

/*=====

*Covance Study ID : 000000106343

*Program Name : t_cyp2a6_excl_pp.sas

*Purpose : Table 15.2.4.62.1.1(Descriptive Statistics of CYP2A6 ACTIVITY (%) - PP;

*Input Data : adam.adsl, ADAM.adbx

*Output Data :

*Macros Called :

*Programmed by : cvn_pshe

*Creation Date : 2015-05-13

Modification History

Modified by :

Modification Date :

Modification Description:

-----*/

proc datasets lib=work kill memtype=data nolist;

run;

%m_printto;

options notes nosource;

options notes source source2 nofullstimer validvarname=upcase missing=' ';

ods _all_ close;

ods listing;

```
*=====;
```

```
* START OF PROGRAM CODE          ;
```

```
*=====;
```

```
%let tflno=T_15_02_04_62_01_01;
```

```
%let TFL_Part=%scan(&_SASPROGRAMFILE,-3,%str(/));
```

```
data _null_;
```

```
    tmp("&TFL_Part";
```

```
        if tmp not in ("dev" "qc") then call symput("TFL_Part", "prod");
```

```
        call symput('TFLpath', compress("&_SASPROGRAMFILE", ""));
```

```
            call
```

```
symput('TFLprg',reverse(scan(strip(reverse(compress("&_SASPROGRAMFILE", ""))),1,"/")));
```

```
run;
```

```
/*Macro to get N values from adam.adsl for column headers for each period per Mock*/
```

```
%macro trt(pfl= );
```

```
proc sql;
```

```
    %global trt1 trt2 trt3;
```

```
    select count(distinct usubjid) into: trt1 from adam.adsl(where=(trt01an = 4 and &pfl.));
```

```
    select count(distinct usubjid) into: trt2 from adam.adsl(where=(trt01an = 5 and &pfl.));
```

```
    select count(distinct usubjid) into: trt3 from adam.adsl(where=(trt01an = 3 and &pfl.));
```

```
quit;
```

```
%mend;
```

```
/*macro for general mean stats(n mean std median min max Q25 Q75 lclm uclm)for each period per  
mock;*/
```

```
%macro mmeans(pfl=, prd=, class=, var=, out=);
```

```
/*get N values for column headers for each period*/
```

```
%trt(pfl=&pfl.);
```

```
/*Bring in data from ADBX for plasma cyp2a6 activity - PP Set for each period per Mock*/
```

```
data adbx1;
```

```
    set adam.adbx;
```

```
    where anl02fl='Y' and anl03fl='Y' and paramcd in ('CYP2A6') and &prd.;
```

```
    if          trtan=4 then trt=1;
```

```
    else if trtan=5 then trt=2;
```

```
    else if trtan=3 then trt=3;
```

```
run;
```

```
data adbx;
```

```
    set adbx1;
```

```
    if ablfl='Y' then avisit='Baseline';
```

```
run;
```

```
proc means data=adbx noprint nway;
```

```
    var &var.;
```

```
    class &class. trt;
```

```
output out=results02 n=n1 mean=mean1 std=sd1 median=median1 min=min1 max=max1 q1=q1  
q3=q3 lclm=lci1 uclm=uci1;
```

```
run;
```

```
proc sort data=results02;
```

```
by avisitn avisit atptn atpt trt;
```

```
run;
```

```
data adbx_blq;
```

```
set adbx;
```

```
where AQLFL='Y';
```

```
run;
```

```
proc freq data=adbx_blq noprint;
```

```
table trt*trta*avisitn*avisit*atptn*atpt / out =blq(drop=percent);
```

```
run;
```

```
proc sort data=blq;
```

```
by avisitn avisit atptn atpt trt;
```

```
run;
```

```
data results02;
```

```
merge results02 blq;
```

```
by avisitn avisit atptn atpt trt;
```

```
rename count=blq;
```

```
run;
```

```
/*get N for baseline(for calculate change colume of <missing, n(%)>)*/*
```

```
data bs;
```

```
    set results02;
```

```
    if avisit="Baseline";
```

```
run;
```

```
data tot;
```

```
    set bs;
```

```
    call symput('trtb' || compress(put(trt,best.)), compress(put(n1,best.)));
```

```
run;
```

```
%put trtb1=&trtb1 trtb2=&trtb2 trtb3=&trtb3;
```

```
data results03;
```

```
    set results02;
```

```
    attrib meansd length=$20.
```

```
        minmax length=$20.
```

```
        n    length=$20.
```

```
        miss length=$20.
```

```
        median length=$20.
```

```
        quart aci length=$20.;
```

```
n = left(compress(put(n1,8.)));
```

```
    *for <missing, n(%)>;
```

```

if trt=1 then do;

    if not missing (blq) then blq1=strip(put(blq, 8.)) || ' (' || strip(put(blq*100/n1, 8.1)) || ")";

                                                                    if &trt1.=n1 then

miss="";

                                                                    else

miss=strip(put((&trt1.-n1), 8.)) || ' (' || strip(put(((&trt1.-n1)*100)/&trt1., 8.1)) || ")";

                                                                    end;

    else if trt=2 then do;

        if not missing (blq) then blq1=strip(put(blq, 8.)) || ' ('

|| strip(put(blq*100/n1, 8.1)) || ")";

                                                                    if &trt2.=n1 then

miss="";

                                                                    else

miss=strip(put((&trt2.-n1), 8.)) || ' (' || strip(put(((&trt2.-n1)*100)/&trt2., 8.1)) || ")";

                                                                    end;

    else if trt=3 then do;

        if not missing (blq) then blq1=strip(put(blq, 8.)) || ' ('

|| strip(put(blq*100/n1, 8.1)) || ")";

                                                                    if &trt3.=n1

then miss="";

                                                                    else

miss=strip(put((&trt3.-n1), 8.)) || ' (' || strip(put(((&trt3.-n1)*100)/&trt3., 8.1)) || ")";

                                                                    end;

```

```

IF NOT MISSING(MEDIAN1) THEN MEDIAN = LEFT(COMPRESS(PUT(ROUND(MEDIAN1,0.001),10.3)));

IF NOT MISSING(MEAN1) AND NOT MISSING(SD1) THEN meansd =
LEFT(COMPRESS(PUT(ROUND(MEAN1,0.001),10.3)))||"
(" || STRIP(PUT(0.0001*CEIL(SD1/0.0001),10.4)) || ")";

IF NOT MISSING(MIN1) AND NOT MISSING(MAX1) THEN minmax = strip(put(min1, 10.2))||",
" || strip(put(max1, 10.2));

```

```
IF NOT MISSING(Q1) AND NOT MISSING(Q3) THEN QUART =  
LEFT(COMPRESS(PUT(ROUND(Q1,0.001),10.3))) || ', ' ||  
LEFT(COMPRESS(PUT(ROUND(Q3,0.001),10.3))));
```

```
IF NOT MISSING(LCI1) AND NOT MISSING(UCI1) THEN ACI =  
STRIP(PUT(0.001*FLOOR(LCI1/0.001),10.3)) || ', ' || STRIP(PUT(0.001*CEIL(UCI1/0.001),10.3));
```

```
drop n1 mean1 sd1 median1 min1 max1 q1 q3 uci1 lci1 blq ;
```

```
run;
```

```
proc transpose data=results03 out=&out prefix=r name=varname;
```

```
by &class.;
```

```
var n miss meansd median minmax aci quart blq1;
```

```
id trt;
```

```
run;
```

```
data &out.;
```

```
set &out.;
```

```
length stat $200;
```

```
if varname='N' then do; statord=1; stat='n'; end;
```

```
if varname='BLQ1' then do; statord=2.2; stat='BLOQ, n (%)'; end;
```

```
if varname='MISS' then do; statord=2; stat='Missing, n(%)'; end;
```

```
if varname='MEDIAN' then do; statord=5; stat='Median'; end;
```

```
if varname='QUART' then do; statord=6; stat='Q25, Q75'; end;
```

```
if varname='MINMAX' then do; statord=7; stat='Min, Max'; end;
```

```
if varname='MEANSD' then do; statord=8; stat='Mean (SD)'; end;
```

```
if varname='ACI' then do; statord=9; stat='95% CI of Mean'; end;
```

```
run;
```

```
%mend;
```

```
%mmeans(pfl=(PPROT1FL='Y'), prd=(PPROT1FL='Y' and avisit in ('Day 0' 'Day 1' 'Day 2' 'Day 3' 'Day 4' 'Day 5' 'Day 6/Discharge Confinement')), class=avisitn avisit atptn atpt, var=aval, out=out_p1);
```

```
%mmeans(pfl=(PPROT2FL='Y'), prd=(PPROT2FL='Y' and avisit in ('Day 30' 'Day 0')), class=avisitn avisit atptn atpt, var=aval, out=out_p2);
```

```
%mmeans(pfl=(PPROT3FL='Y'), prd=(PPROT3FL='Y' and avisit in ('Day 60' 'Day 0')), class=avisitn avisit atptn atpt, var=aval, out=out_p3);
```

```
%mmeans(pfl=(PPROT4FL='Y'), prd=(PPROT4FL='Y' and avisit in ('Day 90' 'Day 0')), class=avisitn avisit atptn atpt, var=aval, out=out_p4);
```

```
%mmeans(pfl=(PPROT1FL='Y'), prd=(PPROT1FL='Y' and avisit in ('Day 0' 'Day 1' 'Day 2' 'Day 3' 'Day 4' 'Day 5' 'Day 6/Discharge Confinement')), class=avisitn avisit atptn atpt, var=pchg, out=out_c1);
```

```
%mmeans(pfl=(PPROT2FL='Y'), prd=(PPROT2FL='Y' and avisit in ('Day 0' 'Day 30' )), class=avisitn avisit atptn atpt, var=pchg, out=out_c2);
```

```
%mmeans(pfl=(PPROT3FL='Y'), prd=(PPROT3FL='Y' and avisit in ('Day 0' 'Day 60' )), class=avisitn avisit atptn atpt, var=pchg, out=out_c3);
```

```
%mmeans(pfl=(PPROT4FL='Y'), prd=(PPROT4FL='Y' and avisit in ('Day 0' 'Day 90' )), class=avisitn avisit atptn atpt, var=pchg, out=out_c4);
```

```
/*macro for Geometric Mean per mock;*/
```

```
%macro mmeans(prd=, class=, var=, out=);
```

```
/*Bring in data from ADBX for CYP2A6 - PP Set for each period per Mock*/
```

```
data adbx1;
```

```
    set adam.adbx;
```

```
    where anl02fl='Y' and anl03fl='Y' and paramcd in ('CYP2A6') and &prd.;
```

```
    if          trtan=4 then trt=1;
```

```
    else if trtan=5 then trt=2;
```

```
    else if trtan=3 then trt=3;
```



```
run;
```

```
data adbx;
```

```
    set adbx1;
```

```
    if ablfl='Y' then avisit='Baseline';
```

```
    if aval ne 0 and aval ne . then logaval=log(aval);
```

```
run;
```

```
proc means data=adbx noprint nway;
```

```
    var &var.;
```

```
    class &class. trt;
```

```
    output out=results02 mean=mean std=std1 lclm=lci1 uclm=uci1;
```

```
run;
```

```
data results03;
```

```
    set results02;
```

```
    gmean1=exp(mean);
```

```
    gmean=left(compress(put(round(gmean1,0.001), 8.3)));
```

```
    if not missing(std1) then gcv=compress(put(0.0001*ceil((sqrt(exp(std1*std1)-1)*100)/0.0001),8.4));
```

```
    glci=exp(lci1);
```

```
    guci=exp(uci1);
```

```
    if not missing(gcv) then gmeancv=left(trim(gmean)) || ' (' || left(trim(gcv)) || ')';
```

```
    else gmeancv=left(trim(gmean));
```

```
    if not missing(glci) and not missing(guci) then ci = strip(strip(put(0.001*floor(glci/0.001),8.3)) ||  
' , ' || strip(put(0.001*ceil(guci/0.001),8.3)));
```

```
run;
```

```
proc transpose data=results03 out=&out. prefix=r name=varname;
```

```
by &class;
```

```
var gmeancv ci;
```

```
id trt;
```

```
run;
```

```
data &out.;
```

```
set &out.;
```

```
length stat $200;
```

```
if varname='GMEANCV' then do; statord=3; stat='Geometric Mean (CV%)'; end;
```

```
if varname='CI' then do; statord=4; stat='95% CI of Geometric Mean'; end;
```

```
run;
```

```
%mend;
```

```
%mmeans(prd=(PPROT1FL='Y' and avisit in ('Day 0' 'Day 1' 'Day 2' 'Day 3' 'Day 4' 'Day 5' 'Day 6/Discharge  
Confinement')), class=avisitn avisit atptn atpt, var=logaval, out=out_g1);
```

```
%mmeans(prd=(PPROT2FL='Y' and avisit in ('Day 30' 'Day 0')), class=avisitn avisit atptn atpt, var=logaval,  
out=out_g2);
```

```
%mmeans(prd=(PPROT3FL='Y' and avisit in ('Day 60' 'Day 0')), class=avisitn avisit atptn atpt, var=logaval,  
out=out_g3);
```

```
%mmeans(prd=(PPROT4FL='Y' and avisit in ('Day 90' 'Day 0')), class=avisitn avisit atptn atpt, var=logaval,  
out=out_g4);
```

```
*check data for BLOQ/ALQ ;
```

```

proc freq data=adbx;

    table bloqfl*aulqfl;

run;


/*macro to set together for each period ;*/
%macro mfinp(dsn=, dsng=, dsnc=, out=);

data ds1;

    set &dsn.(in=p) &dsng.(in=g) ;

run;


proc sort data=dsn1 out=ds1;

    by avisitn avisit atptn statord;

run;


*delete baseline part for Change column;

data dsnc;

    set &dsnc.;

    if avisit="Baseline" then delete;

run;


proc sort data=dsnc out=ds2;

    by avisitn avisit atptn statord;

run;


data &out.;

```

```

retain avisitn avisit atptn tp stat r1 c1 r2 c2 r3 c3 statord;

merge ds1(in=a) ds2(in=c rename=(r1=c1 r2=c2 r3=c3) drop=ATPT VARNAME STAT);

by avisitn avisit atptn statord;

if a;

if avisit="DAY 5" then tp=atpt;

else tp=propcase(avisit);

***should delete <missing, n(%)> if no missing n;

if stat="Missing, n(%)" and r1="" and r2="" and r3="" and c1="" and c2="" and c3="" then delete;

keep avisitn avisit atptn statord tp stat r1 c1 r2 c2 r3 c3;

run;

%mend;

%mfinp(dsn=out_p1, dsng=out_g1, dsnc=out_c1, out=finalp1);

%mfinp(dsn=out_p2, dsng=out_g2, dsnc=out_c2, out=finalp2);

%mfinp(dsn=out_p3, dsng=out_g3, dsnc=out_c3, out=finalp3);

%mfinp(dsn=out_p4, dsng=out_g4, dsnc=out_c4, out=finalp4);

/*create final dataset per mock;*/

data final;

    set finalp1(in=p1) finalp4(in=p4) ;

    if p1 then period="1";

```

```
    if p4 then period="4";  
if stat='BLOQ, n (%)' and r1="" and r2="" and r3="" then delete;  
if stat='BLOQ, n (%)' then do; c1=""; c2=""; c3=""; end;
```

```
    if stat='Missing, n(%)' and avisit='Baseline' then do;  
        if r3="" then r3='0';  
        if r2="" then r2='0';  
        if r1="" then r1='0';  
    end;  
    else if stat='Missing, n(%)' and avisit ^= 'Baseline' then do;
```

```
        if r3="" then r3='0';  
        if r2="" then r2='0';  
        if r1="" then r1='0';  
        if c3="" then c3='0';  
        if c1="" then c1='0';  
        if c2="" then c2='0';  
    end;
```

```
if stat='BLOQ, n (%)' then do;  
    if r3="" then r3='0';  
    if r2="" then r2='0';  
    if r1="" then r1='0';  
end;
```

```
if avisit='Baseline' and r3="" and r1="" and r2="" then delete;
```

```
        if avisit ^= 'Baseline' and r3="0" and r1="0" and r2="0" and c3="0" and c1="0" and c2="0" then  
delete;
```

```
run;
```

```
/*output report data; */
```

```
proc sql noprint;
```

```
        create table tflds.&tflno as
```

```
        select period, avisitn, atptn, tp, statord, stat, r1 as thsm2_2, c1 as thsm2_2_chg, r2 as mCC, c2 as  
mCC_chg, r3 as SA, c3 as SA_chg
```

```
        from final
```

```
        order by period, avisitn, atptn, statord;
```

```
quit;
```

```
proc sort data=final;
```

```
        by period avisitn atptn statord;
```

```
run;
```

```
data paging;
```

```
        set final;
```

```
        by period avisitn atptn statord;
```

```
                if period ='1' and atptn=1 then page=1;
```

```
                else if period ='1' and atptn=7 then page=2;
```

```
                else if period ='4' and atptn=1 then page=3;
```

```
                else if period ='4' and atptn=12 then page=4;
```

```
call symput("page",compress(put(page,best.)));  
run;
```

```
*****,  
,
```

```
*create output report ;
```

```
*****,  
,
```

```
/*get N for each period for column header*/
```

```
proc sql;
```

```
select count(distinct usubjid) into: N1THS from adam.adsl(where=(trt01an = 4 and pprot1fl = "Y"));
```

```
select count(distinct usubjid) into: N1MCC from adam.adsl(where=(trt01an = 5 and pprot1fl = "Y"));
```

```
select count(distinct usubjid) into: N1SAA from adam.adsl(where=(trt01an = 3 and pprot1fl = "Y"));
```

```
select count(distinct usubjid) into: N2THS from adam.adsl(where=(trt01an = 4 and pprot2fl = "Y"));
```

```
select count(distinct usubjid) into: N2MCC from adam.adsl(where=(trt01an = 5 and pprot2fl = "Y"));
```

```
select count(distinct usubjid) into: N2SAA from adam.adsl(where=(trt01an = 3 and pprot2fl = "Y"));
```

```
select count(distinct usubjid) into: N3THS from adam.adsl(where=(trt01an = 4 and pprot3fl = "Y"));
```

```
select count(distinct usubjid) into: N3MCC from adam.adsl(where=(trt01an = 5 and pprot3fl = "Y"));
```

```
select count(distinct usubjid) into: N3SAA from adam.adsl(where=(trt01an = 3 and pprot3fl = "Y"));
```

```
select count(distinct usubjid) into: N4THS from adam.adsl(where=(trt01an = 4 and pprot4fl = "Y"));
```

```
select count(distinct usubjid) into: N4MCC from adam.adsl(where=(trt01an = 5 and pprot4fl = "Y"));
```

```
select count(distinct usubjid) into: N4SAA from adam.adsl(where=(trt01an = 3 and pprot4fl = "Y"));
```

```
quit;
```

```
options number nodate orientation=landscape /* papersize=&P_PGSIZE*/ missing=' ';
```

```
ods escapechar='$';
```

```
%let linetop = \brdrt\brdrs\brdrw30; * needs to be 1.5pt so calculated in twips (1/20 pt) ;
```

```
%let linebot = \brdrb\brdrs\brdrw30;
```

```
%macro outrtf(blankn=130, halfblnk=N, dsn=);
```

```
ods path stdlib.t106343 (read) ;
```

```
ods results off;
```

```
ods rtf toc_data file="/cvn/projects/prj/data/000000106343/TFL/&TFL_Part./Tables/&tflno..rtf"  
style=t106343 startpage=yes headery=1440 footery=1440 ;
```

```
ods noproctitle;
```

```
%do i=1 %to &page;
```

```
title ;
```

```
footnote;
```

```
%let wd=0;
```

```
%let subpage=1;
```

```
%do j=1 %to &subpage;
```

```
%let maxpage=%eval(&page*&subpage);
```



```

%let npage=%eval(&subpage*&i+&j-&subpage);

data comp;

    set paging end=eof;

        where page=&i;

/* Amend title as needed */

    _firtitl="Table 15.2.4.62.1.1 Descriptive Statistics of CYP2A6 Activity (%) Excluding Assessments within
5 Half-Lives of a Concomitant Medication Affecting CYP2A6 Activity - PP Set";

    _upcas=(length("Path: &TFLpath.")-
length(compress("Path:&TFLpath.",'ABCDEFGHIJKLMNOPQRSTUVWXYZ')))/2;

    len=&blankn.-length("(page &npage of &maxpage)");

    if eof then do;

        call symput('_FSRTITL', trim(left(_firtitl)));

        call symput('_blankn', compress(put(len,best.)));

    end;

drop _firtitl _upcas len;

if _n_=1 then

    do;

        call symput('title2', "Product Use Time Period: Period " || Period );

        *create trt1/trt2/trt3 N for each period for column header;

        if period="1" then do;

            call
symput('trt1', strip(put(&N1THS., best.)));

```

	call
symput('trt2', strip(put(&N1MCC., best.)));	
	call
symput('trt3', strip(put(&N1SAA., best.)));	
	end;
else if period="2" then do;	
	call
symput('trt1', strip(put(&N2THS., best.)));	
	call
symput('trt2', strip(put(&N2MCC., best.)));	
	call
symput('trt3', strip(put(&N2SAA., best.)));	
	end;
else if period="3" then do;	
	call
symput('trt1', strip(put(&N3THS., best.)));	
	call
symput('trt2', strip(put(&N3MCC., best.)));	
	call
symput('trt3', strip(put(&N3SAA., best.)));	
	end;
else if period="4" then do;	
	call
symput('trt1', strip(put(&N4THS., best.)));	
	call
symput('trt2', strip(put(&N4MCC., best.)));	
	call
symput('trt3', strip(put(&N4SAA., best.)));	
	end;
end;	

ods listing close;

* most set up in template others below;

* title arial 12pt bold with 12pt paragraph space below;

* all headers to be arial 11pt bold;

* data arial 10pt;

* headers to be central, text values left aligned and numeric centered around decimal point;

/* Update with your variables as needed */

```
proc report data = comp headline headsip nowd split = '$' %if &i=1 %then %do; contents=' '
%end; %else %do; contents="" %end;;;
```

column page avisitn atptn tp statord stat

```
%if &j=1 %then %do; ("THSm2.2 $(N=&trt1)&linebot" r1 c1) ("mCC$(N=&trt2)&linebot"
r2 c2)
```

```
("SA$(N=&trt3)&linebot" r3 c3) %end;;
```

```
define page / order order = internal noprint;
```

```
define avisitn / order order=internal noprint;
```

```
define atptn / order order=internal noprint;
```

```
define tp / group style={just=left cellwidth=3.2cm} style(header)={just=center} "Timepoint";
```

```
define statord / order order = internal noprint;
```

```
define stat / display style={just=left cellwidth=3.2cm} style(header)={just=center} "Statistic";
```

```
%if &j=1 %then %do;
```

```
define r1 /"Value" display style={just=c cellwidth=2cm}
style(header)={just=center} ;
```

```

        define r2      /"Value" display style={just=c cellwidth=2cm}
style(header)={just=center} ;

        define r3      /"Value" display style={just=c cellwidth=2cm}
style(header)={just=center};

        define c1      /"% Change(*)" display style={JUST=c cellwidth=2.1cm}
style(header)={just=center};

        define c2      /"% Change(*)" display style={just=c cellwidth=2cm}
style(header)={just=center};

        define c3      /"% Change(*)" display style={just=c cellwidth=2.2cm}
style(header)={just=center};

        %end;

```

```

        break after page / page;

```

```

compute before page / style={protectspecialchars=off};

```

```

        line "&linetop";

```

```

endcomp;

```

```

compute before _page_ / style={just=left protectspecialchars=off};

```

```

        line "\b\fs24\sa24&_FSRTITL." ; * \b = bold, \fs24 is font size 12pt, \sa24 is space after 12pt;

```

```

                line " ";

```

```

                line "&title2";

```

```

        line "&linebot";

```

```

endcomp;

```

```

compute after _page_ / style={just=left protectspecialchars=off pretext="&linetop."};

```

```

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

```

```
line "Note: 'Missing' percentages are based on the number of subjects indicated in the  
column header (N), while 'BLOQ' percentages are based on the number of subjects being summarized  
(n).";
```

```
line "Note: * % change from baseline, where baseline is defined as the last assessment  
prior to first randomized product use in mCC / THS 2.2 Menthol arms or the";
```

```
line "last assessment prior to 10 AM on Day 1 in the SA arm.";
```

```
line ' ';
```

```
line "Appendix 15.3.6.20";
```

```
line "Study ID:ZRHM-REXA-08-US Program:&TFLprg Status: &status" &_blankn.*"\~\~"  
"&sysdate" &_blankn.*"\~\~" "(Page &i of &page)";
```

```
endcomp;
```

```
run;
```

```
%end;
```

```
%end;
```

```
ods rtf close;
```

```
ods results on;
```

```
ods path sashelp.tmplmst (read);
```

```
%mend ;
```

```
%outrtf(blankn=36, halfblank=N);
```

```
proc printto ; run;
```

```
%m_logchk;
```

```
*=====;
```

```
* END OF PROGRAM CODE ;
```

*=====;