

```

1  clear all
2  set more off
3  cap log close
4
5  log using "longitudinalTD_analysis.log", replace
6
7  use "longitudinal_td", clear
8
9
10 // 1. Inspecting and managing the datafile (using Stata)
11
12 describe
13 summarize
14
15 sort pidp wave
16 list pidp wave sex_dv ethn_dv doby_dv jbstat mstat_dv ///
17 in 1/25, sepby(pidp)
18
19 count if fihhmngrs_dv<0
20
21 replace fihhmngrs_dv=1 if fihhmngrs_dv<0
22
23 xtile hgrinc4=fihhmngrs_dv, nq(4)
24
25 su fihhmngrs_dv, d
26 generate veryhighinc=1 if fihhmngrs_dv>r(p99) & fihhmngrs_dv<.
27 replace veryhighinc=0 if fihhmngrs_dv<r(p99)
28 tab veryhighinc
29
30 tabstat _all, by(wave)
31
32 xtset pidp wave
33
34 xtdescribe, patterns(50)
35
36 xtsum
37
38 g l_mstat_dv=L1.mstat_dv
39 g n_mstat_dv=F1.mstat_dv
40
41 bys pidp: egen bmi_dv_fixed=mean(bmi_dv)
42 tabstat bmi_dv_fixed, by(wave) s(mean)
43 xtsum bmi_dv_fixed
44
45
46 // 2. Analysing the data (using Stata) - Part 1
47 xttrans mstat_dv
48 xttrans mstat_dv if sex_dv==1 & age_dv>=30 & age_dv<=39
49 xttrans mstat_dv if sex_dv==2 & age_dv>=30 & age_dv<=39
50
51
52 mean scghq1_dv, over(wave)
53 test [scghq1_dv]1=[scghq1_dv]2=[scghq1_dv]3=[scghq1_dv]4=[scghq1_dv]5=[scghq1_dv]6=[
scghq1_dv]7=[scghq1_dv]8=[scghq1_dv]9
54
55 regress scghq1_dv i.sex_dv i.ethn_dv c.age_dv##c.age_dv ///
56         i.sf1_dv c.fihhmngrs_dv c.hhsize c.ndepchl i.jbhas_dv i.intdaty_dv
57
58 g l_ghq=L1.scghq1_dv
59 regress scghq1_dv i.sex_dv i.ethn_dv c.age_dv##c.age_dv ///
60         i.sf1_dv c.fihhmngrs_dv c.hhsize c.ndepchl i.jbhas_dv i.intdaty_dv ///
61         c.l_ghq
62
63 xtreg scghq1_dv i.sex_dv c.age_dv##c.age_dv i.sf1_dv ///
64 c.fihhmngrs_dv c.hhsize c.ndepchl i.jbhas_dv i.intdaty_dv, fe
65
66 xtreg scghq1_dv i.sex_dv c.age_dv##c.age_dv i.sf1_dv ///
67 c.fihhmngrs_dv c.hhsize c.ndepchl i.jbhas_dv i.intdaty_dv, re
68
69
70 // 3.3 Analysis using weights and accounting for sample design

```

```
71
72 svyset psu [pweight = indscus_lw_9], strata(strata)
73
74 svy: mean scghq1_dv, over(wave)
75 test [scghq1_dv]1=[scghq1_dv]2=[scghq1_dv]3=[scghq1_dv]4=[scghq1_dv]5=[scghq1_dv]6=[
scghq1_dv]7=[scghq1_dv]8=[scghq1_dv]9
76
77 svy: regress scghq1_dv i.sex_dv i.ethn_dv c.age_dv##c.age_dv ///
78 i.sf1_dv c.fihhmngrs_dv c.hhsize c.ndepchl i.jbhas_dv i.intdaty_dv ///
79 c.l_ghq
80
81
82 svyset psu [pweight = indscus_lw_9], strata(strata) singleunit(scaled)
83
84 svy: mean scghq1_dv, over(wave)
85 test [scghq1_dv]1=[scghq1_dv]2=[scghq1_dv]3=[scghq1_dv]4=[scghq1_dv]5=[scghq1_dv]6=[
scghq1_dv]7=[scghq1_dv]8=[scghq1_dv]9
86
87 svy: regress scghq1_dv i.sex_dv i.ethn_dv c.age_dv##c.age_dv ///
88 i.sf1_dv c.fihhmngrs_dv c.hhsize c.ndepchl i.jbhas_dv i.intdaty_dv ///
89 c.l_ghq
90
91
92 xtset pidp wave
93 xtreg scghq1_dv c.age_dv##c.age_dv i.sf1_dv c.fihhmngrs_dv ///
94 c.hhsize c.ndepchl i.jbhas_dv i.intdaty_dv ///
95 [pw = indscus_lw_9], fe vce(cluster psu)
96
97 foreach i in 1 4 9 10 11 14 15 {
98 xtreg scghq1_dv c.age_dv##c.age_dv i.sf1_dv c.fihhmngrs_dv ///
99 c.hhsize c.ndepchl i.jbhas_dv i.intdaty_dv ///
100 if sex_dv==2 & ethn_dv=='i' ///
101 [pw = indscus_lw_9], fe vce(cluster psu)
102 }
103
104
105 log close
106 exit
107
```