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* Project : ZRHM-REXA-07-JP

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* Program name : t1502020301_ZRHM-REXA-07_V1.sas


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* Author : W. Yang

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* Date created : 06/06/2015

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* Purpose : Create Table Table 15.2.2.3.1 Summary of Average Daily Product Use in Ambulatory Period  FAS

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* Revision History :

*

* Date Author Ref Revision (Date in YYYYMMDD format)

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*****,

```
%let prgname=T1502020301_ZRHM_REXA_07_JP_V1;
```

```
options nomprint nosymbolgen nomlogic validvarname=upcase;
```

```
options sasautos=("W:\pmp07\macros" sasautos) notes;
```

```
%init(delivery=9);
```

```
%titlecsv(prgname=&prgname., version=3);
```

```
%put &title1;
```

```
%put &title2;
```

```
%put &APPENDIX;
```

```
%put &endpoint;
```

```
%put &outname.;
```

```
data adsl;
```

```
    set adam.adsl(where=(safafi='Y' /*and index(disccat,'Period 1')=0*/));
```

```
    if    trt01an=4 then do; trt=1; output; end;
```

```
    else if trt01an=5 then do; trt=2; output; end;
```

```
    else if trt01an=3 then do; trt=3; output; end;
```

```
    trt=4; output;
```

```
run ;
```

```
proc freq data =adsl noprint;
```

```
    table trt/out=treatabt (rename =(count=total)drop=percent);
```

```
run;
```

```
Data _null_;
```

```
    Set treatabt;
```

```
    Call symput('n' || strip(put(trt, best.)),strip(put(total, best.)));
```

```
Run;
```

```
%put &n1 &n2 &n3 &n4;
```

```
proc sort data=adam.adex out=adex;
```

```
    by usubjid apuper aval;
```

```
    where safafi='Y' and dtype='AVERAGE';
```

```
run;
```

```
proc sql;
```

```
    create table data0 as
```

```
    select a.trt, a.disccat, b.*
```

```
    from adsl as a cross join adex as b
```

```
    where a.usubjid=b.usubjid
```

```
    ;
```

```
quit;
```

```
data data1;
```

```
    set data0;
```

```
    if parcat3='AVERAGE DAILY PRODUCT USE IN AMBULATORY' then do;
```

```
        apuper=5;
```

```
        apuperc='Overall ambulatory period';
```

```
    end;
```

```
/*  if apuper=2 and index(disccat,'Period 1') then delete;*/
```

```
/*  if apuper=3 and (index(disccat,'Period 1') or index(disccat,'Period 2')) then delete;*/
```

```
/*  if apuper=4 and (index(disccat,'Period 1') or index(disccat,'Period 2') or index(disccat,'Period 3'))  
then delete;*/
```

```
run;
```

```
*** Macro for Continuous variables statistics ***;
```

```
%macro mmeans(in_dsn=, class=, var=, order1=);
```

```
proc means data=&in_dsn noprint nway alpha=0.05;
```

```
    class trt &class;
```

```

var &var;

output out= stat1 n=_n mean=_mean std=_std median=_median min=_min max=_max lclm=_lclm
uclm=_uclm;

run;

data stat2 (drop=_:);

length n meansd median minmax ci $50 fm1-fm3 $10;

merge stat1 treatabt;

by trt;

deci=0;

fm1=cats(12,".",strip(put(deci+1,3.)));
fm2=cats(12,".",strip(put(deci+2,3.)));
fm3=cats(12,".",strip(put(deci+0,3.)));

if _std>. then _std=ceil(_std*100)/100;
if _uclm>. then _uclm=ceil(_uclm*10)/10;
if _lclm>. then _lclm=floor(_lclm*10)/10;
if _lclm=. and _std=0 and _mean>. then do; _lclm=_mean; _uclm=_mean; end;

if _mean ne . and _std ne . then meansd=strip(putn(_mean, fm1))||"
("||strip(putn(_std,fm2))||")";

else if _mean ne . and _std eq . then meansd=strip(putn(_mean, fm1))||" (NA)";

if _lclm ne . then ci=strip(putn(_lclm,fm1))||", "||strip(putn(_uclm,fm1));

if _min ne . then minmax=strip(putn(_min,fm3))||", "||strip(putn(_max,fm3));

if _n=total>. then n=strip(put(_n,best12.))||' (100)';

```

```

else if n(_n,total)=2 then n=strip(put(_n,best12.))||'('||put(_n/total*100,5.1)||')';

if _median ne . then median=strip(putn(_median, fm1));

/* if _mean=0 and _std=0 then do; ci=""; median=""; minmax=""; end;*/

run;

proc sort; by &class. trt; run;

proc transpose data=stat2 out=stat3 prefix=col;

    by &class;

    var n meansd ci median minmax;

    id trt;

run;

data final_&order1. (drop=_name_);

    length stat $100;

    set stat3;

    if _name_='N' then do; stat="n (%)"; order2 =1; end;

    if _name_='MEANSD' then do; stat="Mean (SD)"; order2 =2; end;

    if _name_='CI' then do; stat="95% CI"; order2 =3; end;

    if _name_='MEDIAN' then do; stat="Median"; order2 =4; end;

    if _name_='MINMAX' then do; stat="Min, Max"; order2 =5; end;

    order1=&order1;

run;

%mend mmeans;

```

```
%mmeans(in_dsn=data1, class=paramn param apuper apuperc, var=aval, order1=1);
```

```
data final;
```

```
set final_;
```

```
param=tranwrd(param,'Ave. Daily ','');
```

```
param=tranwrd(param,'Average Daily ','');
```

```
param=tranwrd(param,' by Period','');
```

```
param=tranwrd(param,' in Ambulatory','');
```

```
param=strip(param);
```

```
if param='THS 2.2' then param='THSm2.2 Sticks';
```

```
if param='mCC' then param='CC/mCC';
```

```
if order2=1 then do;
```

```
if col1="" then col1='NA'; if col2="" then col2='NA';
```

```
if col3="" then col3='NA'; if col4="" then col4='NA';
```

```
end;
```

```
run;
```

```
proc sort data=final; by param paramn apuper apuperc; run;
```

```
data final(rename=(ord=paramn));
```

```
set final;
```

```
by param paramn apuper apuperc;
```

```
retain ord;
```

```

    if first.param then ord=paramn;

    drop paramn;

run;

proc sort data=final; by paramn param apuper apuperc; run;

data final;

    set final;

    pageno=ceil(_n_/20);;

run;

data odata.%sysfunc(scan(&prgname,1,'_'));;

    set final;

run;

%global totalpage;

data _null_;

    set final end=eof;

    if eof then do;

        call symput('totalpage', trim(left(put(pageno,8.))));

    end;

run;

%put totalpage=&totalpage;

```

```

%trtrtf(pgmname=&outname., pgmid=1, new=0, style=, bookmark=%lowercase(&outname.));

options nomprint nosymbolgen;

%macro reppart;

%do i = 1 %to &totalpage;

proc report data=final(where=(pageno=&i.)) headskip headline spacing=4 nowd split='|'
style=[outputwidth=100%] style(header column)=[protectspecialchars=off];

column pageno paramn param apuper apuperc order2 stat col1-col3;

define pageno /order order=internal noprint;

define paramn /order order=internal noprint;

define apuper /order order=internal noprint;

define order2 /order order=internal noprint;

define param /order "Product" style(column)=[cellwidth=15% asis=on]
style(header)=[just=l];

define apuperc /order "Product Use|Time Periods" style(column)=[cellwidth=20% asis=on]
style(header)=[just=l];

define stat /display "Statistic" style(column)=[cellwidth=10% asis=on]
style(header)=[just=l];

define col1 /display "THSm2.2|(N=&n1.)" flow style(column)=[cellwidth=12% just=c];

define col2 /display "mCC|(N=&n2.)" flow style(column)=[cellwidth=12% just=c];

define col3 /display "SA|(N=&n3.)" flow style(column)=[cellwidth=12% just=c];

/* define col4 /display "Overall Safety|(N=&n4.)" flow style(column)=[cellwidth=12% just=c];*/

```



```

compute before apuper ;

    line "";

endcomp;


break after pageno/page;


compute before _page_/style=[fontweight=bold fontsize=3.75];

    line @1 "&title1 &title2";

    line @1 "^R/RTF\brdrb\brdrs\brdrw30\brsp20\b ' ";

endcomp;

compute after _page_/style=[fontsize=1.75];

    line @1 "Note: mCC = Menthol conventional cigarettes; SA = Smoking abstinence; THSm2.2 =
Tobacco Heating System 2.2 Menthol.";

    line @1 "Note: Ambulatory periods defined as Period 2 ([Day 6 ambulatory ♦ Day 30 Visit]), Period
3 ([Day 30 Visit ♦ Day 60 Visit]) and Period 4 ([Day 60 Visit ♦ Day 90 Visit]).";

    line @1 "Note: Percentages are based on the number of subjects indicated in each product use
period (N).";

    line @1 "&APPENDIX.";

    line @1 "Study ID:ZRHM-REXA-07-JP      Program: &fprgname..sas      Status:
&repversion./&fdate.      Page: &i of &totalpage.";

endcomp;


run;

%end;


%mend;

%reppart;

```

```
ods listing;
```

```
ods rtf close;
```