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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_comp.sas;
%put NOTE: Purpose              : table of descriptive statistic of
compliance ;
%put NOTE: ;
%put NOTE: Input Data           : ADAM.ADSL;
%put NOTE: Output               : t_15_2_5_1(comp);
%put NOTE: Macros Called        : _MPRINTTO;
%put NOTE: ;
%put NOTE: Programmed by       : cvn_jhardman;
%put NOTE: Creation Date       : 2014-10-07;
%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: ;
%put NOTE:
=====;
options notes source source2 nofullstimer validvarname=upcase missing='
';
ods _all_ close;
ods listing;

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

%let tflno=T_15_02_05_01(comp);

/* 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",""));
run;

*****;
* read in data ;

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*****;

/* Obtaining treatments */
proc sort data=adam.adsl(where = (randfl='Y' and not missing(trtseqa)))
out=adsl;
    by subjidn;
run;

data adsl2a;
    set adsl;
    if index(trtseqa,'Exposed') or index(trtseqa,'Enrolled') then
delete;
    output;
    trtseqa='Overall Safety';
    trtseqa=99;
    output;
    keep subjidn trtseqa trtseqa siteid compl1fl compl2fl compl3fl;
run;

proc freq data=adsl2a;
    table siteid*trtseqa*trtseqa/ noprint out=trt(drop=percent);
run;

data _null_;
    set trt;

    call symput('trt' || compress(put(trtseqa,best.)),
compress(count));
run;

proc sort data=adsl2a out=adsl3 ;
    by siteid subjidn trtseqa trtseqa;
run;

proc transpose data=adsl3 out=adsl4(drop=_label_ rename=(col1=result
_name_=comp));
    by siteid subjidn trtseqa trtseqa;
    var compl1fl compl2fl compl3fl;
run;

proc sort data=adsl4;
    by siteid comp result;
run;

proc freq data=adsl4;
    table trtseqa*trtseqa/ noprint out=adsl5(drop=percent);
    by siteid comp result;
run;

proc sort data=adsl5;
    by siteid comp result;
run;

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proc transpose data=adsl5 out=adsl6(drop=_name_ _label_);
  by siteid comp result;
  var count;
  id trtsega;
  idlabel trtsega;
run;

data stats;
  attrib siteid length=$3;

  statistic='n (%)';
  siteid='AGE';
run;

data compl;
  merge adsl6 stats;
  by siteid;
run;

proc transpose data=trt out=trt2(drop=_name_ _label_ rename=(_1=_total1
_2=_total2 _3=_total3 _4=_total4 _99=_totaloverall));
  by siteid;
  var count;
  id trtsega;
  idlabel trtsega;
run;

data compl2;
  merge compl trt2;
  by siteid;
  attrib resultc length=$25.
    p1 p2 p3 p4 p99 length=$8.;

  n1=left(compress((put(_1,8.))));
  n2=left(compress((put(_2,8.))));
  n3=left(compress((put(_3,8.))));
  n4=left(compress((put(_4,8.))));
  n99=left(compress((put(_99,8.))));

  if missing(n1) then n1='0';
  if missing(n2) then n2='0';
  if missing(n3) then n3='0';
  if missing(n4) then n4='0';
  if missing(n99) then n99='0';

  percent1=_1/_total1*100;
  percent2=_2/_total2*100;
  percent3=_3/_total3*100;
  percent4=_4/_total4*100;
  percent99=_99/_totaloverall*100;

  if percent1=100 then p1='(100 %)';
  else if percent1=0 or missing(percent1) then p1='';

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        else if percent1 ge 10 then p1='( ' ||
left(compress(put(percent1,8.1))) || '%' );
        else if percent1 lt 10 then p1='( ' ||
left(compress(put(percent1,8.1))) || '%' );

        if percent2=100 then p2='(100 %)';
        else if percent2=0 or missing(percent2) then p2='';
        else if percent2 ge 10 then p2='( ' ||
left(compress(put(percent2,8.1))) || '%' );
        else if percent2 lt 10 then p2='( ' ||
left(compress(put(percent2,8.1))) || '%' );

        if percent3=100 then p3='(100 %)';
        else if percent3=0 or missing(percent3) then p3='';
        else if percent3 ge 10 then p3='( ' ||
left(compress(put(percent3,8.1))) || '%' );
        else if percent3 lt 10 then p3='( ' ||
left(compress(put(percent3,8.1))) || '%' );

        if percent4=100 then p4='(100 %)';
        else if percent4=0 or missing(percent4) then p4='';
        else if percent4 ge 10 then p4='( ' ||
left(compress(put(percent4,8.1))) || '%' );
        else if percent4 lt 10 then p4='( ' ||
left(compress(put(percent4,8.1))) || '%' );

        if percent99=100 then p99='(100 %)';
        else if percent99=0 or missing(percent99) then p99='';
        else if percent99 ge 10 then p99='( ' ||
left(compress(put(percent99,8.1))) || '%' );
        else if percent99 lt 10 then p99='( ' ||
left(compress(put(percent99,8.1))) || '%' );

        if result='N' then do;
            resultc='\~\~\~\~Non compliant';
            resultn=3;
        end;
        else if result='Y' then do;
            resultc='\~\~\~\~Compliant';
            resultn=2;
        end;
        else if result='' then do;
            resultc='\~\~\~\~Missing';
            resultn=4;
        end;
run;

data labels;
    attrib siteid length=$3
           resultc length=$25. label='Visit';

    siteid='AGE';
    resultc='Single-use/Day 1';

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        resultn=1;
        comp='COMPL1FL';
        output;
        siteid='AGE';
        resultc='Wash-out/Day 2';
        resultn=1;
        comp='COMPL2FL';
        output;
        siteid='AGE';
        resultc='Single-use/Day 3';
        resultn=1;
        comp='COMPL3FL';
        output;
run;

data compl3;
    set compl2 labels;
        if comp in('COMPL1FL' 'COMPL3FL') and index(resultc,'Day')=0
then do;

            n1='NA';
            p1='';
            n2='NA';
            p2='';
            n99='NA';
            p99='';

        end;
        if comp='COMPL1FL' and index(resultc,'Day')=0 then do;
            n3='NA';
            p3='';

        end;
        if comp='COMPL3FL' and index(resultc,'Day')=0 then do;
            n4='NA';
            p4='';

        end;

        t1=strip(n1) || ' ' || strip(p1);
        t2=strip(n2) || ' ' || strip(p2);
        t3=strip(n3) || ' ' || strip(p3);
        t4=strip(n4) || ' ' || strip(p4);
        t99=strip(n99) || ' ' || strip(p99);

run;

proc sort data=compl3;
    by siteid comp resultn;
run;

proc sql noprint;
    create table table.T_15_02_05_01 as
    select resultc, statistic, t1, t2, t3, t4, t99
    from compl3
    order by siteid, comp, resultn;
quit;

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data paging;
  set compl3;
    by siteid comp resultn;

    flag=1;

    if ln gt 12 then ln=1;
    else ln+1;
    if ln=1 then page+1;
    call symput("page",compress(put(page,best.)));
run;

/* Standard - leave this */
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;
%let linebot2 = \brdrb\brdrs\brdrw15;

/* Standard - macro for paging */
%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/* 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 &page;

title ;
footnote;
%let wd=0;
ods proclabel = ' ';

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

    /* Amend title as needed */
    _firtitl="Table 15.2.5.1 Descriptive Statistics of Compliance
Based on CO Breath Test - All Randomized Subjects";
    _upcas=(length(_firtitl)-
length(compress(_firtitl,'ABCDEFGHIJKLMNOPQRSTUVWXYZ')))/2;
    len=&blankn.-length("(Page &i of &page)");

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    if eof then do;
        call symput('_FSRTITL', trim(left(_firtitl)));
        call symput('_blankn', compress(put(len,best.)));
    end;
    drop _firtitl _upcas len;
run;

* 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 nowd split = '#' %if
&i=1 %then %do; contents=' ' %end; %else %do; contents='' %end;;;
    column flag page siteid comp resultn ("Visit/Study Day" resultc)
("Statistic" statistic) ("Sequence &linebot." ("THS 2.2 Menthol#-
mCC#(N=&trt1)" /*n1 p1*/T1) /* 1) JMH 25Sep2014 */
("mCC -#THS 2.2 Menthol#(N=&trt2)" T2) ("THS
2.2 Menthol#- NRT gum#(N=&trt3)" T3) ("NRT gum -#THS 2.2
Menthol#(N=&trt4)" T4))
("Overall#Randomized#(N=&trt99)" T99) ;
    define flag / order order = internal noprint;
    define page / order order = internal noprint;
    define siteid / order order=internal noprint;
    define comp / order order=internal noprint;
    define resultn / order order=internal noprint;
    define resultc / display style={just=left cellwidth=3cm}
style(header)={just=center} "";
    define statistic / display style={just=left cellwidth=1.8cm}
style(header)={just=center} "";
    define t1 / display style={just=c cellwidth=1.2cm}
style(header)={just=center} "";
    define t2 / display style={just=c cellwidth=1.2cm}
style(header)={just=center} "";
    define t3 / display style={just=c cellwidth=1.2cm}
style(header)={just=center} "";
    define t4 / display style={just=c cellwidth=1.2cm}
style(header)={just=center} "";
    define t99 / display style={just=c cellwidth=1.2cm}
style(header)={just=center} "";

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

    break after page / page;

    compute before page / style={protectspecialchars=off};
        line "&linetop";
    endcomp;

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        compute after _page_/style={just=left cellwidth=5cm
protectspecialchars=off}};
        line "&linebot" ;
        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}};
        line 'Note: mCC = menthol conventional cigarettes; NRT gum =
Nicotine Replacement Therapy gum; THS = Tobacco Heating System.';
        line 'Note: Percentages are based on the number of subjects
indicated in the column header (N).';
        line "Note: Compliance assessed on Days 1 and 3 for subjects
randomized to NRT gum and for all subjects on Wash-out Day 2.";
        LINE "Note: NA = Not assessed.";
        line "";
        line "Appendix 15.3.3.5";
        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_05_01.lst" new;
run;

proc contents data = table.T_15_02_05_01 varnum;
run;
ods listing close;
proc printto ; run;
*=====;
* END OF PROGRAM CODE ;
*=====;

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