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proc datasets lib=work nolist memtype=data kill; quit;
/*=====
*Covance Study ID      : 000000106331
*Program Name          : t_prduse_pref_fas.sas
*Purpose               : Table 15.2.4.67 Descriptive Statistics of Average Daily
                        Product Use in Ambulatory Period by Preferred Product Declared at Admission  FAS
*Input Data            : adam.adsl, adam.adex
*Output Data           : tflds.T_15_02_04_67
*Macros Called         : %m_printto, %outrtf, m_logchk2
*Programmed by        : Ranju Gautam
*Creation Date         : 2015-05-28
*== Modification History =====
*Date      Initials  No. Reason;
*=====*/;

%m_printto(route=yes);

%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 adsl;
    set adam.adsl(where=(fasfl ='Y'));
    if trt01pn=4 then trt=1;
    else if trt01pn=5 then trt=2;
    else if trt01pn=3 then trt=3;
    if PRODPREF='No preference' then PRODPREF='Nopreference';
    if PRODPREF='THS 2.2 menthol' then PRODPREF='THS';
run;

proc sql noprint;

*for block1a;
    select count (distinct usubjid)  into :trt1ths from adsl where trt=1 and PRODPREF='THS' ;
    select count (distinct usubjid)  into :trt1mc from adsl where trt=1 and PRODPREF='mCC' ;
    select count (distinct usubjid)  into :trt1sa from adsl where trt=1 and PRODPREF='SA' ;
    select count (distinct usubjid)  into :trt1npr from adsl where trt=1 and PRODPREF='Nopreference' ;

select count (distinct usubjid)  into :trt2ths  from adsl where trt=2 and PRODPREF='THS' ;
select count (distinct usubjid)  into :trt2mc   from adsl where trt=2 and PRODPREF='mCC' ;
select count (distinct usubjid)  into :trt2sa   from adsl where trt=2 and PRODPREF='SA' ;
select count (distinct usubjid)  into :trt2npr  from adsl where trt=2 and PRODPREF='Nopreference' ;

select count (distinct usubjid)  into :trt3ths from adsl where trt=3 and PRODPREF='THS' ;
select count (distinct usubjid)  into :trt3mc  from adsl where trt=3 and PRODPREF='mCC' ;
select count (distinct usubjid)  into :trt3sa  from adsl where trt=3 and PRODPREF='SA' ;
select count (distinct usubjid)  into :trt3npr from adsl where trt=3 and PRODPREF='Nopreference' ;

quit;

*for the first row;

proc freq data=adsl;
    tables trt*trt01p*PRODPREF/noprint out=r1;
    tables trt*trt01p*PRODPREF*GPUCAT5N*GPUCAT5/noprint out=r2;
    tables trt*trt01p*PRODPREF*GPUCAT5N*GPUCAT5*PUCAT5N*PUCAT5/noprint out=r3;
run;

%let paramcd1 = "PDTHS2_2" ,"PDMCC" , "PDCHWMKL" , "PDCIGARS" ,"PDE_CIG" , "PDGUMS" , "PDINHAL" , "PDLOZENG" ,"PDNASPR" ,"PDOTHNRT" ,"PDP
ATCHE" ,"PDPIPE" ,"PDOTHTOB" ,
                "ADTHS2_2" "ADMCC" "ADCHWMKL" "ADCIGARS" "ADE_CIG" "ADGUMS" "ADINHAL" "ADLOZENG" "ADNASPR" "ADOTHNRT" "ADPATCHE" "A
DPIPE" "ADOTHTOB" ;

data adex;
set adam.adex ;
    if trtpn=4 then trt=1;
    else if trtpn=5 then trt=2;
    else if trtpn=3 then trt=3;

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    if paramcd in (&paramcd1) and FASFL ='Y' and parcat3n in (2,3) ;

run;

data adex0;
set adex;
if APUPER= . then do;
    APUPER=5 ;
    APUPERC="Ambulatory";
end;
run;

data adex_;
set adex0 adex0(in=b);
if b then PRODPREF='Tot';
    if PRODPREF='No preference' then PRODPREF='Nopreference';
    if PRODPREF='THS 2.2 menthol' then PRODPREF='THS';
run;

data adex1;
set adex_;

if paramcd = "PDTHS2_2" then param = "THSm2.2";
if paramcd = "PDMCC" then param = "mCC";
if paramcd = "PDCHWMKL" then param = "Chew/Smokeless Tob." ;
if paramcd = "PDCIGARS" then param = "Cigar/Cigarillo";
if paramcd = "PDE_CIG" then param = "E-Cigarette";
if paramcd = "PDGUMS" then param = "Gums";
if paramcd = "PDINHAL" then param = "Inhaler";
if paramcd = "PDLOZENG" then param = "Lozenges";
if paramcd = "PDNASPR" then param = "Nasal Spray";
if paramcd = "PDOTHNRT" then param = "Other NRT";
if paramcd = "PDPATCHE" then param = "Patches";
if paramcd = "PDPIPE" then param = "Pipes";
if paramcd = "PDOTHTOB" then param = "Tob. Not Listed";

if param='Average Daily THS 2.2 in Ambulatory' then param='THSm2.2';
if param='Average Daily mCC in Ambulatory' then param='mCC';

if param='Average Daily Inhaler in Ambulatory' then do;
param='Inhaler';
paramn=50.5;
end;

if param='Average Daily Nasal Spray in Ambulatory' then do;
param='Nasal Spray';
paramn=51.5;
end;

if param='Average Daily Gums in Ambulatory' then do;
param='Gums';
paramn=52.5;
end;

if param='Average Daily Lozenges in Ambulatory' then do;
param='Lozenges';
paramn=53.5;
end;

if param='Average Daily Patches in Ambulatory' then do;
param='Patches';
paramn=54.5;
end;

if param='Average Daily Other NRT in Ambulatory' then do;
param='Other NRT';
paramn=55.5;
end;

if param='Ave. Daily Chew/Smokeless Tob. in Ambulatory' then do;
param='Chew/Smokeless Tob.';
paramn=56.5;
end;

if param='Average Daily Cigar/Cigarillo in Ambulatory' then do;
param='Cigar/Cigarillo';
paramn=57.5;
end;

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end;

if param='Average Daily Pipes in Ambulatory' then do;
param='Pipes';
paramn=58.5;
end;

if param='Average Daily Tob. Not Listed in Ambulatory' then do;
param='Tob. Not Listed';
paramn=59.5;
end;

if param='Average Daily E-Cigarette in Ambulatory' then do;
param='E-Cigarette';
paramn=60.5;
end;
run;

proc freq data=adex1;
tables PRODPREF*paramn*param*APUPER*APUPERC/noprint out=r1;
run;

proc means data=adex1 noprint nway;
var aval;
class PRODPREF PARAMn PARAM APUPERC APUPER;
where APUPERC="Ambulatory" and prodpref='Tot';
output out=ambu sum=sum1 mean=mean1 std=std1 median=median1 min=min1 max=max1 lclm=lci1 uclm=uci1;
run;

data ambu0;
set ambu;
if sum1 ne 0;
run;

data test;
set ambu0;
keep param;
run;

proc means data=adex1 noprint nway;
var aval;
class PRODPREF PARAMn PARAM APUPERC APUPER;
output out=results02 n=n1 mean=mean1 std=std1 median=median1 min=min1 max=max1 lclm=lci1 uclm=uci1;
run;

proc sort data=results02 ;
by param;
run;

proc sort data=test ;
by param;
run;

data results02_;
merge test(in=a) results02(in=b);
by param;
if a;
run;

data results03;
set results02_;
attrib meansd length=$20.
minmax length=$20.
n length=$20.
median length=$20.;
n = left(compress(put(n1,8.)));
if min1 =. then min1=0;
if max1 =. then max1=0;
if lci1 =. then lci1=0;
if uci1 =. then uci1=0;

if not missing(median1) then median = left(compress(put(round(median1,0.01),8.2)));
if not missing(mean1) and not missing(std1) then meansd = left(compress(put(round(mean1,0.01),8.2))) || ' (' || left(compress(p
ut(0.001*ceil(std1/0.001),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 aci = strip(put(0.01*floor(lci1/0.01),8.2)) || ', ' || strip(put(0.01*ceil(uci1/

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0.01),8.2));
  drop n1 mean1 std1 median1 min1 max1 uci1 lci1 _type_ _freq_;
run;

proc sort data=results03;
  by paramn param apuper apuperc;;
run;

proc transpose data=results03 out=results04 prefix=__ name=varname;
  by paramn param apuper apuperc;
  var n meansd aci median minmax ;
  id PRODPREF;
run;

proc transpose data=results03 out=n_lt4 prefix=n_;
  by paramn param apuper apuperc;
  var n ;
  id PRODPREF;
run;

data fin;
  set results04;
  length stat $200 _Nopreference _SA _THS _Tot _mCC $ 30;
  if upcase(varname)='N' then do; ord=1; stat='n'; end;
  if upcase(varname)='MEANSD' then do; ord=2; stat='Mean (SD)'; end;
  if upcase(varname)='ACI' then do; ord=3; stat='95% CI'; end;
  if upcase(varname)='MEDIAN' then do; ord=4; stat='Median'; end;
  if upcase(varname)='MINMAX' then do; ord=5; stat='Min, Max'; end;

  IF STAT='95% CI' then
do;
  if __Nopreference='0.00, 0.00' then
    __Nopreference='NC, NC';

  if __THS='0.00, 0.00' then
    __THS='NC, NC';

  if __SA='0.00, 0.00' then
    __SA='NC, NC';

  if __mCC='0.00, 0.00' then
    __mCC='NC, NC';

  if __Tot='0.00, 0.00' then
    __Tot='NC, NC';
end;

  if __Nopreference ne '' then __Nopreference=__Nopreference;

  if __THS ne '' then __THS=__THS;

  if __SA ne '' then __SA=__SA;

  if __Tot ne '' then __Tot=__Tot;

  if __mCC ne '' then __mCC=__mCC;

  drop __Nopreference __THS __SA __Tot __mCC;

  if param='THSm2.2 Sticks' then paramn1=1;
  if param='mCC' then paramn1=2;
  if param='Inhaler' then paramn1=3;
  if param='Gums' then paramn1=4;
  if param='Lozenges' then paramn1=5;
  if param='Patches' then paramn1=6;
  if param='Cigar/Cigarillo' then paramn1=7;
  if param='Tob. Not Listed' then paramn1=8;
  if param='E-Cigarette' then paramn1=9;

  if strip(param)='mCC' then param='mCC/CC';
run;

proc sort data=fin;
  by paramn1 paramn param apuper apuperc ord;
run;

proc sort data=fin;
  by paramn param apuper apuperc;

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run;

proc sort data=n_lt4;
  by paramn param apuper apuperc;
run;

data n_lt4;
  set n_lt4;
  if strip(param)='mCC' then param='mCC/CC';
run;

data fin1;
  merge fin n_lt4(in=b drop=_name_);
  by paramn param apuper apuperc;
  N_SA1=input(N_SA,best.);
  N_THS1=input(N_THS,best.);
  N_TOT1=input(N_TOT,best.);
  N_MCC1=input(N_MCC,best.);

  if N_SA1<4 and ord ne 1 then _SA='NC';
  if N_THS1<4 and ord ne 1 then _THS='NC';
  if N_TOT1<4 and ord ne 1 then _TOT='NC';
  if N_MCC1<4 and ord ne 1 then _MCC='NC';

run;

%let tflno=T_15_02_04_67;

%let nrow=10;

data paging;
  set fin1;
  by paramn param apuper apuperc ord;;
  cnt+1;
  page=ceil(cnt/10);
  ln=cnt;
  flag = 1;

  call symput("page",compress(put(page,best.)));
run;

data tflds.&tflno;
  set paging ;
run;

proc sort data=paging;
  by cnt;
run;

options number nodate orientation=landscape missing=' ';
ods escapechar='|';
%let linetop = \brdrt\brdrs\brdrw30;
%let linebot = \brdrb\brdrs\brdrw30;

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

%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;

%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 file="/cvn/projects/prj/data/000000106343/TFL/&TFL_Part./Tables/&tflno..rtf" style=t106343 startpage=yes headery=14
40 footery=1440 ;
ods noproctitle;

%do i=1 %to &page;
  title ;

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

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

%let title1=%nrbrquote(Table 15.2.4.67 Descriptive Statistics of Average Daily Product Use in Ambulatory Period by Preferred);
%let title2=%nrbrquote(Product Declared at Admission - FAS);
_firtitl1="%title1.";
_firtitl2="%title2.";

_upcas=(length(_firtitl1)-length(compress(_firtitl1,'ABCDEFGHIJKLMNOPQRSTUVWXYZ')))/2;
len=&blankn.-length("(Page &i of &page)");

if eof then do;
    call symput('_FSRTITL1', trim(left(_firtitl1)));
    call symput('_FSRTITL2', trim(left(_firtitl2)));

    call symput('_blankn', compress(put(len,best.)));
end;
drop _firtitl1 _firtitl2 _upcas len;
run;

ods listing close;

proc report data = comp headline headskip nowd split = '$'
%if &i=1 %then %do; contents=' ' %end; %else %do; contents='' %end;;;

column page PARAM APUPER APUPERC STAT
("Product Preference &linebot" _THS _MCC _SA _Nopreference) _TOT ;

define page          / order order = internal noprint;
define PARAM         / group 'Product' style={just=1 cellwidth=0.6 in } ;
define APUPER        / group order = internal noprint;
define APUPERC       / group 'Period' style={ cellwidth=0.5 in } ;
define STAT          / display 'Statistic' style={ cellwidth=0.5 in} ;
define _THS          / display 'THSm2.2' style={just=c cellwidth=0.6 in } ;
define _MCC          / display 'mCC' style={just=c cellwidth=0.6 in};
define _SA           / display 'SA' style={just=c cellwidth=0.6 in};
define _Nopreference  / display 'No preference' style={just=c cellwidth=0.6 in};
define _TOT          / display 'Overall' style={just=c cellwidth=0.6 in};

break after page/page;

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

compute after page / style={just=left protectspecialchars=off};
    line "&linebot";
endcomp;

compute after apuper;
    line " ";
endcomp;

compute before _page_ / style={just=left protectspecialchars=off};
    line "\b\fs24\sa24&_FSRTITL1." ;
    line "\b\fs24\sa24&_FSRTITL2." ;

    line "&linebot";
endcomp;

compute after _page_ / style={just=left protectspecialchars=off};
line 'Note: mCC = Menthol conventional cigarettes; SA = Smoking abstinence; THSm2.2 = Tobacco Heating System.';
    line 'Note: Ambulatory periods defined as Period 2 ([Day 6 ambulatory - Day 30 Visit]), Period 3 ([Day 30 Visit - Day 60 Visit])
and Period 4 ([Day 60 Visit - Day 90 Visit]).';
    line 'Note: Tob. Not Listed refers to other tobacco products not previously listed.';
    line 'Note: NC = Not calculated.';
    line 'Note: No recorded product use for other nicotine/tobacco products.';
    line ' ';
LINE "Appendix 15.3.1.5 and 15.3.2.1.3";
    line "Study ID: ZRHM-REXA-08-US      Program: &TFLprg      Status: &status" &_blankn.**"\~" "&sysdate" &_blankn.**"\~" "(Page &i of &p
age)";

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    endcomp;  
run;  
%end;  
ods rtf close;  
ods results on;  
ods path sashelp.tmplmst (read);  
  
%mend outrtf;  
  
%outrtf(blankn=36, halfblnk=N);  
ods listing;  
  
%m_logchk2;
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