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/*=====
| Covance Study Number      : 000000106343
| Program Name              : t_rsdiscon.sas
| Purpose                   : Program to create table 15.2.1.2
| Input Data                : ADAM.ADSL, ADDS
| Output Data               : T_15_02_01_02
| Macros Called             :
| Originally Performed by   : Upender S
| Date                     : 28APR2015
|
|=====
| Modification History
|-----
| Modified by               :
| Modification Date        :
| Modification Description  :
+=====*/

%m_printto;

options notes nosource;
proc datasets lib=work nolist memtype=data kill; quit;

options notes source source2 nofullstimer validvarname=upcase missing=' ';

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

/* Standard - just change the number to match the listing you're working on. Also change the letters in the*/
/* bracket, eg ccb = current cigarette brands. Make sure to do this at the top of the code too. */

%let tflno=T_15_02_01_02;

/* Standard - leave this */
%let TFL_Part=%scan(&_SASPROGRAMFILE,-3,%str(/));

/* Standard - leave this */
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;

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

/*Read in ADSL for column headers*/
data adsl;
    set adam.adsl;
    where fasfl='Y';
    trtpn=trt01pn;
    trtp=trt01p;
    output;
    trtpn=99;
    trtp='Overall FAS';
    output;
run;

data dumtrts;
    attrib trtp length=$200. trtpn length=8.;
    trtpn=4;
    trtp='THSm2.2';
    output;
    trtpn=5;
    trtp='mCC';
    output;
    trtpn=3;
    trtp='SA';
    output;
run;

proc sort data=dumtrts;

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    by trtpn trtp;
run;

proc sort data=adsl;
    by trtpn trtp;
run;

proc freq data=adsl noprint;
    table trtpn*trtp/ out =tot(drop=percent);
run;

data tot2a;
    merge dumtrts(in=a) tot(in=b);
    if a or b;
    if a and not b then count=0;
    by trtpn trtp;
    rename count=total;
    call symput('trt' || compress(put(trtpn,best.)), compress(put(count, best.)));
run;

data tot2 (rename=(trtp1=trtp));
set tot2a;
length trtp1 $40;
trtp1=strip(trtp);
drop trtp;
run;

data adsl_ds ;
set adam.adds;
if randfl = 'Y' and fasfl = 'Y' and complfl='N' and dscat='DISPOSITION EVENT';

run;

proc sort data=adsl_ds; by usubjid dsseq; run;

data adsl_ds (drop=dsdecod rename=(dsdecod1=dsdecod));
set adsl_ds;
length dsdecod1 $50.;
by usubjid dsseq;
if dsdecod='LOST TO FOLLOW-UP' then dsdecod1='Lost to follow-up';
if dsdecod='WITHDRAWAL BY SUBJECT' then dsdecod1='Withdrawal by subject';
if dsdecod='PHYSICIAN DECISION' then dsdecod1='Physician decision';
if dsdecod='OTHER' then dsdecod1='Other';
if last.usubjid;
run;

data adsl_ds2;
set adsl_ds;
output;
trtpn=99;
trtp='Overall FAS';
output;
run;

data adsl_ds3;
set adsl_ds2;
output;
dsdecod='Total no. of discontinuations';
ord=1;
output;
run;

proc sort data=tot2;
    by trtp trtpn;
run;

proc freq data=adsl_ds3 noprint;
tables trtpn*trtp*dsdecod /out=dsfreqs (drop=percent);
run;

proc sort data=tot2; by trtpn trtp; run;
proc sort data=dsfreqs; by trtpn trtp; run;

data adsl_ds4;
merge dsfreqs (in=a) tot2 (in=b);
by trtpn trtp;

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run;

data adsl_ds5;
set adsl_ds4;

if count ne . then do;
    prcnt = 100 *count / total;
end;
if prcnt ne 0 then rowval= put(count,2.) || ' ( ' || compress(put(prcnt,8.1)) || ')';
run;

proc sort data=adsl_ds5 ; by dsdecod; run;

proc transpose data=adsl_ds5 out=adsl_ds6 prefix=trt;
by dsdecod;
id trtpn ;
var rowval;
run;

data adsl_ds7;
set adsl_ds6;
if dsdecod='Total no. of discontinuations' then order=2;
if dsdecod='Withdrawal by subject' then order=7;
if dsdecod='Lost to follow-up' then order=8;
if dsdecod='Physician decision' then order=8.5;
if dsdecod='Other' then order=9;
run;

data dummyrows;
attrib dsdecod length=$100. order length=8.;
order=2;
dsdecod='Total no. of discontinuations';
output;
order=3;
dsdecod='Reason for discontinuation';
output;
order=4;
dsdecod='Adverse events';
output;
order=5;
dsdecod='Protocol violation';
output;
order=7;
dsdecod='Withdrawal by subject';
output;
order=8;
dsdecod='Lost to follow-up';
output;
order=8.5;
dsdecod='Physician decision';
output;
order=9;
dsdecod='Other';
output;
run;

proc sort data=adsl_ds7; by order; run;
proc sort data=dummyrows; by order; run;

data adsl_ds8;
update dummyrows (in=b) adsl_ds7 (in=a);
by order;
if b and not a then do;
if dsdecod ne 'Reason for discontinuation' then do;
trt3=' 0 ( 0.0) ';
trt4=' 0 ( 0.0)';
trt5=' 0 ( 0.0)';
trt99='0 ( 0.0)';
end;
end;

if a and b then do;
array d(3) trt3 trt4 trt5;
do i=1 to 3;
if d(i)='' then d(i)=' 0 ( 0.0)';
end;
end;

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drop i;
run;

data tflds.T_15_02_01_02 (drop=_name_ order rename=(dsdecod=rowval));
set adsl_ds8;
run;

data adsl_ds09 (drop=dsdecod _name_ rename=(dsreas=rowtext order=roworder2 trt3=N3 trt4=N4 trt5=N5 trt99=N99));
length dsreas $100.;
set adsl_ds8;
if dsdecod='Total no. of discontinuations' then roworder1=2;
else roworder1=3;
if order not in (2 3) then dsreas='$S={foreground=white} . $S={ } ||strip(dsdecod);
else dsreas=dsdecod;

flag=1;
run;

proc sort data=adsl_ds09; by roworder1 roworder2; run;

data paging;
set adsl_ds09;
by roworder1 roworder2;
if first.roworder1 and ln ge 5 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;

/* Standard - leave this */
options number nodate orientation=landscape/* papersize=&p_gsize*/ 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 file="/cvn/projects/prj/data/000000106343/TFL/dev/Tables/&tflno..rtf" style=t106343 startpage=yes headery=1440 foot
ery=1440 ;
ods noproctitle;
%do i=1 %to &page;

title ;
footnote;

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

/* Amend title as needed */
_firtitl="Table 15.2.1.2 Summary of Reasons for Discontinuations - FAS ";
_upcas=(length(_firtitl)-length(compress(_firtitl,'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 proclabel=' ';

* 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 headsip nowd split = '$' %if &i=1 %then %do; contents=' ' %end; %else %do; contents='' %end;;

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column flag page roworder1 roworder2 rowtext n4 n5 n3 n99;
define flag      / order order = internal noprint;
define page      / order order = internal noprint;
define roworder1 / order order = internal noprint;
define roworder2 / order order = internal noprint;
define rowtext   / display 'Discontinuation' style={just=left cellwidth=4cm} style(header)={just=left};
define n4        / display "THSm2.2$(N=&trt4)$n (%)" style={just=Center cellwidth=1.3cm } style(header)={just=center} ""; /* 1)
JMH 11Jul2014 */
define n5        / display "mCC$(N=&trt5)$n (%)" style={just=Center cellwidth=1.3cm } style(header)={just=center} ""; /* 1) J
MH 11Jul2014 */
define n3        / display "SA$(N=&trt3)$n (%)" style={just=left cellwidth=1.2/*3*/cm PRETEXT="\tqdec\tx500 "} style(header)={
just=center} ""; /* 1) JMH 11Jul2014 */
define n99       / display "Overall FAS$(N=&trt99)$n (%)" style={just=left cellwidth=1.2cm pretext="\tqdec\tx500 "} style(heade
r)={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;

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; 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).'; /* 1) JMH 11Jul2014 */
line ' ';
LINE 'Appendix 15.3.1.8'; /* 1) JMH 11Jul2014 */
line "Study ID: ZRHM-REXA-08-US          Program: &TFLprg          Status: &status" &_blankn.*"\-\" "&sysdate" &_blankn.*"\-\"
" "(Page &i of &page)";
endcomp;

run;
%end;
ods results on;
ods path sashelp.tmplmst (read);

%mend ;

%outtrtf(blankn=28, halfblnk=N);

proc printto ; run;

%m_logchk;
*=====;
* END OF PROGRAM CODE ;
*=====;

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