

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

```
| Covance Study Number   : 000000106343          |
```

```
| Program Name           : t_fibrino_fas.sas      |
```

```
| Purpose                : Program to table 14.2.4.28.2 |
```

```
| Input Data             : ADAM.ADSL, ADAM.adlb
|
```

```
| Output Data            : T_14_02_04_28_02        |
```

```
| Macros Called          :                          |
```

```
| Originally Performed by :Sree Bikki              |
```

```
| Date                   : 12MAY2015               |
```

```
|                          |
```

```
|=====
=====|
```

```
| Modification History    |
```

```
|-----|
```

```
| Modified by            :                          |
```

```
| Modification Date      :
|
```

```
| Modification Description :                          |
```

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

```
proc datasets lib=work kill memtype=data nolist;
```

```
run;
```

```
%m_printto;
```

```
%macro table (paramcd= , tfl =, title = );
```

```
proc sql;
```

```
select count(distinct usubjid) into: N1THS from adam.adsl(where=(trt01pn = 4 and fasfl = "Y"));
```

```
select count(distinct usubjid) into: N1MCC from adam.adsl(where=(trt01pn = 5 and fasfl = "Y"));
```

```
select count(distinct usubjid) into: N1SAA from adam.adsl(where=(trt01pn = 3 and fasfl = "Y"));
```

```
quit;
```

```
%let tflno=&tfl.;
```

```
/* Standard - leave this */
```

```
%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;
```

```
data adlb_1;
```

```
set adam.adlb;
```

```
where fasfl = "Y";
```

```
if paramcd in &paramcd and anl01fl = "Y";  
run;
```

```
data adlb_2;  
set adam.adlb;  
if paramcd in &paramcd and anl01fl = "Y";  
if ablfl = "Y" and fasfl = "Y";  
avisitn = 10;  
avisit = "Baseline";  
run;
```

```
data adlb;  
set adlb_1 adlb_2;  
if avisit ne 'Baseline' and avisitn lt 101 then delete;  
run;
```

```
proc sort data=adlb;  
by trtpn trtp paramn param paramcd avisitn avisit atptn atpt;  
run;
```

```
/*GEOMEAN AN CI*/
```

```
data adlb_log;  
set adlb;  
if aval ne . then logaval = log(aval);
```

```
run;
```

```
proc sort data=adlb_log;
```

```
by trtpn trtp paramn param paramcd avisitn avisit ;
```

```
run;
```

```
proc means data=adlb_log noprint;
```

```
by trtpn trtp paramn param paramcd avisitn avisit ;
```

```
output out=aval_log mean = mean std = std lclm = lclm uclm = uclm;
```

```
var logaval;
```

```
run;
```

```
data aval_log1;
```

```
set aval_log;
```

```
length geocv CIGM $50.;
```

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

```
    glci=exp(lclm);
```

```
    guci=exp(uclm);
```

```
    gmean=left(compress(put(round(gmean1,0.1), 8.1)));
```

```
    gcv=compress(put(0.01*ceil((sqrt(exp(std*std)-1)*100)/0.01),8.2));
```

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

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

```
        if not missing(glci) and not missing(guci) then cigm = strip(strip(put(0.1*floor(glci/0.1),8.1)) || ' ', ' ' || strip(put(0.1*ceil(guci/0.1),8.1)));
```

```
else if glci ne . and guci = . then cigm = strip(put(0.1*floor(glci/0.1), 8.1)) || ", NA";
```

```
else if glci = . and guci ne . then cigm = "NA, " || strip(put(0.1*ceil(guci/0.1),8.1));
```

```
else if glci = . and guci = . then cigm = "NA, NA";
```

```
run;
```

```
/*fro figure dataset t_15_02_04_28_02_F*/
```

```
data figure;
```

```
set aval_log1;
```

```
drop std _type__freq_;
```

```
logf=1;
```

```
mean = gmean1;
```

```
lclm = glci;
```

```
uclm = guci;
```

```
keep avisit avisitn paramcd param paramn trtp trtpn mean lclm uclm logf;
```

```
run;
```

```
/*end for figure dataset t_15_02_04_28_02_F*/
```

```
proc sort data=aval_log1 ;
```

```
by paramn param avisitn avisit ;
```

```
run;
```

```
proc transpose data=aval_log1 out=aval_log1_t prefix= trt_;
```

```
by paramn param avisitn avisit ;
```

```
var geocv cigm;
```

```
id trtpn;
```

```
run;
```

```
/*Q25 Q75 MEdian*/
```

```
proc means data=adlb(where=(aval ne .)) noprint;
```

```
var aval;
```

```
by trtpn paramn param avisitn avisit ;
```

```
output out=aval n =n mean = mean std = std median = median min = min max = max q1 = q1 q3 = q3;
```

```
run;
```

```
data aval1;
```

```
set aval;
```

```
length median1 Q2575 Minmax n1 $50.;
```

```
median1 = strip(put(round(median, 0.01), 15.1));
```

```
q2575 = strip(put(round(q1, 0.01), 15.1))||", "||strip(put(round(q3, 0.01), 15.1));
```

```
minmax = strip(put(round(min, 0.1), 15.0))||", "||strip(put(round(max, 0.1), 15.0));
```

```
n1 = strip(put(n, best.));
```

```
run;
```

```
data results03;
```

```
length missc $30;
```

```
set aval1;
```

```
/*period 4*/
```

```
if trtpn=3 then do;
```

```
if &n1saa.=n then
```

```
missc="";
```

```
else
```

```
missc=strip(put((&n1saa.- n), 8.)) || ' (' || strip(put(((&n1saa.-n)*100)/&n1saa., 8.1)) || ")";
```

```
end;
```

```
else if trtpn=4 then do;
```

```
if &n1ths.=n then
```

```
missc="";
```

```
else
```

```
missc=strip(put((&n1ths.- n), 8.)) || ' (' || strip(put(((&n1ths.-n)*100)/&n1ths., 8.1)) || ")";
```

```
end;
```

```
else if trtpn=5 then do;
```

```
if &n1mcc.=n
```

```
then missc="";
```

```
else
```

```
missc=strip(put((&n1mcc.-n), 8.)) || ' (' || strip(put(((&n1mcc.-n)*100)/&n1mcc., 8.1)) || ")";
```

```
end;
```

```
run;
```

```
proc sort data=results03 out=aval1;
```

```
by paramn param avisitn avisit ;
```

```
run;
```

```
proc transpose data=aval1 out=aval_t prefix= trt_;
```

```
by paramn param avisitn avisit ;
```

```
var n1 median1 q2575 minmax missc;
```

```
id trtpn;
```

```
run;
```

```
data aval_t;
```

```
length txt $200.;
```

```
set aval_t aval_log1_t;
```

```
if upcase(_name_) = "N1" then do;
```

```
txtn = 1;
```

```
txt = "n";
```

```
end;
```

```
if upcase(_name_) = "MISSC" then do;
```



```
txtn = 2;

txt = "Missing, n(%)";

end;

else if upcase(_name_) = "MEDIAN1" then do;

txtn = 5;

txt = "Median";

end;

else if upcase(_name_) = "Q2575" then do;

txtn = 6;

txt = "Q25, Q75";

end;

else if upcase(_name_) = "MINMAX" then do;

txtn = 7;

txt = "Min, Max";

end;

else if upcase(_name_) = "GEOCV" then do;

txtn = 3;

txt = "Geometric Mean (CV%)";

end;

else if upcase(_name_) = "CIGM" then do;

txtn = 4;

txt = "95% CI of Geometric Mean";

end;

run;
```

```
data aval_f;
```

```
set aval_t ;
```

```
run;
```

```
proc sort data=aval_f;
```

```
by paramn param avisitn avisit txtn txt;
```

```
run;
```

```
proc sort data=adlb;
```

```
by trtpn paramn param avisitn avisit ;
```

```
run;
```

```
proc means data=adlb(where=(pchg ne . and ablfl ne "Y")) noprint;
```

```
var pchg;
```

```
by trtpn paramn param avisitn avisit ;
```

```
output out=chg n =n mean = mean std = std median = median min = min max = max q1 = q1 q3 = q3 lclm  
= lclm uclm = uclm;
```

```
run;
```

```
data chg1;
```

```
length geocv CIGM $50.;
```

```
set chg;
```

```
data results04;  
length missc $30;  
set chg1;
```

```

if trtpn=3 then do;

if &n1saa.=n then

missc="";

else

missc=strip(put((&n1saa.- n), 8.)) || ' (' || strip(put(((&n1saa.-n)*100)/&n1saa., 8.1)) || ")";

end;

else if trtpn=4 then do;

if &n1ths.=n then

missc="";

```

```

else
missc=strip(put((&n1ths.- n), 8.)) || ' (' || strip(put(((&n1ths.-n)*100)/&n1ths., 8.1)) || ")";

end;

else if trtpn=5 then do;

if &n1mcc.=n

then missc="";

else

missc=strip(put((&n1mcc.-n), 8.)) || ' (' || strip(put(((&n1mcc.-n)*100)/&n1mcc., 8.1)) || ")";

end;

run;

proc sort data=results04 out=chg1;

by paramn param avisitn avisit ;

run;

proc transpose data=chg1 out=chg_t prefix= chg_;

by paramn param avisitn avisit ;

var n1 median1 q2575 minmax geocv cigm missc;

id trtpn;

run;

data chg_t;

length txt $200.;

set chg_t;

if upcase(_name_) = "N1" then do;

txtn = 1;

```

```
txt = "n";

end;

if upcase(_name_) = "MISSC" then do;

txtn = 2;

txt = "Missing, n(%)";

end;

else if upcase(_name_) = "MEDIAN1" then do;

txtn = 5;

txt = "Median";

end;

else if upcase(_name_) = "Q2575" then do;

txtn = 6;

txt = "Q25, Q75";

end;

else if upcase(_name_) = "MINMAX" then do;

txtn = 7;

txt = "Min, Max";

end;

else if upcase(_name_) = "GEOCV" then do;

txtn = 3;

txt = "Geometric Mean (CV%)";

end;

else if upcase(_name_) = "CIGM" then do;

txtn = 4;

txt = "95% CI of Geometric Mean";
```

```
end;
```

```
run;
```

```
data chg_f;
```

```
set chg_t ;
```

```
run;
```

```
proc sort data=chg_f;
```

```
by paramn param avisitn avisit txtn txt;
```

```
run;
```

```
proc sort data=aval_f;
```

```
by paramn param avisitn avisit txtn txt;
```

```
run;
```

```
data final;
```

```
merge aval_f chg_f(drop=_name_);
```

```
by paramn param avisitn avisit txtn txt;
```

```
THS = &N1THS;
```

```
mcc = &N1mcc;
```

```
sa = &N1saa;
```

```
if trt_3 = " " and trt_4 = " " and trt_5 = " " and chg_3 = " " and chg_4 = " " and chg_5 = " " then delete;
```

```
if txtn =2 then do;
```

```
if trt_3 = " " then trt_3 = "0";
```

```
if trt_4 = " " then trt_4 = "0";  
if trt_5 = " " then trt_5 = "0";  
end;  
if txtn =2 and avisitn ne 10 then do;  
if chg_3 = " " then chg_3 = "0";  
if chg_4 = " " then chg_4 = "0";  
if chg_5 = " " then chg_5 = "0";  
end;  
run;
```

```
data page1;  
set final;  
by paramn avisitn;  
obs = _n_;  
page = ceil(obs/7);  
/*page+ 1;*/  
run;
```

```
proc sql;  
create table final_page as  
select distinct a.*, b.page
```

```
from final as a
left join page1 as b
on a.paramn = b.paramn and a.avisitn = b.avisitn
order by paramn, avisitn, txtn;
quit;
```

```
data final_page;
set final_page end=last;
by paramn avisitn txtn;
if last then call symputx("page", page);
run;
```

```
data tflds.&tflno(keep=txt txtn avisitn avisit paramn param trt_3 trt_4 trt_5 chg_3 chg_4 chg_5);
set final_page;
run;
```

```
data tflds.T_15_02_04_28_02_F;
set figure;
run;
```

```
%put &page;

/* Standard - leave this */

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;

/* Standard - macro for paging */

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

%if &halfblnk=N %then %let halfblnk=;

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


ods path stdlib.t106343 (read) ;

ods results off;

ods rtf toc_data/* contents*/
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;

ods proclabel = ' ';


data comp;

    set final_page end=eof;

        where page=&i;

```

```

/* Amend title as needed */

      _firtitl="&title.";

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

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

      if eof then do;

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

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

      call symput('param', strip(param));

      call symput('N3', strip(put(sa, best.)));

      call symput('N4', strip(put(ths, best.)));

      call symput('N5', strip(put(mcc, best.)));

end;

drop _firtitl _upcas len;

run;

```

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 paramn avisitn avisit txtn txt ("THSm2.2$(N=&N4)&linebot" trt_4 chg_4 )
("mCC$(N=&N5)&linebot" trt_5 chg_5)

                ("SA$(N=&N3)&linebot" trt_3 chg_3);

        define paramn          / order order = internal noprint;

        define page            / order order = internal noprint;

        define avisitn         / order order = internal noprint;

/*          define apuper       / order order = internal noprint;*/

        define txtn            / order order = internal noprint;

        define avisit          /"Timepoint" order order=internal style={just=left cellwidth=0.9cm}
style(header)={just=left} ;

        define txt              /"Statistic" display style={just=left cellwidth=1.9cm}
style(header)={just=left} ;

        define trt_3            /"Value" display style={JUST=c cellwidth=1.2cm}
style(header)={just=center} ;

        define trt_4            /"Value" display style={just=c cellwidth=1.2cm}
style(header)={just=center} ;

        define trt_5            /"Value" display style={just=c cellwidth=1.2cm}
style(header)={just=center};

        define chg_3            /"% Change(*)" display style={JUST=c cellwidth=1.2cm}
style(header)={just=center};

        define chg_4            /"% Change(*)" display style={just=c cellwidth=1.2cm}
style(header)={just=center};

        define chg_5            /"% Change(*)" display style={just=c cellwidth=1.2cm}
style(header)={just=center};

```

```
compute after avisitn;
```

```
    line " ";
```

```
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 "Parameter (units):&param";
```

```
    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: Percentages are based on the number of subjects indicated in the column  
header (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 last assessment prior to  
10AM on Day 1 in the SA arm.';
```

```
    line ' ';
```

```
    line 'Appendix 15.3.3.2';
```

```

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

            endcomp;

run;

%end;

ods rtf close;

ods results on;

ods path sashelp.tmplmst (read);


%mend ;


%outrtf(blankn=36, halfblk=N);

ods listing;


%mend table;

%table (paramcd = ("FIBRINO"), tfl = %nrstr(T_15_02_04_28_02),title = %str(Table 15.2.4.28.2
Descriptive Statistics of  Fibrinogen (mg/dL)- FAS));


%m_logchk2;

```