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%_mprintto;
options notes nosource;
proc datasets lib=work nolist memtype=data kill; quit;
%put NOTE:
=====;
%put NOTE: Covance Study Number : 000000106326;
%put NOTE: Client Protocol ID   : ZRHM-PK-05-JP;
%put NOTE: Program Name        : t_mceq2.sas;
%put NOTE: Purpose              : table of MCEQ subscales by sex;
%put NOTE: ;
%put NOTE: Input Data           : ADAM.ADQSPA ADAM.ADSL;
%put NOTE: Output               : t_15_2_4_17_1(mceq);
%put NOTE: Macros Called        : _MPRINTTO;
%put NOTE: ;
%put NOTE: Programmed by        : cvn_jriley;
%put NOTE: Creation Date        : 2014-08-06;
%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: 11Aug2014   JR         1) Amended stats;
%put NOTE: 23Sep2014   JR         2) NMIS code added;
%put NOTE:
=====;
options notes source source2 nofullstimer validvarname=upcase missing='
';
ods _all_ close;
ods listing;

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

%LET TFLNO=T_15_02_04_17_01(mceq);

%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",""));
run;

*****;
* read in data ;
*****;

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/* 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
trtord=1;
        output;
        if index(trt01a,'CC') or index(trt02a,'CC') then trtord=2;
        output;
    end;
    else if missing(analgrln) then delete;
run;

proc sort data=adsl nodupkey out=adsl1;
    by analgrln analgr1 trtord sexn sexc subjid;
run;

proc freq data=adsl1(where=(not missing(trtord))) noprint;
    table analgrln*analgr1*trtord*sexn*sexc/ out =totals2(drop=percent
rename=(count=total));
run;

data totals3;
    set totals2;

    call
symput('trt' || strip(put(trtord,best.)) || strip(put(sexn,best.)),strip(put(
total,best.)));
run;

proc sort data=totals3;
    by analgrln analgr1 trtord;
run;

/*Bring in appropriate data from ADQSSU*/
data adqspa;
    set adam.adqspa(where=(anl01fl='Y' and pprotfl='Y' and
analgrln=1));
run;

data adqspa_orig;
    set adqspa;

    statval=aval;
run;

proc sort data=adqspa_orig;
    by analgrln analgr1 trtan trta parcat2n parcat2 paramn param paramed
sexn sexc;
run;

proc means data=adqspa_orig alpha=0.05 noprint;
    var statval;

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```

        by analgr1n analgr1 trtan trta parcat2n parcat2 paramn param paramcd
sexc sexn;
        output out=results02 n=n1 NMISS=MISS mean=mean1 std=std1
median=median1 min=min1 max=max1 q1=q1 q3=q3 lclm=lci1 uclm=uci1; /* 2)
JR 23Sep2014 */
run;

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data results03;
    set results02;
    attrib meansd length=$20.
        minmax length=$20.
        n length=$20.
        median length=$20.
        ci length=$20.
        quart length=$20.;

    n = left(compress(put(n1,8.))); /* Start 1) JR 11Aug2014 */
    if not missing(median1) then median =
left(compress(put(median1,/*8.1*/8.2)));
    if not missing(mean1) and not missing(std1) then meansd =
left(compress(put(mean1,/*8.1*/8.2))) || ' (' ||
left(compress(put(0.001*ceil(std1/0.001),/*8.2*/8.3))) || ')';
    if not missing(min1) and not missing(max1) then minmax =
left(compress(put(min1,8.1))) || ', ' || left(compress(put(max1,8.1)));
    if not missing(lci1) and not missing(uci1) then ci =
strip(strip(put(0.01*floor(lci1/0.01),/*8.1*/8.2))) || ', ' ||
strip(put(0.01*ceil(uci1/0.01),/*8.1*/8.2)));
    if not missing(q1) and not missing(q3) then quart =
strip(strip(put(0.01*floor(q1/0.01),/*8.1*/8.2)) || ', ' ||
strip(put(0.01*ceil(q3/0.01),/*8.1*/8.2)));
    /* end 1) JR 11Aug2014 */
    drop n1 mean1 std1 median1 min1 max1 lci1 uci1 q1 q3;
run;

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```

data results04; /*Create text as required in output*/
    set results03;
    attrib paramc length = $100.;

    paramc=strip(param);

    trtans=strip(strip(put(trtan,best.)) || compress(put(sexn,best.)));

    drop param paramcd parcat2 parcat2n;
run;

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proc sort data=results04;
    by paramn paramc;
run;

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proc transpose data=results04 out=results05 prefix=_ name=varname;
    by paramn paramc;
    var n meansd median minmax ci quart;
    id trtans;
    idlabel trta;

```

```

run;

data results06;
  set results05;
  attrib stat length = $100.;

  if varname='N' then do;
    statord=1;
    stat='n';
  end;
  else if varname='MEANSD' then do;
    statord=2;
    stat='Mean (SD)';
  end;
  else if varname='CI' then do;
    statord=3;
    stat='95% CI';
  end;
  else if varname='MEDIAN' then do;
    statord=4;
    stat='Median';
  end;
  else if varname='QUART' then do;
    statord=5;
    stat='Q25, Q75';
  end;
  else if varname='MINMAX' then do;
    statord=6;
    stat='Min, Max';
  end;

  drop varname;
run;

data results07;
  set results06;

  if stat='n' then do;
    if missing(_41) then _41='0';
    if missing(_42) then _42='0';
    if missing(_51) then _51='0';
    if missing(_52) then _52='0';
  end;
run;

data labels;
set results07;
  attrib _41 label = "Males $(N=&trt11)"
         _42 label = "Females $(N=&trt12)"
         _51 label = "Males $(N=&trt21)"
         _52 label = "Females $(N=&trt22)";
  Paramc=left(trim(upcase(substr(paramc,1,1))||lowercase(substr(paramc,
2)))));

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```

run;

proc sort data=labels;
    by paramn statord;
run;

proc sql noprint;

create table table.t_15_02_04_18_01 as
select paramc, stat, _41, _42, _51, _52
from labels
order by paramn, statord;

quit;

data paging;
    set labels;
    by paramn statord;

    flag=1;

    if ln gt 11 then ln=1; /*Amend to look presentable, and avoid page
overflows*/
    else ln+1;
    if ln=1 then page+1;
    call symput("page",compress(put(page,best.)));
run;

options number nodate orientation=landscape papersize=&p_pgsz 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=, halfblnk=);

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

ods path stdlib.tl06326 (read) ;
ods results off;
ods rtf toc_data
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 &page;
ods proclabel= ' ';

title ;
footnote;
%let wd=0;

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```

data comp;
    set paging end=eof;
    where page=&i;

    /* Amend title as needed */
    _firtitl="Table 15.2.4.17.1 Descriptive Statistics of MCEQ Subscales
by Sex - PK Population";
    _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.)));
    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;
proc report data = comp missing headline headskip missing nowd split =
'$' %if &i=1 %then %do; contents=' ' %end; %else %do; contents='' %end;;
;
    column flag page paramn paramc statord stat
    ("Group-1 PK &linebot" ("THS 2.2 Menthol &linebot" _41 _42) ("mCC
&linebot" _51 _52)) ;

    define flag          / order order=internal noprint;
    define page          / order order = internal noprint;
    define paramn        / order order = internal noprint;
    define paramc        / group style={just=left cellwidth=2.5cm}
style(header)={just=center} "Subscale";
    define statord       / order order = internal noprint;
    define stat          / display style={just=left cellwidth=1cm}
style(header)={just=center} "Statistic";
    define _41           / display style={just=c cellwidth=1.5cm}
style(header)={just=center};
    define _42           / display style={just=c cellwidth=1.5cm}
style(header)={just=center};
    define _51           / display style={just=c cellwidth=1.5cm}
style(header)={just=center};
    define _52           / display style={just=c cellwidth=1.5cm}
style(header)={just=center};

    break before flag / page %if &i=1 %then %do;
    contents("&_fsrtitl" %end; %else %do; contents='' %end;;

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```

break after page / page;

compute after paramn;
  line " ";
endcomp;

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 _page_ / style={just=left protectspecialchars=off
PRETEXT="&LINETOP."};
  line 'Note: mCC = menthol conventional cigarettes; THS =
Tobacco Heating System.';
  line ' ';
  line 'Appendix 15.3.6.12';
  line "Path: &TFLpath." &_blankn.*"\~\~" "(Page &i of &page)";
  line "Program Run: &sysdate &sysuserid Program Status: &status";
endcomp;
run;
%end;
ods rtf close;
ods results on;
ods path sashelp.tmplmst (read);

%mend ;

%outrtf(blankn=70, halfblnk=N);

ods listing;
proc printto print = "&table./t_15_02_04_18_01.lst" new;
run;

proc contents data = table.t_15_02_04_18_01 varnum;
run;
ods listing close;

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

```