84.22555 84.80055

------------------------------------------------------------------------------

.

end of do-file

. do "C:\Users\fanwa.BC\AppData\Local\Temp\STD2794\_000000.tmp"

. margins, predict(mean) dydx(female) at(eduyrs = (9(3)15))

Average marginal effects Number of obs = 30,607

Model VCE : OIM

Expression : Predicted mean \_t, predict(mean)

dy/dx w.r.t. : female

1.\_at : eduyrs = 9

2.\_at : eduyrs = 12

3.\_at : eduyrs = 15

------------------------------------------------------------------------------

| Delta-method

| dy/dx Std. Err. z P>|z| [95% Conf. Interval]

-------------+----------------------------------------------------------------

female |

\_at |

1 | 3.511707 .1916068 18.33 0.000 3.136165 3.88725

2 | 3.572866 .1950738 18.32 0.000 3.190529 3.955204

3 | 3.635091 .1986634 18.30 0.000 3.245717 4.024464

------------------------------------------------------------------------------

.

end of do-file

. do "C:\Users\fanwa.BC\AppData\Local\Temp\STD2794\_000000.tmp"

. marginsplot

Variables that uniquely identify margins: eduyrs

.

end of do-file

. streg female##c.eduyrs, dist(weibull)

failure \_d: deathw12

analysis time \_t: (deathyr-origin)

origin: time byear

enter on or after: time firstinyr

id: hhidpn

Fitting constant-only model:

Iteration 0: log likelihood = -2642.3155

Iteration 1: log likelihood = -3662256.8

Iteration 2: log likelihood = .

Iteration 3: log likelihood = .

Iteration 4: log likelihood = .

Iteration 5: log likelihood = .

Iteration 6: log likelihood = .

Iteration 7: log likelihood = .

Iteration 8: log likelihood = .

Iteration 9: log likelihood = .

Iteration 10: log likelihood = .

Iteration 11: log likelihood = .

Iteration 12: log likelihood = .

Iteration 13: log likelihood = .

Iteration 14: log likelihood = .

Iteration 15: log likelihood = .

Iteration 16: log likelihood = .

Iteration 17: log likelihood = .

Iteration 18: log likelihood = .

Iteration 19: log likelihood = .

Iteration 20: log likelihood = .

convergence not achieved

Attempting constant-only model again:

initial: log likelihood = -4593.7235

alternative: log likelihood = -2087.7189

rescale: log likelihood = -2087.7189

rescale eq: log likelihood = -225.59262

Iteration 0: log likelihood = -225.59262 (not concave)

Iteration 1: log likelihood = 1382.6521

Iteration 2: log likelihood = 2714.4366

Iteration 3: log likelihood = 3011.5633

Iteration 4: log likelihood = 3014.3307

Iteration 5: log likelihood = 3014.3332

Iteration 6: log likelihood = 3014.3332

Fitting full model:

Iteration 0: log likelihood = 3014.3332

Iteration 1: log likelihood = 3324.6067

Iteration 2: log likelihood = 3343.3616

Iteration 3: log likelihood = 3343.4223

Iteration 4: log likelihood = 3343.4223

Weibull PH regression

No. of subjects = 30,607 Number of obs = 30,607

No. of failures = 10,550

Time at risk = 394767

LR chi2(3) = 658.18

Log likelihood = 3343.4223 Prob > chi2 = 0.0000

---------------------------------------------------------------------------------

\_t | Haz. Ratio Std. Err. z P>|z| [95% Conf. Interval]

----------------+----------------------------------------------------------------

1.female | .6816505 .0396569 -6.59 0.000 .6081921 .7639814

eduyrs | .9523341 .0032518 -14.30 0.000 .9459819 .958729

|

female#c.eduyrs |

1 | 1.002294 .0050018 0.46 0.646 .9925383 1.012145

|

\_cons | 1.60e-16 5.57e-17 -104.19 0.000 8.05e-17 3.16e-16

----------------+----------------------------------------------------------------

/ln\_p | 2.116586 .0092288 229.35 0.000 2.098498 2.134674

----------------+----------------------------------------------------------------

p | 8.30274 .0766239 8.15391 8.454286

1/p | .1204422 .0011115 .1182832 .1226406

---------------------------------------------------------------------------------

Note: Estimates are transformed only in the first equation.

Note: \_cons estimates baseline hazard.

. do "C:\Users\fanwa.BC\AppData\Local\Temp\STD2794\_000000.tmp"

. streg female eduyrs, dist(gompertz)

failure \_d: deathw12

analysis time \_t: (deathyr-origin)

origin: time byear

enter on or after: time firstinyr

id: hhidpn

Fitting constant-only model:

Iteration 0: log likelihood = -2642.1976

Iteration 1: log likelihood = -132.15655

Iteration 2: log likelihood = 3034.2804

Iteration 3: log likelihood = 3041.6614

Iteration 4: log likelihood = 3041.664

Iteration 5: log likelihood = 3041.664

Fitting full model:

Iteration 0: log likelihood = 3041.664

Iteration 1: log likelihood = 3365.0357

Iteration 2: log likelihood = 3373.3431

Iteration 3: log likelihood = 3373.3494

Iteration 4: log likelihood = 3373.3494

Gompertz PH regression

No. of subjects = 30,607 Number of obs = 30,607

No. of failures = 10,550

Time at risk = 394767

LR chi2(2) = 663.37

Log likelihood = 3373.3494 Prob > chi2 = 0.0000

------------------------------------------------------------------------------

\_t | Haz. Ratio Std. Err. z P>|z| [95% Conf. Interval]

-------------+----------------------------------------------------------------

female | .6927283 .0136109 -18.68 0.000 .6665586 .7199254

eduyrs | .9540539 .0024036 -18.67 0.000 .9493546 .9587765

\_cons | .0000473 4.02e-06 -117.39 0.000 .0000401 .0000559

-------------+----------------------------------------------------------------

/gamma | .095298 .0009459 100.74 0.000 .093444 .097152

------------------------------------------------------------------------------

Note: Estimates are transformed only in the first equation.

Note: \_cons estimates baseline hazard.

.

end of do-file

. do "C:\Users\fanwa.BC\AppData\Local\Temp\STD2794\_000000.tmp"

. stcurve, hazard at1(female = 0 eduyrs = 9) ///

> at2(female = 0 eduyrs = 16) ///

> at3(female = 1 eduyrs = 9) ///

> at4(female = 1 eduyrs = 16)

.

end of do-file

. do "C:\Users\fanwa.BC\AppData\Local\Temp\STD2794\_000000.tmp"

. stcurve, survival

.

end of do-file

. log close

name: <unnamed>

log: C:\Users\fanwa.BC\Downloads\Untitled.log

log type: text

closed on: 19 Feb 2019, 11:46:57

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