```
1 .
2 . use "E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May Baydoun_folder\UK_BIOBANK_PROJECT\UKB_PAPER3_LE8INFECTDEM\DATA\

3 .
4 .
5 . ***********************************************STSET FOR AD*********************************
6 . stset Age_AD, failure(ad_diag==1) enter(baselineage) id(n_eid) scale(1)

  Survival-time data settings

            ID variable: n_eid
          Failure event: ad_diag==1
Observed time interval: (Age_AD[_n-1], Age_AD]
     Enter on or after: time baselineage
     Exit on or before: failure

------------------------------------------------------------------------------
    502,389  total observations
          3  event time missing (Age_AD>=.)                 PROBABLE ERROR
         18  observations end on or before enter()
------------------------------------------------------------------------------
    502,368  observations remaining, representing
    502,368  subjects
      3,272  failures in single-failure-per-subject data
  6,221,064  total analysis time at risk and under observation
                                        At risk from t =         0
                             Earliest observed entry t =  37.41821
                                  Last observed exit t =  87.63313

7 .
8 .
9 .
10 . ***************************************************************OVERALL******************
11 .
12 . **Model 1**
13 .
14 .  stcox infectionburdenhospbr AGE SEX NonWhite householdsize SES LE8_TOTALSCORE if sample_final2==1

        Failure _d: ad_diag==1
  Analysis time _t: Age_AD
  Enter on or after: time baselineage
       ID variable: n_eid

Iteration 0:   log likelihood = -29849.733
Iteration 1:   log likelihood = -29657.493
Iteration 2:   log likelihood =  -29649.32
Iteration 3:   log likelihood = -29649.307
Refining estimates:
Iteration 0:   log likelihood = -29649.307

Cox regression with Breslow method for ties

No. of subjects =     351,337                       Number of obs = 351,337
No. of failures =       2,595
Time at risk    = 4,357,327.7
                                                    LR chi2(7)    =  400.85
Log likelihood = -29649.307                         Prob > chi2   =  0.0000
```

_t	Haz. ratio	Std. err.	z	P>|z|	[95% conf.	interval]
infectionburdenhospbr	**1.93357**	**.089392**	**14.26**	**0.000**	**1.766069**	**2.116959**
AGE	**.9237835**	**.0076679**	**-9.55**	**0.000**	**.9088763**	**.9389352**
SEX	**.9119399**	**.0360378**	**-2.33**	**0.020**	**.8439733**	**.9853801**
NonWhite	**1.06075**	**.1142002**	**0.55**	**0.584**	**.8589602**	**1.309946**
householdsize	**.985784**	**.0201464**	**-0.70**	**0.484**	**.9470782**	**1.026072**
SES	**.7228754**	**.0216**	**-10.86**	**0.000**	**.681756**	**.766475**
LE8_TOTALSCORE	**.9999948**	**.0002148**	**-0.02**	**0.981**	**.999574**	**1.000416**

```
15 .
16 . **Model 2: Interaction with LE8 TOTAL SCORE**
17 .  stcox c.infectionburdenhospbr##c.LE8_TOTALSCOREtert AGE SEX NonWhite householdsize SES  if sample_final2==1

          Failure _d: ad_diag==1
   Analysis time _t: Age_AD
  Enter on or after: time baselineage
        ID variable: n_eid

Iteration 0:   log likelihood = -29849.733
Iteration 1:   log likelihood = -29657.017
Iteration 2:   log likelihood = -29648.901
Iteration 3:   log likelihood = -29648.887
Iteration 4:   log likelihood = -29648.887
Refining estimates:
Iteration 0:   log likelihood = -29648.887

Cox regression with Breslow method for ties

No. of subjects =     351,337                         Number of obs = 351,337
No. of failures =       2,595
Time at risk    = 4,357,327.7
                                                      LR chi2(8)    =  401.69
Log likelihood = -29648.887                           Prob > chi2   =  0.0000
```

_t	Haz. ratio	Std. err.	z	P>|z|	[95% conf.	interval]
infectionburdenhospbr	**1.816024**	**.2124233**	**5.10**	**0.000**	**1.44396**	**2.283957**
LE8_TOTALSCOREtert	**1.009014**	**.0286785**	**0.32**	**0.752**	**.9543424**	**1.066818**
c.infectionburdenhospbr#c.LE8_TOTALSCOREtert	**1.035128**	**.0594407**	**0.60**	**0.548**	**.9249427**	**1.158438**
AGE	**.9237301**	**.0076672**	**-9.56**	**0.000**	**.9088243**	**.9388805**
SEX	**.911388**	**.0360192**	**-2.35**	**0.019**	**.8434566**	**.9847906**
NonWhite	**1.060916**	**.1142188**	**0.55**	**0.583**	**.8590933**	**1.310153**
householdsize	**.9858886**	**.0201232**	**-0.70**	**0.486**	**.9472263**	**1.026129**
SES	**.7201523**	**.0214244**	**-11.04**	**0.000**	**.679362**	**.7633918**

```
18 .
```

```
19 . **Stratified analysis by LE8 TERTILES**
20 .
21 . **LOWEST TERTILE**
22 .
23 .  stcox infectionburdenhospbr AGE SEX NonWhite householdsize SES  if sample_final2==1 & LE8_TOTALSCOREtert==1

          Failure _d: ad_diag==1
    Analysis time _t: Age_AD
  Enter on or after: time baselineage
        ID variable: n_eid

Iteration 0:   log likelihood = -9898.5019
Iteration 1:   log likelihood = -9812.6882
Iteration 2:   log likelihood =   -9810.18
Iteration 3:   log likelihood = -9810.1776
Refining estimates:
Iteration 0:   log likelihood = -9810.1776

Cox regression with Breslow method for ties

No. of subjects =     123,145                         Number of obs = 123,145
No. of failures =         947
Time at risk    = 1,513,183.3
                                                      LR chi2(6)    =  176.65
Log likelihood = -9810.1776                           Prob > chi2   =  0.0000

------------------------------------------------------------------------------
          _t | Haz. ratio   Std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
infectionbu~r |   1.897308   .1391941     8.73   0.000       1.6432    2.190713
         AGE |   .9129275   .0124993    -6.65   0.000     .8887552    .9377573
         SEX |   .9485404   .0619458    -0.81   0.419     .8345779    1.078065
    NonWhite |   1.100782   .1801219     0.59   0.557      .798764    1.516995
householdsize |   .9728143   .0348113    -0.77   0.441     .9069231    1.043493
         SES |   .6976221   .0331073    -7.59   0.000     .6356594    .7656248
------------------------------------------------------------------------------

24 .
25 . **MIDDLE TERTILE**
26 .
27 .  stcox infectionburdenhospbr AGE SEX NonWhite householdsize SES  if sample_final2==1 & LE8_TOTALSCOREtert==2

          Failure _d: ad_diag==1
    Analysis time _t: Age_AD
  Enter on or after: time baselineage
        ID variable: n_eid

Iteration 0:   log likelihood =  -9430.549
Iteration 1:   log likelihood = -9368.9646
Iteration 2:   log likelihood = -9366.6385
Iteration 3:   log likelihood = -9366.6348
Refining estimates:
Iteration 0:   log likelihood = -9366.6348

Cox regression with Breslow method for ties

No. of subjects =     119,710                         Number of obs = 119,710
No. of failures =         899
Time at risk    = 1,487,228.1
                                                      LR chi2(6)    =  127.83
Log likelihood = -9366.6348                           Prob > chi2   =  0.0000
```

_t	Haz. ratio	Std. err.	z	P>|z|	[95% conf.	interval]
infectionburdenhospbr	**1.890294**	**.1510829**	**7.97**	**0.000**	**1.616206**	**2.210865**
AGE	**.9271741**	**.0130019**	**-5.39**	**0.000**	**.9020378**	**.9530108**
SEX	**.9727311**	**.0653071**	**-0.41**	**0.680**	**.8527955**	**1.109534**
NonWhite	**.7752693**	**.1647773**	**-1.20**	**0.231**	**.5111361**	**1.175895**
householdsize	**.9950857**	**.0328055**	**-0.15**	**0.881**	**.9328213**	**1.061506**
SES	**.7130553**	**.0364411**	**-6.62**	**0.000**	**.6450927**	**.7881781**

```
28 .
29 . **HIGHEST TERTILE**
30 .  stcox infectionburdenhospbr AGE SEX NonWhite householdsize SES  if sample_final2==1 & LE8_TOTALSCOREtert==3

          Failure _d: ad_diag==1
    Analysis time _t: Age_AD
   Enter on or after: time baselineage
         ID variable: n_eid

Iteration 0:   log likelihood = -7679.3911
Iteration 1:   log likelihood = -7630.1662
Iteration 2:   log likelihood = -7626.7019
Iteration 3:   log likelihood = -7626.6917
Refining estimates:
Iteration 0:   log likelihood = -7626.6917

Cox regression with Breslow method for ties

No. of subjects =     108,482                         Number of obs = 108,482
No. of failures =         749
Time at risk    = 1,356,916.4
                                                      LR chi2(6)    =  105.40
Log likelihood = -7626.6917                           Prob > chi2   =  0.0000
```

_t	Haz. ratio	Std. err.	z	P>|z|	[95% conf.	interval]
infectionburdenhospbr	**2.041953**	**.1817547**	**8.02**	**0.000**	**1.715063**	**2.431148**
AGE	**.9326139**	**.0146108**	**-4.45**	**0.000**	**.9044125**	**.9616947**
SEX	**.8065063**	**.059587**	**-2.91**	**0.004**	**.69778**	**.932174**
NonWhite	**1.38426**	**.2684284**	**1.68**	**0.094**	**.94658**	**2.024316**
householdsize	**.9927399**	**.0370648**	**-0.20**	**0.845**	**.9226885**	**1.06811**
SES	**.7671598**	**.0443382**	**-4.59**	**0.000**	**.6849997**	**.8591743**

```
31 .
32 . **********************************************AMONG MEN*************************************
33 .
34 . **Model 1**
35 .
36 .  stcox infectionburdenhospbr AGE SEX NonWhite householdsize SES LE8_TOTALSCORE if SEX==1 & sample_final2==1

          Failure _d: ad_diag==1
    Analysis time _t: Age_AD
   Enter on or after: time baselineage
         ID variable: n_eid
```

note: **SEX** omitted because of collinearity.
Iteration 0: log likelihood = **-13859.655**
Iteration 1: log likelihood = **-13764.847**
Iteration 2: log likelihood = **-13761.078**
Iteration 3: log likelihood = **-13761.073**
Refining estimates:
Iteration 0: log likelihood = **-13761.073**

Cox regression with Breslow method for ties

No. of subjects = **162,530** Number of obs = **162,530**
No. of failures = **1,287**
Time at risk = **1,999,924.6**
LR chi2(**6**) = **197.17**
Log likelihood = **-13761.073** Prob > chi2 = **0.0000**

_t	Haz. ratio	Std. err.	z	P>|z|	[95% conf.	interval]
infectionburdenhospbr	**1.915586**	**.1260332**	**9.88**	**0.000**	**1.68383**	**2.179241**
AGE	**.9261185**	**.01081**	**-6.58**	**0.000**	**.9051718**	**.94755**
SEX	**1**	(omitted)				
NonWhite	**1.073752**	**.1595631**	**0.48**	**0.632**	**.80244**	**1.436797**
householdsize	**.9794617**	**.0291563**	**-0.70**	**0.486**	**.9239515**	**1.038307**
SES	**.7183006**	**.0295068**	**-8.05**	**0.000**	**.6627352**	**.7785248**
LE8_TOTALSCORE	**1.000245**	**.0003098**	**0.79**	**0.429**	**.9996379**	**1.000852**

37 .
38 . **Model 2: Interaction with LE8 TOTAL SCORE**
39 . stcox c.infectionburdenhospbr##c.LE8_TOTALSCOREtert AGE SEX NonWhite householdsize SES if SEX==1 & sample_final2

Failure **_d**: **ad_diag==1**
Analysis time **_t**: **Age_AD**
Enter on or after: **time baselineage**
ID variable: **n_eid**

note: **SEX** omitted because of collinearity.
Iteration 0: log likelihood = **-13859.655**
Iteration 1: log likelihood = **-13763.484**
Iteration 2: log likelihood = **-13759.716**
Iteration 3: log likelihood = **-13759.71**
Iteration 4: log likelihood = **-13759.71**
Refining estimates:
Iteration 0: log likelihood = **-13759.71**

Cox regression with Breslow method for ties

No. of subjects = **162,530** Number of obs = **162,530**
No. of failures = **1,287**
Time at risk = **1,999,924.6**
LR chi2(**7**) = **199.89**
Log likelihood = **-13759.71** Prob > chi2 = **0.0000**

_t	Haz. ratio	Std. err.	z	P>|z|	[95% conf.	interval]
infectionburdenhospbr	**1.983166**	**.3326019**	**4.08**	**0.000**	**1.427584**	**2.754966**
LE8_TOTALSCOREtert	**1.071248**	**.0434601**	**1.70**	**0.090**	**.9893659**	**1.159906**
c.infectionburdenhospbr#c.LE8_TOTALSCOREtert	**.9828737**	**.0808963**	**-0.21**	**0.834**	**.8364478**	**1.154932**
AGE	**.9258634**	**.010804**	**-6.60**	**0.000**	**.9049283**	**.9472828**
SEX	**1**	(omitted)				
NonWhite	**1.074044**	**.1596104**	**0.48**	**0.631**	**.8026527**	**1.437198**
householdsize	**.9797034**	**.0291029**	**-0.69**	**0.490**	**.9242915**	**1.038437**
SES	**.7143174**	**.029236**	**-8.22**	**0.000**	**.6592541**	**.7739799**

```
40 .
41 . **Stratif SEX==1 by LE8 TERTILES**
42 .
43 . **LOWEST TERTILE**
44 .
45 .  stcox infectionburdenhospbr AGE SEX NonWhite householdsize SES  if SEX==1 & sample_final2==1 & LE8_TOTALSCOREtert
```

```
        Failure _d: ad_diag==1
  Analysis time _t: Age_AD
 Enter on or after: time baselineage
       ID variable: n_eid

note: SEX omitted because of collinearity.
Iteration 0:   log likelihood = -4554.8187
Iteration 1:   log likelihood = -4514.0454
Iteration 2:   log likelihood = -4512.6484
Iteration 3:   log likelihood = -4512.6468
Refining estimates:
Iteration 0:   log likelihood = -4512.6468

Cox regression with Breslow method for ties

No. of subjects =      61,810                     Number of obs = 61,810
No. of failures =         467
Time at risk    = 753,376.476
                                                  LR chi2(5)    =  84.34
Log likelihood = -4512.6468                       Prob > chi2   = 0.0000
```

_t	Haz. ratio	Std. err.	z	P>|z|	[95% conf.	interval]
infectionburdenhospbr	**1.937279**	**.2035448**	**6.29**	**0.000**	**1.576735**	**2.380267**
AGE	**.9146671**	**.0176382**	**-4.63**	**0.000**	**.880742**	**.949899**
SEX	**1**	(omitted)				
NonWhite	**.8890359**	**.2286975**	**-0.46**	**0.648**	**.5369754**	**1.47192**
householdsize	**.9957842**	**.047448**	**-0.09**	**0.929**	**.9069983**	**1.093261**
SES	**.7150991**	**.0468272**	**-5.12**	**0.000**	**.6289651**	**.8130289**

```
46 . **MIDDLE TERTILE**
47 .
48 .  stcox infectionburdenhospbr AGE SEX NonWhite householdsize SES  if SEX==1 & sample_final2==1 & LE8_TOTALSCOREtert

          Failure _d: ad_diag==1
    Analysis time _t: Age_AD
  Enter on or after: time baselineage
         ID variable: n_eid

note: SEX omitted because of collinearity.
Iteration 0:   log likelihood = -4326.4446
Iteration 1:   log likelihood = -4286.2155
Iteration 2:   log likelihood = -4284.7151
Iteration 3:   log likelihood = -4284.7123
Refining estimates:
Iteration 0:   log likelihood = -4284.7123

Cox regression with Breslow method for ties

No. of subjects =      57,334                         Number of obs =    57,334
No. of failures =         443
Time at risk    =  707,942.525
                                                      LR chi2(5)    =     83.46
Log likelihood = -4284.7123                           Prob > chi2   =    0.0000

------------------------------------------------------------------------------
          _t | Haz. ratio   Std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
infectionbu~r |   1.943236   .2193281     5.89   0.000     1.557588    2.424368
         AGE |   .9207652   .0182542    -4.16   0.000     .8856737     .957247
         SEX |          1  (omitted)
    NonWhite |   .7064944   .2169809    -1.13   0.258     .3869767     1.28983
householdsize |   .9918443   .0440187    -0.18   0.854     .9092151    1.081983
         SES |   .6585825   .0458702    -6.00   0.000      .574545    .7549119
------------------------------------------------------------------------------

49 .
50 . **HIGHEST TERTILE**
51 .  stcox infectionburdenhospbr AGE SEX NonWhite householdsize SES  if SEX==1 & sample_final2==1 & LE8_TOTALSCOREtert

          Failure _d: ad_diag==1
    Analysis time _t: Age_AD
  Enter on or after: time baselineage
         ID variable: n_eid

note: SEX omitted because of collinearity.
Iteration 0:   log likelihood = -3568.6989
Iteration 1:   log likelihood = -3548.8593
Iteration 2:   log likelihood =  -3547.166
Iteration 3:   log likelihood = -3547.1538
Iteration 4:   log likelihood = -3547.1538
Refining estimates:
Iteration 0:   log likelihood = -3547.1538

Cox regression with Breslow method for ties

No. of subjects =      43,386                         Number of obs =    43,386
No. of failures =         377
Time at risk    =  538,605.649
                                                      LR chi2(5)    =     43.09
Log likelihood = -3547.1538                           Prob > chi2   =    0.0000
```

_t	Haz. ratio	Std. err.	z	P>|z|	[95% conf.	interval]
infectionburdenhospbr	1.842089	.2346232	4.80	0.000	1.435141	2.36443
AGE	.9459737	.0206605	-2.54	0.011	.9063343	.9873468
SEX	1	(omitted)				
NonWhite	1.861703	.4240032	2.73	0.006	1.191376	2.909187
householdsize	.9409106	.063484	-0.90	0.367	.8243603	1.073939
SES	.7949506	.0635479	-2.87	0.004	.6796661	.9297895

```
52 .
53 .
54 .
55 . ********************************************AMONG WOMEN************************************
56 .
57 .
58 .
59 .
60 . **Model 1**
61 .
62 .  stcox infectionburdenhospbr AGE SEX NonWhite householdsize SES LE8_TOTALSCORE if SEX==2 & sample_final2==1

          Failure _d: ad_diag==1
    Analysis time _t: Age_AD
   Enter on or after: time baselineage
         ID variable: n_eid

note: SEX omitted because of collinearity.
Iteration 0:   log likelihood = -14188.718
Iteration 1:   log likelihood = -14091.502
Iteration 2:   log likelihood =  -14087.09
Iteration 3:   log likelihood = -14087.082
Refining estimates:
Iteration 0:   log likelihood = -14087.082

Cox regression with Breslow method for ties

No. of subjects =     188,807                         Number of obs = 188,807
No. of failures =       1,308
Time at risk    = 2,357,403.1
                                                      LR chi2(6)    =  203.27
Log likelihood = -14087.082                           Prob > chi2   =  0.0000
```

_t	Haz. ratio	Std. err.	z	P>|z|	[95% conf.	interval]
infectionburdenhospbr	1.950823	.1268028	10.28	0.000	1.717474	2.215877
AGE	.9205901	.0108828	-7.00	0.000	.8995055	.942169
SEX	1	(omitted)				
NonWhite	1.049864	.1641865	0.31	0.756	.772707	1.426432
householdsize	.9918818	.0276091	-0.29	0.770	.9392184	1.047498
SES	.7282762	.031729	-7.28	0.000	.6686696	.7931963
LE8_TOTALSCORE	.9997855	.0002987	-0.72	0.473	.9992002	1.000371

```
63 .
64 . **Model 2: Interaction with LE8 TOTAL SCORE**
65 .  stcox c.infectionburdenhospbr##c.LE8_TOTALSCOREtert AGE SEX NonWhite householdsize SES  if SEX==2 & sample_final2

           Failure _d: ad_diag==1
     Analysis time _t: Age_AD
   Enter on or after: time baselineage
         ID variable: n_eid

note: SEX omitted because of collinearity.
Iteration 0:   log likelihood = -14188.718
Iteration 1:   log likelihood = -14090.838
Iteration 2:   log likelihood = -14086.526
Iteration 3:   log likelihood = -14086.519
Refining estimates:
Iteration 0:   log likelihood = -14086.519

Cox regression with Breslow method for ties

No. of subjects =     188,807                         Number of obs = 188,807
No. of failures =       1,308
Time at risk    = 2,357,403.1
                                                      LR chi2(7)    =  204.40
Log likelihood = -14086.519                           Prob > chi2   =  0.0000

------------------------------------------------------------------------------
                          _t | Haz. ratio   Std. err.      z    P>|z|     [95% conf. interval]
-----------------------------+------------------------------------------------
             infectionburdenhospbr |   1.669609   .2725209     3.14   0.002      1.21249    2.299067
                LE8_TOTALSCOREtert |   .9551743   .0380867    -1.15   0.250     .8833681    1.032817

c.infectionburdenhospbr#c.LE8_TOTALSCOREtert |   1.087832   .0871922     1.05   0.294     .9296851     1.27288

                               AGE |   .9205181   .0108828    -7.01   0.000     .8994333    .9420971
                               SEX |          1  (omitted)
                          NonWhite |   1.048716   .1640135     0.30   0.761     .7718529     1.42489
                     householdsize |   .9918196   .0276341    -0.29   0.768     .9391101    1.047488
                               SES |   .7274135   .0315307    -7.34   0.000     .6681668    .7919137
------------------------------------------------------------------------------

66 .
67 . **Stratif SEX==2  by LE8 TERTILES**
68 .
69 . **LOWEST TERTILE**
70 .
71 .  stcox infectionburdenhospbr AGE SEX NonWhite householdsize SES  if SEX==2 & sample_final2==1 & LE8_TOTALSCOREtert

           Failure _d: ad_diag==1
     Analysis time _t: Age_AD
   Enter on or after: time baselineage
         ID variable: n_eid

note: SEX omitted because of collinearity.
Iteration 0:   log likelihood = -4687.9564
Iteration 1:   log likelihood = -4642.0163
Iteration 2:   log likelihood = -4640.7798
Iteration 3:   log likelihood = -4640.7785
Iteration 4:   log likelihood = -4640.7785
Refining estimates:
Iteration 0:   log likelihood = -4640.7785

Cox regression with Breslow method for ties
```

No. of subjects = **61,335** Number of obs = **61,335**
No. of failures = **480**
Time at risk = **759,806.777**

LR chi2(**5**) = **94.36**
Log likelihood = **-4640.7785** Prob > chi2 = **0.0000**

_t	Haz. ratio	Std. err.	z	P>|z|	[95% conf.	interval]
infectionburdenhospbr	**1.865496**	**.1912028**	**6.08**	**0.000**	**1.525988**	**2.28054**
AGE	**.9116718**	**.0177379**	**-4.75**	**0.000**	**.8775607**	**.9471087**
SEX	**1**	(omitted)				
NonWhite	**1.305735**	**.2774232**	**1.26**	**0.209**	**.8610028**	**1.980185**
householdsize	**.9498437**	**.0525503**	**-0.93**	**0.352**	**.8522348**	**1.058632**
SES	**.6792181**	**.0468066**	**-5.61**	**0.000**	**.5934044**	**.7774414**

```
72 .
73 . **MIDDLE TERTILE**
74 .
75 .  stcox infectionburdenhospbr AGE SEX NonWhite householdsize SES  if SEX==2 & sample_final2==1 & LE8_TOTALSCOREtert
```

Failure **_d**: **ad_diag==1**
Analysis time **_t**: **Age_AD**
Enter on or after: **time baselineage**
ID variable: **n_eid**

note: **SEX** omitted because of collinearity.
Iteration 0: log likelihood = **-4480.365**
Iteration 1: log likelihood = **-4457.3995**
Iteration 2: log likelihood = **-4456.5004**
Iteration 3: log likelihood = **-4456.4991**
Refining estimates:
Iteration 0: log likelihood = **-4456.4991**

Cox regression with Breslow method for ties

No. of subjects = **62,376** Number of obs = **62,376**
No. of failures = **456**
Time at risk = **779,285.536**

LR chi2(**5**) = **47.73**
Log likelihood = **-4456.4991** Prob > chi2 = **0.0000**

_t	Haz. ratio	Std. err.	z	P>|z|	[95% conf.	interval]
infectionburdenhospbr	**1.84005**	**.2083985**	**5.38**	**0.000**	**1.473755**	**2.297387**
AGE	**.9337382**	**.0185188**	**-3.46**	**0.001**	**.8981385**	**.9707489**
SEX	**1**	(omitted)				
NonWhite	**.8642739**	**.2546375**	**-0.50**	**0.621**	**.4851381**	**1.539705**
householdsize	**1.000631**	**.0492252**	**0.01**	**0.990**	**.9086572**	**1.101915**
SES	**.7812618**	**.0588225**	**-3.28**	**0.001**	**.6740749**	**.9054928**

```
76 .
77 . **HIGHEST TERTILE**
78 .  stcox infectionburdenhospbr AGE SEX NonWhite householdsize SES  if SEX==2 & sample_final2==1 & LE8_TOTALSCOREtert

           Failure _d: ad_diag==1
     Analysis time _t: Age_AD
     Enter on or after: time baselineage
           ID variable: n_eid

   note: SEX omitted because of collinearity.
   Iteration 0:   log likelihood = -3588.0021
   Iteration 1:   log likelihood = -3559.0067
   Iteration 2:   log likelihood =   -3556.12
   Iteration 3:   log likelihood = -3556.1078
   Iteration 4:   log likelihood = -3556.1078
   Refining estimates:
   Iteration 0:   log likelihood = -3556.1078

   Cox regression with Breslow method for ties

   No. of subjects =      65,096                         Number of obs = 65,096
   No. of failures =         372
   Time at risk    = 818,310.753
                                                        LR chi2(5)    =  63.79
   Log likelihood = -3556.1078                          Prob > chi2   = 0.0000

   ------------------------------------------------------------------------------
                     _t | Haz. ratio   Std. err.      z    P>|z|     [95% conf. interval]
   -------------------------------------------------------------------------------
   infectionburdenhospbr |   2.256518   .2809584     6.54   0.000     1.767893    2.880194
                     AGE |   .9150102   .0207034    -3.93   0.000     .8753189    .9565013
                     SEX |          1  (omitted)
                NonWhite |   .8167322   .3123696    -0.53   0.597     .3859463    1.728353
           householdsize |   1.026811   .0430425     0.63   0.528     .9458217    1.114735
                     SES |   .7401399   .0621494    -3.58   0.000      .627825    .8725474
   ------------------------------------------------------------------------------

79 .
80 .
81 . save, replace
   file E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May Baydoun_folder\UK_BIOBANK_PROJECT\UKB_PAPER3_LE8INFECTDEM\DATA\UK

82 .
83 .
   end of do-file

84 . exit, clear
```