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How To Derive Parameters At ADaM Level For Generating Yearly Interval Exposure Tables:(CT05)

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ABSTRACT

Have you ever faced the scenario of adding parameters in ADEX for producing yearly interval tables? By selecting appropriate permissible variables from the BDS structure we can derive the required parameters in ADaM datasets based on our requirement. In this scenario, we can use AVISIT variable to group the drug dosage year wise. This paper will show you how we can create the required parameters in ADEX dataset, followed by report generation which include Number of planned injections, Number of actual injections, Number of actual injections/Number of planned injections(%).



Introduction

- ❖ Duration of Treatment
- ❖ To calculate number of Planned Injections
- ❖ To calculate number of Actual injections .
- ❖ Number of actual injections/Number of planned injections(%)
- ❖ DERIVE an **AVISIT** variable to group dosage in year wise.
- ❖ ADaM level creating the VARIALE instead of table level programming



Exposure dataset

>Below step is calculating YEAR variable:

```
if nmiss(dsstdy) eq 0 then do;  
else if 1 <= dsstdy <= 364 then yr = 1;  
else if 364 < dsstdy <= 364*2 then yr = 2;  
else if 364*2 < dsstdy <= 364*3 then yr = 3;  
else if 364*3 < dsstdy <= 364*4 then yr = 4;  
else if 364*4 < dsstdy then yr = 5; end;
```

>Below step is calculating AVISIT variable

```
if upcase(avisit)="YEAR1" then avisit = "Up to W52";  
if upcase(avisit)="YEAR2" then avisit = "]W52 to W104]";  
if upcase(avisit)="YEAR3" then avisit = "]W104 to W156]";  
if upcase(avisit)="YEAR4" then avisit = "]W156 to W208]";  
if upcase(avisit)="YEAR5" then avisit = "]W208 to W260]";
```



Exposure dataset Conti....

> Below step is calculating duration in Yearwise:

if yr > m=1 then do;

if dsstdy <= 364 then year1=int(((dsstdy - (364*(yr-1))-1)/28)+1;

if dsstdy <= 364 then year1=int((((dsstdy - (364*(yr-1))-1)/28)+1)*2; end;

if yr >=2 then do;

if 364 < dsstdy <= 364*2 then year2=int(((dsstdy - (364*(yr-1))-1)/28)+1;

if 364 < dsstdy <= 364*2 then year2=int((((dsstdy - (364*(yr-1))-1)/28)+1)*2; end;

if yr >=3 then do;

if 364*2 < dsstdy <= 364*3 then year3=int(((dsstdy - (364*(yr-1))-1)/28)+1;

if 364*2 < dsstdy <= 364*3 then year3=int((((dsstdy - (364*(yr-1))-1)/28)+1)*2; end;

if yr >=4 then do;

if 364*3 < dsstdy <= 364*4 then year4=int((((dsstdy - (364*(yr-1))-1)/28)+1)*2;

if 364*3 < dsstdy <= 364*4 then year4=int((((dsstdy - (364*(yr-1))-1)/28)+1)*2; end;

if yr >=5 then do;

Derive value from excel
if 364*4 < dsstdy <= 364*5 then year5=int((((dsstdy - (364*(yr-1))-1)/28)+1)*2;



AVISIT VARIABLE

> Permissible AVISIT VARIABLE

Select the value/s for column AVISIT

Up to W52
]W104 to W156]
]W156 to W208]
]W208 to W260]
]W52 to W104]



EXPOSURE TABLE LAYOUT

>Examples of below LAYOUT:

Number of planned injections

Mean	12.73	16.00	10.51	11.48	12.17	12.18
------	-------	-------	-------	-------	-------	-------

Number of actual injections

Mean	12.70	15.92	10.66	12.13	11.80	11.71
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Number of actual injections/ Number of planned injections(%) :

Mean	93.74	99.52	88.21	87.95	95.19	94.99
SD	17.831	2.207	24.783	29.589	13.209	9.073
Min	0.0	87.5	0.0	0.0	38.5	62.5
Q1	100.00	100.00	85.70	100.00	100.00	92.30
Median	100.00	100.00	100.00	100.00	100.00	100.00
Q3	100.00	100.00	100.00	100.00	100.00	100.00
Max	107.7	106.3	107.7	100.0	100.0	100.0



Table programming

> Below steps used to created categories by using AVAL variable :

Proc sql;

create table count as

select sum(aval) as aval, usubjid, paramn, param, trtsqa2s, switchdt, trtsdt
from analysis.adex and paramn =7

group by usubjid;

quit;

proc means data=adex mean std min median Q1 Q3 max noprint;

by extrt param avisit;

var aval;

output out=adex_stat;

run;

data dataset1;

set dataset0;

if NUMBEROFACTUALINJECTIONS = . then NUMBEROFACTUALINJECTIONS=0;

a_p=round((NUMBEROFACTUALINJECTIONS/NUMBEROFPLANNEDINJECTIONS)*100, 0.1);

run;

