



```
1 . use "E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May Baydoun_folder\UK_BIOBANK_PROJECT\UKB_PAPER8D_LE8PROTDEM\DAT
```

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2 .
```

```
3 . stcox zLE8_TOTALSCOREinv if sample_final==1
```

```
      Failure _d: dem_diag==1
      Analysis time _t: Age_dementia
      Enter on or after: time AGE
      ID variable: n_eid
```

```
Iteration 0: Log likelihood = -7174.9008
Iteration 1: Log likelihood = -7168.2339
Iteration 2: Log likelihood = -7168.2335
Refining estimates:
Iteration 0: Log likelihood = -7168.2335
```

Cox regression with Breslow method for ties

```
No. of subjects =      28,974
No. of failures =       786
Time at risk    = 351,447.785
```

```
Number of obs = 28,974
```

```
Log likelihood = -7168.2335
```

```
LR chi2(1)      = 13.33
Prob > chi2     = 0.0003
```

_t	Haz. ratio	Std. err.	z	P> z	[95% conf. interval]	
zLE8_TOTALSCOREinv	1.145632	.042542	3.66	0.000	1.065214	1.232122

```
4 .
```

```
5 .
```

```
6 . estat phtest, rank detail
```

Test of proportional-hazards assumption

Time function: Rank of analysis time

	rho	chi2	df	Prob>chi2
zLE8_TO~Einv	-0.00732	0.05	1	0.8303
Global test		0.05	1	0.8303

```
7 .
```

```
8 .
```

```
9 . capture log close
```