

```

%_mprintto;
options notes nosource;
proc datasets lib=work nolist memtype=data kill; quit;
/* Standard - leave this */
%let TFL_Part=%scan(&_SASPROGRAMFILE,-3,%str(/));

/* Standard - leave this */
data _null_;
    tmp="%TFL_Part";
    if tmp not in ("dev" "qc") then call symput("TFL_Part", "prod");
    call symput('TFLpath', compress("&_SASPROGRAMFILE",""));
run;
%put NOTE:
=====;
%put NOTE: Covance Study Number : 000000106326;
%put NOTE: Client Protocol ID   : ZRHM-PK-05-JP;
%put NOTE: Program Name        : tf_anlcohb.sas;
%put NOTE: Purpose              : table and figure of cohb data;
%put NOTE: ;
%put NOTE: Input Data           : ADAM.ADBX;
%put NOTE: Output               : L_15_04_04_07(COHB) T_15_2_4_7(COHB)
F_15_01_02_07_01(COHB) F_15_01_02_07_02(COHB) ;
%put NOTE: Macros Called        : _MPRINTTO;
%put NOTE: ;
%put NOTE: Programmed by        : cvn_ahall;
%put NOTE: Creation Date        : 2014-05-29;
%put NOTE: SAS Version          : 9.3;
%put NOTE: ;
%put NOTE: == Latest Run
=====;
%put NOTE: Run by                : &sysuserid;
%put NOTE: Date/Time             :
%sysfunc(putn(%sysfunc(date()),e8601da.))T%sysfunc(putn(%sysfunc(time()),
e86011z.));
%put NOTE: ;
%put NOTE: == Modification History
=====;
%put NOTE: Date      Initials    No. Reason;
%put NOTE: 25Jun2014 AMH         2) Title amended;
%put NOTE: 25Jun2014 AMH         5) Small n in statistics row;
%put NOTE: 25Jun2014 AMH         6) Conservative rounding of Ci and SD;
%put NOTE: 25Jun2014 AMH         7) Add COhb listing to reference list;
%put NOTE: 25Jun2014 AMH         8) Ammend footnotes;
%put NOTE: 25Jun2014 AMH         9) Consistent Y axes;
%put NOTE: 25Jun2014 AMH        10) Change Gmean (CV%) statistic label
;
%put NOTE: 25Jun2014 AMH        11) Figures X axes linear scale;
%put NOTE: 25Jun2014 AMH        12) Change symbol for overall point on
plot;
%put NOTE: 25Jun2014 AMH        13) add where clause used on dataset to
listing;
%put NOTE: 25Jun2014 AMH        14) Amend Menthol to menthol;
%put NOTE: 25Jun2014 AMH        15) Amend NNS footnote;
%put NOTE: 08Aug2014 AMH        16) Center output;

```

```

%put NOTE: 08Aug2014    AMH           17) Ammend Figure Footnote;
%put NOTE: 08Aug2014    AMH           18) Add T0 footnote;
%put NOTE: 23Sep2014    APH           19) Create xls spreadsheet of data;
%put NOTE: 23Sep2014    APH           20) Move figures and footnotes outside
of plot;
%put NOTE:
=====;
options notes source source2 nofullstimer validvarname=upcase missing=' '
NOQUOTELNMAX/*turn off warnings about quoted strings to long*;;
ods _all_ close;
ods listing;

/*formats macro and appendix output macros*/
%include
"/cvn/projects/prj/development/000000106326/dev/adhoc/TMPLTMIX.sas";

*=====;
* START OF PROGRAM CODE                                     ;
*=====;

*****;
* read in data ;
*****;
/* Calculate totals for products */
data adsl;
    set adam.adsl(where=(pprotfl='Y'));
    if analgrln=1 then do;
        if index(trt01a,'THS 2.2') or index(trt02a,'THS 2.2') then
colord=1;
        output;
        if index(trt01a,'CC') or index(trt02a,'CC') then colord=2;
        output;
    end;
    else if analgrln=2 then do;
        if index(trt01a,'THS 2.2') or index(trt02a,'THS 2.2') then
colord=1;
        output;
        if index(trt01a,'NRT') or index(trt02a,'NRT') then colord=2;
        output;
    end;
    else if missing(analgrln) then delete;
run;

proc sort data=adsl nodupkey out=adsl1;
    by analgrln analgrl colord subjid;
run;

proc freq data=adsl1(where=(not missing(colord))) noprint;
    table analgrln*analgrl*colord/ out =totals2(drop=percent
rename=(count=total));
run;

data _null_;

```

```

        set totals2;
        call
symput('tot' || strip(put(colord,best.)) || strip(put(analgrln,best.)), strip(
put(total,best.)));
run;

```

```

proc sort data=adam.adbx(where=(anl02fl='Y' and pprotfl='Y' and
paramcd='CARBXHGB' and atptn>0))
        out=adbxin;
        by analgrln;
run;

```

```

data adbx1 missing;
    set adbxin;
    if aval not in (.,0) then do;
        logaval=log(aval);
        output adbx1;
    end;
    else output missing;
run;

```

```

/*treatment and timpoint formats to display text rather than numbers for
listing*/
%fmt(datain=adbx1, start=trtan, label=trta, name=trt);
%fmt(datain=adbx1, start=atptn, label=atpt, name=tpt);
%fmt(datain=adbx1, start=analgrln, label=analgrl, name=grp);

```

```

data adbx;
    set adbx1;
    format trtan trt. atptn tpt.    analgrln grp.;
run;

```

```

title1 j=1 "PAGESPLIT"; /*do not change*/
title2 j=1 'PK #byvall';
title3 j=1 'Proc Mixed Procedure';
TITLE4 J=L "The where clause used on the dataset adam.adbx: anl02fl='Y'
and pprotfl='Y'"; /* 13) AMH 25Jun2014 */
%let tflno=L_15_04_04_07(COHB);

```

```

%mixout1(fileout=/cvn/projects/prj/data/000000106326/TFL/&TFL_Part./&tfln
o);
options ps=28;

```

```

proc mixed data=adbx method=reml maxiter=200 order=internal;
    by analgrln;
    class subjidn trtseqan trtan aperiod atptn;
    model logaval = trtseqan aperiod trtan atptn trtan*atptn / outp=pred;
    random subjidn(trtseqan);
    repeated atptn / subject=subjidn*trtan type=csh;
    lsmeans trtan / pdiff alpha=0.05 cl;
    lsmeans trtan*atptn / pdiff alpha=0.05 cl;
    ods output lsmeans=lsmeans;

```

```

        ods output diffs=diffs(where=(atptn=_atptn));
        ods output ConvergenceStatus=status;
run;

/*Residual Plots*/
title3 j=1 'Residual Plots';
options ps=27; /*change this for proc plot*/

proc rank data=pred out=resid normal=vw ;
  by analgr1n ;
  ranks nscore;
  var resid;
run;

proc plot data=resid hpercent=50;
  by analgr1n ;
  plot resid*pred / vref=0;
  plot resid*nscore;
run;
quit;

%mixout2(blankn=70, halfblnk=N,title=Listing 15.4.4.7 Analysis of Blood
COHb (%nrbquote(%)) - PK Population);

/*data counts*/
/*timepoints*/
proc univariate data=adbx noprint;
  by analgr1n;
  class trtan atptn;
  var logaval;
  output out=num1 n=n1;
run;
/*overall*/

proc sql;
create table num2 as
select analgr1n, paramcd, trtan, count(distinct usubjid) as n1
from adbx
where not missing(logaval)
group by analgr1n, paramcd, trtan;
quit;

/*Manipulate datasets for output all relevent stats on each row*/
/*_____*/
data tabout;
  length out $100 stat $100;
  set lsmeans(in=a) diffs(in=b) num1(in=c) num2(in=d);
  /*ordering columns of treatmnts*/
  if b then colord=3;

```

```

else if trtan=4 then colord=1;
else if trtan in (5,7) then colord=2;

/* N row*/
if c or d then do;
    ord=1;
    stat=/'N'/'n'; /* 3) AMH 25Jun2014 */
    out=compress(put(n1,best.));
    output;
end;

if a or b then do;
/*Back transformation*/
estimatee=exp(estimate);
lowere=exp(lower);
uppere=exp(upper);
geocv=100*sqrt(exp(stderr)-1);
/*Gmean (CV%) row*/
    ord=2;
    stat=/'GMean (CV%)'/'Geometric LS Mean (CV%)'; /* 8) AMH
13Jun2014 */
    if colord=3 then
out=compress(put(round(100*estimatee,0.01),8.2))||'
('||compress(put(/'round(geocv,0.01)'/CEIL(GEOCV*100)/100,8.2))||')'; /*
4) AMH 13Jun2014 */
        else out=compress(put(round(estimatee,0.01),8.2));
        output;
/*95% CI row*/
        ord=3;
        stat='95% CI';
        if colord=3 then
out=compress(put(/'round(100*lowere,0.01)'/FLOOR(100*100*LOWERE)/100,8.2)
)||',
'||compress(put(/'round(100*uppere,0.01)'/CEIL(100*100*UPPERE)/100,8.2));
/* 4) AMH 13Jun2014 */
        else
out=compress(put(/'round(lowere,0.01)'/FLOOR(100*LOWERE)/100,8.2))||',
'||compress(put(/'round(uppere,0.01)'/CEIL(100*UPPERE)/100,8.2)); /* 4)
AMH 13Jun2014 */
        output;
    end;
run;

/*Add labels for all number variables*/
/*_____*/
data tabout1;
set tabout;
/*subscript in tpoint labels*/
atpt=tranwrd(put(atptn,tpt.),'T0','T`{sub 0}');
/*overall timepoint label*/
if missing(atptn) then do;
    atptn=0;
    atpt='Overall';

```

```

        end;
/*Variable label*/
var='Blood COHb (%)';
run;

/*transpose for output*/
proc sort data=tabout1;
    by analgr1n atptn ord colord;
run;

proc transpose data=tabout1 out=ttabout(drop=_NAME_) prefix=col;
    by analgr1n var atptn atpt ord stat;
    id colord;
    var out;
run;

/* Standard - macro for paging */
%macro outrtf(blankn=68, halfblnk=N, ref=);

/* treatment column headers and footnotes */
/*group 1*/
%let col11=THS 2.2 Menthol#(N=&tot11);
%let col21=mCC#(N=&tot21);
%let col31=THS 2.2 Menthol:#mCC Ratio (%);
%let foot1=%str(mCC = menthol conventional cigarettes);/* 14) AMH
22JUN2014 */
/*group 2*/
%let col12=THS 2.2 Menthol#(N=&tot12);
%let col22=NRT gum#(N=&tot22);
%let col32=THS 2.2 Menthol:#NRT gum Ratio (%);
%let foot2=%str(NRT gum = Nicotine Replacement Therapy gum);/* 15) AMH
22JUN2014 */

%if &halfblnk=N %then %let halfblnk=;
%else %if &halfblnk=Y %then %let halfblnk=~;

/* Standard - just change the number to match the listing you're working
on. Also change the letters in the*/
/* bracket, eg ccb = current cigarette brands. Make sure to do this at
the top of the code too. */

    %let tflno=T_15_02_04_07(COHB);

/* Standard - leave this */
%let TFL_Part=%scan(&_SASPROGRAMFILE,-3,%str(/));

/* Standard - leave this */
data _null_;
    tmp="%TFL_Part";
    if tmp not in ("dev" "qc") then call symput("TFL_Part", "prod");
    call symput('TFLpath', compress("&_SASPROGRAMFILE",""));

```

```

run;

/*page numbers*/
data paging;
  set ttabout;
  by analgrln atptn;
  retain ln 0 page 0;
  if first.atptn then ln+1;
  if first.analgrln or ln>3 then do;
    page+1;
    ln=1;
  end;
  if last.analgrln then call symput("tpage",compress(put(page,best.)));
run;

/* Standard - leave this */
options number nodate orientation=landscape papersize=&p_pgsz missing='
' NOQUOTELNMAX/*turn off warnings about quoted strings too long*/;
ods escapechar='';
%let linetop = \brdrt\brdrs\brdrw30; * needs to be 1.5pt so calculated
in twips (1/20 pt) ;
%let linebot = \brdrb\brdrs\brdrw30;
%let linebot2 = \brdrb\brdrs\brdrw15;

ods path stdlib.tl06326 (read) ;
ods results off;
ods rtf toc_data/* contents*/
file="/cvn/projects/prj/data/000000106326/TFL/&TFL_Part./&tflno..rtf"
style=tl06326 startpage=yes headery=1440 footery=1440 ;
ods noproctitle;

%do i=1 %to &tpage;

ODS PROCLABEL = ' ';
title ;
footnote;
%let wd=0;

data comp;
  set paging end=eof;
  by atptn ord;
  where page=&i;
  flag=1;
  call symput('grp',compress(put(analgrln,best.)));
  /* Amend title as needed */
  _firtitl="Table 15.2.4.7 Analysis of Blood COHb (%) - PK
Population";
  _upcas=(length(_firtitl)-
length(compress(_firtitl,'ABCDEFGHIJKLMNOPQRSTUVWXYZ')))/2;
  len=&blankn.-length("(Page &i of &tpage)");
  if eof then do;

```

```

        call symput('_FSRTITL', trim(left(_firtitl)));
        call symput('_blankn', compress(put(len,best.)));
    end;
    drop _firtitl _upcas len;
run;
/*%if &grp=1 %then %let grp=1;*/
/*%else %let grp=2;*/

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 missing nowd spanrows split =
'#'
%IF &I=1 %THEN %DO; CONTENTS=' ' %END; %ELSE %DO; CONTENTS='' %END;;
    column flag page var atptn atpt ord stat ("Group-&grp PK &linebot."
coll col2 col3) ;

    define flag / order noprint;
        define page          / order order = internal noprint;
        define var            / group style={just=left cellwidth=2.5cm} "Variable";
        define atptn          / order order=internal noprint;
        define atpt           / group style={just=left cellwidth=2.1cm} "Time
point";
        define ord            / order order=internal noprint;
        define stat           / display style={just=left cellwidth=3.5cm}
"Statistic";
        define coll           / display style={just=C/*d*/ cellwidth=3cm}
style(header)={just=center} "&coll&grp";
        define col2           / display style={just=C/*d*/ cellwidth=3cm}
style(header)={just=center} "&col2&grp";
        define col3           / display style={just=C/*d*/ cellwidth=3cm}
style(header)={just=center} "&col3&grp"; /* 16) AMH 08Aug2014 */

        break after page / page;

        break before flag / page %IF &I=1 %THEN %DO;
            CONTENTS="&_FSRTITL" %END; %ELSE %DO; CONTENTS='' %END;;

        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 "&linebot";
        endcomp;

```



```

        compute after atptn;
            line " ";
        endcomp;

        compute after _page_ / style={just=left protectspecialchars=off
pretext="&linetop."};
            line "Note: &&foot&grp; THS = Tobacco Heating System.";
/*            line 'Note: GMean and 95%CI are the adjusted geometric least
squares means and confidence intervals from an ANOVA model conducted on
log-transformed data with sequence, period, product, time point and
product *timepoint as fixed effect factors and subject within sequence as
a random effect. Time point is fitted as a repeated effect. CV% is
Geometrical CV% of the ratio is estimated from the residual mean
squares.';*/
            LINE 'Note: Geometric LS Mean and 95% CI are the adjusted
geometric least squares means based on an ANOVA model. Geometrical CV% of
the ratio is estimated only for the ratio.';
            LINE 'Note: T`{sub 0} = Time of first product-use at single use
day';/* 18) AMH 08Aug2014 */
line "Note: Comparison overall time points is the main comparison.";
/*            line "Note: &&foot&grp; THS = Tobacco Heating System.";*/
            line "";
            line "Appendix &ref.";
            line "Path: &TFLpath." &_blankn.*"\~\~" "(Page &i of
&tpage)";
            line "Program Run: &sysdate &sysuserid Program Status:
&status";
        endcomp;

run;
%end;
ods rtf close;
ods results on;
ods path reset;

%mend ;

%outrtf(blankn=69, halfblnk=N, ref=15.4.4.7 and 15.3.3.4); /* 5) AMH
25Jun2014 */

/*Figure Output*/
/*
_____*/

data figpag;
    set tabout1;
    where colord=3 and ord=2;
    by analgr1n atptn;
    atpt=tranwrd(atpt,'T`{sub 0}','T0');
    /*overall timepoint no series plot*/
    est=100*estimatee;

```

```

        low=100*lowere;
        up=100*uppere;
        TYPE=2; /* 9) AMH 25Jun2014 */
        if atptn ne 0 then DO; series=est; TYPE=1; END; /* 9) AMH
25Jun2014 */
        select(atptn);
/*      when (0) figpt=0.5; */
/*      when (6) figpt=2; */
/*      when (10) figpt=3; */
/*      when (12) figpt=4; */
/*      when (15) figpt=5; */
        WHEN (0) FIGPT=-0.5;
        WHEN (6) FIGPT=0.25;
        WHEN (10) FIGPT=1;
        WHEN (12) FIGPT=4;
        WHEN (15) FIGPT=12;
        otherwise figpt=999;
    end;
    retain page 0;
    if first.analgrln then page=1;
    if last.analgrln then call
symput("tpage"||compress(put(analgrln,best.)),compress(put(page,best.)));
    keep analgrln var atptn est low up page atpt series figpt TYPE; /*
9) AMH 25Jun2014 */
run;

/*Create format for timpoint labels*/
%fmt(datain=figpag, start=figpt, label=atpt, name=tpoint);

/* Ensure ODS listing, html etc is turned off to prevent */
/* temporary or junk image files being produced */
title; footnote;
options notes source source2 nofullstimer validvarname=upcase
        nonumber nodate orientation=portrait papersize=&p_pgsize missing=' ';
ods graphics on; /* As we are effectively using ODS graphics we need to
ensure that it is turned on */
ods graphics / noborder height=14 cm width=16 cm; /* Removes border
around the image */
ods path reset;
ods exclude all;
/* please include styles template */
%let temp=/cvn/projects/prj/development/000000106326/dev/macro/;
%include "&temp.figtplt.sas";

%let blankn=70;
%macro graph();

%do grp=1 %to 2;
/*%let ref=15.4.4.7; */
%let ref=15.4.4.7 and 15.2.4.7; /* 17) AMH 08Aug2014 */
%let tflno=F_15_01_02_07_0&grp.(COHB);
/*group 1*/
%let tit1=THS 2.2 Menthol:mCC;
/*group 2*/

```

```

%let tit2=THS 2.2 Menthol:NRT gum;

ods rtf toc_data
file="/cvn/projects/prj/data/000000106326/TFL/&TFL_Part/&tflno..rtf"
style=t106326_g startpage=yes headery=1440 footery=1440 ;
ods exclude all;

%do i=1 %to &&tpage&grp; /* paging can either be done through a do loop
or multiple macro calls */

    data plot;
        set figpag end=eof;
        where page = &i and analgrln=&grp;
        /* macro variables work fine with templates */
        call symput("var", trim(left(var)));
        /* Amend title as needed */
        /*_firtitl="Figure 15.1.2.7.&grp. Blood COHb (%) Profiles
Geometric Least Squares Mean Ratio (&&tit&grp) and 95% CI - Group-
&grp. PK Population";*/ /* 1) AMH 28May2014 */
        _firtitl="Figure 15.1.2.7.&grp. Blood COHb (%) Profiles
Geometric Least Squares Mean Ratio (&&tit&grp) ( $\pm$  95% CI) - Group-&grp.
PK Population";/* 2) AMH 25Jun2014 */ if eof then do;
            call symput('_FSRTITL', trim(left(_firtitl)));
            end;
        drop _firtitl ;
    run;

    /* 19) APH 23SEP2014 */
PROC SQL;
CREATE TABLE PLOT2 AS
SELECT ANALGR1N, ATPT, VAR, EST, LOW, UP, FIGPT
FROM PLOT;
QUIT;

PROC EXPORT
DATA=PLOT2
DBMS=XLSX
OUTFILE="/cvn/projects/prj/data/000000106326/TFL/&TFL_Part./&tflno..xlsx"
REPLACE;
SHEET=Sheet1;
RUN;

    /* 19) APH 23SEP2014 */

ods path reset;
proc template;
    define statgraph temp;
        begingraph /;
        /* we can change the alignment of text using halign=, text
attributes can also be set */
        /*          entrytitle halign=left "&_FSRTITL." /* */
        /*          */
        /*          entrytitle " " ;*/ /* 20) APH 23SEP2014 */

```

```

/* textattrs options include size, color, font, weight and
style */
/* the default text attributes are picked up from the default
rtf styles template */
/* this can be changed using style= in the ods rtf statement
*/
    entrytitle halign=left "Variable: &var" /;
    layout overlay / XAXISOPTS=(label="Time post-product"
/*LINEAROPTS=(TICKVALUEFITPOLICY=rotate viewmin=0 viewmax=5.5
tickvaluelist=(0.5 2 3 4 5)) )*/

    LINEAROPTS=(TICKVALUEFITPOLICY=rotate viewmin=-0.65
viewmax=12.1 tickvaluelist=(-0.5 0.25 1 4 12))
    YAXISOPTS=(label="Geometric LS Mean
Ratio (%)" linearopts=(tickvaluesequence=(start=70 end=110 increment=10)
viewmin=69 viewmax=110)); /* 8) AMH 25Jun2014 */
    referenceline y=100 / lineattrs=(pattern=2);
    scatterplot x=figpt y=est / INDEX=TYPE GROUP=TYPE
yerrorlower=low yerrorupper=up MARKERATTRS=(COLOR=BLACK) ; /* 9) AMH
25Jun2014 */
    seriesplot x=figpt y=series / INDEX=TYPE
primary=true display=(markers) MARKERATTRS=(COLOR=BLACK)
LINEATTRS=(COLOR=BLACK) ; /* 9) AMH 25Jun2014 */

    endlayout;
/* footnotes work using the same option as the entrytitle
statement */

/*    entryfootnote halign=left 'Note: GMean and 95%CI are the
adjusted geometric least squares means and confidence intervals from an
ANOVA model conducted on log-transformed data with sequence, period,
product, time point and product *timepoint as fixed effect factors and
subject within sequence as a random effect. Time point is fitted as a
repeated effect. CV% is Geometrical CV% of the ratio is estimated from
the residual mean squares.';*/
/*    entryfootnote halign=left 'Note: Geometric LS Mean and 95% CI
are the adjusted geometric least squares means based on an ANOVA
model.';*/
/*    ENTRYFOOTNOTE HALIGN=LEFT 'Note: T0 = Time of first
product-use at single use day'; 18) AMH 08Aug2014 */
/*    entryfootnote "";*/
/*    entryfootnote halign=left "Appendix &ref." / ;*/
/*    entryfootnote halign=left "Path: &TFLpath." halign=right
"(Page &i of &&tpage&grp)" / ;*/
/*    entryfootnote halign=left "Program Run: &sysdate &sysuserid
Program Status: &status" / ;*/ /* 20) APH 23SEP2014 */

    endgraph;
end;
run;

ods select all;

```

```

/*%if &i=1 %then ods proclabel "&_FSRTITL."; */
/*%else ods rtf notoc_data;;*/
ods rtf notoc_data;
ods escapechar='^';
ODS RTF PREPAGE="^S={outputwidth=100% just=1 font_size=12pt
font_weight=bold background=white foreground=black
font_face=arial}^R/RTF'\QL' Figure 15.1.2.7.&grp. Blood COHb (%) Profiles
Geometric Least Squares Mean Ratio (&&tit&grp) ( $\pm$  95% CI) - Group-&grp.
PK Population";

```

```

proc sgrender data=plot template=temp objectlabel=''; /* applies the
above template to the specified data */
format figpt tpoint.;
run;

```

```

ODS RTF TEXT="^S={outputwidth=100% just=1 font_size=9pt background=white
foreground=black font_face=arial}^R/RTF'\QL' Note: Geometric LS Mean and
95% CI are the adjusted geometric least squares means and confidence
intervals based on an ANOVA model.";
ODS RTF TEXT="^S={outputwidth=100% just=1 font_size=9pt background=white
foreground=black font_face=arial}^R/RTF'\QL' Note: T0 = Time of first
product-use at single use day.";
ODS RTF TEXT="^S={outputwidth=100% just=1 font_size=9pt background=white
foreground=black font_face=arial}^R/RTF'\QL' Appendix: &ref.";
ODS RTF TEXT="^S={outputwidth=100% just=1 font_size=9pt background=white
foreground=black font_face=arial}^R/RTF'\QL' Path: &TFLpath.
(Page &i of &&tpage&grp)";
ODS RTF TEXT="^S={outputwidth=100% just=1 font_size=9pt background=white
foreground=black font_face=arial}^R/RTF'\QL' Program Run: &sysdate
&sysuserid Program Status: &status";

```

```

%end; %end;
%mend graph;
%graph;

```

```

ods exclude all;
ods path reset;
ods _all_ close;
ods graphics / reset;

```

```

proc printto ; run;
*=====;
* END OF PROGRAM CODE ;
*=====;

```