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1  *Katelin Hudak
2  *Sample code
3  *Stata 16.1
4
5  *****Creating parallel trend graphs
6  *A) CREATE NECESSARY VARIABLES: Generate new variable that is the mean outcome for a specific group
   in a given year
7
8  *1) Generate grouping variable
9  egen s_age2 = group(wyear snap agegrp3)
10 *64 unique values
11
12 *2) Recode s_age2 ==. if occurred during the time when we are not sure whether or not it was post
   ARRA (wyear==6{2009-2010} & mnths==1 {Nov 1-April 30})
13 replace s_age2 =. if wyear == 6 & mnths == 1
14 *Check
15 sort wyear snap agegrp3 s_age2 mnths
16 browse wyear snap agegrp3 s_age2 mnths
17
18 *3) Create new variable that is blank
19 foreach var of varlist (bmiz bmipct norm_wt ovwt obse undwt){
20     gen `var'_s_age2 =.
21 }
22 *
23
24 *4) Do loop and incorporate a 1) replace and 2) drop command
25 set more off
26 forvalues i = 1/64{
27     foreach var of varlist (bmiz bmipct norm_wt ovwt obse undwt){
28         egen m_`var'_s_age = wtmean(`var') if s_age2 == `i', weight(wtmec2yr)
29         replace `var'_s_age2 = m_`var'_s_age if s_age2 == `i'
30         drop m_`var'_s_age
31     }
32 }
33 *
34 *Check
35 browse wyear snap agegrp3 s_age2 bmiz_s_age2
36
37 *5) Label variables
38 labvars bmiz_s_age2 bmipct_s_age2 norm_wt_s_age2 ovwt_s_age2 obse_s_age2 undwt_s_age2 "BMI-for-age
   Z-Score" "BMI-for-age Percentile" "Probability of Healthy Weight" "Probability of Overweight"
   "Probability of Obesity" "Probability of Underweight"
39
40 *B) CREATE PARALLEL TREND GRAPHS ACROSS 4 AGE GROUPS
41
42 local varlist1 "bmiz_s_age2 bmipct_s_age2 norm_wt_s_age2 ovwt_s_age2 obse_s_age2 undwt_s_age2"
43
44 forvalues i = 1/6 {
45     local var1 = word("`varlist1'", `i')
46     forvalues j = 1/4 {
47         twoway (connected `var1' wyear if snap == 1 & agegrp3 == `j', sort lcolor(blue)) (connected
   `var1' wyear if snap == 0 & agegrp3 == `j', sort lcolor(gray)lpattern(dash)), xline(5.5, lcolor(black
   )) title(`: variable label `var1': Ages `j') ytitle(`: variable label `var1') xtitle(Year) xlabel(#
   8, angle(45))xlabel(, labels valuelabel) legend(label(1 "SNAP-Eligible") label(2 "Higher Income"))
   saving (`var1'_'j')
48     }
49 }
50 *
51
52 *****Performing a merge
53 *Merging child weight data transformed into BMI percentiles and Z-scores with NHANES dietary
   demographic data
54 *1) Check number of observations in "using" dataset

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55 use "cdcddata2.dta", clear
56 codebook seqn
57
58 *2) Clear data, load master and check n
59 use "diet_hei_comb2.dta", clear
60 codebook seqn
61
62 *3) Merge many to 1 (dietary data has multiple observations per individual) and save
63 merge m:1 seqn using "cdcddata2.dta", generate (_merge_dt_cdc)
64 save "combined.dta"
65
66 *****Performing regression analysis and creating a formatted table of results
67 * Using a difference-in-differences framework and examining the connection between the ARRA increase
   in SNAP benefits and child weight
68
69 *1) Declare survey design for dataset
70 svyset sdmvpsu [pw = wtmecl6yr], strata(sdmvstra) singleunit(centered)
71
72 *2) Build regression models and format a table of results
73
74 set more off
75
76 local varlistbw "bmiz bmipct norm_wt ovwt obse undwt"
77
78 ****Unconditional (1)
79 forvalues i = 1/6 {
80   local var1 = word("`varlistbw'", `i')
81   forvalues j = 1/4 {
82     svy, subpop(if agegrp3 == `j'): reg `var1' snap arra arsnap
83     outreg2 using `var1'_dd_`j'.doc, title(`: variable label `var1': `j') dec (2)
84     sleep 500
85   }
86 }
87 *
88 ****Individual level controls (2)
89 forvalues i = 1/6 {
90   local var1 = word("`varlistbw'", `i')
91   forvalues j = 1/4 {
92     svy, subpop(if agegrp3 == `j'): reg `var1' snap arra arsnap age age2 i.sex i.race
93     outreg2 using `var1'_dd_`j'.doc, title(`: variable label `var1': `j') dec (2)
94     sleep 500
95   }
96 }
97 *
98 ****Household level controls (3)
99 forvalues i = 1/6 {
100   local var1 = word("`varlistbw'", `i')
101   forvalues j = 1/4 {
102     svy, subpop(if agegrp3 == `j'): reg `var1' snap arra arsnap age age2 i.sex i.race i.heduc i.
hrmar hhsiz pir
103     outreg2 using `var1'_dd_`j'.doc, title(`: variable label `var1': `j') dec (2)
104     sleep 500
105   }
106 }
107 *
108 ***Food security (4)
109 forvalues i = 1/6 {
110   local var1 = word("`varlistbw'", `i')
111   forvalues j = 1/4 {
112     svy, subpop(if agegrp3 == `j'): reg `var1' snap arra arsnap age age2 i.sex i.race i.heduc i.
hrmar hhsiz pir i.fsdch
113     outreg2 using `var1'_dd_`j'.doc, title(`: variable label `var1': `j') dec (2)
114     sleep 500

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115 }
116 }
117 *
118 ***Fully adjusted model, adding in participation in other programs (WIC, NSLP and SBP) (5)
119 forvalues i = 1/6 {
120   local var1 = word("`varlistbw'", `i')
121   forvalues j = 1/4 {
122     svy, subpop(if agegrp3 == `j'): reg `var1' snap arra arsnap age age2 i.sex i.race i.heduc i.
hrmar hhsiz pir i.fsdch i.wic2 i.nslp2 i.sbp2
123     outreg2 using `var1'_dd_`j'.doc, title(`: variable label `var1': `j') dec (2)
124     sleep 500
125   }
126 }
127 *
128
```