



# Mortality among drug users: Guidelines for carrying out, analysing and reporting key figures 2012

EMCDDA standard protocol to collect data and report figures  
for the mortality component of the Key indicator 'DRD and mortality'  
by the Standard Reitox templates

The full cohort guidelines as well as the template of Standard Table 18 (ST18), the SPSS® and Stata® scripts and the MS® Excel files necessary to compute the Standard Table ST18 are available from

<http://www.emcdda.europa.eu/themes/key-indicators/drd>

## SPSS® script<sup>1</sup>

### INFORMATION NEEDED:

basic datafile named 'st18\_start.sav' containing:  
access\_id: identification number  
birth\_date: date of birth (mm/dd/yyyy)  
gender: Male/Female (M / F)  
vital\_stat: outcome parameter; 1 death, 2 alive  
vital\_stat\_date: date of vital status assesment, date of death, date of loss to follow up  
entry\_date: date of enrolment.

\*/Syntax file consists of three parts:

I: descriptive statistics  
II: breakdown of observation time by year  
III: breakdown of observationtime by 5 yr age category per year  
IV: annual files are merged resulting in one file (one record per calenderyear)  
V: number of deaths are attributed to each year and age-category  
VI: results: personyears and number of death by year, 5-yr age categories and gender.

\*/This example file runs 8 years from 1/1/2000 to 31/12/2008.

\*/IF YOUR STUDYPERIOD STARTS AT ANOTHER YEAR PLEASE CHANGE "2000" (sentence 77) into the first year of the studyperiod.

\*/CHANGE NAME OF FILES AT "GET FILE" OR "SAVE OOUTFILE " .

get file 'C:\standard\_cohort\standard\_cohort.sav'.  
dataset name st18\_start.

\*/calculation of observationtime.

```
compute age_entry=(entry_date-birth_date)/(60*60*24*365.25).  
var lab age_entry 'age at enrollment'.  
if (vital_stat_date gt death_date)vital_stat_date=death_date.  
compute age_end=(vital_stat_date-birth_date)/(60*60*24*365.25).  
var lab age_end 'age at end of observationperiod'.  
compute yar_total=(vital_stat_date - entry_date)/(60*60*24*365.25).  
var lab yar_total 'total observationtime in years'.
```

<sup>1</sup> This script was developed and updated by Marcel Buster in 2011 as part of the cohort guidelines.

descr age\_entry age\_end yar\_total.

sort cases by yar\_total (A).

\*/check data in case of negative observationtimes; lowest observationtime appears at the top of data file /\*.

\*/I: Descriptive statistics.

fre gender vital\_stat PRIM\_DRUG DEATH\_CODE DEATH\_CAUSE.

descr age\_entry age\_end yar\_total.

means age\_entry by gender.

cross vital\_stat by gender.

means age\_entry by vital\_stat.

means yar\_total by gender /cell=sum.

cross death\_code by icd9or10.

compute age\_cat=trunc(age\_entry/5).

recode age\_cat (14 thru highest=14).

val lab age\_cat 3 '15-19' 4 '20-24' 5 '25-29' 6 '30-34' 7 '35-39' 8 '40-44' 9 '45-49' 10 '50-54' 11 '55-59' 12 '60-64' 13 '65-69' 14 '70+'.

cross age\_cat by vital\_stat.

\*/cumulative survival probability.

KM

yar\_total /STATUS=vital\_stat (1)

/PRINT MEAN

/PLOT SURVIVAL .

\*/II: breakdown of observation time by year.

\*/ CHANGE THE DATA UNDERNEATH starting with the first year of enrolment,

add years if observationtime is longer than eight years.

compute startjr=2000.

compute jr1=startjr.

compute jr2=startjr+1.

compute jr3=startjr+2.

compute jr4=startjr+3.

compute jr5=startjr+4.

compute jr6=startjr+5.

compute jr7=startjr+6.

compute jr8=startjr+7.

compute jr9=startjr+8.

COMPUTE januar\_yr1 = DATE.DMY(01,01, jr1).

EXECUTE .

COMPUTE januar\_yr2 = DATE.DMY(01,01, jr2) .

EXECUTE .

COMPUTE januar\_yr3= DATE.DMY(01,01, jr3) .

EXECUTE .

COMPUTE januar\_yr4= DATE.DMY(01,01, jr4) .

EXECUTE .

COMPUTE januar\_yr5= DATE.DMY(01,01, jr5).

EXECUTE .

COMPUTE januar\_yr6= DATE.DMY(01,01,jr6).

EXECUTE .

COMPUTE januar\_yr7= DATE.DMY(01,01,jr7).

EXECUTE .

COMPUTE januar\_yr8= DATE.DMY(01,01,jr8).

EXECUTE .

COMPUTE januar\_yr9= DATE.DMY(01,01,jr9).

EXECUTE .

compute time\_yr1=0.

compute timeyr=januar\_yr2-januar\_yr1.

if (entry\_date lt januar\_yr1 and vital\_stat\_date ge januar\_yr2)time\_yr1=(januar\_yr2-januar\_yr1)/(timeyr).

if (entry\_date ge januar\_yr1 and entry\_date lt januar\_yr2 and vital\_stat\_date ge januar\_yr2)time\_yr1=(januar\_yr2-entry\_date)/(timeyr).

if (entry\_date ge januar\_yr1 and vital\_stat\_date lt januar\_yr2)time\_yr1=(vital\_stat\_date-entry\_date)/(timeyr).

if (entry\_date lt januar\_yr1 and vital\_stat\_date ge januar\_yr1 and vital\_stat\_date lt januar\_yr2)time\_yr1=(vital\_stat\_date-januar\_yr1)/(timeyr).

descr time\_yr1/stat=all.

compute time\_yr2=0.

compute timeyr=januar\_yr3-januar\_yr2.

if (entry\_date lt januar\_yr2 and vital\_stat\_date ge januar\_yr3)time\_yr2=(januar\_yr3-januar\_yr2)/(timeyr).

if (entry\_date ge januar\_yr2 and entry\_date lt januar\_yr3 and vital\_stat\_date ge januar\_yr3)time\_yr2=(januar\_yr3-entry\_date)/(timeyr).

if (entry\_date ge januar\_yr2 and vital\_stat\_date lt januar\_yr3)time\_yr2=(vital\_stat\_date-entry\_date)/(timeyr).

if (entry\_date lt januar\_yr2 and vital\_stat\_date ge januar\_yr2 and vital\_stat\_date lt januar\_yr3)time\_yr2=(vital\_stat\_date-januar\_yr2)/(timeyr).

descr time\_yr2/stat=all.

compute time\_yr3=0.

compute timeyr=januar\_yr4-januar\_yr3.

```

if (entry_date lt januar_yr3 and vital_stat_date ge januar_yr4)time_yr3=(januar_yr4-januar_yr3)/(timeyr).
if (entry_date ge januar_yr3 and entry_date lt januar_yr4 and vital_stat_date ge januar_yr4)time_yr3=(januar_yr4-entry_date)/(timeyr).
if (entry_date ge januar_yr3 and vital_stat_date lt januar_yr4)time_yr3=(vital_stat_date-entry_date)/(timeyr).
if (entry_date lt januar_yr3 and vital_stat_date ge januar_yr3 and vital_stat_date lt januar_yr4)time_yr3=(vital_stat_date-januar_yr3)/(timeyr).
descr time_yr3/stat=all.

```

```

compute time_yr4=0.
compute timeyr=januar_yr5-januar_yr4.
if (entry_date lt januar_yr4 and vital_stat_date ge januar_yr5)time_yr4=(januar_yr5-januar_yr4)/(timeyr).
if (entry_date ge januar_yr4 and entry_date lt januar_yr5 and vital_stat_date ge januar_yr5)time_yr4=(januar_yr5-entry_date)/(timeyr).
if (entry_date ge januar_yr4 and vital_stat_date lt januar_yr5)time_yr4=(vital_stat_date-entry_date)/(timeyr).
if (entry_date lt januar_yr4 and vital_stat_date ge januar_yr4 and vital_stat_date lt januar_yr5)time_yr4=(vital_stat_date-januar_yr4)/(timeyr).
descr time_yr4/stat=all.

```

```

compute time_yr5=0.
compute timeyr=januar_yr6-januar_yr5.
if (entry_date lt januar_yr5 and vital_stat_date ge januar_yr6)time_yr5=(januar_yr6-januar_yr5)/(timeyr) .
if (entry_date ge januar_yr5 and entry_date lt januar_yr6 and vital_stat_date ge januar_yr6)time_yr5=(januar_yr6-entry_date)/(timeyr).
if (entry_date ge januar_yr5 and vital_stat_date lt januar_yr6)time_yr5=(vital_stat_date-entry_date)/(timeyr).
if (entry_date lt januar_yr5 and vital_stat_date ge januar_yr5 and vital_stat_date lt januar_yr6)time_yr5=(vital_stat_date-januar_yr5)/(timeyr).
descr time_yr5/stat=all.

```

```

compute time_yr6=0.
compute timeyr=januar_yr7-januar_yr6.
if (entry_date lt januar_yr6 and vital_stat_date ge januar_yr7)time_yr6=(januar_yr7-januar_yr6)/(timeyr) .
if (entry_date ge januar_yr6 and entry_date lt januar_yr7 and vital_stat_date ge januar_yr7)time_yr6=(januar_yr7-entry_date)/(timeyr).
if (entry_date ge januar_yr6 and vital_stat_date lt januar_yr7)time_yr6=(vital_stat_date-entry_date)/(timeyr).
if (entry_date lt januar_yr6 and vital_stat_date ge januar_yr6 and vital_stat_date lt januar_yr7)time_yr6=(vital_stat_date-januar_yr6)/(timeyr).
descr time_yr6/stat=all.

```

```

compute time_yr7=0.
compute timeyr=januar_yr8-januar_yr7.
if (entry_date lt januar_yr7 and vital_stat_date ge januar_yr8)time_yr7=(januar_yr8-januar_yr7)/(timeyr) .
if (entry_date ge januar_yr7 and entry_date lt januar_yr8 and vital_stat_date ge januar_yr8)time_yr7=(januar_yr8-entry_date)/(timeyr).
if (entry_date ge januar_yr7 and vital_stat_date lt januar_yr8)time_yr7=(vital_stat_date-entry_date)/(timeyr).
if (entry_date lt januar_yr7 and vital_stat_date ge januar_yr7 and vital_stat_date lt januar_yr8)time_yr7=(vital_stat_date-januar_yr7)/(timeyr).
descr time_yr7/stat=all.

```

```

compute time_yr8=0.
compute timeyr=januar_yr9-januar_yr8.
if (entry_date lt januar_yr8 and vital_stat_date ge januar_yr9)time_yr8=(januar_yr9-januar_yr8)/(timeyr) .
if (entry_date ge januar_yr8 and entry_date lt januar_yr9 and vital_stat_date ge januar_yr9)time_yr8=(januar_yr9-entry_date)/(timeyr).
if (entry_date ge januar_yr8 and vital_stat_date lt januar_yr9)time_yr8=(vital_stat_date-entry_date)/(timeyr).
if (entry_date lt januar_yr8 and vital_stat_date ge januar_yr8 and vital_stat_date lt januar_yr9)time_yr8=(vital_stat_date-januar_yr8)/(timeyr).
descr time_yr8/stat=all.

```

```

compute contr= time_yr1 +time_yr2+ time_yr3+ time_yr4 +time_yr5+time_yr6+time_yr7+time_yr8.
descr contr yar_total/stat=sum.
compute dif= yar_total -contr.
descr dif.

```

\*/dif (difference) should be zero; minor differences may be due to leap year calculation in yar\_total /\*.  
sort cases by dif (D).

\*/in case there is some difference, those records that differ will be at the top of the data file /\*.  
\*/CHANGE NAME AND DIRECTORY TO WHICH THE DATA SHOULD BE SAVED.

```

SAVE OUTFILE='C:\standard_cohort\timetotal.sav' /drop jr1 jr2 jr3 jr4 jr5 jr6 jr7 jr8 jr9 contr dif timeyr
/COMPRESSED.
dataset close st18_start.

```

```

*/CHANGE NAME OF FILE.
get file 'C:\standard_cohort\timetotal.sav' .
dataset name timetotal.

```

```

sel if (time_yr1 gt 0).
compute age1=age_entry.
compute age2=age1+time_yr1.
descr age1 age2/stat=all.
compute time1014=0.
if (age1 ge 10 and age1 lt 15 and age2 lt 15)time1014=time_yr1.
if (age1 ge 10 and age1 lt 15 and age2 ge 15)time1014=15-age1.
descr time1014/stat=all.

```

```

compute time1519=0.

```

```
if (age1 ge 15 and age1 lt 20 and age2 lt 20)time1519=time_yr1.
if (age1 ge 15 and age1 lt 20 and age2 ge 20)time1519=20-age1.
if (age1 lt 15 and age2 ge 15)time1519=age2-15.
descr time1519/stat=all.
```

```
compute time2024=0.
if (age1 ge 20 and age1 lt 25 and age2 lt 25)time2024=time_yr1.
if (age1 ge 20 and age1 lt 25 and age2 ge 25)time2024=25-age1.
if (age1 lt 20 and age2 ge 20)time2024=age2-20.
descr time2024/stat=all.
```

```
compute time2529=0.
if (age1 ge 25 and age1 lt 30 and age2 lt 30)time2529=time_yr1.
if (age1 ge 25 and age1 lt 30 and age2 ge 30)time2529=30-age1.
if (age1 lt 25 and age2 ge 25)time2529=age2-25.
descr time2529/stat=all.
```

```
compute time3034=0.
if (age1 ge 30 and age1 lt 35 and age2 lt 35)time3034=time_yr1.
if (age1 ge 30 and age1 lt 35 and age2 ge 35)time3034=35-age1.
if (age1 lt 30 and age2 ge 30)time3034=age2-30.
descr time3034/stat=all.
```

```
compute time3539=0.
if (age1 ge 35 and age1 lt 40 and age2 lt 40)time3539=time_yr1.
if (age1 ge 35 and age1 lt 40 and age2 ge 40)time3539=40-age1.
if (age1 lt 35 and age2 ge 35)time3539=age2-35.
descr time3539/stat=all.
```

```
compute time4044=0.
if (age1 ge 40 and age1 lt 45 and age2 lt 45)time4044=time_yr1.
if (age1 ge 40 and age1 lt 45 and age2 ge 45)time4044=45-age1.
if (age1 lt 40 and age2 ge 40)time4044=age2-40.
descr time4044/stat=all.
```

```
compute time4549=0.
if (age1 ge 45 and age1 lt 50 and age2 lt 50)time4549=time_yr1.
if (age1 ge 45 and age1 lt 50 and age2 ge 50)time4549=50-age1.
if (age1 lt 45 and age2 ge 45)time4549=age2-45.
descr time4549/stat=all.
```

```
compute time5054=0.
if (age1 ge 50 and age1 lt 55 and age2 lt 55)time5054=time_yr1.
if (age1 ge 50 and age1 lt 55 and age2 ge 55)time5054=55-age1.
if (age1 lt 50 and age2 ge 50)time5054=age2-50.
descr time5054/stat=all.
```

```
compute time5559=0.
if (age1 ge 55 and age1 lt 60 and age2 lt 60)time5559=time_yr1.
if (age1 ge 55 and age1 lt 60 and age2 ge 60)time5559=60-age1.
if (age1 lt 55 and age2 ge 55)time5559=age2-55.
descr time5559/stat=all.
```

```
compute time6064=0.
if (age1 ge 60 and age1 lt 65 and age2 lt 65)time6064=time_yr1.
if (age1 ge 60 and age1 lt 65 and age2 ge 65)time6064=65-age1.
if (age1 lt 60 and age2 ge 60)time6064=age2-60.
descr time6064/stat=all.
```

```
compute time6569=0.
if (age1 ge 65 and age1 lt 70 and age2 lt 70)time6569=time_yr1.
if (age1 ge 65 and age1 lt 70 and age2 ge 70)time6569=70-age1.
if (age1 lt 65 and age2 ge 65)time6569=age2-65.
descr time6569/stat=all.
```

```
compute time7074=0.
if (age1 ge 70 and age1 lt 75 and age2 lt 75)time7074=time_yr1.
if (age1 ge 70 and age1 lt 75 and age2 ge 75)time7074=75-age1.
if (age1 lt 70 and age2 ge 70)time7074=age2-70.
descr time7074/stat=all.
```

```
descr time1519 time2024 time2529 time3034 time3539 time4044 time4549 time5054
time5559 time6064 time6569 time7074 /stat=sum.
```

```
compute year=1.
fre year.
```

```
compute contr= time1519 +time2024+ time2529+ time3034+ time3539+ time4044+ time4549 +time5054
+ time5559 +time6064+ time6569+ time7074.
descr time_yr1 contr/stat=sum.
```

```
*/CHANGE NAME OF FILE.
```

```
SAVE OUTFILE='C:\standard_cohort\time_yr1.sav'/drop januar_yr1 januar_yr2 januar_yr3 januar_yr4 januar_yr5 januar_yr6 januar_yr7 januar_yr8
januar_yr9 time_yr1 time_yr2 time_yr3 time_yr4
time_yr5 time_yr6 time_yr7 time_yr8 .
dataset close timetotal.
```

```
*/CHANGE NAME OF FILE.
```

```
GET FILE='C:\standard_cohort\timetotal.sav'.
dataset name timetotal.
```

```
descr time_yr2/stat=sum.
sel if (time_yr2 gt 0).
compute age1=age_entry+time_yr1.
compute age2=age1+time_yr2.
descr age1 age2/stat=all.
compute time1014=0.
if (age1 ge 10 and age1 lt 15 and age2 lt 15)time1014=time_yr2.
if (age1 ge 10 and age1 lt 15 and age2 ge 15)time1014=15-age1.
descr time1014/stat=all.
```

```
compute time1519=0.
if (age1 ge 15 and age1 lt 20 and age2 lt 20)time1519=time_yr2.
if (age1 ge 15 and age1 lt 20 and age2 ge 20)time1519=20-age1.
if (age1 lt 15 and age2 ge 15)time1519=age2-15.
descr time1519/stat=all.
```

```
compute time2024=0.
if (age1 ge 20 and age1 lt 25 and age2 lt 25)time2024=time_yr2.
if (age1 ge 20 and age1 lt 25 and age2 ge 25)time2024=25-age1.
if (age1 lt 20 and age2 ge 20)time2024=age2-20.
descr time2024/stat=all.
```

```
compute time2529=0.
if (age1 ge 25 and age1 lt 30 and age2 lt 30)time2529=time_yr2.
if (age1 ge 25 and age1 lt 30 and age2 ge 30)time2529=30-age1.
if (age1 lt 25 and age2 ge 25)time2529=age2-25.
descr time2529/stat=all.
```

```
compute time3034=0.
if (age1 ge 30 and age1 lt 35 and age2 lt 35)time3034=time_yr2.
if (age1 ge 30 and age1 lt 35 and age2 ge 35)time3034=35-age1.
if (age1 lt 30 and age2 ge 30)time3034=age2-30.
descr time3034/stat=all.
```

```
compute time3539=0.
if (age1 ge 35 and age1 lt 40 and age2 lt 40)time3539=time_yr2.
if (age1 ge 35 and age1 lt 40 and age2 ge 40)time3539=40-age1.
if (age1 lt 35 and age2 ge 35)time3539=age2-35.
descr time3539/stat=all.
```

```
compute time4044=0.
if (age1 ge 40 and age1 lt 45 and age2 lt 45)time4044=time_yr2.
if (age1 ge 40 and age1 lt 45 and age2 ge 45)time4044=45-age1.
if (age1 lt 40 and age2 ge 40)time4044=age2-40.
descr time4044/stat=all.
```

```
compute time4549=0.
if (age1 ge 45 and age1 lt 50 and age2 lt 50)time4549=time_yr2.
if (age1 ge 45 and age1 lt 50 and age2 ge 50)time4549=50-age1.
if (age1 lt 45 and age2 ge 45)time4549=age2-45.
descr time4549/stat=all.
```

```
compute time5054=0.
if (age1 ge 50 and age1 lt 55 and age2 lt 55)time5054=time_yr2.
if (age1 ge 50 and age1 lt 55 and age2 ge 55)time5054=55-age1.
if (age1 lt 50 and age2 ge 50)time5054=age2-50.
descr time5054/stat=all.
```

```
compute time5559=0.
if (age1 ge 55 and age1 lt 60 and age2 lt 60)time5559=time_yr2.
if (age1 ge 55 and age1 lt 60 and age2 ge 60)time5559=60-age1.
if (age1 lt 55 and age2 ge 55)time5559=age2-55.
descr time5559/stat=all.
```

```
compute time6064=0.
if (age1 ge 60 and age1 lt 65 and age2 lt 65)time6064=time_yr2.
if (age1 ge 60 and age1 lt 65 and age2 ge 65)time6064=65-age1.
```

```

if (age1 lt 60 and age2 ge 60)time6064=age2-60.
descr time6064/stat=all.

compute time6569=0.
if (age1 ge 65 and age1 lt 70 and age2 lt 70)time6569=time_yr2.
if (age1 ge 65 and age1 lt 70 and age2 ge 70)time6569=70-age1.
if (age1 lt 65 and age2 ge 65)time6569=age2-65.
descr time6569/stat=all.

compute time7074=0.
if (age1 ge 70 and age1 lt 75 and age2 lt 75)time7074=time_yr2.
if (age1 ge 70 and age1 lt 75 and age2 ge 75)time7074=75-age1.
if (age1 lt 70 and age2 ge 70)time7074=age2-70.
descr time7074/stat=all.

descr time1519 time2024 time2529 time3034 time3539 time4044 time4549 time5054
time5559 time6064 time6569 time7074 /stat=sum.

compute year=2.

*/CHECK DATA.
compute contr= time1519 +time2024+ time2529+ time3034+ time3539+ time4044+ time4549 +time5054
+ time5559 +time6064+ time6569+ time7074.
descr time_yr2 contr/stat=sum.

*/CHANGE NAME OF FILE.
SAVE OUTFILE='C:\standard_cohort\time_yr2.sav'
/drop januar_yr1 januar_yr2 januar_yr3 januar_yr4 januar_yr5 januar_yr6 januar_yr7 januar_yr8 time_yr1 time_yr2 time_yr3 time_yr4
time_yr5 time_yr6 time_yr7 time_yr8 .

dataset close timetotal.

*/CHANGE NAME OF FILE.
GET FILE='C:\standard_cohort\timetotal.sav'.

dataset name timetotal.

descr time_yr3/stat=sum.
sel if (time_yr3 gt 0).
compute age1=age_entry+time_yr1+time_yr2.
compute age2=age1+time_yr3.
descr age1 age2/stat=all.
compute time1014=0.
if (age1 ge 10 and age1 lt 15 and age2 lt 15)time1014=time_yr3.
if (age1 ge 10 and age1 lt 15 and age2 ge 15)time1014=15-age1.
descr time1014/stat=all.

compute time1519=0.
if (age1 ge 15 and age1 lt 20 and age2 lt 20)time1519=time_yr3.
if (age1 ge 15 and age1 lt 20 and age2 ge 20)time1519=20-age1.
if (age1 lt 15 and age2 ge 15)time1519=age2-15.
descr time1519/stat=all.

compute time2024=0.
if (age1 ge 20 and age1 lt 25 and age2 lt 25)time2024=time_yr3.
if (age1 ge 20 and age1 lt 25 and age2 ge 25)time2024=25-age1.
if (age1 lt 20 and age2 ge 20)time2024=age2-20.
descr time2024/stat=all.

compute time2529=0.
if (age1 ge 25 and age1 lt 30 and age2 lt 30)time2529=time_yr3.
if (age1 ge 25 and age1 lt 30 and age2 ge 30)time2529=30-age1.
if (age1 lt 25 and age2 ge 25)time2529=age2-25.
descr time2529/stat=all.

compute time3034=0.
if (age1 ge 30 and age1 lt 35 and age2 lt 35)time3034=time_yr3.
if (age1 ge 30 and age1 lt 35 and age2 ge 35)time3034=35-age1.
if (age1 lt 30 and age2 ge 30)time3034=age2-30.
descr time3034/stat=all.

compute time3539=0.
if (age1 ge 35 and age1 lt 40 and age2 lt 40)time3539=time_yr3.
if (age1 ge 35 and age1 lt 40 and age2 ge 40)time3539=40-age1.
if (age1 lt 35 and age2 ge 35)time3539=age2-35.
descr time3539/stat=all.

```

```

compute time4044=0.
if (age1 ge 40 and age1 lt 45 and age2 lt 45)time4044=time_yr3.
if (age1 ge 40 and age1 lt 45 and age2 ge 45)time4044=45-age1.
if (age1 lt 40 and age2 ge 40)time4044=age2-40.
descr time4044/stat=all.

compute time4549=0.
if (age1 ge 45 and age1 lt 50 and age2 lt 50)time4549=time_yr3.
if (age1 ge 45 and age1 lt 50 and age2 ge 50)time4549=50-age1.
if (age1 lt 45 and age2 ge 45)time4549=age2-45.
descr time4549/stat=all.

compute time5054=0.
if (age1 ge 50 and age1 lt 55 and age2 lt 55)time5054=time_yr3.
if (age1 ge 50 and age1 lt 55 and age2 ge 55)time5054=55-age1.
if (age1 lt 50 and age2 ge 50)time5054=age2-50.
descr time5054/stat=all.

compute time5559=0.
if (age1 ge 55 and age1 lt 60 and age2 lt 60)time5559=time_yr3.
if (age1 ge 55 and age1 lt 60 and age2 ge 60)time5559=60-age1.
if (age1 lt 55 and age2 ge 55)time5559=age2-55.
descr time5559/stat=all.

compute time6064=0.
if (age1 ge 60 and age1 lt 65 and age2 lt 65)time6064=time_yr3.
if (age1 ge 60 and age1 lt 65 and age2 ge 65)time6064=65-age1.
if (age1 lt 60 and age2 ge 60)time6064=age2-60.
descr time6064/stat=all.

compute time6569=0.
if (age1 ge 65 and age1 lt 70 and age2 lt 70)time6569=time_yr3.
if (age1 ge 65 and age1 lt 70 and age2 ge 70)time6569=70-age1.
if (age1 lt 65 and age2 ge 65)time6569=age2-65.
descr time6569/stat=all.

compute time7074=0.
if (age1 ge 70 and age1 lt 75 and age2 lt 75)time7074=time_yr3.
if (age1 ge 70 and age1 lt 75 and age2 ge 75)time7074=75-age1.
if (age1 lt 70 and age2 ge 70)time7074=age2-70.
descr time7074/stat=all.

descr time1519 time2024 time2529 time3034 time3539 time4044 time4549 time5054
time5559 time6064 time6569 time7074 /stat=sum.

compute year=3.

fre year.

compute contr= time1519 +time2024+ time2529+ time3034+ time3539+ time4044+ time4549 +time5054
+ time5559 +time6064+ time6569+ time7074.
descr time_yr3 contr/stat=sum.

*/CHANGE NAME OF FILE.
SAVE OUTFILE='C:\standard_cohort\time_yr3.sav' /drop januar_yr1 januar_yr2 januar_yr3 januar_yr4 januar_yr5 januar_yr6 januar_yr7 januar_yr8
januar_yr9 time_yr1 time_yr2 time_yr3 time_yr4
time_yr5 time_yr6 time_yr7 time_yr8 .

dataset close timetotal.

*/CHANGE NAME OF FILE.
GET FILE='C:\standard_cohort\timetotal.sav'.

dataset name timetotal.

descr time_yr4/stat=sum.
sel if (time_yr4 gt 0).
compute age1=age_entry+time_yr1+time_yr2+time_yr3.
compute age2=age1+time_yr4.
descr age1 age2/stat=all.
compute time1014=0.
if (age1 ge 10 and age1 lt 15 and age2 lt 15)time1014=time_yr4.
if (age1 ge 10 and age1 lt 15 and age2 ge 15)time1014=15-age1.
descr time1014/stat=all.

```

```

compute time1519=0.
if (age1 ge 15 and age1 lt 20 and age2 lt 20)time1519=time_yr4.
if (age1 ge 15 and age1 lt 20 and age2 ge 20)time1519=20-age1.
if (age1 lt 15 and age2 ge 15)time1519=age2-15.
descr time1519/stat=all.

compute time2024=0.
if (age1 ge 20 and age1 lt 25 and age2 lt 25)time2024=time_yr4.
if (age1 ge 20 and age1 lt 25 and age2 ge 25)time2024=25-age1.
if (age1 lt 20 and age2 ge 20)time2024=age2-20.
descr time2024/stat=all.

compute time2529=0.
if (age1 ge 25 and age1 lt 30 and age2 lt 30)time2529=time_yr4.
if (age1 ge 25 and age1 lt 30 and age2 ge 30)time2529=30-age1.
if (age1 lt 25 and age2 ge 25)time2529=age2-25.
descr time2529/stat=all.

compute time3034=0.
if (age1 ge 30 and age1 lt 35 and age2 lt 35)time3034=time_yr4.
if (age1 ge 30 and age1 lt 35 and age2 ge 35)time3034=35-age1.
if (age1 lt 30 and age2 ge 30)time3034=age2-30.
descr time3034/stat=all.

compute time3539=0.
if (age1 ge 35 and age1 lt 40 and age2 lt 40)time3539=time_yr4.
if (age1 ge 35 and age1 lt 40 and age2 ge 40)time3539=40-age1.
if (age1 lt 35 and age2 ge 35)time3539=age2-35.
descr time3539/stat=all.

compute time4044=0.
if (age1 ge 40 and age1 lt 45 and age2 lt 45)time4044=time_yr4.
if (age1 ge 40 and age1 lt 45 and age2 ge 45)time4044=45-age1.
if (age1 lt 40 and age2 ge 40)time4044=age2-40.
descr time4044/stat=all.

compute time4549=0.
if (age1 ge 45 and age1 lt 50 and age2 lt 50)time4549=time_yr4.
if (age1 ge 45 and age1 lt 50 and age2 ge 50)time4549=50-age1.
if (age1 lt 45 and age2 ge 45)time4549=age2-45.
descr time4549/stat=all.

compute time5054=0.
if (age1 ge 50 and age1 lt 55 and age2 lt 55)time5054=time_yr4.
if (age1 ge 50 and age1 lt 55 and age2 ge 55)time5054=55-age1.
if (age1 lt 50 and age2 ge 50)time5054=age2-50.
descr time5054/stat=all.

compute time5559=0.
if (age1 ge 55 and age1 lt 60 and age2 lt 60)time5559=time_yr4.
if (age1 ge 55 and age1 lt 60 and age2 ge 60)time5559=60-age1.
if (age1 lt 55 and age2 ge 55)time5559=age2-55.
descr time5559/stat=all.

compute time6064=0.
if (age1 ge 60 and age1 lt 65 and age2 lt 65)time6064=time_yr4.
if (age1 ge 60 and age1 lt 65 and age2 ge 65)time6064=65-age1.
if (age1 lt 60 and age2 ge 60)time6064=age2-60.
descr time6064/stat=all.

compute time6569=0.
if (age1 ge 65 and age1 lt 70 and age2 lt 70)time6569=time_yr4.
if (age1 ge 65 and age1 lt 70 and age2 ge 70)time6569=70-age1.
if (age1 lt 65 and age2 ge 65)time6569=age2-65.
descr time6569/stat=all.

compute time7074=0.
if (age1 ge 70 and age1 lt 75 and age2 lt 75)time7074=time_yr4.
if (age1 ge 70 and age1 lt 75 and age2 ge 75)time7074=75-age1.
if (age1 lt 70 and age2 ge 70)time7074=age2-70.
descr time7074/stat=all.

descr time1519 time2024 time2529 time3034 time3539 time4044 time4549 time5054
time5559 time6064 time6569 time7074 /stat=sum.

compute year=4.

fre year.

```



```
compute contr= time1519 +time2024+ time2529+ time3034+ time3539+ time4044+ time4549 +time5054
+ time5559 +time6064+ time6569+ time7074.
descr time_yr4 contr/stat=sum.
```

```
SAVE OUTFILE='C:\standard_cohort\time_yr4.sav'/drop januar_yr1 januar_yr2 januar_yr3 januar_yr4 januar_yr5 januar_yr6 januar_yr7 januar_yr8
januar_yr9 time_yr1 time_yr2 time_yr3 time_yr4
time_yr5 time_yr6 time_yr7 time_yr8 .
```

```
dataset close timetotal.
```

```
*/CHANGE NAME OF FILE.
GET FILE='C:\standard_cohort\timetotal.sav'.
```

```
dataset name timetotal.
```

```
descr time_yr5/stat=sum.
sel if (time_yr5 gt 0).
compute age1=age_entry+time_yr1+time_yr2 +time_yr3 + time_yr4.
compute age2=age1+time_yr5.
descr age1 age2/stat=all.
```

```
compute time1014=0.
if (age1 ge 10 and age1 lt 15 and age2 lt 15)time1014=time_yr5.
if (age1 ge 10 and age1 lt 15 and age2 ge 15)time1014=15-age1.
descr time1014/stat=all.
```

```
compute time1519=0.
if (age1 ge 15 and age1 lt 20 and age2 lt 20)time1519=time_yr5.
if (age1 ge 15 and age1 lt 20 and age2 ge 20)time1519=20-age1.
if (age1 lt 15 and age2 ge 15)time1519=age2-15.
descr time1519/stat=all.
```

```
compute time2024=0.
if (age1 ge 20 and age1 lt 25 and age2 lt 25)time2024=time_yr5.
if (age1 ge 20 and age1 lt 25 and age2 ge 25)time2024=25-age1.
if (age1 lt 20 and age2 ge 20)time2024=age2-20.
descr time2024/stat=all.
```

```
compute time2529=0.
if (age1 ge 25 and age1 lt 30 and age2 lt 30)time2529=time_yr5.
if (age1 ge 25 and age1 lt 30 and age2 ge 30)time2529=30-age1.
if (age1 lt 25 and age2 ge 25)time2529=age2-25.
descr time2529/stat=all.
```

```
compute time3034=0.
if (age1 ge 30 and age1 lt 35 and age2 lt 35)time3034=time_yr5.
if (age1 ge 30 and age1 lt 35 and age2 ge 35)time3034=35-age1.
if (age1 lt 30 and age2 ge 30)time3034=age2-30.
descr time3034/stat=all.
```

```
compute time3539=0.
if (age1 ge 35 and age1 lt 40 and age2 lt 40)time3539=time_yr5.
if (age1 ge 35 and age1 lt 40 and age2 ge 40)time3539=40-age1.
if (age1 lt 35 and age2 ge 35)time3539=age2-35.
descr time3539/stat=all.
```

```
compute time4044=0.
if (age1 ge 40 and age1 lt 45 and age2 lt 45)time4044=time_yr5.
if (age1 ge 40 and age1 lt 45 and age2 ge 45)time4044=45-age1.
if (age1 lt 40 and age2 ge 40)time4044=age2-40.
descr time4044/stat=all.
```

```
compute time4549=0.
if (age1 ge 45 and age1 lt 50 and age2 lt 50)time4549=time_yr5.
if (age1 ge 45 and age1 lt 50 and age2 ge 50)time4549=50-age1.
if (age1 lt 45 and age2 ge 45)time4549=age2-45.
descr time4549/stat=all.
```

```
compute time5054=0.
if (age1 ge 50 and age1 lt 55 and age2 lt 55)time5054=time_yr5.
if (age1 ge 50 and age1 lt 55 and age2 ge 55)time5054=55-age1.
if (age1 lt 50 and age2 ge 50)time5054=age2-50.
descr time5054/stat=all.
```

```
compute time5559=0.
if (age1 ge 55 and age1 lt 60 and age2 lt 60)time5559=time_yr5.
if (age1 ge 55 and age1 lt 60 and age2 ge 60)time5559=60-age1.
if (age1 lt 55 and age2 ge 55)time5559=age2-55.
descr time5559/stat=all.
```

```
compute time6064=0.
```

```

if (age1 ge 60 and age1 lt 65 and age2 lt 65)time6064=time_yr5.
if (age1 ge 60 and age1 lt 65 and age2 ge 65)time6064=65-age1.
if (age1 lt 60 and age2 ge 60)time6064=age2-60.
descr time6064/stat=all.

```

```

compute time6569=0.
if (age1 ge 65 and age1 lt 70 and age2 lt 70)time6569=time_yr5.
if (age1 ge 65 and age1 lt 70 and age2 ge 70)time6569=70-age1.
if (age1 lt 65 and age2 ge 65)time6569=age2-65.
descr time6569/stat=all.

```

```

compute time7074=0.
if (age1 ge 70 and age1 lt 75 and age2 lt 75)time7074=time_yr5.
if (age1 ge 70 and age1 lt 75 and age2 ge 75)time7074=75-age1.
if (age1 lt 70 and age2 ge 70)time7074=age2-70.
descr time7074/stat=all.

```

```

descr time1519 time2024 time2529 time3034 time3539 time4044 time4549 time5054
time5559 time6064 time6569 time7074 /stat=sum.

```

```

compute year=5.
fre year.

```

```

compute contr= time1519 +time2024+ time2529+ time3034+ time3539+ time4044+ time4549 +time5054
+ time5559 +time6064+ time6569+ time7074.
descr time_yr5 contr/stat=sum.

```

```

SAVE OUTFILE='C:\standard_cohort\time_yr5.sav'/drop januar_yr1 januar_yr2 januar_yr3 januar_yr4 januar_yr5 januar_yr6 januar_yr7 januar_yr8
januar_yr9 time_yr1 time_yr2 time_yr3 time_yr4
time_yr5 time_yr6 time_yr7 time_yr8 .

```

```

dataset close timetotal.

```

```

*/CHANGE NAME OF FILE.
GET FILE='C:\standard_cohort\timetotal.sav'.

```

```

dataset name timetotal.

```

```

descr time_yr6/stat=sum.
sel if (time_yr6 gt 0).
compute age1=age_entry+time_yr1+time_yr2 +time_yr3 + time_yr4+ time_yr5.
compute age2=age1+time_yr6.
descr age1 age2/stat=all.
compute time1014=0.
if (age1 ge 10 and age1 lt 15 and age2 lt 15)time1014=time_yr6.
if (age1 ge 10 and age1 lt 15 and age2 ge 15)time1014=15-age1.
descr time1014/stat=all.

```

```

compute time1519=0.
if (age1 ge 15 and age1 lt 20 and age2 lt 20)time1519=time_yr6.
if (age1 ge 15 and age1 lt 20 and age2 ge 20)time1519=20-age1.
if (age1 lt 15 and age2 ge 15)time1519=age2-15.
descr time1519/stat=all.

```

```

compute time2024=0.
if (age1 ge 20 and age1 lt 25 and age2 lt 25)time2024=time_yr6.
if (age1 ge 20 and age1 lt 25 and age2 ge 25)time2024=25-age1.
if (age1 lt 20 and age2 ge 20)time2024=age2-20.
descr time2024/stat=all.

```

```

compute time2529=0.
if (age1 ge 25 and age1 lt 30 and age2 lt 30)time2529=time_yr6.
if (age1 ge 25 and age1 lt 30 and age2 ge 30)time2529=30-age1.
if (age1 lt 25 and age2 ge 25)time2529=age2-25.
descr time2529/stat=all.

```

```

compute time3034=0.
if (age1 ge 30 and age1 lt 35 and age2 lt 35)time3034=time_yr6.
if (age1 ge 30 and age1 lt 35 and age2 ge 35)time3034=35-age1.
if (age1 lt 30 and age2 ge 30)time3034=age2-30.
descr time3034/stat=all.

```

```

compute time3539=0.
if (age1 ge 35 and age1 lt 40 and age2 lt 40)time3539=time_yr6.
if (age1 ge 35 and age1 lt 40 and age2 ge 40)time3539=40-age1.
if (age1 lt 35 and age2 ge 35)time3539=age2-35.
descr time3539/stat=all.

```

```

compute time4044=0.

```

```

if (age1 ge 40 and age1 lt 45 and age2 lt 45)time4044=time_yr6.
if (age1 ge 40 and age1 lt 45 and age2 ge 45)time4044=45-age1.
if (age1 lt 40 and age2 ge 40)time4044=age2-40.
descr time4044/stat=all.

```

```

compute time4549=0.
if (age1 ge 45 and age1 lt 50 and age2 lt 50)time4549=time_yr6.
if (age1 ge 45 and age1 lt 50 and age2 ge 50)time4549=50-age1.
if (age1 lt 45 and age2 ge 45)time4549=age2-45.
descr time4549/stat=all.

```

```

compute time5054=0.
if (age1 ge 50 and age1 lt 55 and age2 lt 55)time5054=time_yr6.
if (age1 ge 50 and age1 lt 55 and age2 ge 55)time5054=55-age1.
if (age1 lt 50 and age2 ge 50)time5054=age2-50.
descr time5054/stat=all.

```

```

compute time5559=0.
if (age1 ge 55 and age1 lt 60 and age2 lt 60)time5559=time_yr6.
if (age1 ge 55 and age1 lt 60 and age2 ge 60)time5559=60-age1.
if (age1 lt 55 and age2 ge 55)time5559=age2-55.
descr time5559/stat=all.

```

```

compute time6064=0.
if (age1 ge 60 and age1 lt 65 and age2 lt 65)time6064=time_yr6.
if (age1 ge 60 and age1 lt 65 and age2 ge 65)time6064=65-age1.
if (age1 lt 60 and age2 ge 60)time6064=age2-60.
descr time6064/stat=all.

```

```

compute time6569=0.
if (age1 ge 65 and age1 lt 70 and age2 lt 70)time6569=time_yr6.
if (age1 ge 65 and age1 lt 70 and age2 ge 70)time6569=70-age1.
if (age1 lt 65 and age2 ge 65)time6569=age2-65.
descr time6569/stat=all.

```

```

compute time7074=0.
if (age1 ge 70 and age1 lt 75 and age2 lt 75)time7074=time_yr6.
if (age1 ge 70 and age1 lt 75 and age2 ge 75)time7074=75-age1.
if (age1 lt 70 and age2 ge 70)time7074=age2-70.
descr time7074/stat=all.

```

```

descr time1519 time2024 time2529 time3034 time3539 time4044 time4549 time5054
time5559 time6064 time6569 time7074 /stat=sum.

```

```

compute year=6.
fre year.

```

```

compute contr= time1519 +time2024+ time2529+ time3034+ time3539+ time4044+ time4549 +time5054
+ time5559 +time6064+ time6569+ time7074.
descr time_yr6 contr/stat=sum.

```

```

SAVE OUTFILE='C:\standard_cohort\time_yr6.sav'/drop januar_yr1 januar_yr2 januar_yr3 januar_yr4 januar_yr5 januar_yr6 januar_yr7 januar_yr8
januar_yr9 time_yr1 time_yr2 time_yr3 time_yr4
time_yr5 time_yr6 time_yr7 time_yr8 .

```

```

dataset close timetotal.
*/CHANGE NAME OF FILE.
GET FILE='C:\standard_cohort\timetotal.sav'.

```

```

dataset name timetotal.

```

```

descr time_yr7/stat=sum.
sel if (time_yr7 gt 0).
compute age1=age_entry+time_yr1+time_yr2 +time_yr3 + time_yr4+ time_yr5+ time_yr6.
compute age2=age1+time_yr7.
descr age1 age2/stat=all.
compute time1014=0.
if (age1 ge 10 and age1 lt 15 and age2 lt 15)time1014=time_yr7.
if (age1 ge 10 and age1 lt 15 and age2 ge 15)time1014=15-age1.
descr time1014/stat=all.

```

```

compute time1519=0.
if (age1 ge 15 and age1 lt 20 and age2 lt 20)time1519=time_yr7.
if (age1 ge 15 and age1 lt 20 and age2 ge 20)time1519=20-age1.
if (age1 lt 15 and age2 ge 15)time1519=age2-15.
descr time1519/stat=all.

```

```

compute time2024=0.
if (age1 ge 20 and age1 lt 25 and age2 lt 25)time2024=time_yr7.

```

```
if (age1 ge 20 and age1 lt 25 and age2 ge 25)time2024=25-age1.
if (age1 lt 20 and age2 ge 20)time2024=age2-20.
descr time2024/stat=all.
```

```
compute time2529=0.
if (age1 ge 25 and age1 lt 30 and age2 lt 30)time2529=time_yr7.
if (age1 ge 25 and age1 lt 30 and age2 ge 30)time2529=30-age1.
if (age1 lt 25 and age2 ge 25)time2529=age2-25.
descr time2529/stat=all.
```

```
compute time3034=0.
if (age1 ge 30 and age1 lt 35 and age2 lt 35)time3034=time_yr7.
if (age1 ge 30 and age1 lt 35 and age2 ge 35)time3034=35-age1.
if (age1 lt 30 and age2 ge 30)time3034=age2-30.
descr time3034/stat=all.
```

```
compute time3539=0.
if (age1 ge 35 and age1 lt 40 and age2 lt 40)time3539=time_yr7.
if (age1 ge 35 and age1 lt 40 and age2 ge 40)time3539=40-age1.
if (age1 lt 35 and age2 ge 35)time3539=age2-35.
descr time3539/stat=all.
```

```
compute time4044=0.
if (age1 ge 40 and age1 lt 45 and age2 lt 45)time4044=time_yr7.
if (age1 ge 40 and age1 lt 45 and age2 ge 45)time4044=45-age1.
if (age1 lt 40 and age2 ge 40)time4044=age2-40.
descr time4044/stat=all.
```

```
compute time4549=0.
if (age1 ge 45 and age1 lt 50 and age2 lt 50)time4549=time_yr7.
if (age1 ge 45 and age1 lt 50 and age2 ge 50)time4549=50-age1.
if (age1 lt 45 and age2 ge 45)time4549=age2-45.
descr time4549/stat=all.
```

```
compute time5054=0.
if (age1 ge 50 and age1 lt 55 and age2 lt 55)time5054=time_yr7.
if (age1 ge 50 and age1 lt 55 and age2 ge 55)time5054=55-age1.
if (age1 lt 50 and age2 ge 50)time5054=age2-50.
descr time5054/stat=all.
```

```
compute time5559=0.
if (age1 ge 55 and age1 lt 60 and age2 lt 60)time5559=time_yr7.
if (age1 ge 55 and age1 lt 60 and age2 ge 60)time5559=60-age1.
if (age1 lt 55 and age2 ge 55)time5559=age2-55.
descr time5559/stat=all.
```

```
compute time6064=0.
if (age1 ge 60 and age1 lt 65 and age2 lt 65)time6064=time_yr7.
if (age1 ge 60 and age1 lt 65 and age2 ge 65)time6064=65-age1.
if (age1 lt 60 and age2 ge 60)time6064=age2-60.
descr time6064/stat=all.
```

```
compute time6569=0.
if (age1 ge 65 and age1 lt 70 and age2 lt 70)time6569=time_yr7.
if (age1 ge 65 and age1 lt 70 and age2 ge 70)time6569=70-age1.
if (age1 lt 65 and age2 ge 65)time6569=age2-65.
descr time6569/stat=all.
```

```
compute time7074=0.
if (age1 ge 70 and age1 lt 75 and age2 lt 75)time7074=time_yr7.
if (age1 ge 70 and age1 lt 75 and age2 ge 75)time7074=75-age1.
if (age1 lt 70 and age2 ge 70)time7074=age2-70.
descr time7074/stat=all.
```

```
descr time1519 time2024 time2529 time3034 time3539 time4044 time4549 time5054
time5559 time6064 time6569 time7074 /stat=sum.
```

```
compute year=7.
fre year.
```

```
compute contr= time1519 +time2024+ time2529+ time3034+ time3539+ time4044+ time4549 +time5054
+ time5559 +time6064+ time6569+ time7074.
descr time_yr7 contr/stat=sum.
```

```
SAVE OUTFILE='C:\standard_cohort\time_yr7.sav'\drop januar_yr1 januar_yr2 januar_yr3 januar_yr4 januar_yr5 januar_yr6 januar_yr7 januar_yr9
januar_yr8 time_yr1 time_yr2 time_yr3 time_yr4
time_yr5 time_yr6 time_yr7 time_yr8 .
```

```
dataset close timetotal.
```

```
*/the separate files per year are added to one total file'.
*/CHANGE NAME OF FILE.
GET FILE='C:\standard_cohort\timetotal.sav'.
```

```
dataset name timetotal.
```

```
descr time_yr8/stat=sum.
sel if (time_yr8 gt 0).
compute age1=age_entry+time_yr1+time_yr2 +time_yr3 + time_yr4+ time_yr5+ time_yr6 + time_yr7.
compute age2=age1+time_yr8.
descr age1 age2/stat=all.
```

```
compute time1014=0.
if (age1 ge 10 and age1 lt 15 and age2 lt 15)time1014=time_yr8.
if (age1 ge 10 and age1 lt 15 and age2 ge 15)time1014=15-age1.
descr time1014/stat=all.
```

```
compute time1519=0.
if (age1 ge 15 and age1 lt 20 and age2 lt 20)time1519=time_yr8.
if (age1 ge 15 and age1 lt 20 and age2 ge 20)time1519=20-age1.
if (age1 lt 15 and age2 ge 15)time1519=age2-15.
descr time1519/stat=all.
```

```
compute time2024=0.
if (age1 ge 20 and age1 lt 25 and age2 lt 25)time2024=time_yr8.
if (age1 ge 20 and age1 lt 25 and age2 ge 25)time2024=25-age1.
if (age1 lt 20 and age2 ge 20)time2024=age2-20.
descr time2024/stat=all.
```

```
compute time2529=0.
if (age1 ge 25 and age1 lt 30 and age2 lt 30)time2529=time_yr8.
if (age1 ge 25 and age1 lt 30 and age2 ge 30)time2529=30-age1.
if (age1 lt 25 and age2 ge 25)time2529=age2-25.
descr time2529/stat=all.
```

```
compute time3034=0.
if (age1 ge 30 and age1 lt 35 and age2 lt 35)time3034=time_yr8.
if (age1 ge 30 and age1 lt 35 and age2 ge 35)time3034=35-age1.
if (age1 lt 30 and age2 ge 30)time3034=age2-30.
descr time3034/stat=all.
```

```
compute time3539=0.
if (age1 ge 35 and age1 lt 40 and age2 lt 40)time3539=time_yr8.
if (age1 ge 35 and age1 lt 40 and age2 ge 40)time3539=40-age1.
if (age1 lt 35 and age2 ge 35)time3539=age2-35.
descr time3539/stat=all.
```

```
compute time4044=0.
if (age1 ge 40 and age1 lt 45 and age2 lt 45)time4044=time_yr8.
if (age1 ge 40 and age1 lt 45 and age2 ge 45)time4044=45-age1.
if (age1 lt 40 and age2 ge 40)time4044=age2-40.
descr time4044/stat=all.
```

```
compute time4549=0.
if (age1 ge 45 and age1 lt 50 and age2 lt 50)time4549=time_yr8.
if (age1 ge 45 and age1 lt 50 and age2 ge 50)time4549=50-age1.
if (age1 lt 45 and age2 ge 45)time4549=age2-45.
descr time4549/stat=all.
```

```
compute time5054=0.
if (age1 ge 50 and age1 lt 55 and age2 lt 55)time5054=time_yr8.
if (age1 ge 50 and age1 lt 55 and age2 ge 55)time5054=55-age1.
if (age1 lt 50 and age2 ge 50)time5054=age2-50.
descr time5054/stat=all.
```

```
compute time5559=0.
if (age1 ge 55 and age1 lt 60 and age2 lt 60)time5559=time_yr8.
if (age1 ge 55 and age1 lt 60 and age2 ge 60)time5559=60-age1.
if (age1 lt 55 and age2 ge 55)time5559=age2-55.
descr time5559/stat=all.
```

```
compute time6064=0.
if (age1 ge 60 and age1 lt 65 and age2 lt 65)time6064=time_yr8.
if (age1 ge 60 and age1 lt 65 and age2 ge 65)time6064=65-age1.
if (age1 lt 60 and age2 ge 60)time6064=age2-60.
descr time6064/stat=all.
```

```
compute time6569=0.
if (age1 ge 65 and age1 lt 70 and age2 lt 70)time6569=time_yr8.
if (age1 ge 65 and age1 lt 70 and age2 ge 70)time6569=70-age1.
```

```

if (age1 lt 65 and age2 ge 65)time6569=age2-65.
descr time6569/stat=all.

compute time7074=0.
if (age1 ge 70 and age1 lt 75 and age2 lt 75)time7074=time_yr8.
if (age1 ge 70 and age1 lt 75 and age2 ge 75)time7074=75-age1.
if (age1 lt 70 and age2 ge 70)time7074=age2-70.
descr time7074/stat=all.

descr time1519 time2024 time2529 time3034 time3539 time4044 time4549 time5054
time5559 time6064 time6569 time7074 /stat=sum.

compute year=8.
fre year.

compute contr=time1014+ time1519 +time2024+ time2529+ time3034+ time3539+ time4044+ time4549 +time5054+ time5559 +time6064+ time6569+
time7074.
descr time_yr8 contr/stat=sum.

SAVE OUTFILE='C:\standard_cohort\time_yr8.sav'/drop januar_yr1 januar_yr2 januar_yr3 januar_yr4 januar_yr5 januar_yr6 januar_yr7 januar_yr8
januar_yr9 time_yr1 time_yr2 time_yr3 time_yr4
time_yr5 time_yr6 time_yr7 time_yr8 .

dataset close timetotal.

*/CHANGE NAME OF FILE.
GET FILE='C:\standard_cohort\time_yr1.sav'.

ADD FILES /FILE=*
/FILE='C:\standard_cohort\time_yr2.sav'
/FILE='C:\standard_cohort\time_yr3.sav'
/FILE='C:\standard_cohort\time_yr4.sav'
/FILE='C:\standard_cohort\time_yr5.sav'
/FILE='C:\standard_cohort\time_yr6.sav'
/FILE='C:\standard_cohort\time_yr7.sav'
/FILE='C:\standard_cohort\time_yr8.sav'.
EXECUTE.
fre year.

SAVE OUTFILE='C:\standard_cohort\py_age_yr.sav'.

*/if a person has died all records will have the code 1, however, only the last record should have the code 1,
this part will change the code into '2'in case a person has not died yet'.

*/CHANGE NAME OF FILE.
get file 'C:\standard_cohort\py_age_yr.sav'.
dataset name py_age_yr.

sort cases by vital_stat (A) access_id (D) year (D).
compute l_id=lag(access_id).
compute same=0.
if (l_id=access_id)same=1.
fre same.
if (vital_stat=1 and same=1)vital_stat=2.
fre vital_stat.
compute mort1014=0.
if (vital_stat=1 and age_end ge 10 and age_end lt 15)mort1014=1.

compute mort1519=0.
if (vital_stat=1 and age_end ge 15 and age_end lt 20)mort1519=1.

compute mort2024=0.
if (vital_stat=1 and age_end ge 20 and age_end lt 25)mort2024=1.

compute mort2529=0.
if (vital_stat=1 and age_end ge 25 and age_end lt 30)mort2529=1.

compute mort3034=0.
if (vital_stat=1 and age_end ge 30 and age_end lt 35)mort3034=1.

compute mort3539=0.
if (vital_stat=1 and age_end ge 35 and age_end lt 40)mort3539=1.

compute mort4044=0.
if (vital_stat=1 and age_end ge 40 and age_end lt 45)mort4044=1.

```

```

compute mort4549=0.
if (vital_stat=1 and age_end ge 45 and age_end lt 50)mort4549=1.

compute mort5054=0.
if (vital_stat=1 and age_end ge 50 and age_end lt 55)mort5054=1.

compute mort5559=0.
if (vital_stat=1 and age_end ge 55 and age_end lt 60)mort5559=1.

compute mort6064=0.
if (vital_stat=1 and age_end ge 60 and age_end lt 65)mort6064=1.

compute mort6569=0.
if (vital_stat=1 and age_end ge 65 and age_end lt 70)mort6569=1.

compute mort7074=0.
if (vital_stat=1 and age_end ge 70 and age_end lt 75)mort7074=1.

formats mort1014 mort1519 mort2024 mort2529 mort3034 mort3539 mort4044 mort4549 mort5054
mort5559 mort6064 mort6569 mort7074 (F6.0).

*/the next lines summarizes the results; the sum of persontime, number of deaths in each age category in each year".

means time1014 time1519 time2024 time2529 time3034 time3539 time4044 time4549 time5054
time5559 time6064 time6569 time7074 by year by gender /cell=sum.

means mort1014 mort1519 mort2024 mort2529 mort3034 mort3539 mort4044 mort4549 mort5054
mort5559 mort6064 mort6569 mort7074 by year by gender/cell=sum.

*/ check if you haven't add or lost any persontime or deaths.

compute check_time=time1014 + time1519+ time2024 + time2529+ time3034+ time3539+ time4044+ time4549+ time5054 + time5559 + time6064 +
time6569 + time7074.
means check_time by year/cell=sum.

compute check_mort=mort1014+ mort1519 +mort2024+ mort2529+ mort3034+ mort3539+ mort4044+ mort4549+ mort5054+ mort5559+ mort6064+
mort6569+ mort7074.
means check_mort by year/cell=sum.
cross vital_stat by year.

STRING death_code1 (A3).
COMPUTE death_code1=CHAR.SUBSTR(DEATH_CODE,1,3).
EXECUTE.

RECODE death_code1 ('R00','R01','R02','R03','R04','R05','R06','R07','R08','R09','R10','R11','R12','R13','R14','R15','R16','R17','R18','R19','R20',
'R21','R22','R23','R24','R25','R26','R27','R28','R29','R30','R31','R32','R33','R34','R35','R36','R37','R38','R39','R40','R41','R42','R43','R44','R45','R46','R47',
'R48','R49','R50','R51',
'R52','R53','R54','R55','R56','R57','R58','R59','R60','R61','R62','R63','R64','R65','R66','R67','R68','R69','R70','R71','R72','R73','R74','R75','R76','R77','R78',
'R79','R80','R81','R82',
'R83','R84','R85','R86','R87','R88','R89','R90','R91','R92','R93','R94','R95','R96','R97','R98','R99'=4)('F11'=1) ('F12'=1) ('F13'=1) ('F14'=1) ('F15'=1)
('F16'=1) ('F18'=1) ('F19'=1) ('T40'=1)
('X40'=1) ('X41'=1) ('X42'=1) ('X43'=1) ('X44'=1) ('X49'=1) ('Y10'=1) ('Y11'=1) ('Y12'=1) ('Y13'=1) ('Y14'=1) ('Y19'=1) ('X60'=1) ('X61'=1) ('X62'=1)
('X63'=1) ('X64'=1) ('X85'=1) ('B20'=2) ('B21'=2) ('B22'=2) ('B23'=2) ('B24'=2) INTO DEATH_CAT.
EXECUTE.
DO IF (death_code1 ~= "").
RECODE DEATH_CAT (SYSMIS=3).
END IF.
EXECUTE.
VALUE LABELS DEATH_CAT 1 'Direct'
2 'HIV'
3 'Other'
4 'Unspecified'.
cross death_cat by COUNTRY /CELL COLL.
cross death_CODE by DEATH_CAT.

if (check_mort =0)death_cat=-1.
miss val death_cat (-1).

compute age_mort_cat=trunc(age_end/5).
recode age_mort_cat (14 thru highest=14).
val lab age_mort_cat 2 '10-14' 3 '15-19' 4 '20-24' 5 '25-29' 6 '30-34' 7 '35-39' 8 '40-44' 9 '45-49' 10 '50-54' 11 '55-59' 12 '60-64' 13 '65-69' 14 '70+'.

cross age_mort_cat gender year by death_cat.
cross age_mort_cat by death_cat by gender by year.

save outfile 'C:\standard_cohort\py_age_yr_final.sav'/drop check_mort same l_id age2 age1 dif contr age_cat/compressed.

```

## Cohort guidelines deaths codes

```
STRING death_code1 (A3).
COMPUTE death_code1=CHAR.SUBSTR(DEATH_CODE,1,3).
EXECUTE.

RECODE death_code1
('R00','R01','R02','R03','R04','R05','R06','R07','R08','R09','R10','R11','R12','R13','R14','R15','R16','R17','R18','R19','R20',
'R21','R22','R23','R24','R25','R26','R27','R28','R29','R30','R31','R32','R33','R34','R35','R36','R37','R38','R39','R40','R41','R42','R43','R4
4','R45','R46','R47','R48','R49','R50','R51',
'R52','R53','R54','R55','R56','R57','R58','R59','R60','R61','R62','R63','R64','R65','R66','R67','R68','R69','R70','R71','R72','R73','R74','R7
5','R76','R77','R78','R79','R80','R81','R82',
'R83','R84','R85','R86','R87','R88','R89','R90','R91','R92','R93','R94','R95','R96','R97','R98',
'R99'=4)
('F11'=1) ('F12'=1) ('F13'=1) ('F14'=1) ('F15'=1) ('F16'=1) ('F18'=1) ('F19'=1) ('T40'=1)
('X40'=1) ('X41'=1) ('X42'=1) ('X43'=1) ('X44'=1) ('X49'=1) ('Y10'=1) ('Y11'=1) ('Y12'=1) ('Y13'=1) ('Y14'=1) ('Y19'=1) ('X60'=1)
('X61'=1) ('X62'=1)
('X63'=1) ('X64'=1) ('X85'=1)
('B20'=2) ('B21'=2) ('B22'=2) ('B23'=2) ('B24'=2)
INTO DEATH_CAT.
EXECUTE.
DO IF (death_code1 ~= "").
RECODE DEATH_CAT (SYSMISS=4).
END IF.
EXECUTE.
VALUE LABELS DEATH_CAT
1 'DRD'
2 'HIV'
3 'Other'
4 'Unspecified'.
```