\*\*\*\*\*\*\*FI-52 for comprehensive & tracking cohorts CLSA\*\*\*\*\*\*\*\*

\*\*\*\*\*\*ADLS\*\*\*\*\*\*\*

generate dress = 0 if adl\_abldr\_trm==1

replace dress = 0.5 if adl\_hpdr\_trm==1

replace dress = 1 if adl\_undr\_trm==1

replace dress = 0 if adl\_abldr\_com==1 & dress==.

replace dress = 0.5 if adl\_hpdr\_com==1 & dress==.

replace dress = 1 if adl\_undr\_com==1 & dress==.

label variable dress "Able to dress"

generate groom = 0 if adl\_ablap\_trm==1

replace groom = 0.5 if adl\_hpap\_trm==1

replace groom = 1 if adl\_unap\_trm==1

replace groom = 0 if adl\_ablap\_com==1 & groom==.

replace groom = 0.5 if adl\_hpap\_com==1 & groom==.

replace groom = 1 if adl\_unap\_com==1 & groom==.

label variable groom "Able to take care of own appearance"

generate walk = 0 if adl\_ablwk\_trm==1

replace walk = 0.5 if adl\_hpwk\_trm==1

replace walk = 1 if adl\_unwk\_trm==1

replace walk = 0 if adl\_ablwk\_com==1 & walk==.

replace walk = 0.5 if adl\_hpwk\_com==1 & walk==.

replace walk = 1 if adl\_unwk\_com==1 & walk==.

label variable walk "Able to walk"

generate bed = 0 if adl\_ablbd\_trm==1

replace bed = 0.5 if adl\_hpbd\_trm==1

replace bed = 1 if adl\_unbd\_trm==1

replace bed = 0 if adl\_ablbd\_com==1 & bed==.

replace bed = 0.5 if adl\_hpbd\_com==1 & bed==.

replace bed = 1 if adl\_unbd\_com==1 & bed==.

label variable bed "Able to get in/out of bed"

generate bath = 0 if adl\_ablbt\_trm==1

replace bath = 0.5 if adl\_hpbt\_trm==1

replace bath = 1 if adl\_unbt\_trm==1

replace bath = 0 if adl\_ablbt\_com==1 & bath==.

replace bath = 0.5 if adl\_hpbt\_com==1 & bath==.

replace bath = 1 if adl\_unbt\_com==1 & bath==.

label variable bath "Able to bath or shower"

\*\*\*\*IADLS\*\*\*\*

generate phone = 0 if ial\_abltel\_trm==1

replace phone = 0.5 if ial\_hptel\_trm==1

replace phone = 1 if ial\_untel\_trm==1

replace phone = 0 if ial\_abltel\_com==1 & phone==.

replace phone = 0.5 if ial\_hptel\_com==1 & phone==.

replace phone = 1 if ial\_untel\_com==1 & phone==.

label variable phone "Able to use the phone"

generate transport = 0 if ial\_abltrv\_trm==1

replace transport = 0.5 if ial\_hptrv\_trm==1

replace transport = 1 if ial\_untrv\_trm==1

replace transport = 0 if ial\_abltrv\_com==1 & transport==.

replace transport = 0.5 if ial\_hptrv\_com==1 & transport==.

replace transport = 1 if ial\_untrv\_com==1 & transport==.

label variable transport "Able to get to places out of walking distance"

generate shop = 0 if ial\_ablgro\_trm==1

replace shop = 0.5 if ial\_hpgro\_trm==1

replace shop = 1 if ial\_ungro\_trm==1

replace shop = 0 if ial\_ablgro\_com==1 & shop==.

replace shop = 0.5 if ial\_hpgro\_com==1 & shop==.

replace shop = 1 if ial\_ungro\_com==1 & shop==.

label variable shop "Able to go shopping for groceries or clothes"

generate cook = 0 if ial\_ablml\_trm==1

replace cook = 0.5 if ial\_hpml\_trm==1

replace cook = 1 if ial\_unml\_trm==1

replace cook = 0 if ial\_ablml\_com==1 & cook==.

replace cook = 0.5 if ial\_hpml\_com==1 & cook==.

replace cook = 1 if ial\_unml\_com==1 & cook==.

label variable cook "Able to prepare own meals"

generate housewrk = 0 if ial\_ablwrk\_trm==1

replace housewrk = 0.5 if ial\_hpwrk\_trm==1

replace housewrk = 1 if ial\_unwrk\_trm==1

replace housewrk = 0 if ial\_ablwrk\_com==1 & housewrk==.

replace housewrk = 0.5 if ial\_hpwrk\_com==1 & housewrk==.

replace housewrk = 1 if ial\_unwrk\_com==1 & housewrk==.

label variable housewrk "Able to do housework"

generate takemed = 0 if ial\_ablmed\_trm==1

replace takemed = 0.5 if ial\_hpmed\_trm==1

replace takemed = 1 if ial\_unmed\_trm==1

replace takemed = 0 if ial\_ablmed\_com==1 & takemed==.

replace takemed = 0.5 if ial\_hpmed\_com==1 & takemed==.

replace takemed = 1 if ial\_unmed\_com==1 & takemed==.

label variable takemed "Able to take own medicine"

generate money = 0 if ial\_ablmo\_trm==1

replace money = 0.5 if ial\_hpmo\_trm==1

replace money = 1 if ial\_unmo\_trm==1

replace money = 0 if ial\_ablmo\_com==1 & money==.

replace money = 0.5 if ial\_hpmo\_com==1 & money==.

replace money = 1 if ial\_unmo\_com==1 & money==.

label variable money "Able to manage money"

\*\*\*\*Self-rated health\*\*\*

generate srh5 = 0 if gen\_hlth\_trm==1

replace srh5 = 0.25 if gen\_hlth\_trm==2

replace srh5 = 0.5 if gen\_hlth\_trm==3

replace srh5 = 0.75 if gen\_hlth\_trm==4

replace srh5 = 1 if gen\_hlth\_trm==5

replace srh5 = 0 if gen\_hlth\_com==1 & srh5==.

replace srh5 = 0.25 if gen\_hlth\_com==2 & srh5==.

replace srh5 = 0.5 if gen\_hlth\_com==3 & srh5==.

replace srh5 = 0.75 if gen\_hlth\_com==4 & srh5==.

replace srh5 = 1 if gen\_hlth\_com==5 & srh5==.

label variable srh5 "Self-rated health in five categories"

generate srv5 = 0 if vis\_sght\_trm==1

replace srv5 = 0.25 if vis\_sght\_trm==2

replace srv5 = 0.5 if vis\_sght\_trm==3

replace srv5 = 0.75 if vis\_sght\_trm==4

replace srv5 = 1 if vis\_sght\_trm==5

replace srv5 = 0 if vis\_sght\_com==1 & srv5==.

replace srv5 = 0.25 if vis\_sght\_com==2 & srv5==.

replace srv5 = 0.5 if vis\_sght\_com==3 & srv5==.

replace srv5 = 0.75 if vis\_sght\_com==4 & srv5==.

replace srv5 = 1 if vis\_sght\_com==5 & srv5==.

label variable srv5 "Self-rated vision in five categories"

generate srau5 = 0 if hrg\_hrg\_trm==1

replace srau5 = 0.25 if hrg\_hrg\_trm==2

replace srau5 = 0.5 if hrg\_hrg\_trm==3

replace srau5 = 0.75 if hrg\_hrg\_trm==4

replace srau5 = 1 if hrg\_hrg\_trm==5

replace srau5 = 0 if hrg\_hrg\_com==1 & srau5==.

replace srau5 = 0.25 if hrg\_hrg\_com==2 & srau5==.

replace srau5 = 0.5 if hrg\_hrg\_com==3 & srau5==.

replace srau5 = 0.75 if hrg\_hrg\_com==4 & srau5==.

replace srau5 = 1 if hrg\_hrg\_com==5 & srau5==.

label variable srau5 "Self-rated hearing in five categories"

\*\*\*\*\*Falls\*\*\*\*\*

generate falls = 0 if inj\_occ\_trm==2 | inj\_caus\_fl\_trm!=1

replace falls = 0.5 if inj\_nmbr\_nb\_trm==1 & inj\_caus\_fl\_trm==1 & falls==.

replace falls = 0.5 if fal\_nmbr\_nb\_trm==1 & falls==.

replace falls = 1 if fal\_nmbr\_nb\_trm<98 & falls==.

replace falls = 0 if inj\_occ\_com==2 | inj\_caus\_fl\_com!=1 & falls==.

replace falls = 0.5 if inj\_nmbr\_nb\_com==1 & inj\_caus\_fl\_com==1 & falls==.

replace falls = 0.5 if fal\_nmbr\_nb\_com==1 & falls==.

replace falls = 1 if fal\_nmbr\_nb\_com<98 & falls==.

label variable falls "Number of falls in the last year"

\*\*\*\*\*Depressive symptoms\*\*\*\*\*

generate effort = 1 if dep\_ffrt\_trm==1

replace effort = 0.66 if dep\_ffrt\_trm==2

replace effort = 0.33 if dep\_ffrt\_trm==3

replace effort = 0 if dep\_ffrt\_trm==4

replace effort = 1 if dep\_ffrt\_com==1 & effort==.

replace effort = 0.66 if dep\_ffrt\_com==2 & effort==.

replace effort = 0.33 if dep\_ffrt\_com==3 & effort==.

replace effort = 0 if dep\_ffrt\_com==4 & effort==.

label variable effort "How often felt everything was an effort"

generate lone = 1 if dep\_lonly\_trm==1

replace lone = 0.66 if dep\_lonly\_trm==2

replace lone = 0.33 if dep\_lonly\_trm==3

replace lone = 0 if dep\_lonly\_trm==4

replace lone = 1 if dep\_lonly\_com==1 & lone==.

replace lone = 0.66 if dep\_lonly\_com==2 & lone==.

replace lone = 0.33 if dep\_lonly\_com==3 & lone==.

replace lone = 0 if dep\_lonly\_com==4 & lone==.

label variable lone "How often felt lonely"

generate going = 1 if dep\_gtgo\_trm==1

replace going = 0.66 if dep\_gtgo\_trm==2

replace going = 0.33 if dep\_gtgo\_trm==3

replace going = 0 if dep\_gtgo\_trm==4

replace going = 1 if dep\_gtgo\_com==1 & going==.

replace going = 0.66 if dep\_gtgo\_com==2 & going==.

replace going = 0.33 if dep\_gtgo\_com==3 & going==.

replace going = 0 if dep\_gtgo\_com==4 & going==.

label variable going "How often felt could not get going"

\*\*\*\*\*Diseases\*\*\*\*

generate pneumonia = 1 if cct\_drpneu\_trm==1

replace pneumonia = 0 if cct\_drpneu\_trm==2

replace pneumonia = 1 if ccc\_drpneu\_com==1 & pneumonia==.

replace pneumonia = 0 if ccc\_drpneu\_com==2 & pneumonia==.

label variable pneumonia "Had pneumonia in the last year"

generate uti = 1 if cct\_druti\_trm==1

replace uti = 0 if cct\_druti\_trm==2

replace uti = 1 if ccc\_druti\_com==1 & uti==.

replace uti = 0 if ccc\_druti\_com==2 & uti==.

label variable uti "Had urinary tract infection in the last year"

generate osteoart = 1 if cct\_oaknee\_trm==1

replace osteoart = 1 if cct\_oahip\_trm==1 & osteoart==.

replace osteoart = 1 if cct\_oahand\_trm==1 & osteoart==.

replace osteoart = 0 if cct\_oaknee\_trm==2 & osteoart==.

replace osteoart = 0 if cct\_oahip\_trm==2 & osteoart==.

replace osteoart = 0 if cct\_oahand\_trm==2 & osteoart==.

replace osteoart = 1 if ccc\_oaknee\_com==1 & osteoart==.

replace osteoart = 1 if ccc\_oahip\_com==1 & osteoart==.

replace osteoart = 1 if ccc\_oahand\_com==1 & osteoart==.

replace osteoart = 0 if ccc\_oaknee\_com==2 & osteoart==.

replace osteoart = 0 if ccc\_oahip\_com==2 & osteoart==.

replace osteoart = 0 if ccc\_oahand\_com==2 & osteoart==.

label variable osteoart "Has a doctor ever told you that you have osteoarthritis?"

generate rheum = 1 if cct\_ra\_trm==1

replace rheum = 1 if cct\_otart\_trm==1 & rheum==.

replace rheum = 0 if cct\_ra\_trm==2 & rheum==.

replace rheum = 0 if cct\_otart\_trm==2 & rheum==.

replace rheum = 1 if ccc\_ra\_com==1 & rheum==.

replace rheum = 1 if ccc\_artot\_com==1 & rheum==.

replace rheum = 0 if ccc\_ra\_com==2 & rheum==.

replace rheum = 0 if ccc\_artot\_com==2 & rheum==.

label variable rheum "Has a doctor ever told you that you have rheumatoid arthritis or other type?"

generate copd = 1 if cct\_copd\_trm==1

replace copd = 0 if cct\_copd\_trm==2

replace copd = 1 if ccc\_copd\_com==1 & copd==.

replace copd = 0 if ccc\_copd\_com==2 & copd==.

label variable copd "Has a doctor ever told you that you have copd?"

generate hbp = 1 if cct\_hbp\_trm==1

replace hbp = 0 if cct\_hbp\_trm==2

replace hbp = 1 if ccc\_hbp\_com==1 & hbp==.

replace hbp = 0 if ccc\_hbp\_com==2 & hbp==.

label variable hbp "Has a doctor ever told you that you have high blood pressure?"

generate diab = 1 if cct\_diab\_trm==1

replace diab = 0 if cct\_diab\_trm==2

replace diab = 1 if dia\_diab\_com==1 & diab==.

replace diab = 0 if dia\_diab\_com==2 & diab==.

label variable diab "Has a doctor ever told you that you have diabetes?"

generate cardiop = 1 if cct\_heart\_trm==1

replace cardiop = 0 if cct\_heart\_trm==2

replace cardiop = 1 if ccc\_heart\_com==1 & cardiop==.

replace cardiop = 0 if ccc\_heart\_com==2 & cardiop==.

label variable cardiop "Has a doctor ever told you that you have cardiopathy?"

generate angina = 1 if cct\_angi\_trm==1

replace angina = 0 if cct\_angi\_trm==2

replace angina = 1 if ccc\_angi\_com==1 & angina==.

replace angina = 0 if ccc\_angi\_com==2 & angina==.

label variable angina "Has a doctor ever told you that you have angina?"

generate ami = 1 if cct\_ami\_trm==1

replace ami = 0 if cct\_ami\_trm==2

replace ami = 1 if ccc\_ami\_com==1 & ami==.

replace ami = 0 if ccc\_ami\_com==2 & ami==.

label variable ami "Has a doctor ever told you that you had AMI?"

generate perivasc = 1 if cct\_pvd\_trm==1

replace perivasc = 0 if cct\_pvd\_trm==2

replace perivasc = 1 if ccc\_pvd\_com==1 & perivasc==.

replace perivasc = 0 if ccc\_pvd\_com==2 & perivasc==.

label variable perivasc "Has a doctor ever told you that you have peripheral vascular disease?"

generate stroke = 1 if cct\_cva\_trm==1

replace stroke = 0 if cct\_cva\_trm==2

replace stroke = 1 if ccc\_cva\_com==1 & stroke==.

replace stroke = 0 if ccc\_cva\_com==2 & stroke==.

label variable stroke "Has a doctor ever told you that you have stroke?"

generate tia = 1 if cct\_tia\_trm==1

replace tia = 0 if cct\_tia\_trm==2

replace tia = 1 if ccc\_tia\_com==1 & tia==.

replace tia = 0 if ccc\_tia\_com==2 & tia==.

label variable tia "Has a doctor ever told you that you have a transient ischemic attack?"

generate srmem = 1 if cct\_mempb\_trm==1

replace srmem = 0 if cct\_mempb\_trm==2

replace srmem = 1 if ccc\_mempb\_com==1 & srmem==.

replace srmem = 0 if ccc\_mempb\_com==2 & srmem==.

label variable srmem "Has a doctor ever told you that you have a memory problem?"

generate alzh = 1 if cct\_alzh\_trm==1

replace alzh = 0 if cct\_alzh\_trm==2

replace alzh = 1 if ccc\_alzh\_com==1 & alzh==.

replace alzh = 0 if ccc\_alzh\_com==2 & alzh==.

label variable alzh "Has Alzheimer´s disease"

generate parkinson = 1 if cct\_park\_trm==1

replace parkinson = 0 if cct\_park\_trm==2

replace parkinson = 1 if ccc\_park\_com==1 & parkinson==.

replace parkinson = 0 if ccc\_park\_com==2 & parkinson==.

label variable parkinson "Has Parkinson´s disease"

generate pud = 1 if cct\_ulcr\_trm==1

replace pud = 0 if cct\_ulcr\_trm==2

replace pud = 1 if ccc\_ulcr\_com==1 & pud==.

replace pud = 0 if ccc\_ulcr\_com==2 & pud

label variable pud "Has a doctor ever told you that you have intestinal or stomach ulcers?"

generate colitis = 1 if cct\_ibdibs\_trm==1

replace colitis = 0 if cct\_ibdibs\_trm==2

replace colitis = 1 if ccc\_ibdibs\_com==1 & colitis==.

replace colitis = 0 if ccc\_ibdibs\_com==2 & colitis==.

label variable colitis "Has a doctor ever told you that you have Chron`s, ulcerative colitis or IBS?"

generate bowinc = 1 if cct\_bowinc\_trm==1

replace bowinc = 0 if cct\_bowinc\_trm==2

replace bowinc = 1 if ccc\_bowinc\_com==1 & bowinc==.

replace bowinc = 0 if ccc\_bowinc\_com==2 & bowinc==.

label variable bowinc "Has a doctor ever told you that you have bowel incontinence?"

generate urinc = 1 if cct\_uriinc\_trm==1

replace urinc = 0 if cct\_uriinc\_trm==2

replace urinc = 1 if ccc\_uriinc\_com==1 & urinc==.

replace urinc = 0 if ccc\_uriinc\_com==2 & urinc==.

label variable urinc "Has a doctor ever told you that you experience urinary incontinence?"

generate cataract = 1 if cct\_catar\_trm==1

replace cataract = 0 if cct\_catar\_trm==2

replace cataract = 1 if icq\_catrct\_com==1 & cataract==.

replace cataract = 0 if icq\_catrct\_com==2 & cataract==.

label variable cataract "Has a doctor ever told you that you have a cataract?"

generate glauc = 1 if cct\_glauc\_trm==1

replace glauc = 0 if cct\_glauc\_trm==2

replace glauc = 1 if icq\_glauc\_com==1 & glauc==.

replace glauc = 0 if icq\_glauc\_com==2 & glauc==.

label variable glauc "Has a doctor ever told you that you have glaucoma?"

generate macular = 1 if cct\_macdeg\_trm==1

replace macular = 0 if cct\_macdeg\_trm==2

replace macular = 1 if ccc\_macdeg\_com==1 & macular==.

replace macular = 0 if ccc\_macdeg\_com==2 & macular==.

label variable macular "Has a doctor ever told you that you have macular degeneration?"

generate cancer = 1 if cct\_canc\_trm==1

replace cancer = 0 if cct\_canc\_trm==2

replace cancer = 1 if ccc\_canc\_com==1 & cancer==.

replace cancer = 0 if ccc\_canc\_com==2 & cancer==.

label variable cancer "Has a doctor ever told you that you have cancer?"

generate osteop = 1 if cct\_ostpo\_trm==1

replace osteop = 0 if cct\_ostpo\_trm==2

replace osteop = 1 if ccc\_ostpo\_com==1 & osteop==.

replace osteop = 0 if ccc\_ostpo\_com==2 & osteop==.

label variable osteop "Has a doctor ever told you that you have osteoporosis?"

generate backp = 1 if cct\_bckp\_trm==1

replace backp = 0 if cct\_bckp\_trm==2

replace backp = 1 if ccc\_bckp\_com==1 & backp==.

replace backp = 0 if ccc\_bckp\_com==2 & backp==.

label variable backp "Has a doctor ever told you that you have back problems?"

generate hypothyr = 1 if cct\_uthyr\_trm==1

replace hypothyr = 0 if cct\_uthyr\_trm==2

replace hypothyr = 1 if ccc\_uthyr\_com==1 & hypothyr==.

replace hypothyr = 0 if ccc\_uthyr\_com==2 & hypothyr==.

label variable hypothyr "Has a doctor ever told you that you have hypothyroidism?"

generate hyperthyr = 1 if cct\_othyr\_trm==1

replace hyperthyr = 0 if cct\_othyr\_trm==2

replace hyperthyr = 1 if ccc\_othyr\_com==1 & hyperthyr==.

replace hyperthyr = 0 if ccc\_othyr\_com==2 & hyperthyr==.

label variable hyperthyr "Has a doctor ever told you that you have hyperthyroidism?"

generate kidfail = 1 if cct\_kidn\_trm==1

replace kidfail = 0 if cct\_kidn\_trm==2

replace kidfail = 1 if ccc\_kidn\_com==1 & kidfail==.

replace kidfail = 0 if ccc\_kidn\_com==2 & kidfail==.

label variable kidfail "Has a doctor ever told you that you have kidney disease/failure?"

\*\*\*\*\*Procedures for cognitive tests\*\*\*

\*\*\*\*Cut-off values- lowest 5th percentile for language and school of each test (already considered into the coding), considered as deficit; according to: O’Connell, M. E., Tuokko, H., Kadlec, H., Griffith, L. E., Simard, M., Taler, V., Voll, S., Thompson, M.E., Panyavin, I., Wolfson, C., Kirkland, S., & Raina, P. (2019, May 27). Normative Comparison Standards for Measures of Cognition in the Canadian Longitudinal Study on Aging (CLSA): Does Applying Sample Weights Make a Difference?. Psychological Assessment. Advance online publication. http://dx.doi.org/10.1037/pas0000730\*\*\*\*\*\*\*

\*FIRST: Generate 'school' variable\*

generate school = 0 if ed\_elhs\_trm==1

replace school = 1 if ed\_elhs\_trm==2

replace school = 2 if ed\_elhs\_trm==3

replace school = 0 if ed\_elhs\_com==1

replace school = 1 if ed\_elhs\_com==2

replace school = 2 if ed\_elhs\_com==3

label variable school "What is the highest grade you have ever completed?"

label define school 0 "Grade 8 or lower" 1 "Grade 9-10" 2 "Grade 11-13"

label value school school

\*SECOND: Generate 'language' variable\*

generate language = 1 if startlanguage\_trm=="en"

replace language = 2 if startlanguage\_trm=="fr"

replace language = 1 if startlanguage\_com=="en"

replace language = 2 if startlanguage\_com=="fr"

label variable language "Language"

label define language 1 "English" 2 "French"

label value language lang

\*THIRD: integrate the scores from tracking and comprehensive into one variable\*

egen float mat\_pool = rowtotal(cog\_mat\_score\_com cog\_mat\_score\_trm)

egen float mat\_miss = rowmiss(cog\_mat\_score\_com cog\_mat\_score\_trm)

replace mat\_pool = . if mat\_miss==2

egen float aft\_pool = rowtotal(cog\_aft\_score\_1\_com cog\_aft\_score\_2\_com cog\_aft\_score\_1\_trm cog\_aft\_score\_2\_trm)

egen aftmiss = rowmiss(cog\_aft\_score\_1\_com cog\_aft\_score\_2\_com cog\_aft\_score\_1\_trm cog\_aft\_score\_2\_trm)

replace aft\_pool = . if aftmiss==2

egen float reyi\_pool = rowtotal(cog\_reyi\_score\_com cog\_reyi\_score\_trm)

egen float reyit\_miss = rowmiss (cog\_reyi\_score\_com cog\_reyi\_score\_trm)

replace reyi\_pool = . if reyit\_miss==2

egen float reyii\_pool = rowtotal(cog\_reyii\_score\_trm cog\_reyii\_score\_com)

egen reyiimiss = rowmiss(cog\_reyii\_score\_trm cog\_reyii\_score\_com)

replace reyii\_pool = . if reyiimiss==2

\*FOURTH: make the deficit variable\*

generate exec = 1 if school==0 & language==1 & mat\_pool==0

replace exec = 1 if school==1 & language==1 & mat\_pool==0 & exec==.

replace exec = 1 if school==2 & language==1 & mat\_pool<12 & exec==.

replace exec = 1 if school==0 & language==2 & mat\_pool==0 & exec==.

replace exec = 1 if school==1 & language==2 & mat\_pool==0 & exec==.

replace exec = 1 if school==2 & language==2 & mat\_pool<7 & exec==.

replace exec = 0 if exec==.

replace exec = . if mat\_pool==.

label variable exec "MAT test codified for FI"

generate verbalfl = 1 if aft\_pool<7 & school==0 & language==1

replace verbalfl = 1 if aft\_pool<9 & school==1 & language==1 & verbalfl==.

replace verbalfl = 1 if aft\_pool<11 & school==2 & language==1 & verbalfl==.

replace verbalfl = 1 if aft\_pool<6 & school==0 & language==2 & verbalfl==.

replace verbalfl = 1 if aft\_pool<8 & school==1 & language==2 & verbalfl==.

replace verbalfl = 1 if aft\_pool<10 & school==2 & language==2 & verbalfl==.

replace verbalfl = 0 if verbalfl==.

replace verbalfl = . if aft\_pool==.

label variable verbalfl "Verbal flow test codified for FI"

generate immrec = 1 if reyi\_pool<1 & school==0 & language==1

replace immrec = 1 if reyi\_pool<2 & school==1 & language==1 & immrec==.

replace immrec = 1 if reyi\_pool<3 & school==2 & language==1 & immrec==.

replace immrec = 1 if reyi\_pool<2 & school==0 & language==2 & immrec==.

replace immrec = 1 if reyi\_pool<2 & school==1 & language==2 & immrec==.

replace immrec = 1 if reyi\_pool<3 & school==2 & language==2 & immrec==.

replace immrec = 0 if immrec==.

replace immrec = . if reyi\_pool==.

label variable immrec "Immediate recall test codified for FI"

generate delrec = 1 if reyii\_pool<1 & school==0 & language==1

replace delrec = 1 if reyii\_pool<2 & school==0 & language==1 & delrec==.

replace delrec = 1 if reyii\_pool<3 & school==1 & language==1 & delrec==.

replace delrec = 1 if reyii\_pool<2 & school==0 & language==2 & delrec==.

replace delrec = 1 if reyii\_pool<2 & school==0 & language==2 & delrec==.

replace delrec = 1 if reyii\_pool<3 & school==1 & language==2 & delrec==.

replace delrec = 0 if delrec==.

replace delrec = . if reyii\_pool==.

label variable delrec "Delayed recall test codified for FI"

\*\*\*\*Generating FI\*\*\*\*

egen fi52 = rowtotal(kidfail verbalfl immrec delrec exec dress groom walk bed bath phone transport shop cook housewrk takemed money srh5 srv5 srau5 falls effort lone going pneumonia uti osteoart rheum copd hbp diab cardiop angina ami perivasc stroke tia srmem alzh parkinson pud colitis bowinc urinc cataract glauc macular cancer osteop backp hypothyr hyperthyr)

label variable fi52 "52-item frailty index"

egen fi52miss = rowmiss(kidfail verbalfl immrec delrec exec dress groom walk bed bath phone transport shop cook housewrk takemed money srh5 srv5 srau5 falls effort lone going pneumonia uti osteoart rheum copd hbp diab cardiop angina ami perivasc stroke tia srmem alzh parkinson pud colitis bowinc urinc cataract glauc macular cancer osteop backp hypothyr hyperthyr)

label variable fi52miss "Missing variables for the 52-item frailty index"

replace fi52 = fi52/52 if fi52miss==0

replace fi52 = fi52/51 if fi52miss==1

replace fi52 = fi52/50 if fi52miss==2

replace fi52 = fi52/49 if fi52miss==3

replace fi52 = fi52/48 if fi52miss==4

replace fi52 = fi52/47 if fi52miss==5

replace fi52 = fi52/46 if fi52miss==6

replace fi52 = fi52/45 if fi52miss==7

replace fi52 = fi52/44 if fi52miss==8

replace fi52 = fi52/43 if fi52miss==9

replace fi52 = fi52/42 if fi52miss==10

replace fi52 = . if fi52miss>10