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proc datasets lib=work nolist memtype=data kill; quit;
/*=====*
| Covance Study Number      : 000000106343                                |
| Program Name              : t_plug.sas                                |
| Purpose                   : table decriptive stats of Visual Inspection of the THSm2.2 Tobacco Plugs Data -FAS |
|                           |                                           |
| Input Data                : ADAM.ADXT ADAM.ADDX ADAM.ADSL                    |
| Output Data              : T_15_02_04_65                                |
| Macros Called            : %m_printto, %outrtf, m_logchk2                |
|                           |                                           |
| Originally Performed by  : Ranju Gautam                                |
| Date                    : 21MAY2015                                    |
|                           |                                           |
|=====*
| Modification History                                           |
| Modified by              :                                           |
| Modification Date        :                                           |
| Modification Description :                                           |
+=====*/

%m_printto(route=yes);

%let tflno=T_15_02_04_65;

%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 ;
*****;

data adsl;
    set adam.adsl(where=(fasfl='Y' and trt01p eq 'THSm2.2'));
run;

proc sql noprint;
    select count(distinct usubjid) into: trt from adsl ;
quit;

data xt0;
    set adam.adxt(where=( fasfl = 'Y' and parcat1 in ('Visual Inspection Of Tobacco Plug')
        and PARAMCD='VITP_L' and trtpn=4 ));
    if aval=. then aval=3;
    if avisitn ne . ;

run;

data xt0_;
    set xt0;
    where aval in (0 1 2);
run;

proc sql noprint;

select count(usubjid) into: dtrt1 from xt0_ where AVISIT='Day 1';
select count(usubjid) into: dtrt2 from xt0_ where AVISIT='Day 2';

select count(usubjid) into: dtrt3 from xt0_ where AVISIT='Day 3';

select count(usubjid) into: dtrt4 from xt0_ where AVISIT='Day 4';

select count(usubjid) into: dtrt5 from xt0_ where AVISIT='Day 5';

select count(usubjid) into: dtrt6 from xt0_ where AVISIT='Day 6/Discharge Confinement';

select count(usubjid) into: dtrt30 from xt0_ where AVISIT='Day 30';
select count(usubjid) into: dtrt60 from xt0_ where AVISIT='Day 60';
select count(usubjid) into: dtrt90 from xt0_ where AVISIT='Day 90';

    *including missing values for header;
select count(usubjid) into: dtrt1_ from xt0 where AVISIT='Day 1';

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select count(usubjid) into: dtrt2_ from xt0 where AVISIT='Day 2';

select count(usubjid) into: dtrt3_ from xt0 where AVISIT='Day 3';

select count(usubjid) into: dtrt4_ from xt0 where AVISIT='Day 4';

select count(usubjid) into: dtrt5_ from xt0 where AVISIT='Day 5';

select count(usubjid) into: dtrt6_ from xt0 where AVISIT='Day 6/Discharge Confinement';

select count(usubjid) into: dtrt30_ from xt0 where AVISIT='Day 30';
select count(usubjid) into: dtrt60_ from xt0 where AVISIT='Day 60';
select count(usubjid) into: dtrt90_ from xt0 where AVISIT='Day 90';

quit;

*for the product used count;
proc freq data=xt0 noprint ;
  table trtpn*trtp/out=freq_xt0;
run;

proc freq data=xt0_ noprint ;
  table trtpn*trtp/out=freq_xt0_;
run;

proc sql noprint;
  select strip(put(count,best.)) into :ntot from freq_xt0 ;
quit;

proc sql noprint;
  select count into :nomissn from freq_xt0_ ;
quit;

*for the regular used count;
proc freq data=xt0 noprint ;
  table trtpn*trtp*avisitn*avisit*aval*avalc/out=freq_xt1;
run;

proc sort data=freq_xt1;
  by trtpn trtp avisitn avisit aval avalc;
run;

proc transpose data=freq_xt1 out=trans prefix=_;
  by trtpn trtp avisitn avisit aval avalc;
  var count;
run;

data final1;
  set trans(drop=_label_ _name_);

  if _1 ne . then
    col1=strip(put(_1, best.));

  if _1 ne . then
    do;

      if AVISIT='Day 1' then
        per1='('||put(_1*100/&dtrt1,5.1)||'|'%)';
      else if AVISIT='Day 2' then
        per1='('||put(_1*100/&dtrt2,5.1)||'|'%)';
      else if AVISIT='Day 3' then
        per1='('||put(_1*100/&dtrt3,5.1)||'|'%)';
      else if AVISIT='Day 4' then
        per1='('||put(_1*100/&dtrt4,5.1)||'|'%)';
      else if AVISIT='Day 5' then
        per1='('||put(_1*100/&dtrt5,5.1)||'|'%)';
      else if AVISIT='Day 6/Discharge Confinement' then
        per1='('||put(_1*100/&dtrt6,5.1)||'|'%)';
      else if AVISIT='Day 30' then
        per1='('||put(_1*100/&dtrt30,5.1)||'|'%)';
      else if AVISIT='Day 60' then
        per1='('||put(_1*100/&dtrt60,5.1)||'|'%)';
      else if AVISIT='Day 90' then
        per1='('||put(_1*100/&dtrt90,5.1)||'|'%)';
      end;

  if aval=3 then

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do;
  avalc='Missing';
  per1='';
end;

drop _1;
run;

*****;
*create new page for each timepoint for report ;
*****;

proc sql;
  create table page as
  select distinct  avisitn, avisit, aval,avalc
  from final1
  order by avisitn,  avisit, aval,avalc;
quit;

data page1;
  set page;
  by  avisitn  avisit  aval  avalc;
  pg= _n_ ;

  if AVISIT='Day 1' then do; page=1;prodcount=&dtrt1_ ;end;
  else if AVISIT='Day 2' then do; page=2;prodcount=&dtrt2_ ;end;
  else if AVISIT='Day 3' then do; page=3;prodcount=&dtrt3_ ;end;
  else if AVISIT='Day 4' then do; page=4;prodcount=&dtrt4_ ;end;
  else if AVISIT='Day 5' then do; page=5;prodcount=&dtrt5_ ;end;
  else if AVISIT='Day 6/Discharge Confinement' then do; page=6;prodcount=&dtrt6_ ;end;
  else if AVISIT='Day 30' then do; page=7;prodcount=&dtrt30_ ;end;
  else if AVISIT='Day 60' then do; page=8;prodcount=&dtrt60_ ;end;
  else if AVISIT='Day 90' then do; page=9;prodcount=&dtrt90_ ;end;
run;

proc sql;
  create table final_page as
  select distinct a.*, b.page, b.prodcount
  from final1 as a
  left join page1 as b
  on a.avisitn=b.avisitn and a.avisit=b.avisit and a.aval=b.aval and a.avalc=b.avalc
  order by page;
quit;

proc sort data=final_page;
  by  page  avisitn  avisit  aval  avalc;
run;

data final_page;
  set final_page end=last;
  by  page  avisitn  avisit  aval  avalc;

  if last then call symputx("page", page);
run;

%let tflno=T_15_02_04_65;

data tfls.&tflno;
  set final_page;
run;

*****;
*create output report ;
*****;

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

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

%let title1 = %nrstr(Table 15.2.4.65 Descriptive Statistics of Visual Inspection of the THS 2.2 Menthol);
%let title2 = %nrstr(Tobacco Plugs Data - FAS);

%let TFL_Part=%scan(&_SASPROGRAMFILE,-3,%str(/));

data _null_;

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

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

    _firtitl="&title1.";
    _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('PROD',strip(put(prodcount,best.)));

        end;
        drop _firtitl _upcas len;
run;

ods listing close;

proc report data = comp headline headskip nowd split = '$' %if &i=1 %then %do; contents=' ' %end; %else %do; contents='' %end;;
    column page avisitn avisit AVAL AVALC ("THSm2.2$(N=%sysfunc(strip(&trt)))$[n of THSm2.2 products used =%sysfunc(strip(&PROD))])
"
    col1 per1 );

    define page          / noprint order ;
    define avisitn       / group noprint order ;
    define avisit        / "Timepoint" group order=internal style={just=left cellwidth=0.9cm} style(header)={just=left} ;
    define aval          / noprint order ;
    define avalc         / "Evaluation" display style={ cellwidth=1.9cm asis=on} style(header)={just=left} ;
    define col1          / "n" display style={just=c cellwidth=1.2cm} style(header)={just=center} ;
    define per1          / "%" display style={just=c cellwidth=1.2cm} style(header)={just=center} ;

    break after page/page;

compute after avisitn;
    line " ";
endcomp;

compute before _page_ / style={just=left protectspecialchars=off};
    line "\b\fs24\sa24& FSRTITL." ;
    line "\b\fs24\sa24&title2." ;

    line " ";
    line "&linebot";
endcomp;

compute after _page_ / style={just=left protectspecialchars=off pretext="&linetop."};
    line 'Note: THSm2.2 = Tobacco Heating System.';
    line 'Note: Percentages are based on the number of non-missing inspections.';
    line 'Note: 0 = No overheating, 1 = White spot(s) inside the tobacco plug, 2 = Ashes inside the tobacco plug and burnt paper.';

    line 'Note: Missing values assessed as the difference between the number of sticks used and the number of sticks for which visual inspection of the plug has been';
    line 'performed.';
    line '';
    line 'Appendix 15.3.6.21';

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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;

%outrtf(blankn=36, halfblnk=N);
ods listing;

%m_logchk2;
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