

*LASA FRAILITY INDEX - Document created by Emiel Hoogendijk, April 2020

*Reference: [Hoogendijk EO, Theou O, Rockwood K, Onwuteaka-Philipsen BD, Deeg DJH, Huisman M. Development and validation of a frailty index in the Longitudinal Aging Study Amsterdam. Aging Clin Exp Res 2017;29\(5\):927-33.](#)

*This frailty index may be created at LASA C, D, E, F, G, H, 2B, 3B, I, J. For wave B and MB, please contact: e.hoogendijk@amsterdamumc.nl

*In the current file we use C, for all other waves the syntax has to be adapted with variable names of respective measurement wave.

*LASA files needed: File 025, File 035, File 030, File 036, File 046, File 021, File 034.

*Z004, Z002, Z008 files with general information, such as response, age and demographics.

NOTE: Replace "N:\3 Artikelen\LASA Data" with your own working directory!!.

GET

FILE='N:\3 Artikelen\LASA Data\LASAZ004.SAV'.
DATASET NAME DataSet4 WINDOW=FRONT.

MATCH FILES /FILE=*
/FILE='N:\3 Artikelen\LASA Data\LASAZ002.SAV'
/BY respnr.
exe.

MATCH FILES /FILE=*
/FILE='N:\3 Artikelen\LASA Data\LASAZ008.SAV'
/BY respnr.
exe.

MATCH FILES /FILE=*
/FILE='N:\3 Artikelen\LASA Data\LASAC035.SAV'
/BY respnr.
exe.

MATCH FILES /FILE=*
/FILE='N:\3 Artikelen\LASA Data\LASAC030.SAV'
/BY respnr.
exe.

MATCH FILES /FILE=*
/FILE='N:\3 Artikelen\LASA Data\LASAC036.SAV'
/BY respnr.
exe.

MATCH FILES /FILE=*
/FILE='N:\3 Artikelen\LASA Data\LASAC025.SAV'
/BY respnr.
exe.

MATCH FILES /FILE=*
/FILE='N:\3 Artikelen\LASA Data\LASAC046.SAV'
/BY respnr.
exe.

MATCH FILES /FILE=*
/FILE='N:\3 Artikelen\LASA Data\LASAC021.SAV'
/BY respnr.
exe.

```
MATCH FILES /FILE=*  
/FILE='N:\3 Artikelen\LASA Data\LASAC034.SAV'  
/BY respnr.  
exe.
```

*First select the people needed (in this case we use Wave C).
select if (not missing(cage)).
freq cresint.

*Explanation: there are 2545 respondents in LASA C, of which 2302 started the main interview (face to face interview).

*The frailty index can only be calculated for people who participated in the main interview.

*Diseases file 035.

```
freq chart01.  
compute CFI_1=-9.  
if (chart01=0) CFI_1=0.  
if (chart01=1) CFI_1=1.  
if (chart01=2) CFI_1=1.  
if (chart01=3) CFI_1=1.  
var labels CFI_1 "CFI_1 Cardiac disease".  
value labels CFI_1 (0) 'no' (1) 'yes'.  
missing value CFI_1 (-9).  
freq CFI_1.
```

```
compute CFI_2=-9.  
if (cartvei1=0) CFI_2=0.  
if (cartvei1=1) CFI_2=1.  
if (cartvei1=2) CFI_2=1.  
if (cartvei1=3) CFI_2=1.  
var labels CFI_2 "CFI_2 Peripheral arterial disease".  
value labels CFI_2 (0) 'no' (1) 'yes'.  
missing value CFI_2 (-9).  
freq CFI_2.
```

```
compute CFI_3=-9.  
if (ccva01=0) CFI_3=0.  
if (ccva01=1) CFI_3=1.  
if (ccva01=2) CFI_3=1.  
if (ccva01=3) CFI_3=1.  
var labels CFI_3 "CFI_3 Stroke".  
value labels CFI_3 (0) 'no' (1) 'yes'.  
missing value CFI_3 (-9).  
freq CFI_3.
```

```
compute CFI_4=-9.  
if (cdiabe01=0) CFI_4=0.  
if (cdiabe01=1) CFI_4=1.  
if (cdiabe01=2) CFI_4=1.  
if (cdiabe01=3) CFI_4=1.  
var labels CFI_4 "CFI_4 Diabetes".  
value labels CFI_4 (0) 'no' (1) 'yes'.  
missing value CFI_4 (-9).  
freq CFI_4.
```

```
compute CFI_5=-9.  
if (ccara01=0) CFI_5=0.  
if (ccara01=1) CFI_5=1.  
if (ccara01=2) CFI_5=1.
```

```
if (ccara01=3) CFI_5=1.
var labels CFI_5 "CFI_5 Lung disease".
value labels CFI_5 (0) 'no' (1) 'yes'.
missing value CFI_5 (-9).
freq CFI_5.
```

```
compute CFI_6=-9.
if (ccancer1=0) CFI_6=0.
if (ccancer1=1) CFI_6=1.
if (ccancer1=2) CFI_6=1.
if (ccancer1=3) CFI_6=1.
var labels CFI_6 "CFI_6 Cancer".
value labels CFI_6 (0) 'no' (1) 'yes'.
missing value CFI_6 (-9).
freq CFI_6.
```

```
compute CFI_7=-9.
if (crheum01=0) CFI_7=0.
if (crheum01=1) CFI_7=1.
if (crheum01=2) CFI_7=1.
if (crheum01=3) CFI_7=1.
var labels CFI_7 "CFI_7 Arthritis".
value labels CFI_7 (0) 'no' (1) 'yes'.
missing value CFI_7 (-9).
freq CFI_7.
```

```
freq chbd1.
compute CFI_8=-9.
if (chbd1=1) CFI_8=0.
if (chbd1=2) CFI_8=1.
var labels CFI_8 "CFI_8 Hypertension".
value labels CFI_8 (0) 'no' (1) 'yes'.
missing value CFI_8 (-9).
freq CFI_8.
```

```
freq cothsi01.
compute CFI_9=-9.
if (cothsi01=1) CFI_9=0.
if (cothsi01=2) CFI_9=1.
var labels CFI_9 "CFI_9 Other chronic disease 1".
value labels CFI_9 (0) 'no' (1) 'yes'.
missing value CFI_9 (-9).
freq CFI_9.
```

```
freq cothsi07.
compute CFI_10=-9.
if (cothsi01=1) CFI_10=0.
if (cothsi07=1) CFI_10=0.
if (cothsi07=2) CFI_10=1.
var labels CFI_10 "CFI_10 Other chronic disease 2".
value labels CFI_10 (0) 'no' (1) 'yes'.
missing value CFI_10 (-9).
freq CFI_10.
```

```
freq cincon1.
compute CFI_11=-9.
if (cincon1=0) CFI_11=0.
if (cincon1=1) CFI_11=0.
if (cincon1=2) CFI_11=1.
if (cincon1=3) CFI_11=1.
```

```
var labels CFI_11 "CFI_11 Incontinence".
value labels CFI_11 (0) 'no' (1) 'yes'.
missing value CFI_11 (-9).
freq CFI_11.
```

*File 030 Functional limitations.

```
freq cadl1a.
compute CFI_12=-9.
if (cadl1a=5) CFI_12=0.
if (cadl1a=4) CFI_12=0.25.
if (cadl1a=3) CFI_12=0.50.
if (cadl1a=2) CFI_12=0.75.
if (cadl1a=1) CFI_12=1.
var labels CFI_12 "CFI_12 Staircase 15 steps without resting".
value labels CFI_12 (0) 'Yes' (0.25) 'Yes, some difficulty' (0.50) 'Yes, much difficulty' (0.75) 'only with help' (1) 'no'.
missing value CFI_12 (-9).
freq CFI_12.
```

```
freq cadl2a.
compute CFI_13=-9.
if (cadl2a=5) CFI_13=0.
if (cadl2a=4) CFI_13=0.25.
if (cadl2a=3) CFI_13=0.50.
if (cadl2a=2) CFI_13=0.75.
if (cadl2a=1) CFI_13=1.
var labels CFI_13 "CFI_13 Dress/undress yourself".
value labels CFI_13 (0) 'Yes' (0.25) 'Yes, some difficulty' (0.50) 'Yes, much difficulty' (0.75) 'only with help' (1) 'no'.
missing value CFI_13 (-9).
freq CFI_13.
```

```
freq cadl3a.
compute CFI_14=-9.
if (cadl3a=5) CFI_14=0.
if (cadl3a=4) CFI_14=0.25.
if (cadl3a=3) CFI_14=0.50.
if (cadl3a=2) CFI_14=0.75.
if (cadl3a=1) CFI_14=1.
var labels CFI_14 "CFI_14 Sit down/stand up from chair".
value labels CFI_14 (0) 'Yes' (0.25) 'Yes, some difficulty' (0.50) 'Yes, much difficulty' (0.75) 'only with help' (1) 'no'.
missing value CFI_14 (-9).
freq CFI_14.
```

```
freq cadl4a.
compute CFI_15=-9.
if (cadl4a=5) CFI_15=0.
if (cadl4a=4) CFI_15=0.25.
if (cadl4a=3) CFI_15=0.50.
if (cadl4a=2) CFI_15=0.75.
if (cadl4a=1) CFI_15=1.
var labels CFI_15 "CFI_15 Cut own toenails".
value labels CFI_15 (0) 'Yes' (0.25) 'Yes, some difficulty' (0.50) 'Yes, much difficulty' (0.75) 'only with help' (1) 'no'.
missing value CFI_15 (-9).
freq CFI_15.
```

```
freq cadl5a.
```

```
compute CFI_16=-9.
if (cadl5a=5) CFI_16=0.
if (cadl5a=4) CFI_16=0.25.
if (cadl5a=3) CFI_16=0.50.
if (cadl5a=2) CFI_16=0.75.
if (cadl5a=1) CFI_16=1.
var labels CFI_16 "CFI_16 Walking outside 5 minutes without stopping".
value labels CFI_16 (0) 'Yes' (0.25) 'Yes, some difficulty' (0.50) 'Yes, much difficulty' (0.75) 'only with help' (1) 'no'.
missing value CFI_16 (-9).
freq CFI_16.
```

```
freq cadl6a.
compute CFI_17=-9.
if (cadl6a=5) CFI_17=0.
if (cadl6a=4) CFI_17=0.25.
if (cadl6a=3) CFI_17=0.50.
if (cadl6a=2) CFI_17=0.75.
if (cadl6a=1) CFI_17=1.
var labels CFI_17 "CFI_17 Use of transportation".
value labels CFI_17 (0) 'Yes' (0.25) 'Yes, some difficulty' (0.50) 'Yes, much difficulty' (0.75) 'only with help' (1) 'no'.
missing value CFI_17 (-9).
freq CFI_17.
```

*File 036 Self rated health.

```
freq csubhea1.
compute CFI_18=-9.
if (csubhea1=1) CFI_18=0.
if (csubhea1=2) CFI_18=0.25.
if (csubhea1=3) CFI_18=0.50.
if (csubhea1=4) CFI_18=0.75.
if (csubhea1=5) CFI_18=1.
var labels CFI_18 "CFI_18 SRH How is your health in general?".
value labels CFI_18 (0) 'Excellent' (0.25) 'Good' (0.50) 'Fair' (0.75) 'Sometimes good/bad' (1) 'Poor'.
missing value CFI_18 (-9).
freq CFI_18.
```

```
freq csubhea2.
compute CFI_19=-9.
if (csubhea2=1) CFI_19=0.
if (csubhea2=2) CFI_19=0.
if (csubhea2=3) CFI_19=0.33.
if (csubhea2=4) CFI_19=0.66.
if (csubhea2=5) CFI_19=1.
var labels CFI_19 "CFI_19 SRH How is your health compared to other people of the same age?".
value labels CFI_19 (0) 'much better / a little better' (0.33) 'just as good' (0.66) 'a little worse' (1) 'Much worse'.
missing value CFI_19 (-9).
freq CFI_19.
```

*File 025 Items CESD.

```
freq ccesd06.
compute CFI_20=-9.
if (ccesd06=0) CFI_20=0.
if (ccesd06=1) CFI_20=0.33.
if (ccesd06=2) CFI_20=0.66.
if (ccesd06=3) CFI_20=1.
var labels CFI_20 "CFI_20 CESD Depressed".
```

```
value labels CFI_20 (0) 'rarely or never' (0.33) 'some of the time' (0.66) 'occasionally' (1) 'mostly or
always'.
missing value CFI_20 (-9).
freq CFI_20.
```

```
freq ccesd07.
compute CFI_21=-9.
if (ccesd07=0) CFI_21=0.
if (ccesd07=1) CFI_21=0.33.
if (ccesd07=2) CFI_21=0.66.
if (ccesd07=3) CFI_21=1.
var labels CFI_21 "CFI_21 CESD Feel everything is an effort".
value labels CFI_21 (0) 'rarely or never' (0.33) 'some of the time' (0.66) 'occasionally' (1) 'mostly or
always'.
missing value CFI_21 (-9).
freq CFI_21.
```

```
freq ccesd12.
compute CFI_22=-9.
if (ccesd12=3) CFI_22=0.
if (ccesd12=2) CFI_22=0.33.
if (ccesd12=1) CFI_22=0.66.
if (ccesd12=0) CFI_22=1.
var labels CFI_22 "CFI_22 CESD Feel happy".
value labels CFI_22 (0) 'mostly or always' (0.33) 'occasionally' (0.66) 'some of the time' (1) 'rarely or
never'.
missing value CFI_22 (-9).
freq CFI_22.
```

```
freq ccesd14.
compute CFI_23=-9.
if (ccesd14=0) CFI_23=0.
if (ccesd14=1) CFI_23=0.33.
if (ccesd14=2) CFI_23=0.66.
if (ccesd14=3) CFI_23=1.
var labels CFI_23 "CFI_23 CESD Feel lonely".
value labels CFI_23 (0) 'rarely or never' (0.33) 'some of the time' (0.66) 'occasionally' (1) 'mostly or
always'.
missing value CFI_23 (-9).
freq CFI_23.
```

```
freq ccesd16.
compute CFI_24=-9.
if (ccesd16=3) CFI_24=0.
if (ccesd16=2) CFI_24=0.33.
if (ccesd16=1) CFI_24=0.66.
if (ccesd16=0) CFI_24=1.
var labels CFI_24 "CFI_24 CESD Enjoy life".
value labels CFI_24 (0) 'mostly or always' (0.33) 'occasionally' (0.66) 'some of the time' (1) 'rarely or
never'.
missing value CFI_24 (-9).
freq CFI_24.
```

```
freq ccesd20.
compute CFI_25=-9.
if (ccesd20=0) CFI_25=0.
if (ccesd20=1) CFI_25=0.33.
if (ccesd20=2) CFI_25=0.66.
if (ccesd20=3) CFI_25=1.
var labels CFI_25 "CFI_25 CESD Could not get going".
```

value labels CFI_25 (0) 'rarely or never' (0.33) 'some of the time' (0.66) 'occasionally' (1) 'mostly or always'.
missing value CFI_25 (-9).
freq CFI_25.

*File 046 Physical activity.

* Calculate the scale no (0 activities) low (1-2 activities), medium (3-4 activities) and high 5 or more).

freq clphysa06.

compute cact1=-9.

if (clphysa06=1) cact1=0.

if (clphysa06=2) cact1=1.

missing value cact1 (-9).

freq cact1.

freq clphysa10.

compute cact2=-9.

if (clphysa10=1) cact2=0.

if (clphysa10=2) cact2=1.

missing value cact2 (-9).

freq cact2.

freq clphysa15.

compute cact3=-9.

if (clphysa14=1) cact3=0.

if (clphysa15=1) cact3=0.

if (clphysa15=2) cact3=1.

missing value cact3 (-9).

freq cact3.

freq clphysa21.

compute cact4=-9.

if (clphysa21=1) cact4=0.

if (clphysa21=2) cact4=1.

missing value cact4 (-9).

freq cact4.

freq clphysa25.

compute cact5=-9.

if (clphysa21=1) cact5=0.

if (clphysa25=1) cact5=0.

if (clphysa25=2) cact5=1.

missing value cact5 (-9).

freq cact5.

freq clphysa31.

compute cact6=-9.

if (clphysa31=1) cact6=0.

if (clphysa31=2) cact6=1.

missing value cact6 (-9).

freq cact6.

freq clphysa35.

compute cact7=-9.

if (clphysa35=1) cact7=0.

if (clphysa35=2) cact7=1.

missing value cact7 (-9).

freq cact7.

COUNT cmissactiv= cact1 cact2 cact3 cact4 cact5 cact6 cact7 (MISSING).

VARIABLE LABELS cmissactiv 'Missings physical activity LASA C'.

```
fre cmissactiv.
```

```
count cactiv=cact1 cact2 cact3 cact4 cact5 cact6 cact7 (1).
```

```
if (cmissactiv >=3) cactiv =-9.
```

```
missing value cactiv(-9).
```

```
EXECUTE.
```

```
freq cactiv.
```

```
compute CFI_26=-9.
```

```
if (cactiv=0) CFI_26=1.
```

```
if (cactiv=1) CFI_26=0.66.
```

```
if (cactiv=2) CFI_26=0.66.
```

```
if (cactiv=3) CFI_26=0.33.
```

```
if (cactiv=4) CFI_26=0.33.
```

```
if (cactiv>=5) CFI_26=0.
```

```
var labels CFI_26 "CFI_26 Physical activity in past 2 weeks".
```

```
value labels CFI_26 (0) 'High, 5 or more activities' (0.33) 'Medium, 3-4 activities' (0.66) 'Low, 1-2
```

```
activities' (1) 'No activity'.
```

```
missing value CFI_26 (-9).
```

```
freq CFI_26.
```

```
*File 021 Memory and MMSE.
```

```
freq cmemory1.
```

```
compute CFI_27=-9.
```

```
if (cmemory1=1) CFI_27=0.
```

```
if (cmemory1=2) CFI_27=1.
```

```
var labels CFI_27 "CFI_27 Memory complaints".
```

```
value labels CFI_27 (0) 'no' (1) 'yes'.
```

```
missing value CFI_27 (-9).
```

```
freq CFI_27.
```

```
*Orientation time.
```

```
freq cmmse01.
```

```
compute corien1=-9.
```

```
if (cmmse01=1) corien1=0.
```

```
if (cmmse01=2) corien1=1.
```

```
missing value corien1 (-9).
```

```
freq corien1.
```

```
freq cmmse02.
```

```
compute corien2=-9.
```

```
if (cmmse02=1) corien2=0.
```

```
if (cmmse02=2) corien2=1.
```

```
missing value corien2 (-9).
```

```
freq corien2.
```

```
freq cmmse03.
```

```
compute corien3=-9.
```

```
if (cmmse03=1) corien3=0.
```

```
if (cmmse03=2) corien3=1.
```

```
missing value corien3 (-9).
```

```
freq corien3.
```

```
freq cmmse04.
```

```
compute corien4=-9.
```

```
if (cmmse04=1) corien4=0.
```

```
if (cmmse04=2) corien4=1.
```

```
missing value corien4 (-9).
```

```
freq corien4.
```



```
freq cmmse05.  
compute corien5=-9.  
if (cmmse05=1) corien5=0.  
if (cmmse05=2) corien5=1.  
missing value corien5 (-9).  
freq corien5.
```

```
COUNT cmissmtime= corien1 corien2 corien3 corien4 corien5 (MISSING).  
VARIABLE LABELS cmissmtime 'Missings MMSE orientation time'.  
fre cmissmtime.
```

```
count cmtime=corien1 corien2 corien3 corien4 corien5 (1).  
if (cmissmtime >=3) cmtime =-9.  
missing value cmtime(-9).  
EXECUTE.  
freq cmtime.
```

```
compute CFI_28=-9.  
if (cmtime=5) CFI_28=0.  
if (cmtime=4) CFI_28=0.50.  
if (cmtime=3) CFI_28=1.  
if (cmtime=2) CFI_28=1.  
if (cmtime=1) CFI_28=1.  
if (cmtime=0) CFI_28=1.  
var labels CFI_28 "CFI_28 MMSE Orientation time".  
value labels CFI_28 (0) '5 correct' (0.50) '1 wrong' (1) '2 or more wrong'.  
missing value CFI_28 (-9).  
freq CFI_28.
```

```
*Orientation place.  
freq cmmse06.  
compute corienp1=-9.  
if (cmmse06=1) corienp1=0.  
if (cmmse06=2) corienp1=1.  
missing value corienp1 (-9).  
freq corienp1.
```

```
freq cmmse07.  
compute corienp2=-9.  
if (cmmse07=1) corienp2=0.  
if (cmmse07=2) corienp2=1.  
missing value corienp2 (-9).  
freq corienp2.
```

```
freq cmmse08.  
compute corienp3=-9.  
if (cmmse08=1) corienp3=0.  
if (cmmse08=2) corienp3=1.  
missing value corienp3 (-9).  
freq corienp3.
```

```
freq cmmse09.  
compute corienp4=-9.  
if (cmmse09=1) corienp4=0.  
if (cmmse09=2) corienp4=1.  
missing value corienp4 (-9).  
freq corienp4.
```

```
freq cmmse10.  
compute corienp5=-9.
```

```
if (cmmse10=1) corienp5=0.
if (cmmse10=2) corienp5=1.
missing value corienp5 (-9).
freq corienp5.
```

```
COUNT cmissmplace= corienp1 corienp2 corienp3 corienp4 corienp5 (MISSING).
VARIABLE LABELS cmissmplace 'Missings MMSE orientation place'.
fre cmissmplace.
```

```
count cmplace=corienp1 corienp2 corienp3 corienp4 corienp5 (1).
if (cmissmplace >=3) cmplace =-9.
missing value cmplace(-9).
EXECUTE.
freq cmplace.
```

```
compute CFI_29=-9.
if (cmplace=5) CFI_29=0.
if (cmplace=4) CFI_29=0.50.
if (cmplace=3) CFI_29=1.
if (cmplace=2) CFI_29=1.
if (cmplace=1) CFI_29=1.
if (cmplace=0) CFI_29=1.
var labels CFI_29 "CFI_29 MMSE Orientation place".
value labels CFI_29 (0) '5 correct' (0.50) '1 wrong' (1) '2 or more wrong'.
missing value CFI_29 (-9).
freq CFI_29.
```

```
*MMSE attention.
freq cmmse13.
compute CFI_30=-9.
if (cmmse13=5) CFI_30=0.
if (cmmse13=4) CFI_30=0.50.
if (cmmse13=3) CFI_30=0.50.
if (cmmse13=2) CFI_30=1.
if (cmmse13=1) CFI_30=1.
if (cmmse13=0) CFI_30=1.
var labels CFI_30 "CFI_30 MMSE Attention".
value labels CFI_30 (0) '5 correct' (0.50) '1 or 2 wrong' (1) '3 or more wrong'.
missing value CFI_30 (-9).
freq CFI_30.
```

```
*MMSE Recall.
freq cmmse14.
compute CFI_31=-9.
if (cmmse14=3) CFI_31=0.
if (cmmse14=2) CFI_31=0.50.
if (cmmse14=1) CFI_31=1.
if (cmmse14=0) CFI_31=1.
var labels CFI_31 "CFI_31 MMSE Recall".
value labels CFI_31 (0) '3 correct' (0.50) '2 correct' (1) '1 or 0 correct'.
missing value CFI_31 (-9).
freq CFI_31.
```

```
*File 034 Gait speed.
```

```
freq cwalk01.
compute cwalkmis =1.
if (cwalk01=1) cwalkmis=0.
if (cwalk01=2) cwalkmis=0.
if (cwalk01=3) cwalkmis=0.
```

```
if (cwalk01=4) cwalkmis=0.
if (cwalk01=5) cwalkmis=0.
freq cwalkmis.
```

```
compute CFI_32=0.
if (cwalk19=1 or cwalk19=2 ) CFI_32=-9.
if (cwalkmis=1) CFI_32=-9.
if (cwalk04 >10 ) CFI_32=1.
var labels CFI_32 "CFI_32 Gait speed".
value labels CFI_32 (0) 'Normal' (1) 'Slow or physically unable'.
missing value CFI_32 (-9).
freq CFI_32.
```

*COMPUTATION OF LASA FRAILITY INDEX.

```
*First dermine number of missing values.
compute Cmissing_number_FI32= NMISS(CFI_1, CFI_2, CFI_3, CFI_4, CFI_5, CFI_6, CFI_7, CFI_8,
CFI_9, CFI_10, CFI_11, CFI_12, CFI_13,
CFI_14, CFI_15, CFI_16, CFI_17, CFI_18, CFI_19, CFI_20, CFI_21, CFI_22, CFI_23, CFI_24,
CFI_25, CFI_26, CFI_27, CFI_28, CFI_29, CFI_30,
CFI_31, CFI_32).
var labels Cmissing_number_FI32 "Number of missings frailty index 32 items LASA C".
exe.
freq Cmissing_number_FI32.
```

```
*Calculate deficits.
compute Ctotal_FI32= sum (CFI_1, CFI_2, CFI_3, CFI_4, CFI_5, CFI_6, CFI_7, CFI_8, CFI_9,
CFI_10, CFI_11, CFI_12, CFI_13,
CFI_14, CFI_15, CFI_16, CFI_17, CFI_18, CFI_19, CFI_20, CFI_21, CFI_22, CFI_23, CFI_24,
CFI_25, CFI_26, CFI_27, CFI_28,
CFI_29, CFI_30, CFI_31, CFI_32).
exe.
freq Ctotal_FI32.
```

```
*First FI with complete cases.
DO IF Cmissing_number_FI32=0.
Compute CFI_complete_cases32=Ctotal_FI32/32.
END IF.
EXECUTE.
freq CFI_complete_cases32.
desc CFI_complete_cases32.
```

```
*Decide maximum number of missings and calculate final LASA frailty index score.
IF (Cmissing_number_FI32 <=6) CFI_corrected32= Ctotal_FI32/(32-Cmissing_number_FI32).
var labels CFI_corrected32 'LASA C - Frailty index 32 items (with maximum of 6 (=20%) missings)'.
EXECUTE.
freq CFI_corrected32.
desc CFI_corrected32.
```

```
*Frailty dichotomous (0.25 or higher = frail).
IF (CFI_corrected32 ge 0.25) FI_binary_25cut=1.
IF (CFI_corrected32 lt 0.25) FI_binary_25cut=0.
var labels FI_binary_25cut 'Frail no/yes (0.25 cutoff)'.
freq FI_binary_25cut.
```

```
*Multiply by 100 for Cox regression, to be able to interpret the HR as 0.01 change in FI score.
compute CFI32_100 = CFI_corrected32*100.
var labels CFI32_100 'LASA-FI 32 items *100'.
freq CFI32_100.
```