

```
/*=====
```

```
*Covance Study ID   : 000000106343
```

```
*Program Name       : t_cyp2a6_pp.sas
```

```
*Purpose            : Table 15.2.4.62.1(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;
```

```
%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 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 activity - PP Set for each period per Mock*/
```

```
data adbx1;
```

```
    set adam.adbx;
```

```
    where anl02fl='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);
```

```
/*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=ds1 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="" and r1="" and r2="" and c3="" and c1="" and c2="" 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_PGSIIZE*/ 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 Descriptive Statistics of 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;

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


ods listing close;

proc printto ; run;


%m_logchk;

*=====;

* END OF PROGRAM CODE                                ;

*=====;

```

