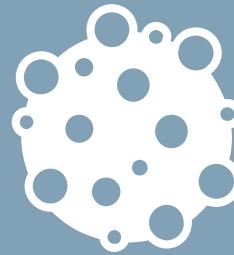




Global Reach



Speed & Delivery



Therapeutic Knowledge



Creative Solutions

Your Date or Mine?

Melanie O'Neill
CT08

PPD[®]

The problem

 VIEWTABLE: Work.AdsI

	Subject Identifier for the Study	Last Known Alive Date
1	0011001	18NOV2013
2	0011002	04JAN2014
3	0071001	30JUL2014
4	0081001	21MAY2017
5	0111001	20JAN2014
6	0121001	08MAR2017

 VIEWTABLE: Work.VadsI

	Subject Identifier for the Study	Last Known Alive Date
1	0011001	18NOV2013
2	0011002	07JAN2014
3	0071001	30JUL2014
4	0081001	31MAY2017
5	0111001	20JAN2014
6	0121001	08MAR2017

Which dataset contains the correct date for subjects 0011002 and 0081001?



One possible solution

```
%macro alive(ds=, date=, sub=);
```

- ds = is the dataset of containing the date variables
- date = event date(s) of interest. Multiple dates from the same dataset can be listed separated with a space
- sub = subject variable used in the dataset e.g. pt or subjid

The macro

```
proc sort data=trans.&ds. out=&ds._1_&dt.;  
    by &sub. descending &dt.;  
    where not missing(&dt.);  
run;  
  
data &ds._1_&dt.a (keep=subject origin &dt.);  
    length subject $100. origin $50.;  
    set &ds._1_&dt.;  
    subject=pt;  
    origin=catx(".", "&ds.", "&dt.");  
run;  
  
data &ds._2_&dt.;  
    merge &ds._1_&dt.a(in=a) death(in=b);  
    by subject;  
        if a and (dsdt eq .);  
run;
```

Selecting the last known alive date

- + The macro is called once for each dataset with all dates of interest specified.

```
%alive (ds=addltr, date=lymedt lymsdt, sub=pt);
```

```
%alive (ds=assesmnt, date=asesdt , sub=pt);
```

VIEWTABLE: Work.Dataset_addltr_lymedt			
	Subject identifier	ORIGIN	DATE
1	0121001	addltr.lymedt	18NOV2016
2	0191002	addltr.lymedt	30MAR2017
3	0211004	addltr.lymedt	30MAY2018
4	0221001	addltr.lymedt	29NOV2017

VIEWTABLE: Work.Dataset_addltr_lymsdt			
	Subject identifier	ORIGIN	DATE
1	0121001	addltr.lymsdt	02JUN2016
2	0182001	addltr.lymsdt	16DEC2015
3	0191002	addltr.lymsdt	29MAR2017
4	0211004	addltr.lymsdt	07MAY2018

VIEWTABLE: Work.Dataset_assesmnt_asesdt			
	Subject identifier	ORIGIN	DATE
1	0081001	assesmnt.asesdt	03MAR2017
2	0121001	assesmnt.asesdt	24MAY2016
3	0121002	assesmnt.asesdt	08APR2016
4	0121003	assesmnt.asesdt	02JUN2018

Selecting the last known alive date

Once the macro has been run for the required datasets, all final datasets should be set together and sorted by subject and descending date.

VIEWTABLE: Work.All_s

	Subject identifier	ORIGIN	DATE
1	0081001	assesmnt.asesdt	03MAR2017
2	0121001	addltr.lymedt	18NOV2016
3	0121001	addltr.lymsdt	02JUN2016
4	0121001	assesmnt.asesdt	24MAY2016
5	0121002	assesmnt.asesdt	08APR2016
6	0121003	assesmnt.asesdt	02JUN2018
7	0181001	assesmnt.asesdt	15APR2015

The first record per subject should be selected from the sorted dataset. If required this date can then be compared to a cut-off date.

VIEWTABLE: Work.Max_date

	Subject identifier	ORIGIN	DATE
1	0081001	assesmnt.asesdt	03MAR2017
2	0121001	addltr.lymedt	18NOV2016
3	0121002	assesmnt.asesdt	08APR2016
4	0121003	assesmnt.asesdt	02JUN2018
5	0181001	assesmnt.asesdt	15APR2015

Thank you! Any Questions?

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