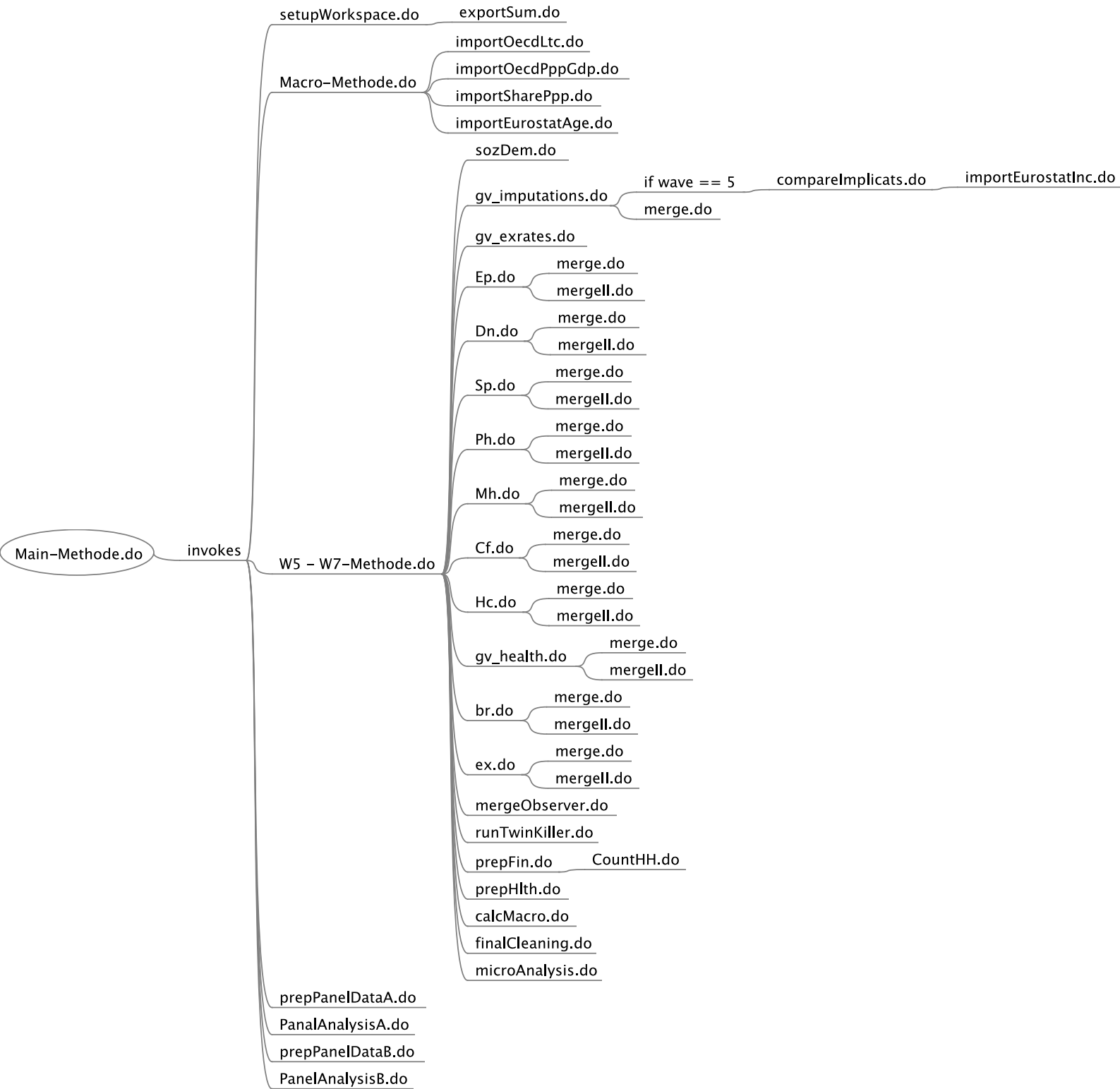


```
1  /*
2  Description:
3  //  this do-file invokes subsequent do-file to merge: OECD,
   Eurostat and SHARE Datasets found in /workspace/dta/in
4      invokes subsequent do-file to run regression analysis on data
5      invokes subsequent do-file to save data output
6
7  Run instructions:
8      first run:  modify directory line : 29
9                  run /workspace/do/setupWorkspace.do      line : 33
10
11
12  Acknowledgments:
13
14      this dofile and the subsequent dofiles it envokes use in
   part code written by:
15          Cristoph Wolf and Merih Ates as student guidelines for
   the Seminar "empirisches Forschungspraktikum II"
16          Behaghel, Langer & Müller for a paper submitted in the
   seminar "empirisches Forschungspraktikum II"
17          Nicolas J. Cox posted on stataлист.org
18
19      The analytical strategie for this research was in part
   supervised by / discused with Danny Khoi On and Hartmut Lanzinger
20
21      I would like to extend special thanks to Danny Khoi On and
   Hartmut Lanzinger
22
23
24  */
25  clear
26  set more off
27
28  capture log close
29  cd
   "/Users/carlfelix/Documents/Uni/Bachelor-Arbeit/Data/Stata/workspa
   ce" //modify to your current working driectory here
30
31  // setup workspace
32
33  //do "do/setupWorkspace.do"
34
35  // prepare data
36  //
37
38  // macro
```

```
38 // macro
39 do "do/Macro-Methode.do"
40
41 // micro
42 /*
43 do "do/W1-Methode.do"
44 do "do/W2-Methode.do"
45 do "do/W3-Methode.do"
46 do "do/W4-Methode.do"
47 */
48 do "do/W5-Methode.do"
49 do "do/W6-Methode.do"
50 do "do/W7-Methode.do"
51
52 //Main Analysis A : Panel regression – micro level
53 //
54 log using "doc/PanelRegressionA.smcl", replace
55
56 clear
57
58 do "do/prepPanelDataA.do"
59
60 do "do/PanalAnalysisA.do"
61
62 log c
63
64 //Main Analysis B : Panel regression – macro level
65 //
66 log using "doc/PanelRegressionB.smcl", replace
67
68 clear
69
70 do "do/prepPanelDataB.do"
71
72 do "do/PanelAnalysisB.do"
73
74 log c
75
```



```
1  ssc install coefplot
2
3
4  ssc install estout, replace
5  do "do/exportSum.do"
6
```

```
1  log using "doc/macro.smcl", replace
2
3  //import macro data
4  do "do/importOecdLtc.do"
5  do "do/importOecdPppGdp.do"
6  do "do/importSharePpp.do"
7  do "do/importEurostatAge.do"
8
9  //merge macro data
10 use "dta/cache/oecdLtcFin", clear
11 merge m:1 countryYearId using "dta/cache/oecdPppGdp.dta"
12 drop _merge
13 save "dta/cache/macroData.dta", replace
14 merge m:1 countryid using "dta/cache/sharePpp.dta"
15 drop _merge
16 save "dta/cache/macroData.dta", replace
17 merge m:1 countryYearId using "dta/cache/eurostatAge.dta"
18 drop _merge
19 save "dta/cache/macroData.dta", replace
20 use "dta/cache/macroData.dta", clear
21 keep if v8=="Per capita, current prices" & function ==
   "Long-term care (health)"
22 keep if unit=="Euro" | unit == "Czech Koruna" | unit == "Czech
   Koruna" | unit == "Danish Krone" | unit == "Swiss Franc" | unit
   == "Swedish Krona"
23
24 // net Value == spending weighted for ppp in euros
25 g spendingPpp = .
26 forvalue i=3/9 {
27   replace spendingPpp = value/pppk200`i'
28 }
29 forvalue i=10/17 {
30   replace spendingPpp = value/pppk20`i'
31 }
32
33 // calculate mean LTC by gov and total
34 tab country spendingPpp if financingscheme ==
   "Government/compulsory schemes" & spendingPpp != . & time == 2013
35 g c = 0
36 replace c = 1 if financingscheme == "Government/compulsory
   schemes" & spendingPpp != . & time == 2013
37 sort c
38 by c: egen mean2013 = mean(spendingPpp)
39 tab mean2013
40 drop c mean2013
41
42 // adjusted value of total consumption per capita older 65 and
   efficiency wedge
```

```

42 // adjusted value of total consumption per capita older 65 and
    effcency wedge
43 replace spendingPpp = spendingPpp * weightAge * effWedge
44 keep countryid countryYearId year strYear financingscheme
    spendingPpp
45 order countryid countryYearId year strYear financingscheme
    spendingPpp
46
47 save "dta/cache/macroData.dta", replace
48 use "dta/cache/macroData.dta", clear
49
50 g j = .
51 replace j = 6 if financingscheme == "Voluntary health care
    payment schemes"
52 replace j = 2 if financingscheme == "Household out-of-pocket
    payments"
53 replace j = 3 if financingscheme == "Social health insurance
    schemes"
54 replace j = 4 if financingscheme == "Compulsory contributory
    health insurance schemes"
55 replace j = 5 if financingscheme == "Compulsory private
    insurance schemes"
56 replace j = 1 if financingscheme == "All financing schemes"
57 replace j = 7 if financingscheme == "Government/compulsory
    schemes"
58 replace j = 8 if financingscheme == "Government schemes"
59 drop financingscheme
60
61 reshape wide spendingPpp , i(countryYearId) j(j)
62
63 la var spendingPpp6 "Voluntary health care payment schemes"
64 la var spendingPpp2 "Household out-of-pocket payments"
65 la var spendingPpp3 "Social health insurance schemes"
66 la var spendingPpp4 "Compulsory contributory health insurance
    schemes"
67 la var spendingPpp5 "Compulsory private insurance schemes"
68 la var spendingPpp1 "All financing schemes"
69 la var spendingPpp7 "Government/compulsory schemes"
70 la var spendingPpp8 "Government schemes"
71
72 g public = spendingPpp7
73 la var public "Government/compulsory schemes"
74
75 g probPub = spendingPpp7 / spendingPpp1
76 la var probPub "Share of Government/compulsory schemes of all
    financing schemes"
77
78 gen publicOne =public[_n-1]
79 la var publicOne "t-1 : Government/compulsory schemes"
80 gen probPubOne = probPub[_n-1]

```

```

80 gen probPubOne = probPub[_n-1]
81 la var probPubOne "t-1 : Share of Government/compulsory
schemes of all financing schemes"
82
83 g value = public
84 drop strYear
85 reshape wide spendingPpp1 - spendingPpp8 public publicOne probPub
probPubOne countryYearId value, i(countryid) j(year)
86
87 // difference spending 2017 - 2013
88 g v = value2016 - value2012
89 la var v "public spendng - differnece 2012 : 2016"
90 g vPr = value2012/v
91 la var vPr "public spendng - differnece 2012 : 2016 in % of 2012"
92
93 // differenc spending t - t-3
94 g diff2013 = .
95 replace diff2013 = value2013 - value2010 if value2010 != .
96 replace diff2013 = value2013 - value2011 if value2010 == . &
value2011 != .
97 replace diff2013 = value2013 - value2012 if value2010 == . &
value2011 == . & value2012 != .
98 g diff2015 = value2015 - value2013
99 g diff2017 = value2017 - value2015
100 // differenc spending in %
101 g relDiff2013 = .
102 replace relDiff2013 = diff2013/value2010 if value2010 != .
103 replace relDiff2013 = diff2013/value2011 if value2010 == . &
value2011 != .
104 replace relDiff2013 = diff2013/value2012 if value2010 == . &
value2011 == . & value2012 != .
105 g relDiff2015 = diff2015/value2013
106 g relDiff2017 = diff2017/value2015
107
108 g quickDiff13 = .
109 g quickDiff15 = .
110 g quickDiff17 = .
111 // differenc spending catergorial
112 replace quickDiff13 = -1 if relDiff2013 < -0.05
113 replace quickDiff13 = 0 if relDiff2013 > -0.05 & relDiff2013 <
0.05
114 replace quickDiff13 = 1 if relDiff2013 > 0.05
115
116 replace quickDiff15 = -1 if relDiff2015 < -0.05
117 replace quickDiff15 = 0 if relDiff2015 > -0.05 & relDiff2015 <
0.05
118 replace quickDiff15 = 1 if relDiff2015 > 0.05
119

```

```
119
120 replace quickDiff17 = -1 if relDiff2017 < -0.05
121 replace quickDiff17 = 0 if relDiff2017 > -0.05 & relDiff2017 <
    0.05
122 replace quickDiff17 = 1 if relDiff2017 > 0.05
123
124 reshape long
125 // cluster countrys by spending
126
127
128
129 keep countryYearId spendingPpp1 - spendingPpp8 public publicOne
    probPub probPubOne v vPr diff2013 diff2015 diff2017
130 drop if countryYearId == ""
131
132 save "dta/cache/macroData.dta", replace
133
134
```



```
1 import delimited "dta/in/Oecd/OecdLtcFinancing.csv", clear
2 save "dta/cache/oecdLtcFin", replace
3 use "dta/cache/oecdLtcFin", clear
4
5
6 // country identifier
7 g countryid = .
8 replace countryid = 1 if country == "Austria"
9 replace countryid = 2 if country == "Germany"
10 replace countryid = 3 if country == "Sweden"
11 replace countryid = 4 if country == "Spain"
12 replace countryid = 5 if country == "Italy"
13 replace countryid = 6 if country == "France"
14 replace countryid = 7 if country == "Denmark"
15 replace countryid = 8 if country == "Greece"
16 replace countryid = 9 if country == "Switzerland"
17 replace countryid = 10 if country == "Belgium"
18 replace countryid = 11 if country == "Czech Republic"
19 replace countryid = 13 if country == "Luxembourg"
20 replace countryid = 16 if country == "Slovenia"
21 replace countryid = 17 if country == "Estonia"
22
23 g str = ""
24 replace str = "A" if financingscheme == "All financing schemes"
25 replace str = "B" if financingscheme == "Compulsory contributory
health insurance schemes"
26 replace str = "C" if financingscheme == "Compulsory private
insurance schemes"
27 replace str = "D" if financingscheme == "Government schemes"
28 replace str = "E" if financingscheme == "Government/compulsory
schemes"
29 replace str = "F" if financingscheme == "Household out-of-pocket
payments"
30 replace str = "G" if financingscheme == "Social health insurance
schemes"
31 replace str = "H" if financingscheme == "Voluntary health care
payment schemes"
32 replace str = "I" if financingscheme == "Voluntary health
insurance schemes"
33 save "dta/cache/oecdLtcFin", replace
34 use "dta/cache/oecdLtcFin", clear
35
36
37 keep if function == "Long-term care (health)" | function ==
"Current expenditure on health (all functions)"
38 keep if financingscheme == "Government/compulsory schemes"
39 keep if v8 == "Per capita, current prices, current PPPs"
40 keep if time == 2013
```

```
40 keep if time == 2013
41 drop if countryid == .
42 keep value function country
43 g c = 0
44 replace c = 1 if function == "Long-term care (health)"
45 drop function
46 reshape wide value, i(country) j(c)
47
48 egen mean1 = sum(value1)
49 egen mean0 = sum(value0)
50 // percent of LTC of total health consumption
51 g percent = value1 / value0
52 g percentT = mean1 / mean0
53
54 use "dta/cache/oecdLtcFin", clear
55 // select LTC
56 keep if function == "Long-term care (health)"
57 // country year identifier
58 drop if countryid == .
59 tostring year, generate(strYear)
60 gen countryYearId = country+strYear
61 gen countryYearIdA = country+strYear+str
62 g spending = value
63 save "dta/cache/oecdLtcFin", replace
64
```

```
1 import delimited "dta/in/OECD/OecdPppForGdp.csv", clear
2 save "dta/cache/OecdPppGdp.dta", replace
3 use "dta/cache/OecdPppGdp.dta", clear
4 g countryid = .
5 replace countryid = 1 if country == "Austria"
6 replace countryid = 2 if country == "Germany"
7 replace countryid = 3 if country == "Sweden"
8 replace countryid = 4 if country == "Spain"
9 replace countryid = 5 if country == "Italy"
10 replace countryid = 6 if country == "France"
11 replace countryid = 7 if country == "Denmark"
12 replace countryid = 8 if country == "Greece"
13 replace countryid = 9 if country == "Switzerland"
14 replace countryid = 10 if country == "Belgium"
15 replace countryid = 11 if country == "Czechia"
16 replace countryid = 13 if country == "Luxembourg"
17 replace countryid = 16 if country == "Slovenia"
18 replace countryid = 17 if country == "Estonia"
19 drop if countryid == .
20 tostring year, generate(strYear)
21 gen countryYearId = country+strYear
22 g Ppp = value
23
24 drop value
25
26 keep countryYearId countryid Ppp
27 save "dta/cache/OecdPppGdp.dta", replace
28
```

```

1  use
   "dta/in/sharew7_rel7-0-0_ALL_datasets_stata/sharew7_rel7-0-0_gv_ex
   rates.dta", replace
2  save "dta/cache/sharePpp.dta", replace
3  use "dta/cache/sharePpp.dta", clear
4
5  // ppp & exrate
6  keep country pppk2017 pppk2016 pppk2015 pppk2014 pppk2013
   pppk2012 pppk2011 pppk2010 pppk2009 pppk2008 pppk2007 pppk2006
   pppk2005 pppk2004 pppk2003 /*
7  */ nomx2003 nomx2004 nomx2005 nomx2006 nomx2007 nomx2008 nomx2009
   nomx2010 nomx2011 nomx2012 nomx2013 nomx2014 nomx2015 nomx2016
   nomx2017
8
9  // country identifier
10 gen      countryid = .
11      replace countryid = country - 10 if country <= 13
12      replace countryid = country - 11 if country > 14 & country <=
   20
13      replace countryid = 10 if country == 23
14      replace countryid = 11 if country == 28
15      replace countryid = 12 if country == 29
16      replace countryid = 13 if country == 31
17      replace countryid = 14 if country == 32
18      replace countryid = 15 if country == 33
19      replace countryid = 16 if country == 34
20      replace countryid = 17 if country == 35
21      replace countryid = 18 if country == 47
22      replace countryid = 19 if country == 48
23      replace countryid = 20 if country == 51
24      replace countryid = 21 if country == 53
25      replace countryid = 22 if country == 55
26      replace countryid = 23 if country == 57
27      replace countryid = 24 if country == 59
28      replace countryid = 25 if country == 61
29      replace countryid = 26 if country == 63
30      replace countryid = 27 if country == 25
31
32      lab def countryid      1 "1. Austria"                2 "2. Germany"
   3 "3. Sweden"              ///
33      4 "4. Spain"          5 "5. Italy"
   6 "6. France"              ///
34      7 "7. Denmark"       8 "8. Greece"
   9 "9. Switzerland"        ///
35      10 "10. Belgium"     11 "11.
   Czechia"                  12 "12. Poland"          ///
36      13 "13. Luxembourg"  14 "14.
   Hungary"                  15 "15. Portugal"         ///
37      16 "16. Slovenia"    17 "17.
   Estonia"                  18 "18. Croatia"          ///

```

```

37          16 "16. Slovenia"          17 "17.
Estonia"      18 "18. Croatia"      ///
38          19 "19. Lithuania"      20 "20.
Bulgaria"     21 "21. Cyprus"      ///
39          22 "22. Finland"      23 "23. Latvia"
          24 "24. Malta"      ///
40          25 "25. Romania"      26 "26.
Slovakia"     27 "27. Israel"
41 // efficiency wedges by mendiros et al
42 g effWedge = .
43 replace effWedge = 0.87 if countryid == 1
44 replace effWedge = 0.88 if countryid == 2
45 replace effWedge = 0.90 if countryid == 3
46 replace effWedge = 0.88 if countryid == 4
47 replace effWedge = 0.89 if countryid == 5
48 replace effWedge = 0.94 if countryid == 6
49 replace effWedge = 0.87 if countryid == 7
50 replace effWedge = . if countryid == 8
51 replace effWedge = 0.85 if countryid == 9
52 replace effWedge = 0.90 if countryid == 10
53 replace effWedge = 0.78 if countryid == 11
54 replace effWedge = 0.84 if countryid == 12
55 replace effWedge = 0.90 if countryid == 13
56 replace effWedge = 0.81 if countryid == 14
57 replace effWedge = 0.86 if countryid == 15
58 replace effWedge = 0.85 if countryid == 16
59 replace effWedge = 0.85 if countryid == 17
60 replace effWedge = 0.85 if countryid == 18
61 replace effWedge = 0.76 if countryid == 19
62 replace effWedge = 0.86 if countryid == 20
63 replace effWedge = 0.91 if countryid == 21
64 replace effWedge = 0.88 if countryid == 22
65 replace effWedge = 0.83 if countryid == 23
66 replace effWedge = 0.89 if countryid == 24
67 replace effWedge = 0.85 if countryid == 25
68 replace effWedge = 0.72 if countryid == 26
69
70 la var effWedge "efficiency Wedge of Health care : according to
João Medeiros and Christoph Schwierz 2015"
71
72     lab val countryid countryid
73     lab var countryid "Country identifier"
74
75 keep if countryid <= 11 | countryid == 13 | countryid == 16 |
countryid == 17
76 drop if countryid == .
77 drop country
78 /*
79 bysort countryid: egen counter=count(make)

```

```

1  use
   "dta/in/sharew7_rel7-0-0_ALL_datasets_stata/sharew7_rel7-0-0_gv_ex
   rates.dta", replace
2  save "dta/cache/sharePpp.dta", replace
3  use "dta/cache/sharePpp.dta", clear
4
5  // ppp & exrate
6  keep country pppk2017 pppk2016 pppk2015 pppk2014 pppk2013
   pppk2012 pppk2011 pppk2010 pppk2009 pppk2008 pppk2007 pppk2006
   pppk2005 pppk2004 pppk2003 /*
7  */ nomx2003 nomx2004 nomx2005 nomx2006 nomx2007 nomx2008 nomx2009
   nomx2010 nomx2011 nomx2012 nomx2013 nomx2014 nomx2015 nomx2016
   nomx2017
8
9  // country identifier
10 gen      countryid = .
11      replace countryid = country - 10 if country <= 13
12      replace countryid = country - 11 if country > 14 & country <=
   20
13      replace countryid = 10 if country == 23
14      replace countryid = 11 if country == 28
15      replace countryid = 12 if country == 29
16      replace countryid = 13 if country == 31
17      replace countryid = 14 if country == 32
18      replace countryid = 15 if country == 33
19      replace countryid = 16 if country == 34
20      replace countryid = 17 if country == 35
21      replace countryid = 18 if country == 47
22      replace countryid = 19 if country == 48
23      replace countryid = 20 if country == 51
24      replace countryid = 21 if country == 53
25      replace countryid = 22 if country == 55
26      replace countryid = 23 if country == 57
27      replace countryid = 24 if country == 59
28      replace countryid = 25 if country == 61
29      replace countryid = 26 if country == 63
30      replace countryid = 27 if country == 25
31
32      lab def countryid    1 "1. Austria"                2 "2. Germany"
   3 "3. Sweden"           ///
33                          4 "4. Spain"                  5 "5. Italy"
   6 "6. France"           ///
34                          7 "7. Denmark"                8 "8. Greece"
   9 "9. Switzerland"      ///
35                          10 "10. Belgium"               11 "11.
   Czechia"                12 "12. Poland"                 ///
36                          13 "13. Luxembourg"            14 "14.
   Hungary"                15 "15. Portugal"               ///
37                          16 "16. Slovenia"              17 "17.
   Estonia"                18 "18. Croatia"                ///

```

```

37          16 "16. Slovenia"          17 "17.
Estonia"      18 "18. Croatia"      ///
38          19 "19. Lithuania"      20 "20.
Bulgaria"     21 "21. Cyprus"      ///
39          22 "22. Finland"      23 "23. Latvia"
          24 "24. Malta"      ///
40          25 "25. Romania"      26 "26.
Slovakia"     27 "27. Israel"
41 // efficiency wedges by mendiros et al
42 g effWedge = .
43 replace effWedge = 0.87 if countryid == 1
44 replace effWedge = 0.88 if countryid == 2
45 replace effWedge = 0.90 if countryid == 3
46 replace effWedge = 0.88 if countryid == 4
47 replace effWedge = 0.89 if countryid == 5
48 replace effWedge = 0.94 if countryid == 6
49 replace effWedge = 0.87 if countryid == 7
50 replace effWedge = . if countryid == 8
51 replace effWedge = 0.85 if countryid == 9
52 replace effWedge = 0.90 if countryid == 10
53 replace effWedge = 0.78 if countryid == 11
54 replace effWedge = 0.84 if countryid == 12
55 replace effWedge = 0.90 if countryid == 13
56 replace effWedge = 0.81 if countryid == 14
57 replace effWedge = 0.86 if countryid == 15
58 replace effWedge = 0.85 if countryid == 16
59 replace effWedge = 0.85 if countryid == 17
60 replace effWedge = 0.85 if countryid == 18
61 replace effWedge = 0.76 if countryid == 19
62 replace effWedge = 0.86 if countryid == 20
63 replace effWedge = 0.91 if countryid == 21
64 replace effWedge = 0.88 if countryid == 22
65 replace effWedge = 0.83 if countryid == 23
66 replace effWedge = 0.89 if countryid == 24
67 replace effWedge = 0.85 if countryid == 25
68 replace effWedge = 0.72 if countryid == 26
69
70 la var effWedge "efficiency Wedge of Health care : according to
João Medeiros and Christoph Schwierz 2015"
71
72     lab val countryid countryid
73     lab var countryid "Country identifier"
74
75 keep if countryid <= 11 | countryid == 13 | countryid == 16 |
countryid == 17
76 drop if countryid == .
77 drop country
78 /*
79 bysort countryid: egen counter=count(make)

```

```
1  log using "doc/W5.smcl", replace
2
3  /*
4
5
6  do file welle 5 :   bereinigt Datensatz:
7
8                      health status index
9
10                     need for LTC, unmet LTC
11                     recieved care formal & unformal
12                     care financing type
13
14                     Soz dem : Age, Gender, job situation,
15                     mariage status
16                     income PPP AE – äquivalenzeinkommen gewichtet
17                     nach purchasing power parity
18                     assets PPP AE
19
20 */
21 // SHARE Wave 5 :  visit, mvdecode, merge different modules
22 //
23 //
24
25
26 //sozDem Variables Welle 5
27 //
28 clear
29 use
30 "dta/in/sharew5_rel7-0-0_ALL_datasets_stata/sharew5_rel7-0-0_cv_r.
31 dta"
32 //Berechne : gender age2015 mobirth int_year int_month country
33 mergeid partnerinhh yrbirth
34 g y = 2013
35 do "do/sozDem.do"
36 g wave = 5
37 g hhid = hhid5
38 keep gender mobirth int_year int_month country mergeid
39 partnerinhh yrbirth hhid hhsiz age sqAge
40 //erstelle finalen Datensatz
41 save "dta/cache/dieDaten.dta",replace
42 clear
43
44
45 //sozDem : gv_imputations      Welle 5
46 //
47 clear
```



```
43 clear
44 use
   "dta/in/sharew5_rel7-0-0_ALL_datasets_stata/sharew5_rel7-0-0_gv_im
   putations.dta"
45 //Berechne : nursinghome mstat cjs thinc2 hrass yearsOfEdu
   eurod mstat maxgrip informalHelp
46 g wave = 5
47 save "dta/cache/dataset.dta", replace
48 do "do/gv_imputations.do"
49 save "dta/cache/dataset.dta", replace
50 //merge
51 do "do/merge.do"
52 gen merge5__ = _merge
53 drop _merge
54 save "dta/cache/mergeDoc.dta", replace /*erstelle merge
   dokumentation : füge merge info hinzu */
55 use "dta/cache/dieDaten.dta", clear
56 drop _merge
57 save "dta/cache/dieDaten.dta", replace
58 clear
59
60 //monetary weights Welle 5
61 //
62 clear
63 use
   "dta/in/sharew5_rel7-0-0_ALL_datasets_stata/sharew5_rel7-0-0_gv_ex
   rates.dta"
64 //Berechne : exrate ppp
65 save "dta/cache/dataset.dta", replace
66 do "do/gv_exrates.do"
67 save "dta/cache/dataset.dta", replace
68 //merge
69 use "dta/cache/dieDaten.dta", clear
70 merge m:1 country using "dta/cache/dataset.dta"
71 drop if _merge == 2
72 drop _merge
73 save "dta/cache/dieDaten.dta", replace
74 clear
75
76
77 //sozDem : Employment Welle 5
78 //
79 use
   "dta/in/sharew5_rel7-0-0_ALL_datasets_stata/sharew5_rel7-0-0_ep.dt
   a"
80 //Berechne : stopWrkHlth incPubLTC incPrvLTC
81 do "do/Ep.do"
82 save "dta/cache/dataset.dta", replace
83 //merge dateien
```

```
83 //merge dateien
84 do "do/merge.do"
85 gen merge5ep = _merge
86 drop _merge
87 save "dta/cache/dataset.dta", replace
88 do "do/mergeII.do"
89 clear
90
91 //sozDem : Education Welle 5
92 //
93 use
94 "dta/in/sharew5_rel7-0-0_ALL_datasets_stata/sharew5_rel7-0-0_dn.dta"
95 //Berechne : dn010_ dn014_ mStatus
96 do "do/Dn.do"
97 save "dta/cache/dataset.dta", replace
98 //merge dateien
99 do "do/merge.do"
100 gen merge5dn = _merge
101 drop _merge
102 save "dta/cache/dataset.dta", replace
103 do "do/mergeII.do"
104 clear
105
106 //socialSupport Welle 5
107 //
108 use
109 "dta/in/sharew5_rel7-0-0_ALL_datasets_stata/sharew5_rel7-0-0_sp.dta"
110 //Berechne : recived Care
111 g wave = 5
112 do "do/Sp.do"
113 save "dta/cache/dataset.dta", replace
114 //merge dateien
115 do "do/merge.do"
116 gen merge5sp = _merge
117 drop _merge
118 save "dta/cache/merge.dta", replace
119 do "do/mergeII.do"
120 clear
121
122 //physical Health Welle 5
123 //
124 use
125 "dta/in/sharew5_rel7-0-0_ALL_datasets_stata/sharew5_rel7-0-0_ph.dta"
126 //Berechne : careLev selfRatedHealth selfRatedHealthDum
127 limInActv sumDisease sumDrugForSth
128 g wave = 5
```

```
124 g wave = 5
125 save "dta/cache/dataset.dta", replace
126 do "do/Ph.do"
127 save "dta/cache/dataset.dta", replace
128 //merge
129 do "do/merge.do"
130 gen merge5ph = _merge
131 drop _merge
132 save "dta/cache/merge.dta", replace
133 do "do/mergeII.do"
134 clear
135
136 //mental Health Welle 5
137 //
138 clear
139 use
140 "dta/in/sharew5_rel7-0-0_ALL_datasets_stata/sharew5_rel7-0-0_mh.dta"
141 //Berechne : z mental health
142 g wave = 5
143 save "dta/cache/dataset.dta", replace
144 do "do/Mh.do"
145 save "dta/cache/dataset.dta", replace
146 //merge
147 do "do/merge.do"
148 gen merge5mh = _merge
149 drop _merge
150 save "dta/cache/merge.dta", replace
151 do "do/mergeII.do"
152 clear
153
154 //cognitive Function Welle 5
155 //
156 clear
157 use
158 "dta/in/sharew5_rel7-0-0_ALL_datasets_stata/sharew5_rel7-0-0_cf.dta"
159 //Berechne : zCogFct
160 g wave = 5
161 save "dta/cache/dataset.dta", replace
162 do "do/Cf.do"
163 save "dta/cache/dataset.dta", replace
164 //merge
165 do "do/merge.do"
166 gen merge5cf = _merge
167 drop _merge
168 save "dta/cache/merge.dta", replace
169 do "do/mergeII.do"
170 clear
```

```
168 clear
169
170 //health care Welle 5
171 //
172 clear
173 use
174 "dta/in/sharew5_rel7-0-0_ALL_datasets_stata/sharew5_rel7-0-0_hc.dta"
175 //Berechne : lTCInsurancePub lTCInsurancePrvMdt
176 lTCInsurancePrvVlt recPrfCare outOfPocketPay inLtcFacility
177 g wave = 5
178 save "dta/cache/dataset.dta", replace
179 do "do/Hc.do"
180 save "dta/cache/dataset.dta", replace
181 //merge
182 do "do/merge.do"
183 gen merge5hc = _merge
184 drop _merge
185 save "dta/cache/merge.dta", replace
186 do "do/mergeII.do"
187 clear
188
189 clear
190
191 //Health imputed      Welle 5
192 //
193 clear
194 use
195 "dta/in/sharew5_rel7-0-0_ALL_datasets_stata/sharew5_rel7-0-0_gv_health.dta"
196 g chronic2 = chronic2w5
197 //Berechne : casp phactiv sphus chronic2
198 save "dta/cache/dataset.dta", replace
199 do "do/gv_health.do"
200 save "dta/cache/dataset.dta", replace
201 //merge
202 do "do/merge.do"
203 gen merge5__ = _merge
204 drop _merge
205 save "dta/cache/merge.dta", replace
206 do "do/mergeII.do"
207 clear
208
209 //Risk behaviour      Welle 6
210 //
211 clear
```

```
211 clear
212 use
    "dta/in/sharew5_rel7-0-0_ALL_datasets_stata/sharew5_rel7-0-0_br.dta"
213 //Berechne : br
214 g wave = 5
215 save "dta/cache/dataset.dta", replace
216 do "do/br.do"
217 save "dta/cache/dataset.dta", replace
218 //merge
219 do "do/merge.do"
220 gen merge7__ = _merge
221 drop _merge
222 save "dta/cache/merge.dta", replace
223 do "do/mergeII.do"
224 clear
225
226 //expectancy      Welle n
227 //
228 clear
229 use
    "dta/in/sharew5_rel7-0-0_ALL_datasets_stata/sharew5_rel7-0-0_ex.dta"
230 //Berechne :
231 save "dta/cache/dataset.dta", replace
232 do "do/ex.do"
233 save "dta/cache/dataset.dta", replace
234 //merge
235 do "do/merge.do"
236 gen merge5__ = _merge
237 drop _merge
238 save "dta/cache/merge.dta", replace
239 do "do/mergeII.do"
240 clear
241
242
243
244
245 // review merge documentation, prepare dataset for :
    descriptive Analysis
246 //
247 //
248
249 //merge documentation
250 //
251 use "dta/cache/mergeDoc.dta", clear
252 g wave = 5
253 do "do/mergeObserver.do"
254
```

```

254
255 //merge documentation : drop duplicates
256 //
257 do "do/runTwinKiller.do"
258
259 //prepeare data for descriptive analysis : fin
260 //
261 do "do/prepFin.do"
262 save "dta/cache/dieDaten.dta", replace
263
264 //prepeare data for descriptive analysis : health
265 //
266 do "do/prepHlth.do"
267 save "dta/cache/dieDaten.dta", replace
268
269
270
271
272 // descriptive Analysis, save outcome
273 //
274 //
275
276 use "dta/cache/dieDaten", clear
277
278
279 // clac Macro indicators Wave 5
280 //
281 do "do/calcMacro.do"
282 save "dta/cache/MacroNo5.dta", replace
283 export delimited using "dta/out/MacroW5", replace
284
285 /*
286 do final Cleaning =
287     keep contries : Austria, Germany, Sweden, Spain, Italy,
France, Denmark, Switzerland, Belgium, Luxembourg, Slovineia,
Estonia;
288     keep variables : mergeid int_year country
countryid health careLev needsLtc unmetCare recPrfCare
recivedCare
289                                     inLtcFacility careForm
careFinContext/*
290     M2 – soz backgroung */ gender /*age*/age sqAge
/*relationship status*/ mStatus /*edu*/yearsOfEdu/*
291                                     employment status*/
jobSit /*income & assets*/ income Assets /*
292     M3 – Care financing context */ outOfPocketPay
lTCInsurancePrvVlt lTCInsurancePrvMdt lTCInsurancePub /*
293 */ */
294 use "dta/cache/dieDaten", clear

```

```

294 use "dta/cache/dieDaten", clear
295 do "do/finalCleaning.do"
296
297 //descriptive Analysis 1:
298 sum
299 //descriptive Analysis 2:
300 sum if needsLtc == 1
301 g wave = 5
302 save "dta/cache/W5.dta", replace
303 export delimited using "dta/out/W5", replace
304
305 // prepare dataset for : multivariat Analysis, export dataset
    (import if im going to do macro analysis in stata – so far i
    have perpared macro Data in R)
306 //
307 //
308 use "dta/cache/W5.dta", clear
309 do "do/microAnalysis.do"
310
311 // post file micro
312 postfile MicroAnalysis countryid N beta_careLev se_careLev
    beta_age se_age using "dta/cache/results_microW5.dta", replace
313
314
315 forvalues i = 1/12 {
316     quietly regress health careLev i.careForm/*
317 */ gender c.age i.mStatus i.jobSit income Assets/*
318 */ i.careFinContext if newid == `i'
319     mat results = r(table)
320     local countryid = countryid           // the cntry variable in
    the new dataset should contain the same cntry values
321     local N = e(N)                       // number of
    observations for each country (or: for each regression)
322     local beta_careLev = results[1,1]     // beta_hasLtc captures
    the regression coefficient of hasLtc for the corresponding
    cntry/regression
323     local se_careLev = results[1,2]       // se_hasLtc captures
    the corresponding std. err.
324     local beta_cage = results[2,1]       // beta_cage captures
    the regression coefficient of cage for the corresponding
    cntry/regression
325     local se_cage = results[2,2]         // se_cage captures the
    corresponding std. err.
326     post MicroAnalysis (`i') (`N') (`beta_careLev') (`beta_cage')
    (`se_careLev') (`se_cage')
327 }
328

```

```
1  log using "doc/W6.smcl", replace
2
3  /*
4
5
6  do file welle 6 :   bereinigt Datensatz:
7
8                      health status index
9
10                     need for LTC, unmet LTC
11                     recieved care formal & unformal
12                     care financing type
13
14                     Soz dem : Age, Gender, job situation,
15                     mariage status
16                     income PPP AE – äquivalenzeinkommen gewichtet
17                     nach purchasing power parity
18                     assets PPP AE
19
20 */
21 //  SHARE Wave 6 :  visit, mvdecode, merge different modules
22 //
23 //
24
25
26 //sozDem Variables Welle 6
27 //
28 clear
29 use
30 "dta/in/sharew6_rel7-0-0_ALL_datasets_stata/sharew6_rel7-0-0_cv_r.
31 dta"
32 //Berechne : gender age2016 mobirth int_year int_month country
33 mergeid partnerinhh yrbirth
34 g y = 2015
35 do "do/sozDem.do"
36 g wave = 6
37 g hhid = hhid6
38 keep gender mobirth int_year int_month country mergeid
39 partnerinhh yrbirth hhid hhsiz age sqAge
40 //erstelle finalen Datensatz
41 save "dta/cache/dieDaten.dta",replace
42 clear
43
44
45 //sozDem : gv_imputations      Welle 6
46 //
47 clear
```



```
43 clear
44 use
   "dta/in/sharew6_rel7-0-0_ALL_datasets_stata/sharew6_rel7-0-0_gv_im
   putations.dta"
45 //Berechne : nursinghome mstat cjs thinc2 hrass yearsOfEdu
   eurod mstat maxgrip informalHelp
46 g wave = 6
47 save "dta/cache/dataset.dta", replace
48 do "do/gv_imputations.do"
49 save "dta/cache/dataset.dta", replace
50 //merge
51 do "do/merge.do"
52 gen merge6__ = _merge
53 drop _merge
54 save "dta/cache/mergeDoc.dta", replace /*erstelle merge
   dokumentation : füge merge info hinzu */
55 use "dta/cache/dieDaten.dta", clear
56 drop _merge
57 save "dta/cache/dieDaten.dta", replace
58 clear
59
60 //monetary weights Welle 6
61 //
62 clear
63 use
   "dta/in/sharew6_rel7-0-0_ALL_datasets_stata/sharew6_rel7-0-0_gv_ex
   rates.dta"
64 //Berechne : exrate ppp
65 save "dta/cache/dataset.dta", replace
66 do "do/gv_exrates.do"
67 save "dta/cache/dataset.dta", replace
68 //merge
69 use "dta/cache/dieDaten.dta", clear
70 merge m:1 country using "dta/cache/dataset.dta"
71 drop if _merge == 2
72 drop _merge
73 save "dta/cache/dieDaten.dta", replace
74 clear
75
76
77 //sozDem : Employment Welle 6
78 //
79 use
   "dta/in/sharew6_rel7-0-0_ALL_datasets_stata/sharew6_rel7-0-0_ep.dt
   a"
80 //Berechne : stopWrkHlth incPubLTC incPrvLTC
81 do "do/Ep.do"
82 save "dta/cache/dataset.dta", replace
83 //merge dateien
```

```
83 //merge dateien
84 do "do/merge.do"
85 gen merge6ep = _merge
86 drop _merge
87 save "dta/cache/dataset.dta", replace
88 do "do/mergeII.do"
89 clear
90
91 //sozDem : Education Welle 6
92 //
93 use
94 "dta/in/sharew6_rel7-0-0_ALL_datasets_stata/sharew6_rel7-0-0_dn.dta"
95 //Berechne : dn010_ dn014_ mStatus
96 do "do/Dn.do"
97 save "dta/cache/dataset.dta", replace
98 //merge dateien
99 do "do/merge.do"
100 gen merge6dn = _merge
101 drop _merge
102 save "dta/cache/dataset.dta", replace
103 do "do/mergeII.do"
104 clear
105
106 //socialSupport Welle 6
107 //
108 use
109 "dta/in/sharew6_rel7-0-0_ALL_datasets_stata/sharew6_rel7-0-0_sp.dta"
110 //Berechne : recived Care
111 g wave = 6
112 do "do/Sp.do"
113 save "dta/cache/dataset.dta", replace
114 //merge dateien
115 do "do/merge.do"
116 gen merge6sp = _merge
117 drop _merge
118 save "dta/cache/merge.dta", replace
119 do "do/mergeII.do"
120 clear
121
122 //physical Health Welle 6
123 //
124 use
125 "dta/in/sharew6_rel7-0-0_ALL_datasets_stata/sharew6_rel7-0-0_ph.dta"
126 //Berechne : careLev selfRatedHealth selfRatedHealthDum
127 limInActv sumDisease sumDrugForSth
128 g wave = 6
```

```
124 g wave = 6
125 save "dta/cache/dataset.dta", replace
126 do "do/Ph.do"
127 save "dta/cache/dataset.dta", replace
128 //merge
129 do "do/merge.do"
130 gen merge6ph = _merge
131 drop _merge
132 save "dta/cache/merge.dta", replace
133 do "do/mergeII.do"
134 clear
135
136 //mental Health Welle 6
137 //
138 clear
139 use
140 "dta/in/sharew6_rel7-0-0_ALL_datasets_stata/sharew6_rel7-0-0_mh.dta"
141 //Berechne : z mental health
142 g wave = 6
143 save "dta/cache/dataset.dta", replace
144 do "do/Mh.do"
145 save "dta/cache/dataset.dta", replace
146 //merge
147 do "do/merge.do"
148 gen merge6mh = _merge
149 drop _merge
150 save "dta/cache/merge.dta", replace
151 do "do/mergeII.do"
152 clear
153
154 //cognitive Function Welle 6
155 //
156 clear
157 use
158 "dta/in/sharew6_rel7-0-0_ALL_datasets_stata/sharew6_rel7-0-0_cf.dta"
159 //Berechne : zCogFct
160 g wave = 6
161 save "dta/cache/dataset.dta", replace
162 do "do/Cf.do"
163 save "dta/cache/dataset.dta", replace
164 //merge
165 do "do/merge.do"
166 gen merge6cf = _merge
167 drop _merge
168 save "dta/cache/merge.dta", replace
169 do "do/mergeII.do"
170 clear
```

```
168 clear
169
170 //health care Welle 6
171 //
172 clear
173 use
174 "dta/in/sharew6_rel7-0-0_ALL_datasets_stata/sharew6_rel7-0-0_hc.dta"
175 //Berechne : lTCInsurancePub lTCInsurancePrvMdt
176 lTCInsurancePrvVlt recPrfCare outOfPocketPay inLtcFacility
177 g wave = 6
178 save "dta/cache/dataset.dta", replace
179 do "do/Hc.do"
180 save "dta/cache/dataset.dta", replace
181 //merge
182 do "do/merge.do"
183 gen merge6hc = _merge
184 drop _merge
185 save "dta/cache/merge.dta", replace
186 do "do/mergeII.do"
187 clear
188
189 clear
190
191 //Health imputed      Welle 6
192 //
193 clear
194 use
195 "dta/in/sharew6_rel7-0-0_ALL_datasets_stata/sharew6_rel7-0-0_gv_health.dta"
196 g chronic2 = chronic2w6
197 //Berechne : casp phactiv sphus chronic2
198 save "dta/cache/dataset.dta", replace
199 do "do/gv_health.do"
200 save "dta/cache/dataset.dta", replace
201 //merge
202 do "do/merge.do"
203 gen merge6__ = _merge
204 drop _merge
205 save "dta/cache/merge.dta", replace
206 do "do/mergeII.do"
207 clear
208
209 //Risk behaviour      Welle 6
210 //
211 clear
```

```
211 clear
212 use
    "dta/in/sharew6_rel7-0-0_ALL_datasets_stata/sharew6_rel7-0-0_br.dta"
213 //Berechne : br
214 g wave = 6
215 save "dta/cache/dataset.dta", replace
216 do "do/br.do"
217 save "dta/cache/dataset.dta", replace
218 //merge
219 do "do/merge.do"
220 gen merge7__ = _merge
221 drop _merge
222 save "dta/cache/merge.dta", replace
223 do "do/mergeII.do"
224 clear
225
226 //expectancy      Welle n
227 //
228 clear
229 use
    "dta/in/sharew6_rel7-0-0_ALL_datasets_stata/sharew6_rel7-0-0_ex.dta"
230 //Berechne :
231 save "dta/cache/dataset.dta", replace
232 do "do/ex.do"
233 save "dta/cache/dataset.dta", replace
234 //merge
235 do "do/merge.do"
236 gen merge6__ = _merge
237 drop _merge
238 save "dta/cache/merge.dta", replace
239 do "do/mergeII.do"
240 clear
241
242
243
244
245 // review merge documentation, prepare dataset for :
    descriptive Analysis
246 //
247 //
248
249 //merge documentation
250 //
251 use "dta/cache/mergeDoc.dta", clear
252 g wave = 6
253 do "do/mergeObserver.do"
254
```

```

254
255 //merge documentation : drop duplicates
256 //
257 do "do/runTwinKiller.do"
258
259 //prepeare data for descriptive analysis : fin
260 //
261 do "do/prepFin.do"
262 save "dta/cache/dieDaten.dta", replace
263
264 //prepeare data for descriptive analysis : health
265 //
266 do "do/prepHlth.do"
267 save "dta/cache/dieDaten.dta", replace
268
269
270
271
272 // descriptive Analysis, save outcome
273 //
274 //
275
276 use "dta/cache/dieDaten", clear
277
278
279 // clac Macro indicators Wave 6
280 //
281 do "do/calcMacro.do"
282 save "dta/cache/MacroNo6.dta", replace
283 export delimited using "dta/out/MacroW6", replace
284
285 /*
286 do final Cleaning =
287     keep contries : Austria, Germany, Sweden, Spain, Italy,
France, Denmark, Switzerland, Belgium, Luxembourg, Slovineia,
Estonia;
288     keep variables : mergeid int_year country
countryid health careLev needsLtc unmetCare recPrfCare
recivedCare
289                                     inLtcFacility careForm
careFinContext/*
290     M2 – soz backgroung */ gender /*age*/age sqAge
/*relationship status*/ mStatus /*edu*/yearsOfEdu/*
291                                     employment status*/
jobSit /*income & assets*/ income Assets /*
292     M3 – Care financing context */ outOfPocketPay
lTCInsurancePrvVlt lTCInsurancePrvMdt lTCInsurancePub /*
293 */ */
294 use "dta/cache/dieDaten", clear

```

```

294 use "dta/cache/dieDaten", clear
295 do "do/finalCleaning.do"
296
297 //descriptive Analysis 1:
298 sum
299 //descriptive Analysis 2:
300 sum if needsLtc == 1
301 g wave = 6
302 save "dta/cache/W6.dta", replace
303 export delimited using "dta/out/W6", replace
304
305 // prepare dataset for : multivariat Analysis, export dataset
    (import if im going to do macro analysis in stata – so far i
    have perpared macro Data in R)
306 //
307 //
308 use "dta/cache/W6.dta", clear
309 do "do/microAnalysis.do"
310
311 postfile MicroAnalysis countryid N beta_careLev se_careLev
    beta_age se_age using "dta/cache/results_microW6.dta", replace
312
313
314 forvalues i = 1/12 {
315     quietly regress health careLev i.careForm/*
316 */ gender c.age i.mStatus i.jobSit income Assets/*
317 */ i.careFinContext if newid == `i'
318     mat results = r(table)
319     local countryid = countryid           // the cntry variable in
    the new dataset should contain the same cntry values
320     local N = e(N)                       // number of
    observations for each country (or: for each regression)
321     local beta_careLev = results[1,1]     // beta_hasLtc captures
    the regression coefficient of hasLtc for the corresponding
    cntry/regression
322     local se_careLev = results[1,2]       // se_hasLtc captures
    the corresponding std. err.
323     local beta_cage = results[2,1]        // beta_cage captures
    the regression coefficient of cage for the corresponding
    cntry/regression
324     local se_cage = results[2,2]          // se_cage captures the
    corresponding std. err.
325     post MicroAnalysis (`i') (`N') (`beta_careLev') (`beta_cage')
    (`se_careLev') (`se_cage')
326 }
327
328 postclose MicroAnalysis

```

```
1  log using "doc/W7.smcl", replace
2
3  /*
4
5
6  do file welle 7 :   bereinigt Datensatz:
7
8                      health status index
9
10                     need for LTC, unmet LTC
11                     recieved care formal & unformal
12                     care financing type
13
14                     Soz dem : Age, Gender, job situation,
15                     mariage status
16                     income PPP AE – äquivalenzeinkommen gewichtet
17                     nach purchasing power parity
18                     assets PPP AE
19
20 */
21 //  SHARE Wave 7 :  visit, mvdecode, merge different modules
22 //
23 //
24
25
26 //sozDem Variables Welle 7
27 //
28 clear
29 use
30 "dta/in/sharew7_rel7-0-0_ALL_datasets_stata/sharew7_rel7-0-0_cv_r.
31 dta"
32 //Berechne : gender age2017 mobirth int_year int_month country
33 mergeid partnerinhh yrbirth
34 g y = 2017
35 do "do/sozDem.do"
36 g wave = 7
37 g hhid = hhid7
38 keep gender mobirth int_year int_month country mergeid
39 partnerinhh yrbirth hhid hhsiz age sqAge
40 //erstelle finalen Datensatz
41 save "dta/cache/dieDaten.dta",replace
42 clear
43
44
45 //sozDem : gv_imputations      Welle 7
46 //
47 clear
```



```
43 clear
44 use
   "dta/in/sharew7_rel7-0-0_ALL_datasets_stata/sharew7_rel7-0-0_gv_im
   putations.dta"
45 //Berechne : nursinghome mstat cjs thinc2 hrass yearsOfEdu
   eurod mstat maxgrip informalHelp
46 g wave = 7
47 save "dta/cache/dataset.dta", replace
48 do "do/gv_imputations.do"
49 save "dta/cache/dataset.dta", replace
50 //merge
51 do "do/merge.do"
52 gen merge7__ = _merge
53 drop _merge
54 save "dta/cache/mergeDoc.dta", replace /*erstelle merge
   dokumentation : füge merge info hinzu */
55 use "dta/cache/dieDaten.dta", clear
56 drop _merge
57 save "dta/cache/dieDaten.dta", replace
58 clear
59
60 //monetary weights Welle 7
61 //
62 clear
63 use
   "dta/in/sharew7_rel7-0-0_ALL_datasets_stata/sharew7_rel7-0-0_gv_ex
   rates.dta"
64 //Berechne : exrate ppp
65 save "dta/cache/dataset.dta", replace
66 do "do/gv_exrates.do"
67 save "dta/cache/dataset.dta", replace
68 //merge
69 use "dta/cache/dieDaten.dta", clear
70 merge m:1 country using "dta/cache/dataset.dta"
71 drop if _merge == 2
72 drop _merge
73 save "dta/cache/dieDaten.dta", replace
74 clear
75
76
77 //sozDem : Employment Welle 7
78 //
79 use
   "dta/in/sharew7_rel7-0-0_ALL_datasets_stata/sharew7_rel7-0-0_ep.dt
   a"
80 //Berechne : stopWrkHlth incPubLTC incPrvLTC
81 do "do/Ep.do"
82 save "dta/cache/dataset.dta", replace
83 //merge dateien
```

```
83 //merge dateien
84 do "do/merge.do"
85 gen merge7ep = _merge
86 drop _merge
87 save "dta/cache/dataset.dta", replace
88 do "do/mergeII.do"
89 clear
90
91 //sozDem : Education Welle 7
92 //
93 use
94 "dta/in/sharew7_rel7-0-0_ALL_datasets_stata/sharew7_rel7-0-0_dn.dta"
95 //Berechne : dn010_ dn014_ mStatus
96 do "do/Dn.do"
97 save "dta/cache/dataset.dta", replace
98 //merge dateien
99 do "do/merge.do"
100 gen merge7dn = _merge
101 drop _merge
102 save "dta/cache/dataset.dta", replace
103 do "do/mergeII.do"
104 clear
105
106 //socialSupport Welle 7
107 //
108 use
109 "dta/in/sharew7_rel7-0-0_ALL_datasets_stata/sharew7_rel7-0-0_sp.dta"
110 //Berechne : recived Care
111 g wave = 7
112 do "do/Sp.do"
113 save "dta/cache/dataset.dta", replace
114 //merge dateien
115 do "do/merge.do"
116 gen merge7sp = _merge
117 drop _merge
118 save "dta/cache/merge.dta", replace
119 do "do/mergeII.do"
120 clear
121
122 //physical Health Welle 7
123 //
124 use
125 "dta/in/sharew7_rel7-0-0_ALL_datasets_stata/sharew7_rel7-0-0_ph.dta"
126 //Berechne : careLev selfRatedHealth selfRatedHealthDum
127 limInActv sumDisease sumDrugForSth
128 g wave = 7
```

```
124 g wave = 7
125 save "dta/cache/dataset.dta", replace
126 do "do/Ph.do"
127 save "dta/cache/dataset.dta", replace
128 //merge
129 do "do/merge.do"
130 gen merge7ph = _merge
131 drop _merge
132 save "dta/cache/merge.dta", replace
133 do "do/mergeII.do"
134 clear
135
136 //mental Health Welle 7
137 //
138 clear
139 use
140 "dta/in/sharew7_rel7-0-0_ALL_datasets_stata/sharew7_rel7-0-0_mh.dta"
141 //Berechne : z mental health
142 g wave = 7
143 save "dta/cache/dataset.dta", replace
144 do "do/Mh.do"
145 save "dta/cache/dataset.dta", replace
146 //merge
147 do "do/merge.do"
148 gen merge7mh = _merge
149 drop _merge
150 save "dta/cache/merge.dta", replace
151 do "do/mergeII.do"
152 clear
153
154 //cognitive Function Welle 7
155 //
156 clear
157 use
158 "dta/in/sharew7_rel7-0-0_ALL_datasets_stata/sharew7_rel7-0-0_cf.dta"
159 //Berechne : zCogFct
160 g wave = 7
161 save "dta/cache/dataset.dta", replace
162 do "do/Cf.do"
163 save "dta/cache/dataset.dta", replace
164 //merge
165 do "do/merge.do"
166 gen merge7cf = _merge
167 drop _merge
168 save "dta/cache/merge.dta", replace
169 do "do/mergeII.do"
170 clear
```

```
168 clear
169
170 //health care Welle 7
171 //
172 clear
173 use
174 "dta/in/sharew7_rel7-0-0_ALL_datasets_stata/sharew7_rel7-0-0_hc.dta"
175 //Berechne : LTCInsurancePub LTCInsurancePrvMdt
176 LTCInsurancePrvVlt recPrfCare outOfPocketPay inLtcFacility
177 g wave = 7
178 save "dta/cache/dataset.dta", replace
179 do "do/Hc.do"
180 save "dta/cache/dataset.dta", replace
181 //merge
182 do "do/merge.do"
183 gen merge7hc = _merge
184 drop _merge
185 save "dta/cache/merge.dta", replace
186 do "do/mergeII.do"
187 clear
188
189 clear
190
191 //Health imputed      Welle 7
192 //
193 clear
194 use
195 "dta/in/sharew7_rel7-0-0_ALL_datasets_stata/sharew7_rel7-0-0_gv_health.dta"
196 g chronic2 = chronic2w7
197 //Berechne : casp phactiv sphus chronic2
198 save "dta/cache/dataset.dta", replace
199 do "do/gv_health.do"
200 save "dta/cache/dataset.dta", replace
201 //merge
202 do "do/merge.do"
203 gen merge7__ = _merge
204 drop _merge
205 save "dta/cache/merge.dta", replace
206 do "do/mergeII.do"
207 clear
208
209 //Risk behaviour      Welle 6
210 //
211 clear
```

```
211 clear
212 use
    "dta/in/sharew7_rel7-0-0_ALL_datasets_stata/sharew7_rel7-0-0_br.dta"
213 //Berechne : br
214 g wave = 7
215 save "dta/cache/dataset.dta", replace
216 do "do/br.do"
217 save "dta/cache/dataset.dta", replace
218 //merge
219 do "do/merge.do"
220 gen merge7__ = _merge
221 drop _merge
222 save "dta/cache/merge.dta", replace
223 do "do/mergeII.do"
224 clear
225
226 //expectancy      Welle n
227 //
228 clear
229 use
    "dta/in/sharew7_rel7-0-0_ALL_datasets_stata/sharew7_rel7-0-0_ex.dta"
230 //Berechne :
231 save "dta/cache/dataset.dta", replace
232 do "do/ex.do"
233 save "dta/cache/dataset.dta", replace
234 //merge
235 do "do/merge.do"
236 gen merge7__ = _merge
237 drop _merge
238 save "dta/cache/merge.dta", replace
239 do "do/mergeII.do"
240 clear
241
242
243
244
245 // review merge documentation, prepare dataset for :
    descriptive Analysis
246 //
247 //
248
249 //merge documentation
250 //
251 use "dta/cache/mergeDoc.dta", clear
252 g wave = 7
253 do "do/mergeObserver.do"
254
```

```

254
255 //merge documentation : drop duplicates
256 //
257 do "do/runTwinKiller.do"
258
259 //prepeare data for descriptive analysis : fin
260 //
261 do "do/prepFin.do"
262 save "dta/cache/dieDaten.dta", replace
263
264 //prepeare data for descriptive analysis : health
265 //
266 do "do/prepHlth.do"
267 save "dta/cache/dieDaten.dta", replace
268
269
270
271
272 // descriptive Analysis, save outcome
273 //
274 //
275
276 use "dta/cache/dieDaten", clear
277
278
279 // clac Macro indicators Wave 7
280 //
281 do "do/calcMacro.do"
282 save "dta/cache/MacroNo7.dta", replace
283 export delimited using "dta/out/MacroW7", replace
284
285 /*
286 do final Cleaning =
287     keep contries : Austria, Germany, Sweden, Spain, Italy,
France, Denmark, Switzerland, Belgium, Luxembourg, Slovineia,
Estonia;
288     keep variables : mergeid int_year country
countryid health careLev needsLtc unmetCare recPrfCare
recivedCare
289                                     inLtcFacility careForm
careFinContext/*
290     M2 – soz backgroung */ gender /*age*/age sqAge
/*relationship status*/ mStatus /*edu*/yearsOfEdu/*
291                                     employment status*/
jobSit /*income & assets*/ income Assets /*
292     M3 – Care financing context */ outOfPocketPay
lTCInsurancePrvVlt lTCInsurancePrvMdt lTCInsurancePub /*
293 */ */
294 use "dta/cache/dieDaten", clear

```

```

294 use "dta/cache/dieDaten", clear
295 do "do/finalCleaning.do"
296
297 //descriptive Analysis 1:
298 sum
299 //descriptive Analysis 2:
300 sum if needsLtc == 1
301 g wave = 7
302 save "dta/cache/W7.dta", replace
303 export delimited using "dta/out/W7", replace
304
305 // prepare dataset for : multivariat Analysis, export dataset
    (import if im going to do macro analysis in stata – so far i
    have perpared macro Data in R)
306 //
307 //
308 use "dta/cache/W7.dta", clear
309 do "do/microAnalysis.do"
310
311 postfile MicroAnalysis countryid N beta_careLev se_careLev
    beta_age se_age using "dta/cache/results_microW7.dta", replace
312
313
314 forvalues i = 1/12 {
315     quietly regress health careLev i.careForm/*
316 */ gender c.age i.mStatus i.jobSit income Assets/*
317 */ i.careFinContext if newid == `i'
318     mat results = r(table)
319     local countryid = countryid           // the cntry variable in
    the new dataset should contain the same cntry values
320     local N = e(N)                       // number of
    observations for each country (or: for each regression)
321     local beta_careLev = results[1,1]     // beta_hasLtc captures
    the regression coefficient of hasLtc for the corresponding
    cntry/regression
322     local se_careLev = results[1,2]       // se_hasLtc captures
    the corresponding std. err.
323     local beta_cage = results[2,1]        // beta_cage captures
    the regression coefficient of cage for the corresponding
    cntry/regression
324     local se_cage = results[2,2]          // se_cage captures the
    corresponding std. err.
325     post MicroAnalysis (`i') (`N') (`beta_careLev') (`beta_cage')
    (`se_careLev') (`se_cage')
326 }
327
328 postclose MicroAnalysis

```

```
1 // code missings
2 mvdecode partnerinhh, mv(999999)
3 mvdecode mobirth, mv(999999)
4 mvdecode int_year, mv(999999)
5 mvdecode mergeid, mv(999999)
6 mvdecode partnerinhh, mv(999999)
7 mvdecode gender, mv(999999)
8 mvdecode yrbirth, mv(999999)
9 mvdecode age_int, mv(999999)
10 // calc age at interview
11 g age = .
12 replace age = int_year - yrbirth if int_year != -9
13 replace age = y - yrbirth if int_year == -9
14 replace int_year = y if int_year == -9
15 g sqAge = age*age
16 la var age "age in years"
17 la var sqAge "age^2 in years"
18
```



```
1 // compare income imputations and macro data
2 if wave == 5{
3 do "do/compareImplicats.do"
4 }
5
6 // open cache dataset
7 use "dta/cache/dataset.dta", replace
8 // marriage status
9 g livWthPrt = 0
10 replace livWthPrt = 1 if mstat == 1 | mstat == 2
11 g widowed = 0
12 replace widowed = 1 if mstat == 6
13 g seperated = 0
14 replace seperated = 1 if mstat == 3 | mstat == 5
15 la var livWthPrt "dummyVar : true = married && living together
|| registered partenship && living together"
16 la var widowed "dummyVar : true = widowed"
17 la var seperated "dummyVar : true = married && not living
together || divorced"
18
19 // code missing values
20 mvdecode eurod, mv(-99)
21 mvdecode maxgrip, mv(-99)
22
23 // job situation
24 g employed = 0
25 replace employed = 1 if cjs == 2
26 g retired = 0
27 replace retired = 1 if cjs == 1
28 // informal LTC
29 g informalHelp = 0
30 replace informalHelp = 1 if rhfo >= 1
31
32 // keep implicat income hoghest corr with macro data
33 keep if implicat == 1
34 if wave == 1{
35 g thinc2 = thinc
36 }
37 // education
38 g yearsOfEdu = yedu
39 la var yearsOfEdu "bildung in jahren"
40 keep mergeid nursinghome mstat cjs thinc2 hrass yearsOfEdu eurod
mstat maxgrip informalHelp
41
42 save "dta/cache/dataset.dta", replace
43
```

```
1  do "do/importEurostatInc.do"
2  use "dta/cache/dataset.dta", clear
3
4
5  g hhid = hhid5
6  g inc = thinc2 * pppk2013
7
8  keep mergeid hhid country age implicat inc
9
10 reshape wide inc age, i(mergeid) j(implicat)
11
12 forvalues i = 2/5{
13   replace age`i' = . if age`i' == age1
14 }
15
16 g age = age1
17
18 gen adult = 0
19 replace adult = 1 if age >= 18
20 gen olderThan14 = 0
21 replace olderThan14 = 1 if age >= 14 & age < 18
22 gen youngerThan14 = 0
23 replace youngerThan14 = 1 if age < 14
24 do "do/CountHH.do"
25 sort hhid
26 by hhid: gen n1 = _n
27 by hhid: gen n2 = _N
28 by hhid: gen nAdlt = _n if adult == 1
29 by hhid: gen nTeen = _n if olderThan14 == 1
30 by hhid: gen nKid = _n if youngerThan14 == 1
31 by hhid: gen adultsHH = sum(adult)
32 by hhid: gen TeenHH = sum(olderThan14)
33 by hhid: gen KidHH = sum(youngerThan14)
34 by hhid: egen tAdultsHH = max(adultsHH)
35 by hhid: egen tTeenHH = max(TeenHH)
36 by hhid: egen tKidHH = max(KidHH)
37 gen prsGwt = 0
38 replace prsGwt = tAdultsHH + tTeenHH*0.5 + tKidHH*0.3
39
40 sort country
41 forvalues i = 1/5{
42   g hhinc`i' = inc`i' / prsGwt
43   by country: egen ctryMnInc`i' = mean(hhinc`i')
44   by country: egen ctryMdInc`i' = median(hhinc`i')
45 }
46
47 by country: gen twinKill = _n
48 drop if twinKill != 1
49 drop twinKill
```

```

49 drop twinKill
50
51 keep country ctryMnInc1 - ctryMnInc5 ctryMdInc1 - ctryMdInc5
52 g countryid = .
53 replace countryid = country - 10 if country <= 13
54     replace countryid = country - 11 if country > 14 & country <=
    20
55     replace countryid = 10 if country == 23
56     replace countryid = 11 if country == 28
57     replace countryid = 12 if country == 29
58     replace countryid = 13 if country == 31
59     replace countryid = 14 if country == 32
60     replace countryid = 15 if country == 33
61     replace countryid = 16 if country == 34
62     replace countryid = 17 if country == 35
63     replace countryid = 18 if country == 47
64     replace countryid = 19 if country == 48
65     replace countryid = 20 if country == 51
66     replace countryid = 21 if country == 53
67     replace countryid = 22 if country == 55
68     replace countryid = 23 if country == 57
69     replace countryid = 24 if country == 59
70     replace countryid = 25 if country == 61
71     replace countryid = 26 if country == 63
72     replace countryid = 27 if country == 25
73
74     lab def countryid    1 "1. Austria"                2 "2. Germany"
                          3 "3. Sweden"                  ///
75                          4 "4. Spain"                  5 "5. Italy"
                          6 "6. France"                   ///
76                          7 "7. Denmark"                8 "8. Greece"
                          9 "9. Switzerland"              ///
77                          10 "10. Belgium"               11 "11.
Czechia"                12 "12. Poland"                   ///
78                          13 "13. Luxembourg"           14 "14.
Hungary"                15 "15. Portugal"                 ///
79                          16 "16. Slovenia"             17 "17.
Estonia"                18 "18. Croatia"                  ///
80                          19 "19. Lithuania"             20 "20.
Bulgaria"               21 "21. Cyprus"                   ///
81                          22 "22. Finland"               23 "23. Latvia"
                          24 "24. Malta"                   ///
82                          25 "25. Romania"               26 "26.
Slovakia"               27 "27. Israel"
83 drop country
84 drop if country == .
85 merge 1:1 countryid using "dta/cache/eurostatInc.dta"
86 drop if _merge != 3

```

```
1 import delimited "dta/in/Eurostat/ilc_di04_1_Data.csv", clear
2 save "dta/cache/eurostatInc.dta", replace
3 use "dta/cache/eurostatInc.dta", clear
4
5 // select measure = €
6 keep if unit == "Euro"
7
8 // gen country identifier
9 g country = geo
10 g countryid = .
11 replace countryid = 1 if country == "Österreich"
12 replace countryid = 2 if country == "Deutschland (bis 1990
früheres Gebiet der BRD)"
13 replace countryid = 3 if country == "Sweden"
14 replace countryid = 4 if country == "Spanien"
15 replace countryid = 5 if country == "Italien"
16 replace countryid = 6 if country == "Frankreich"
17 replace countryid = 7 if country == "Dänemark"
18 //replace countryid = 8 if country == "Greece"
19 replace countryid = 9 if country == "Schweiz"
20 replace countryid = 10 if country == "Belgien"
21 //replace countryid = 11 if country == "Czechia"
22 replace countryid = 13 if country == "Luxemburg"
23 replace countryid = 16 if country == "Slowenien"
24 replace countryid = 17 if country == "Estland"
25 drop if countryid == .
26
27 replace country = "Germany" if country == "Deutschland (bis 1990
früheres Gebiet der BRD)"
28 drop geo
29
30 // label measure
31 g measuer = .
32 replace measuer = 1 if indic_il == "Durchschnittliches
Äquivalenzgesamtnettoeinkommen"
33 replace measuer = 2 if indic_il == "Medianes
Äquivalenzgesamtnettoeinkommen"
34 drop if time != 2013
35
36 // destring value
37 destring value, gen(valES) ignore(", " ":")
38 drop value
39 g value = valES
40
41 // select hh type
42 keep if hhtyp == "Insgesamt"
43 keep country countryid measuer value
44 reshape wide value, i(countryid) j(measuer)
```

```
44 reshape wide value, i(countryid) j(measuer)
45 g meanV = value1
46 g medianV = value2
47 keep country countryid meanV medianV
48 save "dta/cache/eurostatInc.dta", replace
49
50
```

```
1 use "dta/cache/dieDaten.dta", clear
2 merge 1:1 mergeid using "dta/cache/dataset.dta"
3 save "dta/cache/dieDaten.dta", replace
4 keep mergeid _merge
5
```

```
1 // get PPPs
2 keep country pppc2003 pppc2004 pppc2005 pppc2006 pppc2007
  pppc2008 pppc2009 pppc2009 pppc2010 pppc2011 pppc2012 pppc2013
  pppc2014 pppc2015 pppc2016 pppc2017
3
```

```
1 // code missing values
2 mvdecode ep069d1, mv(-2 ,-1)/*reason stopt working health
   problems*/
3 //mvdecode ep671d12, mv(-2 ,-1) /*income source = public long
   term care*/
4 mvdecode ep089d5, mv(-2 ,-1) /*regular paments recived ltc
   insurance */
5 mvdecode ep005_, mv(-2 ,-1) /*current job situation*/
6
7
8 // job sit
9 gen jobSit = ep005_
10 la var jobSit "current job situation"
11 label define jobSit 1 "Retired" 2 "Employed or self-employed" 3
   "Unemployed" 4 "Permanently sick or disabled" 5 "Homemaker" 97
   "Other"
12 label value jobSit jobSit
13 // retierd due to health problems
14 gen stopWrkHlth = ep069d1
15 la var stopWrkHlth "dummyVar : reason stopt working health
   problems"
16 //gen incPubLTC = ep671d12
17 //la var incPubLTC "dummyVar : income source = public long term
   care"
18 gen incPrvLTC = ep089d5
19 la var incPrvLTC "dummyVar : regular paments recived ltc
   insurance"
20 keep mergeid exrate jobSit stopWrkHlth incPrvLTC //incPubLTC
21
```



```
1  save "dta/cache/dataset.dta", replace
2  use "dta/cache/mergeDoc.dta", clear
3  merge 1:1 mergeid using "dta/cache/dataset.dta"
4  drop _merge
5  save "dta/cache/mergeDoc.dta", replace
6  use "dta/cache/dieDaten.dta", clear
7  drop _merge
8  save "dta/cache/dieDaten.dta", replace
9
```

```
1 // code missing values
2 mvdecode dn014_, mv(-1,-2)
3 mvdecode dn010_, mv(-1,-2)
4 //replace dn041_ = -2 if dn041_>20
5 //mvdecode dn041_, mv(-1,-2,-3)
6 //gen yearsOfEdu = dn041_
7 // marriage status
8 g mStatus = dn014_
9 label define mStatus 1 "Married and living together with spouse"
10 2 "Registered partnership" 3 "Married, living separated from
11 spouse"/*
12 */ 4 "Never married" 5 "Divorced" 6 "Widowed"
13 label value mStatus mStatus
14 keep mergeid dn010_ dn014_ mStatus
```

```
1  if wave == 4 {
2  gen recivedCare = 0
3
4  forvalues i = 1/7 {
5  replace recivedCare = 1 if sp021d`i'sn == 1
6  }
7  forvalues i = 1/9 {
8  replace recivedCare = 1 if sp021d`i'sp == 1
9  }
10 forvalues i = 19/32 {
11 replace recivedCare = 1 if sp021d`i'sp == 1
12 }
13 forvalues i = 34/37 {
14 replace recivedCare = 1 if sp021d`i'sp == 1
15 }
16 la var recivedCare "recived personal care"
17 keep mergeid recivedCare
18 }
19 if wave == 5 {
20 gen recivedCare = 0
21
22 forvalues i = 1/33 {
23 replace recivedCare = 1 if sp021d`i' == 1
24 }
25
26
27 la var recivedCare "recived personal care"
28 keep mergeid recivedCare
29
30
31 }
32 else{
33 // code missing values
34 mvdecode sp004d1_1, mv(-2,-1)
35 mvdecode sp004d1_2, mv(-2,-1)
36 mvdecode sp004d1_3, mv(-2,-1)
37
38 gen recivedCare = 0
39 replace recivedCare = 1 if sp004d1_1 == 1 | sp004d1_2 == 1 |
   sp004d1_3 == 1
40 la var recivedCare "recived personal care"
41 keep mergeid recivedCare
42 }
43
```

```
1  if wave != 6 & wave != 7 {
2  //generiere variable adl = summe aller ADLs
3  gen adl =0
4  replace adl = adl+1 if(ph049d1==1)
5  replace adl = adl+1 if(ph049d2==1)
6  replace adl = adl+1 if(ph049d3==1)
7  replace adl = adl+1 if(ph049d4==1)
8  replace adl = adl+1 if(ph049d5==1)
9  replace adl = adl+1 if(ph049d6==1)
10
11 //generiere variable iadl = summe aller IADLs
12 gen iAdl =0
13 replace iAdl = iAdl+1 if(ph049d7==1)
14 replace iAdl = iAdl+1 if(ph049d8==1)
15 replace iAdl = iAdl+1 if(ph049d9==1)
16 replace iAdl = iAdl+1 if(ph049d10==1)
17 replace iAdl = iAdl+1 if(ph049d11==1)
18 replace iAdl = iAdl+1 if(ph049d12==1)
19 replace iAdl = iAdl+1 if(ph049d13==1)
20 /*
21 replace iAdl = iAdl+1 if(ph049d14==1)
22 replace iAdl = iAdl+1 if(ph049d15==1)
23 */
24 //var die Adl und iAdls beinhaltet
25 replace adl =3 if adl>=3
26 replace iAdl =3 if iAdl>=3
27 gen limitaion=adl*10 +iAdl
28
29 //generiere Index care dependency nach Laférre aus Adls & iAdls
30 gen careLev =0
31 la var careLev "Level of need for LTC"
32 replace careLev = 1 if limitaion==1
33 replace careLev = 2 if limitaion==10|limitaion==2|limitaion==3
34 replace careLev = 3 if limitaion==20|limitaion==11
35 replace careLev = 4 if limitaion==12|limitaion==13|limitaion>=21
36
37 gen careLevNtZero =0
38 replace careLevNtZero = 1 if careLev >0
39 la var careLevNtZero "dummy : true = any need for LTC"
40 //build index für ph
41
42 // code missing values
43 mvdecode ph003_, mv(-1 -2)
44 mvdecode ph004_, mv(-1 -2)
45 mvdecode ph005_, mv(-1 -2)
46
```

```

46
47 //
48 gen selfRatedHealth = 0
49 replace selfRatedHealth =1 if ph003_ == 5
50 replace selfRatedHealth =2 if ph003_ == 4
51 replace selfRatedHealth =3 if ph003_ == 3
52 replace selfRatedHealth =4 if ph003_ == 2
53 replace selfRatedHealth =5 if ph003_ == 1
54 la var selfRatedHealth "self rated health - 5 = very good ... 1
= bad"
55 gen selfRatedHealthDum = 0
56 replace selfRatedHealthDum = 1 if ph003_ == 1 | ph003_ == 2 /* !
check wether convention 1 = excellent || 1 = excellent & very
good*/
57 //la var selfRatedHealth
58 gen chronDeseas = ph004_
59
60 gen limInActv = ph005_
61
62 gen sumDisease = 0
63
64 g cancer = 0
65 forvalues i = 1/22 {
66 replace cancer = 1 if ph008d`i' == 1
67 }
68 replace cancer = 1 if ph008dot == 1
69
70 g weightLoss = 0
71 replace weightLoss = 1 if ph065_ == 1 & ph066_ == 1
72 replace weightLoss = 1 if ph065_ == 1 & ph066_ == 4
73 la var weightLoss "dummyVar : unitentional weight loss"
74
75 g fall = 0
76 replace fall = 1 if ph089d1 == 1
77 g fearFall = 0
78 replace fearFall = 1 if ph089d2 == 1
79 g FHR = .
80 la var FHR "Fhr = ((1+BRij) * (1+A0HSij))/GS" // atella
[1323-1325] (2012)
81 g A0HS = 0
82 replace A0HS = A0HS + 1 if ph006d2 == 1 //high blood preassure
83 replace A0HS = A0HS + 1 if ph006d3 == 1 //high cholesterol
84 replace A0HS = A0HS + 1 if ph006d20 == 1 //osteoporsis
85
86 g pf = 0
87 replace pf = pf + 1 * (62.4)/100 if ph006d2 == 1 //Hypertension
88 replace pf = pf + 1 * (56.1)/100 if ph006d1 == 1 //heart Attack

```

```

88  replace pf = pf + 1 * (56.1)/100 if ph006d1 == 1 //heart Attack
89  replace pf = pf + 1 * (48.2)/100 if ph006d4 == 1 //stroke
90  replace pf = pf + 1 * (49.2)/100 if ph006d12 == 1 //Parkinson
91  replace pf = pf + 1 * (58.0)/100 if ph006d5 == 1 //Diabetis
92  replace pf = pf + 1 * (57.1)/100 if ph006d11 == 1 //Ulcer in
    stomach or duodenum 50.2
93  replace pf = pf + 1 * (50.2)/100 if ph006d19 == 1 //Rheumatoid
    arthritis
94  replace pf = pf + 1 * (49.4)/100 if ph087d1 == 1 //Back
    impairments
95  replace pf = pf + 1 * (49.3)/100 if ph006d20 == 1 //osteoporosis
96  replace pf = pf + 1 * (67.4)/100 if cancer == 1 //cancer
97  replace pf = pf + 1 * (65.4)/100 if ph006d6 == 1 //chronic lung
    disease
98  // desises degree of sevrerity smith 2000 in brackets
99
100 g mh = 0
101 replace mh = mh + 1 * (73.6)/100 if ph006d2 == 1 //Hypertension
102 replace mh = mh + 1 * (73.3)/100 if ph006d1 == 1 //
103 replace mh = mh + 1 * (71.2)/100 if ph006d4 == 1 //
104 replace mh = mh + 1 * (67.7)/100 if ph006d12 == 1 //
105 replace mh = mh + 1 * (73.2)/100 if ph006d5 == 1 //
106 replace mh = mh + 1 * (70.3)/100 if ph006d11 == 1 //
107 replace mh = mh + 1 * (72.8)/100 if ph006d19 == 1 //
108 replace mh = mh + 1 * (70.8)/100 if ph087d1 == 1 //
109 replace mh = mh + 1 * (69.9)/100 if ph006d20 == 1 //
110 replace mh = mh + 1 * (72.2)/100 if cancer == 1 //
111 replace mh = mh + 1 * (70.8)/100 if ph006d6 == 1 //
112 // desises degree of sevrerity smith 2000 in brackets
113
114 g cF = 0
115 replace cF = cF +1 if ph006d16 == 1 //ALzheimer
116
117
118 keep mergeid careLev selfRatedHealth selfRatedHealthDum limInActv
    AOHS FHR pf mh cF ph003_ adl iAdl weightLoss fall fearFall
    //sumDisease sumDrugForSth
119 }
120 else{
121 //generiere variable adl = summe aller ADLs
122 gen adl =0
123 replace adl = adl+1 if(ph049d1==1)
124 replace adl = adl+1 if(ph049d2==1)
125 replace adl = adl+1 if(ph049d3==1)
126 replace adl = adl+1 if(ph049d4==1)
127 replace adl = adl+1 if(ph049d5==1)

```

```

127  replace adl = adl+1 if(ph049d5==1)
128  replace adl = adl+1 if(ph049d6==1)
129
130  //generiere variable iadl = summe aller IADLs
131  gen iAdl =0
132  replace iAdl = iAdl+1 if(ph049d7==1)
133  replace iAdl = iAdl+1 if(ph049d8==1)
134  replace iAdl = iAdl+1 if(ph049d9==1)
135  replace iAdl = iAdl+1 if(ph049d10==1)
136  replace iAdl = iAdl+1 if(ph049d11==1)
137  replace iAdl = iAdl+1 if(ph049d12==1)
138  replace iAdl = iAdl+1 if(ph049d13==1)
139  replace iAdl = iAdl+1 if(ph049d14==1)
140  replace iAdl = iAdl+1 if(ph049d15==1)
141
142  //var die Adl und iAdls beinhaltet
143  replace adl =3 if adl>=3
144  replace iAdl =3 if iAdl>=3
145  gen limitaion=adl*10 +iAdl
146
147  //generiere Index care dependency nach Laférre aus Adls & iAdls
148  gen careLev =0
149  la var careLev "Level of need for LTC"
150  replace careLev = 1 if limitaion==1
151  replace careLev = 2 if limitaion==10|limitaion==2|limitaion==3
152  replace careLev = 3 if limitaion==20|limitaion==11
153  replace careLev = 4 if limitaion==12|limitaion==13|limitaion>=21
154
155  gen careLevNtZero =0
156  replace careLevNtZero = 1 if careLev >0
157  la var careLevNtZero "dummy : true = any need for LTC"
158  //build index für ph
159
160  mvdecode ph003_, mv(-1 -2)
161  mvdecode ph004_, mv(-1 -2)
162  mvdecode ph005_, mv(-1 -2)
163
164  gen selfRatedHealth = 0
165  replace selfRatedHealth =1 if ph003_ == 5
166  replace selfRatedHealth =2 if ph003_ == 4
167  replace selfRatedHealth =3 if ph003_ == 3
168  replace selfRatedHealth =4 if ph003_ == 2
169  replace selfRatedHealth =5 if ph003_ == 1
170  la var selfRatedHealth "self rated health - 5 = very good ... 1
    = bad"
171  gen selfRatedHealthDum = 0

```

```

171 gen selfRatedHealthDum = 0
172 replace selfRatedHealthDum = 1 if ph003_ == 1 | ph003_ == 2 /* !
check wether convention 1 = excellent || 1 = excellent & very
good*/
173 //la var selfRatedHealth
174 gen chronDeseas = ph004_
175
176 gen limInActv = ph005_
177 gen sumDisease = 0
178 forvalues i = 1/6 {
179 replace sumDisease = sumDisease+ph006d`i' if ph006d`i' == 1
180 }
181 forvalues i = 10/16 {
182 replace sumDisease = sumDisease+ph006d`i' if ph006d`i' == 1
183 }
184 forvalues i = 18/21 {
185 replace sumDisease = sumDisease+ph006d`i' if ph006d`i' == 1
186 }
187
188 gen sumDrugForSth = 0
189 forvalues i = 1/4 {
190 replace sumDrugForSth = ph011d`i' if ph011d`i' == 1
191 }
192
193 forvalues i = 6/11 {
194 replace sumDrugForSth = ph011d`i' if ph011d`i' == 1
195 }
196 forvalues i = 13/15 {
197 replace sumDrugForSth = ph011d`i' if ph011d`i' == 1
198 }
199 g cancer = 0
200 forvalues i = 1/22 {
201 replace cancer = 1 if ph008d`i' == 1
202 }
203 replace cancer = 1 if ph008dot == 1
204
205
206 g weightLoss = 0
207 replace weightLoss = 1 if ph065_ == 1 & ph066_ == 1
208 replace weightLoss = 1 if ph065_ == 1 & ph066_ == 4
209 la var weightLoss "dummyVar : unitentional weight loss"
210
211 g FHR = .
212 la var FHR "Fhr = ((1+BRij) * (1+A0HSij))/GS" // atella
[1323-1325] (2012)
213 g A0HS = 0
214 replace A0HS = A0HS + 1 if ph006d2 == 1 //high blood preassure
215 replace A0HS = A0HS + 1 if ph006d3 == 1 //high cholesterol

```



```

215 replace A0HS = A0HS + 1 if ph006d3 == 1 //high cholesterol
216 replace A0HS = A0HS + 1 if ph006d20 == 1 //osteoporsis
217 g fall = 0
218 replace fall = 1 if ph089d1 == 1
219 g fearFall = 0
220 replace fearFall = 1 if ph089d2 == 1
221
222 g pf = 0
223 replace pf = pf + 1 * (62.4)/100 if ph006d2 == 1 //Hypertension
224 replace pf = pf + 1 * (56.1)/100 if ph006d1 == 1 //heart Attack
225 replace pf = pf + 1 * (48.2)/100 if ph006d4 == 1 //stroke
226 replace pf = pf + 1 * (49.2)/100 if ph006d12 == 1 //Parkinson
227 replace pf = pf + 1 * (58.0)/100 if ph006d5 == 1 //Diabetis
228 replace pf = pf + 1 * (57.1)/100 if ph006d11 == 1 //Ulcer in
    stomach or duodenum 50.2
229 replace pf = pf + 1 * (50.2)/100 if ph006d19 == 1 //Rheumatoid
    arthritis
230 replace pf = pf + 1 * (49.4)/100 if ph087d1 == 1 //Back
    impairments
231 replace pf = pf + 1 * (49.3)/100 if ph006d20 == 1 //osteoporosis
232 replace pf = pf + 1 * (67.4)/100 if cancer == 1 //cancer
233 replace pf = pf + 1 * (65.4)/100 if ph006d6 == 1 //chronic lung
    disease
234 // desises degree of sevrerity smith 2000 in brackets
235
236 g mh = 0
237 replace mh = mh + 1 * (73.6)/100 if ph006d2 == 1 //Hypertension
238 replace mh = mh + 1 * (73.3)/100 if ph006d1 == 1 //
239 replace mh = mh + 1 * (71.2)/100 if ph006d4 == 1 //
240 replace mh = mh + 1 * (67.7)/100 if ph006d12 == 1 //
241 replace mh = mh + 1 * (73.2)/100 if ph006d5 == 1 //
242 replace mh = mh + 1 * (70.3)/100 if ph006d11 == 1 //
243 replace mh = mh + 1 * (72.8)/100 if ph006d19 == 1 //
244 replace mh = mh + 1 * (70.8)/100 if ph087d1 == 1 //
245 replace mh = mh + 1 * (69.9)/100 if ph006d20 == 1 //
246 replace mh = mh + 1 * (72.2)/100 if cancer == 1 //
247 replace mh = mh + 1 * (70.8)/100 if ph006d6 == 1 //
248 // desises degree of sevrerity smith 2000 in brackets
249
250 g cF = 0
251 replace cF = cF +1 if ph006d16 == 1 //ALzheimer
252
253 keep mergeid careLev selfRatedHealth selfRatedHealthDum limInActv
    sumDisease sumDrugForSth pf mh cF FHR ph003_ A0HS weightLoss
    fall fearFall adl iAdl

```

```
1 //mental health
2 gen sumMhLim = 0
3
4 gen d2 = mh002_
5 gen d3 = mh003_
6 gen d4 = mh004_
7 gen d5 = mh005_
8 gen d6 = mh006_
9 gen d7 = mh007_
10 gen d8 = mh008_
11 gen d9 = mh009_
12 gen d10 = mh010_
13 gen d11 = mh011_
14 gen d12 = mh012_
15 gen d13 = mh013_
16 gen d14 = mh014_
17 gen d15 = mh015_
18 gen d16 = mh016_
19 gen d17 = mh017_
20
21 if wave == 5 | wave == 7{
22 gen d18 = mh032_
23 gen d19 = mh034_
24 gen d20 = mh035_
25 gen d21 = mh036_
26 gen d22 = mh037_
27
28 forvalues i= 2/22 {
29 replace sumMhLim = sumMhLim + d`i' if d`i' == 1
30 }
31 }
32 else{
33
34 forvalues i= 2/17 {
35 replace sumMhLim = sumMhLim + d`i' if d`i' == 1
36 }
37 }
38
39
40 sort country
41 by country : egen zMntlHlth = sd(sumMhLim)
42 la var sumMhLim "total sum of menthal health limitation"
43 la var zMntlHlth "standartiset index for mental health"
44
45 //mvdecode , mv()
46
47 //gen
48 //la var
49 keep mergeid sumMhLim zMntlHlth
```

```

1 //cog function
2 //mvdecode , mv()
3 mvdecode cf001_, mv(-1 -2)
4 mvdecode cf002_, mv(-1 -2)
5 mvdecode cf012_, mv(-1 -2)
6 mvdecode cf013_, mv(-1 -2)
7 mvdecode cf014_, mv(-1 -2)
8 mvdecode cf015_, mv(-1 -2)
9 if wave == 4 | wave == 5 | wave == 6 | wave == 7{
10 mvdecode cf108_, mv(-1 -2)
11 mvdecode cf109_, mv(-1 -2)
12 mvdecode cf110_, mv(-1 -2)
13 mvdecode cf111_, mv(-1 -2)
14 mvdecode cf112_, mv(-1 -2)
15 }
16 gen date = 0
17 replace date = date + 1 if cf003_ == 2
18 replace date = date + 1 if cf004_ == 2
19 replace date = date + 1 if cf005_ == 2
20 replace date = date + 1 if cf006_ == 2
21 sort country
22 by country : egen zDate = sd(date)
23
24 gen numeracy = 0
25 replace numeracy = numeracy + 1 if cf012_ != 1 & cf012_ != .
26 replace numeracy = numeracy + 1 if cf013_ != 1 & cf013_ != .
27 replace numeracy = numeracy + 1 if cf014_ != 1 & cf014_ != .
28 replace numeracy = numeracy + 1 if cf015_ != 1 & cf015_ != .
29 if wave == 4 | wave == 5 | wave == 6 | wave == 7{
30 replace numeracy = numeracy + 1 if cf108_ != 1 & cf108_ != .
31 replace numeracy = numeracy + 1 if cf109_ != 1 & cf109_ != .
32 replace numeracy = numeracy + 1 if cf110_ != 1 & cf110_ != .
33 replace numeracy = numeracy + 1 if cf111_ != 1 & cf111_ != .
34 replace numeracy = numeracy + 1 if cf112_ != 1 & cf112_ != .
35 }
36 sort country
37 by country : egen zNumeracy = sd(numeracy)
38 if wave == 4 | wave == 5 | wave == 6 | wave == 7{
39 gen tenWrds = cf104tot + cf105tot + cf106tot + cf107tot + cf113tot
    + cf114tot + cf115tot + cf116tot

```

```
39 gen tenWrd = cf104tot + cf105tot + cf106tot + cf107tot + cf113tot
   + cf114tot + cf115tot + cf116tot
40 gen tenWrdLim = tenWrd*-1
41 sort country
42 by country : egen zTenWrdLim = sd(tenWrdLim)
43
44 gen zCogFct = (zTenWrdLim + zNummeracy + zDate)/3
45 }
46 else{
47 gen zCogFct = ( zNummeracy + zDate)/2
48 }
49 la var zCogFct "z-standartised index for cognitive function"
50 //gen
51 //la var
52
53
54 /*
55 forvalues i = 1/6 {
56 `i'
57 }
58 */
59
60 keep mergeid zCogFct
61
```

```
1  if wave == 1 | wave == 2 | wave == 4{
2  if wave == 1 | wave == 2 {
3
4  // decode missing values
5  mvdecode hc032d1, mv(-2,-1)
6
7  // recived care
8  gen recPrfCare = hc032d1
9  la var recPrfCare "dummyVar : recived personal Care from
   proffesional provider"
10 gen outOfPocketPay = hc051e
11 la var outOfPocketPay "dummyVar : Payed anything for homecare
   for homecare in the last 12 month"
12
13 }
14 else{
15 gen recPrfCare = .
16 la var recPrfCare "dummyVar : recived personal Care from
   proffesional provider"
17 gen outOfPocketPay = .
18 }
19 // decode missing values
20 mvdecode hc029_, mv(-2,-1)
21 mvdecode hc029_, mv(-2,-1)
22
23
24 gen inLtcFacility = hc029_
25 la var inLtcFacility "dummyVar : stayed in a nursing home during
   last 12 month"
26
27
28 gen lTCInsurancePrvMdt = .
29 gen lTCInsurancePub = .
30 gen lTCInsurancePrvVlt = .
31 if wave == 1 {
32 replace lTCInsurancePrvVlt =1 if hc059d10 == 1
33 }
34 }
35 if wave == 5{
36 // decode missing values
37 mvdecode hc116d1, mv(-2,-1)
38 mvdecode hc116d2, mv(-2,-1)
39 mvdecode hc116d3, mv(-2,-1)
40 mvdecode hc127d1, mv(-2,-1)
41 mvdecode hc128_, mv(-2,-1)
42 mvdecode hc029_, mv(-2,-1)
43
44 // used finanicing
45 gen lTCInsurancePub = hc116d1
```

```
45 gen LTCInsurancePub = hc116d1
46 la var LTCInsurancePub "dummyVar : Long term care insurances -
public(country deviations)"
47 gen LTCInsurancePrvMdt = hc116d2
48 la var LTCInsurancePrvMdt "dummyVar : Long term care insurances
- privat mandatory(country deviations)"
49 gen LTCInsurancePrvVlt = hc116d3
50 la var LTCInsurancePrvVlt "dummyVar : Long term care insurances
-privat voluntary/supplementary"
51
52 // recived care
53 gen recPrfCare = hc127d1
54 la var recPrfCare "dummyVar : recived personal Care from
proffesional provider"
55 gen outOfPocketPay = hc128_
56 replace outOfPocketPay = 0 if hc128_ == 5
57 la var outOfPocketPay "dummyVar : Payed anything for homecare
for homecare in the last 12 month"
58 gen inLtcFacility = hc029_
59 la var inLtcFacility "dummyVar : stayed in a nursing home during
last 12 month"
60
61
62 }
63 else{
64 // decode missing values
65 mvdecode hc116d1, mv(-2,-1)
66 mvdecode hc116d2, mv(-2,-1)
67 mvdecode hc116d3, mv(-2,-1)
68 mvdecode hc127d1, mv(-2,-1)
69 mvdecode hc628_, mv(-2,-1)
70 mvdecode hc029_, mv(-2,-1)
71
72 // used financing
73 gen LTCInsurancePub = hc116d1
74 la var LTCInsurancePub "dummyVar : Long term care insurances -
public(country deviations)"
75 gen LTCInsurancePrvMdt = hc116d2
76 la var LTCInsurancePrvMdt "dummyVar : Long term care insurances
- privat mandatory(country deviations)"
77 gen LTCInsurancePrvVlt = hc116d3
78 la var LTCInsurancePrvVlt "dummyVar : Long term care insurances
-privat voluntary/supplementary"
79
80 // recived care
81 gen recPrfCare = hc127d1
82 la var recPrfCare "dummyVar : recived personal Care from
proffesional provider"
83 gen outOfPocketPay = hc628_
```

```
83 gen outOfPocketPay = hc628_  
84 replace outOfPocketPay = 0 if hc628_ == 5  
85 la var outOfPocketPay "dummyVar : Payed anything for homecare  
   for homecare in the last 12 month"  
86 gen inLtcFacility = hc029_  
87 la var inLtcFacility "dummyVar : stayed in a nursing home during  
   last 12 month"  
88 }  
89 keep mergeid lTCInsurancePub lTCInsurancePrvMdt  
   lTCInsurancePrvVlt recPrfCare outOfPocketPay inLtcFacility  
90
```

```
1 // decode missing values
2 mvdecode phactiv, mv(-1,-2)
3 mvdecode sphus, mv(-1,-2)
4 mvdecode chronic2, mv(-1,-2)
5 mvdecode maxgrip, mv(-1,-2)
6
7 keep mergeid casp phactiv sphus chronic2
8
```



```
1  g rb = 0
2  replace rb = rb + 1 if br002_ == 1 //currently smoking
3  if wave == 5{
4  replace rb = rb + 1 if br024_ == 1 //drinking problem
5  }
6  if wave == 6 | wave == 7{
7  replace rb = rb + 1 if br039_ == 1
8  }
9  keep mergeid rb
10
```

```
1 g lifeExpectancy = .
2 replace lifeExpectancy = ex009_ if ex009_ >= 0
3 g lifeExpectancy2 = .
4 replace lifeExpectancy2 = ex009age if ex009age >= 0
5
6 keep mergeid lifeExpectancy lifeExpectancy2
7
```

```
1 //sum merge*hh merge*as merge*ep merge*dn merge*sp merge*ph
  merge*mh merge*cf merge*hc
2
3 if wave == 1{
4   gen iteamMissing = ""
5   replace iteamMissing = "HH nicht master" if merge1hh == 1
6   replace iteamMissing = iteamMissing + " AS nicht master" if
  merge1as == 1
7   replace iteamMissing = iteamMissing + " EP nicht master" if
  merge1ep == 1
8   replace iteamMissing = iteamMissing + " DN nicht master" if
  merge1dn == 1
9   replace iteamMissing = iteamMissing + " SP nicht master" if
  merge1sp == 1
10  replace iteamMissing = iteamMissing + " PH nicht master" if
  merge1ph == 1
11  replace iteamMissing = iteamMissing + " MH nicht master" if
  merge1mh == 1
12  replace iteamMissing = iteamMissing + " CF nicht master" if
  merge1cf == 1
13  replace iteamMissing = iteamMissing + " HC nicht master" if
  merge1hc == 1
14  //
15  replace iteamMissing = iteamMissing + " HH nicht using" if
  merge1hh == 2
16  replace iteamMissing = iteamMissing + " AS nicht using" if
  merge1as == 2
17  replace iteamMissing = iteamMissing + " EP nicht using" if
  merge1ep == 2
18  replace iteamMissing = iteamMissing + " DN nicht using" if
  merge1dn == 2
19  replace iteamMissing = iteamMissing + " SP nicht using" if
  merge1sp == 2
20  replace iteamMissing = iteamMissing + " PH nicht using" if
  merge1ph == 2
21  replace iteamMissing = iteamMissing + " MH nicht using" if
  merge1mh == 2
22  replace iteamMissing = iteamMissing + " CF nicht using" if
  merge1cf == 2
23  replace iteamMissing = iteamMissing + " HC nicht using" if
  merge1hc == 2
24  la var iteamMissing "String : describing which questionnaire
  moduls counldn't be matched to person"
25  gen fehlStdN = 0
26  replace fehlStdN = fehlStdN + 1 if merge1as == 1
27  replace fehlStdN = fehlStdN + 1 if merge1ep == 1
28  replace fehlStdN = fehlStdN + 1 if merge1dn == 1
29  replace fehlStdN = fehlStdN + 1 if merge1sp == 1
30  replace fehlStdN = fehlStdN + 1 if merge1ph == 1
```

```
30  replace fehlStdN = fehlStdN + 1 if merge1ph == 1
31  replace fehlStdN = fehlStdN + 1 if merge1mh == 1
32  replace fehlStdN = fehlStdN + 1 if merge1cf == 1
33  replace fehlStdN = fehlStdN + 1 if merge1hc == 1
34  }
35  if wave == 2{
36  gen iteamMissing = ""
37  replace iteamMissing = "HH nicht master" if merge2hh == 1
38  replace iteamMissing = iteamMissing + " AS nicht master" if
merge2as == 1
39  replace iteamMissing = iteamMissing + " EP nicht master" if
merge2ep == 1
40  replace iteamMissing = iteamMissing + " DN nicht master" if
merge2dn == 1
41  replace iteamMissing = iteamMissing + " SP nicht master" if
merge2sp == 1
42  replace iteamMissing = iteamMissing + " PH nicht master" if
merge2ph == 1
43  replace iteamMissing = iteamMissing + " MH nicht master" if
merge2mh == 1
44  replace iteamMissing = iteamMissing + " CF nicht master" if
merge2cf == 1
45  replace iteamMissing = iteamMissing + " HC nicht master" if
merge2hc == 1
46  //
47  replace iteamMissing = iteamMissing + " HH nicht using" if
merge2hh == 2
48  replace iteamMissing = iteamMissing + " AS nicht using" if
merge2as == 2
49  replace iteamMissing = iteamMissing + " EP nicht using" if
merge2ep == 2
50  replace iteamMissing = iteamMissing + " DN nicht using" if
merge2dn == 2
51  replace iteamMissing = iteamMissing + " SP nicht using" if
merge2sp == 2
52  replace iteamMissing = iteamMissing + " PH nicht using" if
merge2ph == 2
53  replace iteamMissing = iteamMissing + " MH nicht using" if
merge2mh == 2
54  replace iteamMissing = iteamMissing + " CF nicht using" if
merge2cf == 2
55  replace iteamMissing = iteamMissing + " HC nicht using" if
merge2hc == 2
56  la var iteamMissing "String : describing which questionnaire
moduls counldn't be matched to person"
57  gen fehlStdN = 0
58  replace fehlStdN = fehlStdN + 1 if merge2as == 1
59  replace fehlStdN = fehlStdN + 1 if merge2ep == 1
60  replace fehlStdN = fehlStdN + 1 if merge2dn == 1
```

```
60  replace fehlStdN = fehlStdN + 1 if merge2dn == 1
61  replace fehlStdN = fehlStdN + 1 if merge2sp == 1
62  replace fehlStdN = fehlStdN + 1 if merge2ph == 1
63  replace fehlStdN = fehlStdN + 1 if merge2mh == 1
64  replace fehlStdN = fehlStdN + 1 if merge2cf == 1
65  replace fehlStdN = fehlStdN + 1 if merge2hc == 1
66  }
67  if wave == 3{
68  gen iteamMissing = ""
69  replace iteamMissing = "HH nicht master" if merge3hh == 1
70  replace iteamMissing = iteamMissing + " AS nicht master" if
merge3as == 1
71  replace iteamMissing = iteamMissing + " EP nicht master" if
merge3ep == 1
72  replace iteamMissing = iteamMissing + " DN nicht master" if
merge3dn == 1
73  replace iteamMissing = iteamMissing + " SP nicht master" if
merge3sp == 1
74  replace iteamMissing = iteamMissing + " PH nicht master" if
merge3ph == 1
75  replace iteamMissing = iteamMissing + " MH nicht master" if
merge3mh == 1
76  replace iteamMissing = iteamMissing + " CF nicht master" if
merge3cf == 1
77  replace iteamMissing = iteamMissing + " HC nicht master" if
merge3hc == 1
78  //
79  replace iteamMissing = iteamMissing + " HH nicht using" if
merge3hh == 2
80  replace iteamMissing = iteamMissing + " AS nicht using" if
merge3as == 2
81  replace iteamMissing = iteamMissing + " EP nicht using" if
merge3ep == 2
82  replace iteamMissing = iteamMissing + " DN nicht using" if
merge3dn == 2
83  replace iteamMissing = iteamMissing + " SP nicht using" if
merge3sp == 2
84  replace iteamMissing = iteamMissing + " PH nicht using" if
merge3ph == 2
85  replace iteamMissing = iteamMissing + " MH nicht using" if
merge3mh == 2
86  replace iteamMissing = iteamMissing + " CF nicht using" if
merge3cf == 2
87  replace iteamMissing = iteamMissing + " HC nicht using" if
merge3hc == 2
88  la var iteamMissing "String : describing which questionnaire
moduls couldn't be matched to person"
89  gen fehlStdN = 0
90  replace fehlStdN = fehlStdN + 1 if merge3as == 1
```

```
90  replace fehlStdN = fehlStdN + 1 if merge3as == 1
91  replace fehlStdN = fehlStdN + 1 if merge3ep == 1
92  replace fehlStdN = fehlStdN + 1 if merge3dn == 1
93  replace fehlStdN = fehlStdN + 1 if merge3sp == 1
94  replace fehlStdN = fehlStdN + 1 if merge3ph == 1
95  replace fehlStdN = fehlStdN + 1 if merge3mh == 1
96  replace fehlStdN = fehlStdN + 1 if merge3cf == 1
97  replace fehlStdN = fehlStdN + 1 if merge3hc == 1
98  }
99  if wave == 4{
100  gen iteamMissing = ""
101  replace iteamMissing = "HH nicht master" if merge4hh == 1
102  replace iteamMissing = iteamMissing + " AS nicht master" if
merge4as == 1
103  replace iteamMissing = iteamMissing + " EP nicht master" if
merge4ep == 1
104  replace iteamMissing = iteamMissing + " DN nicht master" if
merge4dn == 1
105  replace iteamMissing = iteamMissing + " SP nicht master" if
merge4sp == 1
106  replace iteamMissing = iteamMissing + " PH nicht master" if
merge4ph == 1
107  replace iteamMissing = iteamMissing + " MH nicht master" if
merge4mh == 1
108  replace iteamMissing = iteamMissing + " CF nicht master" if
merge4cf == 1
109  replace iteamMissing = iteamMissing + " HC nicht master" if
merge4hc == 1
110  //
111  replace iteamMissing = iteamMissing + " HH nicht using" if
merge4hh == 2
112  replace iteamMissing = iteamMissing + " AS nicht using" if
merge4as == 2
113  replace iteamMissing = iteamMissing + " EP nicht using" if
merge4ep == 2
114  replace iteamMissing = iteamMissing + " DN nicht using" if
merge4dn == 2
115  replace iteamMissing = iteamMissing + " SP nicht using" if
merge4sp == 2
116  replace iteamMissing = iteamMissing + " PH nicht using" if
merge4ph == 2
117  replace iteamMissing = iteamMissing + " MH nicht using" if
merge4mh == 2
118  replace iteamMissing = iteamMissing + " CF nicht using" if
merge4cf == 2
119  replace iteamMissing = iteamMissing + " HC nicht using" if
merge4hc == 2
120  la var iteamMissing "String : describing which questionnaire
moduls couldn't be matched to person"
```

```
moduls couldn't be matched to person"
121 gen fehlStdN = 0
122 replace fehlStdN = fehlStdN + 1 if merge4as == 1
123 replace fehlStdN = fehlStdN + 1 if merge4ep == 1
124 replace fehlStdN = fehlStdN + 1 if merge4dn == 1
125 replace fehlStdN = fehlStdN + 1 if merge4sp == 1
126 replace fehlStdN = fehlStdN + 1 if merge4ph == 1
127 replace fehlStdN = fehlStdN + 1 if merge4mh == 1
128 replace fehlStdN = fehlStdN + 1 if merge4cf == 1
129 replace fehlStdN = fehlStdN + 1 if merge4hc == 1
130 }
131
132 if wave == 5{
133 // string list of items missing per mergeid
134 gen iteamMissing = ""
135 replace iteamMissing = iteamMissing + " EP nicht master" if
merge5ep == 1
136 replace iteamMissing = iteamMissing + " DN nicht master" if
merge5dn == 1
137 replace iteamMissing = iteamMissing + " SP nicht master" if
merge5sp == 1
138 replace iteamMissing = iteamMissing + " PH nicht master" if
merge5ph == 1
139 replace iteamMissing = iteamMissing + " MH nicht master" if
merge5mh == 1
140 replace iteamMissing = iteamMissing + " CF nicht master" if
merge5cf == 1
141 replace iteamMissing = iteamMissing + " HC nicht master" if
merge5hc == 1
142 //
143 replace iteamMissing = iteamMissing + " EP nicht using" if
merge5ep == 2
144 replace iteamMissing = iteamMissing + " DN nicht using" if
merge5dn == 2
145 replace iteamMissing = iteamMissing + " SP nicht using" if
merge5sp == 2
146 replace iteamMissing = iteamMissing + " PH nicht using" if
merge5ph == 2
147 replace iteamMissing = iteamMissing + " MH nicht using" if
merge5mh == 2
148 replace iteamMissing = iteamMissing + " CF nicht using" if
merge5cf == 2
149 replace iteamMissing = iteamMissing + " HC nicht using" if
merge5hc == 2
150 la var iteamMissing "String : describing which questionnaire
moduls couldn't be matched to person"
151 // number of items missing per merge id
152 gen fehlStdN = 0
153 replace fehlStdN = fehlStdN + 1 if merge5ep == 1
```

```
153 replace fehlStdN = fehlStdN + 1 if merge5ep == 1
154 replace fehlStdN = fehlStdN + 1 if merge5dn == 1
155 replace fehlStdN = fehlStdN + 1 if merge5sp == 1
156 replace fehlStdN = fehlStdN + 1 if merge5ph == 1
157 replace fehlStdN = fehlStdN + 1 if merge5mh == 1
158 replace fehlStdN = fehlStdN + 1 if merge5cf == 1
159 replace fehlStdN = fehlStdN + 1 if merge5hc == 1
160 }
161 if wave == 6{
162 // string list of items missing per mergeid
163 gen iteamMissing = ""
164 replace iteamMissing = iteamMissing + " EP nicht master" if
merge6ep == 1
165 replace iteamMissing = iteamMissing + " DN nicht master" if
merge6dn == 1
166 replace iteamMissing = iteamMissing + " SP nicht master" if
merge6sp == 1
167 replace iteamMissing = iteamMissing + " PH nicht master" if
merge6ph == 1
168 replace iteamMissing = iteamMissing + " MH nicht master" if
merge6mh == 1
169 replace iteamMissing = iteamMissing + " CF nicht master" if
merge6cf == 1
170 replace iteamMissing = iteamMissing + " HC nicht master" if
merge6hc == 1
171 //
172 replace iteamMissing = iteamMissing + " EP nicht using" if
merge6ep == 2
173 replace iteamMissing = iteamMissing + " DN nicht using" if
merge6dn == 2
174 replace iteamMissing = iteamMissing + " SP nicht using" if
merge6sp == 2
175 replace iteamMissing = iteamMissing + " PH nicht using" if
merge6ph == 2
176 replace iteamMissing = iteamMissing + " MH nicht using" if
merge6mh == 2
177 replace iteamMissing = iteamMissing + " CF nicht using" if
merge6cf == 2
178 replace iteamMissing = iteamMissing + " HC nicht using" if
merge6hc == 2
179 la var iteamMissing "String : describing which questionnaire
moduls couldn't be matched to person"
180 // number of items missing per merge id
181 gen fehlStdN = 0
182 replace fehlStdN = fehlStdN + 1 if merge6dn == 1
183 replace fehlStdN = fehlStdN + 1 if merge6sp == 1
184 replace fehlStdN = fehlStdN + 1 if merge6ph == 1
185 replace fehlStdN = fehlStdN + 1 if merge6mh == 1
186 replace fehlStdN = fehlStdN + 1 if merge6cf == 1
```



```
186  replace fehlStdN = fehlStdN + 1 if merge6cf == 1
187  replace fehlStdN = fehlStdN + 1 if merge6hc == 1
188  }
189
190  if wave == 7{
191  // string list of items missing per mergeid
192  gen iteamMissing = ""
193  replace iteamMissing = iteamMissing + " EP nicht master" if
merge7ep == 1
194  replace iteamMissing = iteamMissing + " DN nicht master" if
merge7dn == 1
195  replace iteamMissing = iteamMissing + " SP nicht master" if
merge7sp == 1
196  replace iteamMissing = iteamMissing + " PH nicht master" if
merge7ph == 1
197  replace iteamMissing = iteamMissing + " MH nicht master" if
merge7mh == 1
198  replace iteamMissing = iteamMissing + " CF nicht master" if
merge7cf == 1
199  replace iteamMissing = iteamMissing + " HC nicht master" if
merge7hc == 1
200  //
201  replace iteamMissing = iteamMissing + " EP nicht using" if
merge7ep == 2
202  replace iteamMissing = iteamMissing + " DN nicht using" if
merge7dn == 2
203  replace iteamMissing = iteamMissing + " SP nicht using" if
merge7sp == 2
204  replace iteamMissing = iteamMissing + " PH nicht using" if
merge7ph == 2
205  replace iteamMissing = iteamMissing + " MH nicht using" if
merge7mh == 2
206  replace iteamMissing = iteamMissing + " CF nicht using" if
merge7cf == 2
207  replace iteamMissing = iteamMissing + " HC nicht using" if
merge7hc == 2
208  la var iteamMissing "String : describing which questionnaire
moduls counldn't be matched to person"
209  // number of items missing per merge id
210  gen fehlStdN = 0
211  replace fehlStdN = fehlStdN + 1 if merge7ep == 1
212  replace fehlStdN = fehlStdN + 1 if merge7dn == 1
213  replace fehlStdN = fehlStdN + 1 if merge7sp == 1
214  replace fehlStdN = fehlStdN + 1 if merge7ph == 1
215  replace fehlStdN = fehlStdN + 1 if merge7mh == 1
216  replace fehlStdN = fehlStdN + 1 if merge7cf == 1
217  replace fehlStdN = fehlStdN + 1 if merge7hc == 1
218  }
219  la var fehlStdN "Integer : number of questionnaire moduls missing
for each person"
```

```
1 use "dta/cache/dieDaten.dta", clear
2
3 //gen dup = duplicates by mergid
4 sort mergeid
5 quietly by mergeid: gen dup = cond(_N==1,0,_n)
6
7 tabulate dup
8
9 // delete duplicates
10 drop if dup>=1
11 drop dup
12 save "dta/cache/dieDaten.dta", replace
13
```

```
1 //bearb dieDaten nach
2 use "dta/cache/dieDaten.dta", clear
3
4
5 //HHsize
6 //
7 mvdecode yrbirth, mv(-1)
8 gen adult =0
9 replace adult = 1 if age >= 18
10 gen olderThan14 = 0
11 replace olderThan14 = 1 if age >= 14 & age < 18
12 gen youngerThan14 = 0
13 replace youngerThan14 = 1 if age < 14
14 do "do/CountHH.do"
15 sort hhid
16 by hhid: gen n1 = _n
17 by hhid: gen n2 = _N
18 by hhid: gen nAdlt = _n if adult == 1
19 by hhid: gen nTeen = _n if olderThan14 == 1
20 by hhid: gen nKid = _n if youngerThan14 ==1
21 by hhid: gen adultsHH = sum(adult)
22 by hhid: gen TeenHH = sum(olderThan14)
23 by hhid: gen KidHH = sum(youngerThan14)
24 by hhid: egen tAdultsHH = max(adultsHH)
25 by hhid: egen tTeenHH = max(TeenHH)
26 by hhid: egen tKidHH = max(KidHH)
27 gen prsGwt = 0
28 replace prsGwt = tAdultsHH + tTeenHH*0.5 + tKidHH*0.3
29
30
31 // einkommen
32 //
33
34
35
36 // Vermögen
37 //
38
39 g asMv = 0
40
41 save "dta/cache/dieDaten.dta", replace
42
43
44
45 gen inc = thinc2/exrate
46 sort country
47 by country: egen ctryMnInc = mean(inc)
48 by country: egen ctryMdInc = median(inc)
49 save "dta/cache/dataset.dta", replace
```

```

49 save "dta/cache/dataset.dta", replace
50 by country, sort: gen nvals = _n == 1
51 drop if nvals != 1
52 //graph bar ctryMnInc ctryMdInc, over(country, label(angle(90)))
53 sum ctryMnInc
54
55 use "dta/cache/dataset.dta", clear
56
57 * The next steps will be easier, if we generate a new country
  variable,
58 * which starts with the value one and continues the consecutive
  numbering without gaps.
59     gen     countryid = .
60     replace countryid = country - 10 if country <= 13
61     replace countryid = country - 11 if country > 14 & country <=
  20
62     replace countryid = 10 if country == 23
63     replace countryid = 11 if country == 28
64     replace countryid = 12 if country == 29
65     replace countryid = 13 if country == 31
66     replace countryid = 14 if country == 32
67     replace countryid = 15 if country == 33
68     replace countryid = 16 if country == 34
69     replace countryid = 17 if country == 35
70     replace countryid = 18 if country == 47
71     replace countryid = 19 if country == 48
72     replace countryid = 20 if country == 51
73     replace countryid = 21 if country == 53
74     replace countryid = 22 if country == 55
75     replace countryid = 23 if country == 57
76     replace countryid = 24 if country == 59
77     replace countryid = 25 if country == 61
78     replace countryid = 26 if country == 63
79     replace countryid = 27 if country == 25
80
81     lab def countryid    1 "1. Austria"                2 "2. Germany"
                        3 "3. Sweden"                    ///
82                        4 "4. Spain"                    5 "5. Italy"
                        6 "6. France"                    ///
83                        7 "7. Denmark"                  8 "8. Greece"
                        9 "9. Switzerland"                ///
84                        10 "10. Belgium"                11 "11.
Czechia"              12 "12. Poland"                    ///
85                        13 "13. Luxembourg"            14 "14.
Hungary"              15 "15. Portugal"                  ///
86                        16 "16. Slovenia"              17 "17.
Estonia"              18 "18. Croatia"                   ///
87                        19 "19. Lithuania"             20 "20.
Bulgaria"            21 "21. Cyprus"                    ///

```

```

87          19 "19. Lithuania"          20 "20.
Bulgaria"          21 "21. Cyprus"      ///
88          22 "22. Finland"          23 "23. Latvia"
          24 "24. Malta"              ///
89          25 "25. Romania"          26 "26.
Slovakia"          27 "27. Israel"
90 /*
91
92 */
93     lab val countryid countryid
94     lab var countryid "Country identifier"
95
96
97 * Check if we made any mistakes
98 tab1 country countryid
99 save "dta/cache/dataset.dta", replace
100
101
102
103 g incPpp = inc
104
105 //einkommen $ -> €
106
107 gen incPppEuro = .
108 replace incPppEuro = incPpp*pppc2017 if inc != . & int_year ==2017
109 replace incPppEuro = incPpp*pppc2016 if inc != . & int_year ==2016
110 replace incPppEuro = incPpp*pppc2015 if inc != . & int_year ==2015
111 replace incPppEuro = incPpp*pppc2014 if inc != . & int_year ==2014
112 replace incPppEuro = incPpp*pppc2013 if inc != . & int_year ==2013
113 replace incPppEuro = incPpp*pppc2012 if inc != . & int_year ==2012
114 replace incPppEuro = incPpp*pppc2011 if inc != . & int_year ==2011
115 replace incPppEuro = incPpp*pppc2010 if inc != . & int_year ==2010
116 replace incPppEuro = incPpp*pppc2009 if inc != . & int_year ==2009
117 replace incPppEuro = incPpp*pppc2008 if inc != . & int_year ==2008
118 replace incPppEuro = incPpp*pppc2007 if inc != . & int_year ==2007
119 replace incPppEuro = incPpp*pppc2006 if inc != . & int_year ==2006
120 replace incPppEuro = incPpp*pppc2005 if inc != . & int_year ==2005

```

```
120 replace incPppEuro = incPpp*pppc2005 if inc != . & int_year ==2005
121 replace incPppEuro = incPpp*pppc2004 if inc != . & int_year ==2004
122 replace incPppEuro = incPpp*pppc2003 if inc != . & int_year ==2003
123
124 //einkommenPPP -> Äquivalenzeinkommen, AE =
    inc/hh(1*sumAdlt+0.5*sumTeen+0.3*sumKid)
125 gen incPppEuroAE = incPppEuro/prsGwt
126 g incEuro = inc/exrate
127 g incEuroAe = incEuro/prsGwt
128 //graph bar inc incPppEuro incPppEuroAE, over(country,
    label(angle(90)))
129
130 g euroNetAssets = hrass // /exrate
131 g pPPEuroNetAssets = 0
132
133 replace pPPEuroNetAssets = euroNetAssets *pppc2017 if hrass != .
    & int_year ==2017
134 replace pPPEuroNetAssets = euroNetAssets *pppc2016 if hrass != .
    & int_year ==2016
135 replace pPPEuroNetAssets = euroNetAssets *pppc2015 if hrass != .
    & int_year ==2015
136 replace pPPEuroNetAssets = euroNetAssets *pppc2014 if hrass != .
    & int_year ==2014
137 replace pPPEuroNetAssets = euroNetAssets *pppc2013 if hrass != .
    & int_year ==2013
138 replace pPPEuroNetAssets = euroNetAssets *pppc2012 if hrass != .
    & int_year ==2012
139 replace pPPEuroNetAssets = euroNetAssets *pppc2011 if hrass != .
    & int_year ==2011
140 replace pPPEuroNetAssets = euroNetAssets *pppc2010 if hrass != .
    & int_year ==2010
141 replace pPPEuroNetAssets = euroNetAssets *pppc2009 if hrass != .
    & int_year ==2009
142 replace pPPEuroNetAssets = euroNetAssets *pppc2008 if hrass != .
    & int_year ==2008
143 replace pPPEuroNetAssets = euroNetAssets *pppc2007 if hrass != .
    & int_year ==2007
144 replace pPPEuroNetAssets = euroNetAssets *pppc2006 if hrass != .
    & int_year ==2006
145 replace pPPEuroNetAssets = euroNetAssets *pppc2005 if hrass != .
    & int_year ==2005
146 replace pPPEuroNetAssets = euroNetAssets *pppc2004 if hrass != .
    & int_year ==2004
147 replace pPPEuroNetAssets = euroNetAssets *pppc2003 if hrass != .
    & int_year ==2003
148
```

```
1 //bearb dieDaten nach
2 use "dta/cache/dieDaten.dta", clear
3
4 // Gesundheit
5 //
6 g needsLtc = 0
7 replace needsLtc = 1 if careLev > 0
8 la var needsLtc "dummyVar: true ? careLev >= 1 : careLev =0"
9 g hasCare = 0
10
11 la var hasCare "dummyVar: true ? recives Care = 1 : recives no
  Care =0"
12 gen sHealth = ph003_
13
14
15 egen zSphus = std(sphus)
16 egen zPhactiv = std(phactiv)
17 egen zMaxgrip = std(maxgrip)
18 egen zEurod = std(eurod)
19 egen zCasp = std(casp)
20 egen zChronic2 = std(chronic2)
21 gen zHealth = (zSphus + zPhactiv + zMaxgrip + zEurod + zCasp +
  zChronic2 + zCogFct + zMntlHlth)
22
23 replace zHealth = zHealth*(-1)
24
25 g sedentaryLifestyle = 0
26 replace sedentaryLifestyle = 1 if phactiv == 1
27 replace rb = rb + 1 if sedentaryLifestyle == 1
28
29 replace FHR = ((1+rb)*(1+A0HS))/maxgrip // atella 2012
30 egen fhrMax = max(FHR)
31 replace FHR = FHR / fhrMax
32 egen pfMax = max(pf)
33 egen mhMax = max(mh)
34 egen cfMax = max(cF)
35 egen dMax = max(eurod)
36 gen depression = eurod / dMax
37 replace pf = pf / pfMax
38 replace mh = mh / mhMax
39 replace cF = cF / cfMax
40 g empCon = 0
41 replace empCon = (depression + weightLoss + fall + fearFall)/4 if
  depression != .
42 replace empCon = (weightLoss + fall + fearFall)/3 if depression
  == .
43 g objHealth = 0
44 replace objHealth = (pf + mh + cF + FHR + empCon) / 5
45
```

```

45
46 egen shMax = max(sHealth)
47 replace sHealth = sHealth/shMax
48 // health status index
49 g health = (sHealth*-2.5 + objHealth*-2.5) +5
50 la var health "continous helth index : 5 = excellent health ...
    0 = very bad health"
51
52
53 //Care
54 //
55 g careForm = 0
56 replace careForm = 2 if recPrfCare == 1
57 replace careForm = 1 if recivedCare == 1
58 replace careForm = 3 if inLtcFacility == 1
59 la var careForm "recived care form"
60 label define careForm 0 "no Care" 1 "unprofessional Care at home"
    2 "professional Care at home" 3 "professional Care in LTC
    Facility"
61 label value careForm careForm
62 replace hasCare = 1 if careForm != 0
63
64 g careFinContext = 0
65 replace careFinContext = 1 if outOfPocketPay == 1
66 replace careFinContext = 2 if lTCInsurancePrvVlt == 1
67 replace careFinContext = 3 if lTCInsurancePrvMdt == 1
68 replace careFinContext = 4 if lTCInsurancePub == 1
69 la var careFinContext "financing indication of LTC"
70 label define careFinContext 0 "no financing" 1 "out of pocket
    payments" 2 "private voluntary insurance" 3 "private mandatory
    insurance"/*
71 */ 4 "public insurance"
72 label value careFinContext careFinContext
73
74 g unmetCare = 0
75 replace unmetCare = 1 if (adl >= 1 & ((recPrfCare == 0 |
    nursinghome ==0) & informalHelp ==0) )
76 replace unmetCare = 1 if (iAdl >= 1 & (recivedCare == 0 &
    informalHelp ==0 ))
77
78 save "dta/cache/dieDaten.dta", replace
79

```



```

1  keep if countryid == 1 | countryid == 10 | countryid == 9 |
   countryid == 2 | countryid == 7 | countryid == 4 | countryid == 6
   | countryid == 8/*
2      */ | countryid == 5 | countryid == 3 | countryid == 11 |
   countryid == 13 | countryid == 16 | countryid == 17
3
4  keep if needsLtc == 1
5
6
7
8  egen newCtrid = group(country)
9
10 g menHealth20 = .
11 g menHealth80 = .
12 g sdHealth20 = .
13 g sdHealth80 = .
14
15 // Income health disparities
16 //
17 forvalues i = 1/13{
18   xtile ptile`i' = income if newCtrid == `i' ,nq(100)
19   gen var`i' = 0
20   replace var`i' = 1 if ptile`i' <= 20
21   replace var`i' = 2 if ptile`i' >= 80 & ptile`i' != .
22   sort var`i'
23   by var`i' : egen a`i' = mean(health)
24   by var`i' : egen aSd`i' = sd(health)
25
26   replace menHealth20 = a`i' if var`i' == 1
27   replace menHealth80 = a`i' if var`i' == 2
28   replace sdHealth20 = aSd`i' if var`i' == 1
29   replace sdHealth80 = aSd`i' if var`i' == 2
30   drop ptile`i' var`i' a`i' aSd`i'
31 }
32 sort country
33 by country : egen mH80 = median(menHealth80)
34 by country : egen mH20 = median(menHealth20)
35 by country : egen sdH80 = sd(menHealth80)
36 by country : egen sdH20 = sd(menHealth20)
37 g hlthDspInc = mH80 - mH20
38 g hlthDspIncSd = sqrt(sdH80^2 + sdH20^2)
39 drop mH80 mH20
40 la var hlthDspInc "health disparities - health of inc top 80 % -
   health of inc bottom 20 %"
41
42 //Assets health disparities
43 //
44 forvalues i = 1/13{
45   xtile ptile`i' = Assets if newCtrid == `i' ,nq(100)

```

```

45 xtile ptile`i' = Assets if newCtrid == `i' ,nq(100)
46 gen var`i' = 0
47 replace var`i' = 1 if ptile`i' <= 20
48 replace var`i' = 2 if ptile`i' >= 80 & ptile`i' != .
49 sort var`i'
50 by var`i' : egen a`i' = mean(health)
51 replace menHealth20 = a`i' if var`i' == 1
52 replace menHealth80 = a`i' if var`i' == 2
53 drop ptile`i' var`i' a`i'
54 }
55 sort country
56 by country : egen mH80 = median(menHealth80)
57 by country : egen mH20 = median(menHealth20)
58 g hlthDspAssets = mH80 - mH20
59 la var hlthDspAssets "health disparities - health of assets top
80 % - health of assets bottom 20 %"
60
61 sort country
62
63 g percentUnmetCare = .
64 forvalues i = 1/13{
65 xtile ptile`i' = unmetCare if newCtrid == `i' ,nq(100)
66 replace percentUnmetCare = 100 - ptile`i' if ptile`i' != 1 &
newCtrid == `i'
67 drop ptile`i'
68 }
69 by country : egen prcUmCr = median(percentUnmetCare)
70 la var prcUmCr "% of unment need for LTC per country"
71
72 // Care form in %
73 //
74 replace careForm = . if careForm == 0
75
76 sort country
77
78 by country: gen unPrf = 1 if careForm == 1
79 by country: gen sumUnPrf = sum(unPrf)
80 by country: egen prcUnPrf = max(sumUnPrf)
81
82 by country: gen pC = 1 if careForm == 2
83 by country: gen sumPC = sum(pC)
84 by country: egen prcPC = max(sumPC)
85
86 by country: gen pC0 = 1 if careForm == 3
87 by country: gen sumPC0 = sum(pC0)
88 by country: egen prcPC0 = max(sumPC0)
89
90 by country: gen totCF = 1 if careForm != .
91 by country: gen sumTotCF = sum(totCF)

```

```

91 by country: gen sumTotCF = sum(totCF)
92 by country: egen prcTotCF = max(sumTotCF)
93
94 replace prcUnPrf = prcUnPrf / prcTotCF
95 replace prcPC = prcPC / prcTotCF
96 replace prcPC0 = prcPC0 / prcTotCF
97
98 g letsBeSure = prcUnPrf + prcPC + prcPC0
99
100 la var prcUnPrf "% of LTC unprofessional Care at home"
101 la var prcPC "% of LTC professional Care at home"
102 la var prcPC0 "% of LTC professional Care in LTC Facility"
103
104
105 // Care finacing context in %
106 //
107 replace careFinContext = . if careFinContext == 0
108
109 sort country
110
111 by country: gen outP = 1 if careFinContext == 1
112 by country: gen sumOutP = sum(outP)
113 by country: egen prcOutOfPckt = max(sumOutP)
114 la var prcOutOfPckt "% of LTC finacend by out of pocket payments"
115
116 by country: gen prvVul = 1 if careFinContext == 2
117 by country: gen sumPrvVul = sum(prvVul)
118 by country: egen prcPrvVul = max(sumPrvVul)
119 la var prcPrvVul "% of LTC finacend by private voluntary
insurance"
120
121 by country: gen pMI = 1 if careFinContext == 3
122 by country: gen sumPMI = sum(pMI)
123 by country: egen prcPrvMdt = max(sumPMI)
124 la var prcPrvMdt "% of LTC finacend by private mandatory
insurance"
125
126 by country: gen pubI = 1 if careFinContext == 4
127 by country: gen sumPubI = sum(pubI)
128 by country: egen pubIns = max(sumPubI)
129 la var pubIns "% of LTC finacend by public insurance"
130
131 by country: gen totCF2 = 1 if careFinContext != .
132 by country: gen sumTotCF2 = sum(totCF2)
133 by country: egen prcTotCF2 = max(sumTotCF2)
134
135 replace prcOutOfPckt = prcOutOfPckt / prcTotCF2
136 replace prcPrvVul = prcPrvVul / prcTotCF2

```

```
136 replace prcPrvVul = prcPrvVul / prcTotCF2
137 replace prcPrvMdt = prcPrvMdt / prcTotCF2
138 replace pubIns = pubIns / prcTotCF2
139
140 g letsBeSureAgain = prcOutOfPckt + prcPrvVul + prcPrvMdt + pubIns
141 sum letsBeSure letsBeSureAgain
142
143 keep country int_year hlthDspInc hlthDspIncSd hlthDspAssets
    prcUmCr prcOutOfPckt prcPrvVul prcPrvMdt pubIns prcUnPrf prcPC
    prcPC0
144
145 // transform to 1obs per country
146 by country: gen twinKill = _n
147 drop if twinKill != 1
148 drop twinKill
149 g strCtr = ""
150 replace strCtr = "Austria" if country == 11
151 replace strCtr = "Germany" if country == 12
152 replace strCtr = "Sweden" if country == 13
153 replace strCtr = "Spain" if country == 15
154 replace strCtr = "Italy" if country == 16
155 replace strCtr = "France" if country == 17
156 replace strCtr = "Denmark" if country == 18
157 replace strCtr = "Switzerland" if country == 20
158 replace strCtr = "Belgium" if country == 23
159 replace strCtr = "Czech Republic" if country == 28
160 replace strCtr = "Luxembourg" if country == 31
161 replace strCtr = "Slovenia" if country == 34
162 replace strCtr = "Estonia" if country == 35
163
164 tostring int_year, generate(strYear)
165
166 g countryYearId = strCtr + strYear
167
```

```

1  replace jobSit = cjs if jobSit == .
2  mvdecode jobSit, mv (-99)
3  replace mStatus = mstat if mStatus == .
4  mvdecode mStatus, mv (-99)
5  // keep counties
6  keep if countryid == 1 | countryid == 10 | countryid == 9 |
   countryid == 2 | countryid == 7 | countryid == 4 | countryid == 6
   | countryid == 8/*
7      */ | countryid == 5 | countryid == 3 | countryid == 11 |
   countryid == 13 | countryid == 16 | countryid == 17
8
9  //drop all non relevant vars
10 keep mergeid int_year country countryid health careLev needsLtc
   unmetCare recPrfCare recivedCare inLtcFacility careForm
   careFinContext/*
11     M2 - soz background */                gender /*age*/age sqAge
   /*relationship status*/ mStatus /*edu*/yearsOfEdu/*
12                                     employment status*/
   jobSit /*income & assets*/ income Assets /*
13     M3 - Care financing context */                outOfPocketPay
   lTCInsurancePrvVlt lTCInsurancePrvMdt lTCInsurancePub /*
14     M4 - Conuntry / macro effects */
15 sum if gender == .
16 sum if age == .
17 sum if mStatus == .
18 sum if jobSit == .
19 sum if income == .
20 sum if Assets == .
21 sum if health == .
22 sum if needsLtc == .
23 sum if careForm == .
24 sum if careFinContext == .
25
26 // drop missings
27 drop if countryid == .
28
29 drop if gender == .
30 drop if age == .
31 drop if mStatus == .
32 drop if jobSit == .
33 sum
34 drop if income == .
35 drop if Assets == .
36 sum
37
38 drop if health == .
39 drop if needsLtc == .
40 drop if careForm == .
41 drop if careFinContext == .

```

```
41 drop if careFinContext == .
42 sum
43
44 // keep if care lev >= 1
45 keep if needsLtc == 1
46 sum
47
48
49
```

```

1
2
3 // keep counties
4 //keep if countryid == 1 | countryid == 10 | countryid == 9 |
  countryid == 2 | countryid == 7 | countryid == 4 | countryid ==
  6 | countryid == 8/*
5 // */ | countryid == 5 | countryid == 3
6
7
8 //drop all non relevant vars
9 //keep mergeid int_year country countryid sHealth health zHealth
  careLev hasLtc recPrfCare recivedCare inLtcFacility gender age
  sqrtAge livWthPrt seperated widowed /*
10 */ //retired employed yearsOfEdu income Assets outOfPocketPay
  LTCInsurancePrvVlt LTCInsurancePrvMdt LTCInsurancePub
11
12 sort mergeid /*
13     M1 - recived care */                health careLev recPrfCare
  recivedCare inLtcFacility /*
14     M2 - soz backgroung */                gender /*age*/age sqAge
  /*relationship status*/mStatus /*edu*/yearsOfEdu/*
15                                     employment status*/
  jobSit/*income & assets*/ income Assets /*
16     M3 - Care financing context */                outOfPocketPay
  LTCInsurancePrvVlt LTCInsurancePrvMdt LTCInsurancePub /*
17     M4 - Conuntry / macro effects */                country
18
19 //helth index Validity
20 // health status and care level
21 reg health c.careLev
22 margins, at(careLev=(0 / 4))
23 marginsplot
24 reg health c.careForm
25 margins, at(careForm=(0 / 4))
26 marginsplot
27
28 // health care met vs unmet
29 regress health i.careLev if unmetCare == 0 & needsLtc == 1
30 est store D
31 regress health i.careLev if unmetCare == 1 & needsLtc == 1
32 est store F
33 coefplot D F, drop(_cons) xline(0)
34
35 // health status and age
36 regress health c.age##c.age
37
38     margins , at(age=(50(1)100))
39

```

```

39
40     marginsplot , recast(line) recastci(rarea)
41
42 //M1
43 reg health i.careForm careLev
44
45 //M2
46 reg health i.careForm careLev/*
47 */ gender c.age##c.age i.mStatus i.jobSit income Assets
48
49 //M3
50 reg health i.careForm careLev/*
51 */ gender c.age##c.age i.mStatus i.jobSit income Assets/*
52 */ i.careFinContext
53
54 //M4
55 reg health i.careForm careLev/*
56 */ gender c.age##c.age i.mStatus i.jobSit income Assets/*
57 */ i.careFinContext/*
58 */ i.country
59 margins,dydx(country)
60 marginsplot , recast(scatter) horizontal ylabel(1 "Austria" 2
  "Germany" 3 "Sweden" 4 "Spain" 5 "Italy" 6 "France" 7 "Denmark" 8
  "Switzerland" 9 "Belgium" 10 "Czech Republic" 11 "Luxembourg" 12
  "Slovenia" 13 "Estonia")
61
62
63 gen countryLoop = .
64 replace countryLoop = 1 if countryid == 1
65 replace countryLoop = 2 if countryid == 2
66 replace countryLoop = 3 if countryid == 3
67 replace countryLoop = 4 if countryid == 4
68 replace countryLoop = 5 if countryid == 5
69 replace countryLoop = 6 if countryid == 6
70 replace countryLoop = 7 if countryid == 7
71 replace countryLoop = 8 if countryid == 9
72 replace countryLoop = 9 if countryid == 10
73 replace countryLoop = 10 if countryid == 11
74 replace countryLoop = 11 if countryid == 13
75 replace countryLoop = 12 if countryid == 16
76 replace countryLoop = 13 if countryid == 17
77
78 drop if country == 28
79 egen newid = group(country)
80
81
82 // coeplot effect carelevel on health by country
83 forvalues i = 1/12 {
84     quietly regress health careLev i.careForm/*

```



```

84     quietly regress health careLev i.careForm/*
85 */ gender c.age i.mStatus i.jobSit income Assets/*
86 */ i.careFinContext if newid == `i'
87     est store countryreg_`i'
88 }
89 est tab countryreg_* , star b(%9.3f) keep(careLev)
90
91 //coefplot countryreg_1 - countryreg_13, keep(i.careForm)
92 xline(0) swapnames      scheme(s1mono) saving(Country_needsLtc ,
93 replace)
94
95 coefplot (
96     \ countryreg_1 , aseq(Austria)      ///
97     \ countryreg_2 , aseq(Germany)      ///
98     \ countryreg_3 , aseq(Sweden)       ///
99     \ countryreg_4 , aseq(Spain)        ///
100    \ countryreg_5 , aseq(Italy)         ///
101    \ countryreg_6 , aseq(France)        ///
102    \ countryreg_7 , aseq(Denmark)       ///
103    \ countryreg_8 , aseq(Switzerland)   ///
104    \ countryreg_9 , aseq(Belgium)       ///
105    \ countryreg_10 , aseq(Luxembourg)   ///
106    \ countryreg_11 , aseq(Slovenia)     ///
107    \ countryreg_12 , aseq(Estonia)      ///
108    ) , keep(careLev) xline(0) swapnames      scheme(
109    s1mono) saving("output/Country_needsLtc" , replace)

```

```
1 //merge micro Data
2 use "dta/cache/W5.dta", clear
3 save "dta/cache/finalData.dta", replace
4 append using "dta/cache/W6.dta"
5 append using "dta/cache/W7.dta"
6
7 //merge macro Data
8 tostring int_year, gen(str)
9 g strCountry = ""
10 replace strCountry = "Austria" if countryid == 1
11 replace strCountry = "Germany" if countryid == 2
12 replace strCountry = "Sweden" if countryid == 3
13 replace strCountry = "Spain" if countryid == 4
14 replace strCountry = "Italy" if countryid == 5
15 replace strCountry = "France" if countryid == 6
16 replace strCountry = "Denmark" if countryid == 7
17 replace strCountry = "Greece" if countryid == 8
18 replace strCountry = "Switzerland" if countryid == 9
19 replace strCountry = "Belgium" if countryid == 10
20 replace strCountry = "Czech Republic" if countryid == 11
21 replace strCountry = "Luxembourg" if countryid == 13
22 replace strCountry = "Slovenia" if countryid == 16
23 replace strCountry = "Estonia" if countryid == 17
24
25 g countryYearId = strCountry+str
26 merge m:1 countryYearId using "dta/cache/macroDataFin.dta"
27 drop if _merge == 2
28 drop _merge
29 save "dta/cache/finalData.dta", replace
30
31 use "dta/cache/finalData.dta", clear
32
33 // gen panelid
34 egen newid = group(mergeid)
35 forvalues i = 5/7{
36 bysort country : egen mHlt`i' = mean(health) if wave == `i'
37 }
38
39 save "dta/cache/finalData.dta", replace
40 use "dta/cache/finalData.dta", clear
41
42 drop if countryid == 8 | countryid == 11
43
44 save "dta/cache/finalData.dta", replace
45
```

```
1 use "dta/cache/finalData.dta", clear
2
3 // correlation between vs within
4 reg health i.careForm i.careFinContext careLev/*
5 */ gender c.age##c.age i.mStatus i.jobSit income Assets/*
6 */ i.country i.int_year
7 predict res, resid
8
9 reshape wide health careForm careFinContext careLev unmetCare/*
10 */ gender age mStatus jobSit income Assets/*
11 */ country int_year sqAge yearsOfEdu lTCInsurancePub/*
12 */ recivedCare lTCInsurancePrvMdt lTCInsurancePrvVlt /*
13 */ recPrfCare outOfPocketPay inLtcFacility mHlt5 mHlt6 mHlt7/*
14 */ res, i(newid) j(wave)
15 corr res?
16
17
18 reshape long
19 forvalues i = 5/7{
20 reg health c.careFinContext if wave == `i'
21 margins, at(careFinContext=(1 / 4))
22 marginsplot
23 }
24 reg health c.careFinContext if wave == 5
25 margins, at(careFinContext=(1 / 4))
26 marginsplot
27
28
29 // panel regression
30 xtset newid wave, yearly
31
32 xtsum
33
34
35 // export sample overview
36 xtsum2 gender age mStatus jobSit income Assets health careLev
37 careForm careFinContext unmetCare
38
39 esttab e(mat_all), mlabels(none) labcol2(`e(obw)') varlabels(r2
40 " " r3 " ") tex
41
42 xtgee health i.careFinContext careLev i.careForm/*
43 */ gender c.age##c.age i.mStatus i.jobSit income Assets/*
44 */ i.country i.int_year, corr(exchangeable)
45
46 xtgee health i.careFinContext careLev i.careForm/*
```

```

45 xtgee health i.careFinContext careLev i.careForm/*
46 */ gender c.age##c.age i.mStatus i.jobSit income Assets/*
47 */ i.country i.int_year, corr(ar1)
48
49 xtgee health i.careFinContext careLev i.careForm/*
50 */ gender c.age##c.age i.mStatus i.jobSit income Assets/*
51 */ i.country i.int_year, corr(independent)
52
53 //M1
54 //
55 // hausmann test :
56 //h0 random effekts appropriate
57 //h1 fixed effekts appropriate
58 quietly xtreg health careLev i.careFinContext i.careForm, fe
59 estimate store fe
60 quietly xtreg health careLev i.careFinContext i.careForm, re
61 estimate store re
62 hausman fe re
63 //chi^2 = 0.000 => h0 ablehenen
64 xtreg health careLev i.careFinContext i.careForm, fe
65
66 //M2
67 //
68 quietly xtreg health careLev i.careFinContext i.careForm/*
69 */ gender c.age i.mStatus i.jobSit income Assets, fe
70 est store fe
71
72 quietly xtreg health careLev i.careFinContext i.careForm/*
73 */ gender c.age i.mStatus i.jobSit income Assets, re
74 estimate store re
75
76 hausman fe re // Prob>chi2 = 0.0000; reject h0;
77
78 xtreg health careLev i.careFinContext i.careForm/*
79 */ gender c.age i.mStatus i.jobSit income Assets, fe
80
81 //M3
82 //
83 quietly xtreg health careLev i.careFinContext i.careForm/*
84 */ gender c.age i.mStatus i.jobSit income /*Assets
85 */ i.country i.int_year, fe
86 est store fe
87
88 quietly xtreg health careLev i.careFinContext i.careForm/*
89 */ gender c.age i.mStatus i.jobSit income /*Assets
90 */ i.country i.int_year, re
91 estimate store re
92
93 hausman fe re //Prob>chi2 = 0.0000; reject h0;

```

```

93 hausman fe re //Prob>chi2 = 0.0000; reject h0;
94
95 xtreg health careLev i.careFinContext i.careForm/*
96 */ gender c.age i.mStatus i.jobSit income /*Assets
97 */ i.country i.int_year, fe
98
99
100 use "dta/cache/finalData.dta", clear
101
102 // avg health by country
103 egen newCtrid = group(countryid)
104 g id = newCtrid
105 lab def id 1 "1. Austria" 2 "2. Germany"
106 3 "3. Sweden" ///
107 4 "4. Spain" 5 "5. Italy"
108 6 "6. France" ///
109 7 "7. Denmark" 8 "8.
110 Switzerland" ///
111 9 "9. Belgium" ///
112 10 "10. Luxembourg" 11 "11.
113 Slovenia" 12 "12. Estonia"
114 label value id id
115 // country mean health
116 xtset newid wave, yearly
117 quietly xtreg health i.id
118 margins, at(id=(1 / 12))
119 marginsplot
120 sort id
121 by id : egen mnHlth = mean(health)
122 twoway scatter mnHlth id, mlabel(country)
123 drop newCtrid id mnHlth
124
125 // financing scheme effect on health
126 quietly xtreg health i.careFinContext careLev i.careForm/*
127 */ gender c.age i.mStatus i.jobSit income /*Assets
128 */ i.country i.int_year, fe
129 est store fe
130
131 quietly xtreg health i.careFinContext careLev i.careForm/*
132 */ gender c.age i.mStatus i.jobSit income /*Assets
133 */ i.country i.int_year, re
134 est store re
135
136 hausman fe re
137
138 // H1 : public financed LTC = better health
139 xtreg health careLev i.careFinContext i.careForm/*
140 */ gender c.age i.mStatus i.jobSit income /*Assets

```

```

1  use "dta/cache/finalData.dta", clear
2  //drop if country == 20 | country == 19 | country == 31
3  egen newCtrid = group(countryid)
4
5  // create postfile
6  postutil clear
7  postfile PanelMicroAnalysis countryid wave N beta_careLev
   se_careLev beta_age se_age using "dta/cache/results_micro.dta",
   replace
8  forvalues i = 5/7{
9  forvalues j = 1/12{
10 quietly reg health careLev i.careFinContext i.careForm/*
11 */ gender c.age i.mStatus i.jobSit c.income if wave == `i' &
   newCtrid == `j'
12 mat results = r(table)
13     local countryid = countryid           // the cntry variable in
   the new dataset should contain the same cntry values
14     local wave = wave
15     local N = e(N)                       // number of
   observations for each country (or: for each regression)
16     local beta_careLev = results[1,1]     // beta_hasLtc captures
   the regression coefficient of hasLtc for the corresponding
   cntry/regression
17     local se_careLev = results[1,2]       // se_hasLtc captures
   the corresponding std. err.
18     local beta_cage = results[2,1]       // beta_cage captures
   the regression coefficient of cage for the corresponding
   cntry/regression
19     local se_cage = results[2,2]         // se_cage captures the
   corresponding std. err.
20     post PanelMicroAnalysis (`j') (`i') (`N') (`beta_careLev') (
   `beta_cage') (`se_careLev') (`se_cage')
21 }
22 }
23 postclose PanelMicroAnalysis
24 use "dta/cache/results_micro.dta" , clear
25 sum
26 // using merge
27 use "dta/cache/macroMicro.dta", clear
28 g mId = year*10^1 + countryid
29 g value = .
30 replace value = diff2013 if year == 2013
31 replace value = diff2015 if year == 2015
32 replace value = diff2017 if year == 2017
33
34 keep mId country countryid value v vPr
35 save "dta/cache/macroMicrob.dta", replace
36

```

```
36
37 // prepare postfile
38 use "dta/cache/results_micro.dta", clear
39 g id = countryid
40 replace countryid = 9 if id == 8
41 replace countryid = 10 if id == 9
42 replace countryid = 13 if id == 10
43 replace countryid = 16 if id == 11
44 replace countryid = 17 if id == 12
45 g year = .
46 replace year = 2013 if wave == 5
47 replace year = 2015 if wave == 6
48 replace year = 2017 if wave == 7
49 g mId = year*10^1 + countryid
50 // merge postfile and using (macro)
51 merge m:1 mId using "dta/cache/macroMicrob.dta"
52
53
54 drop if wave == .
55 drop if value == .
56
57 drop mId beta_age se_age _merge
58
59 reshape wide N beta_careLev se_careLev value country year, i(
countryid) j(wave)
60
61 // change in health
62 g effectDiff2015 = beta_careLev6 - beta_careLev5
63 g effectDiff2017 = beta_careLev7 - beta_careLev6
64 g effectDiffT = beta_careLev7 - beta_careLev5
65
66 // sd
67 g GuassssErr2015 = sqrt((se_careLev6)^2 + (se_careLev5)^2)
68 g GuassssErr2017 = sqrt((se_careLev7)^2 + (se_careLev6)^2)
69 g GuassssErrT = sqrt((se_careLev7)^2 + (se_careLev5)^2)
70
71
72
73 reshape long
74 // ci 95%
75 g h15 = effectDiff2015 + GuassssErr2015
76 g l15 = effectDiff2015 - GuassssErr2015
77
78 g h17 = effectDiff2017 + GuassssErr2017
79 g l17 = effectDiff2017 - GuassssErr2017
80
81 g hT = effectDiffT + GuassssErrT
82 g lT = effectDiffT - GuassssErrT
83
```

```

83
84 save "dta/cache/results_micro.dta", replace
85
86 // plot results
87 use "dta/cache/results_micro.dta", clear
88 keep if year == 2017
89 twoway rcap hT lT v || scatter effectDiffT v, mlabel(country) ||
    lfit effectDiffT v
90 reg effectDiffT v
91
92
93 use "dta/cache/results_micro.dta", clear
94 tostring year, generate(strYear)
95
96 g countryYearId = country + strYear
97 drop country
98 save "dta/cache/results_micro.dta", replace
99
100 // merge with macro indices
101 use "dta/cache/MacroNo5.dta", clear
102 append using "dta/cache/MacroNo6.dta"
103 append using "dta/cache/MacroNo7.dta"
104 save "dta/cache/MacroFin.dta", replace
105 merge 1:1 countryYearId using "dta/cache/results_micro.dta"
106 drop if _merge != 3
107 drop _merge strYear strCtr wave
108 save "dta/cache/MacroFin.dta", replace
109
110
111 use "dta/cache/MacroFin.dta", clear
112 order country countryid int_year hlthDspInc hlthDspIncSd
    hlthDspAssets prcUmCr prcUnPrf prcPC prcPC0 prcOutOfPckt
    prcPrvVul prcPrvMdt pubIns /*
113 */ N beta_careLev se_careLev year value id v effectDiff2015
    effectDiff2017 effectDiffT GuassssErr2015 GuassssErr2017 GuassssErrT
    h15 l15 h17
114
115 reshape wide countryYearId hlthDspInc hlthDspIncSd hlthDspAssets
    prcUmCr prcUnPrf prcPC prcPC0 prcOutOfPckt prcPrvVul prcPrvMdt
    pubIns /*
116 */ N beta_careLev se_careLev year value id v, i(country) j(
    int_year)
117
118 // health disparities : change and ci 95%
119 g hlthDspIncT = hlthDspInc2017-hlthDspInc2013
120 g hlthDspIncSdT = sqrt(hlthDspIncSd2017^2 + hlthDspIncSd2013^2)
121
122 g h = hlthDspIncT + hlthDspIncSdT

```



```
122 g h = hlthDspIncT + hlthDspIncSdT
123 g l = hlthDspIncT - hlthDspIncSdT
124
125 g vT = v2015
126 g v2 = v2013/vT
127
128 // graph
129 twoway scatter hlthDspIncT vPr, mlabel(country) || lfit
    hlthDspIncT vPr
130 reg hlthDspIncT vPr
131
132 reshape long
133 // clean
134 keep countryYearId country int_year beta_careLev se_careLev value
    hlthDspInc hlthDspIncSd hlthDspAssets prcUmCr prcUnPrf prcPC
    prcPC0 /*
135 */ prcOutOfPckt prcPrvVul prcPrvMdt pubIns N
136 drop if int_year == 2
137 // merge with spendingPPP
138 merge 1:1 countryYearId using "dta/cache/MacroData.dta"
139
140 la var spendingPpp1 "t-1 : Government/compulsory schemes"
141 la var spendingPpp2 "t-1 : Voluntary health care payment schemes"
142 la var spendingPpp3 "t-1 : Household out-of-pocket payments"
143 la var public "t-1 : public spending in euros"
144 la var probPub "t-1 : share of public on total expenditure"
145 la var value "public expenditure change last 3 years"
146 label value value value
147 label value public public
148 label value probPub probPub
149 drop if country == .
150 save "dta/cache/MacroFin.dta", replace
151 // export data
152 export delimited using "dta/out/PanelDataB", replace
153
```

```
1 use "dta/cache/MacroFin.dta", clear
2
3 xtset country int_year, yearly
4
5 xtsum
6 // export sample summary
7 xtsum2 beta_careLev se_careLev hlthDspInc hlthDspIncSd value
  public probPub prcUmCr prcUnPrf prcPC prcPC0 prcOutOfPckt
  prcPrvVul prcPrvMdt pubIns
8 esttab e(mat_all), mlabels(none) labcol2(`e(obw)') varlabels(r2
  " " r3 " ") tex
9
10 // care level
11 quietly xtreg beta_careLev value public probPub prcUmCr prcUnPrf
  prcPC prcPC0 prcOutOfPckt prcPrvVul prcPrvMdt pubIns, fe
12 est store fe
13
14 quietly xtreg beta_careLev value public probPub prcUmCr prcUnPrf
  prcPC prcPC0 prcOutOfPckt prcPrvVul prcPrvMdt pubIns, re
15 est store re
16
17 hausman fe re
18
19 xtreg beta_careLev value public probPub prcUmCr prcUnPrf prcPC
  prcPC0 prcOutOfPckt prcPrvVul prcPrvMdt pubIns, re
20 est store CareLevel
21 // health disparities
22
23 quietly xtreg hlthDspInc value public probPub prcUmCr prcUnPrf
  prcPC prcPC0 prcOutOfPckt prcPrvVul prcPrvMdt pubIns, fe
24 est store fe
25
26 quietly xtreg hlthDspInc value public probPub prcUmCr prcUnPrf
  prcPC prcPC0 prcOutOfPckt prcPrvVul prcPrvMdt pubIns, re
27 est store re
28
29 hausman fe re
30
31 xtreg hlthDspInc value public probPub prcUmCr prcUnPrf prcPC
  prcPC0 prcOutOfPckt prcPrvVul prcPrvMdt pubIns, fe
32 est store HealthDisparities
33
34 // graph
35 coefplot CareLevel HealthDisparities, drop(_cons public probPub
  prcUmCr prcUnPrf prcPC prcPC0 prcOutOfPckt prcPrvVul prcPrvMdt
  pubIns) xline(0)
```

```
35  coefplot CareLevel HealthDisparities, drop(_cons public probPub
    prcUmCr prcUnPrf prcPC prcPC0 prcOutOfPckt prcPrvVul prcPrvMdt
    pubIns) xline(0)
36
37  // export regression
38  esttab CareLevel HealthDisparities
39
40  eststo: xtreg beta_careLev value public probPub prcUmCr prcUnPrf
    prcPC prcPC0 prcOutOfPckt prcPrvVul prcPrvMdt pubIns, re
41
42  eststo: xtreg hlthDspInc value public probPub prcUmCr prcUnPrf
    prcPC prcPC0 prcOutOfPckt prcPrvVul prcPrvMdt pubIns, fe
43
44  //esttab using "output/macroReg.tex", label nostar ///
45  //    title(Regression table\label{tab1})
46
```