

```

/*=====
| Covance Study Number      : 000000106343      |
| Program Name              : t_produce_pp.sas    |
| Purpose                   : 15.2.2.1.2 summary of Daily Product use in Confinement Period -PP set
|                             |
| Input Data                : ADAM.ADSL, ADAM.adex      |
| Output Data               : T_15_02_02_01_02
|                             |
| Macros Called             :
| Originally Performed by   :Sree Bikki
| Date                     : 11May2015
|
|=====
| Modification History
|-----
| Modified by               :
| Modification Date        :
| Modification Description  :
|=====*/

```

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

```
%m_printto;
```

```
/* 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;
```

```
data adex;
set adam.adex;
    where PPROT1FL='Y' and parcat3 ="DAILY PRODUCT USE" and paramcd in ("DCHWMKL" "DCIGARS" "DE_CIG" "DGUMS" "DINHALER" "DLOZENGE"
"DMCC" "DNASPRAY"
"DOTHNRT" "DOTHTOB" "DPATCHES" "DPIPE" "DTHS2_2" );
run;
```

```
data adfa;
set adam.adfa;
where PPROT1FL='Y' and paramcd = "NUMSTIC" ;
keep usubjid aval trtpn;
run;
```

```
data adfa0;
set adfa;
if trtpn = 4 then do;
    trt01p = 'THS';
    trt01pn = 1;
end;
if trtpn = 5 then do;
    trt01p = 'mcc';
    trt01pn = 2;
end;
if trtpn = 3 then do;
    trt01p = 'SA';
    trt01pn = 3;
end;
run;
```

```
data adfa1;
set adfa0;
output;
trt01pn = 99;
trt01p = 'Total';
output;
run;
```

```

data dm;
set adex;
if trtpn = 4 then do;
trt01p = 'THS';
trt01pn = 1;
end;
if trtpn = 5 then do;
trt01p = 'mcc';
trt01pn = 2;
end;
if trtpn = 3 then do;
trt01p = 'SA';
trt01pn = 3;
end;
run;

```

```

data dm0;
set dm;
output;
trt01pn = 99;
trt01p = 'Total';
output;
run;

```

```

proc sort data= dm0;
by usubjid;
run;

```

```

proc sql noprint ;
select count (distinct usubjid) into :n1 from dm0 where trt01pn = 1;
select count (distinct usubjid) into :n2 from dm0 where trt01pn = 2;
select count (distinct usubjid) into :n3 from dm0 where trt01pn = 3;
select count (distinct usubjid) into :ntot from dm0 where trt01pn = 99;
quit;

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```

%put @@ &n1 &n2 &n3 &ntot;

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/**BLOCK 1*/

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proc sql;
create table block1 as
select count (distinct usubjid) as n, 1 as ord, "n(%)" as term length =200, trt01pn, trt01p from adfa1 where aval = 1
group by trt01pn, trt01p
union select count (distinct usubjid)as n, 2 as ord, "n(%)" as term length =200, trt01pn, trt01p from adfa1 where aval = 2
group by trt01pn, trt01p
union select count (distinct usubjid)as n, 3 as ord, "n(%)" as term length =200, trt01pn, trt01p from adfa1 where aval= 3
group by trt01pn, trt01p
union select count (distinct usubjid)as n, 4 as ord, "n(%)" as term length =200, trt01pn, trt01p from adfa1 where aval= 4
group by trt01pn, trt01p
order by ord, trt01pn, trt01p;
quit;

```

```

proc transpose data= block1 out= block1_tra(drop= _name_) prefix= _;
var n;
id trt01pn;
by ord term;
run;

```

```

data block1_fin;
length trt1 trt2 trt3 trt99 $50;
set block1_tra;
if _1 not in (0, .)then do;
trt1 = strip(put(_1,best.))||' ('||strip(put(_1/&n1*100,5.1))||')';
end;
else if _1 in (0, .) then do;
trt1 = "0";
end;
if _2 not in (0, .) then do;
trt2 = strip(put(_2,best.))||' ('||strip(put(_2/&n2*100,5.1))||')';
end;
else if _2 in (0, .) then do;
trt2 = "0";
end;

```

```

if _3 not in (0, .) then do;
trt3 = strip(put(_3,best.))||' ('||strip(put(_3/&n3*100,5.1))||')';
end;
else if _3 in (0, .) then do;
trt3 = "0";
end;
if _99 not in (0, .) then do;
trt99 = strip(put(_99,best.))||' ('||strip(put(_99/&ntot*100,5.1))||')';
end;
else if _99 in (0, .) then do;
trt99 = "0";
end;
drop _1 _2 _3 _99;
run;

data dum;
length term $200;
trt1 = " ";
trt2 = " ";
trt3 = " ";
trt99= " ";
do ord = 1 to 4;
do term = "n(%)" ;
output;
end;
end;
run;

data block1_fin;
length trt1 trt2 trt3 trt99 $50 ;
update dum(in=a) block1_fin;
by ord;
if trt1 = " " then trt1 = "0";
if trt2 = " " then trt2 = "0";
if trt3 = " " then trt3 = "0";
if trt99 = " " then trt99 = "0";
run;

/*Block 2*/

%macro blocks( cond = , outds= , stat = );

data &outds;
set dm0;
where &cond;
run;

proc sort data= &outds;
by trt01pn trt01p avisitn avisit ;
run;

proc means data=&outds noprint;
by trt01pn trt01p avisitn avisit ;
var aval ;
output out=&stat (drop=_type_ _freq_)n=smalln mean=mean std=std min=min max=max median=med lclm = lclm uclm = uclm;
run;

data &outds._1;
set &stat;
if not missing(lclm) then lclmx = 0.1*floor(10*lclm);
if not missing(uclm) then uclmx = 0.1*ceil(10*uclm);
if not missing(std) then std1 = 0.01*ceil(100*std);
if not missing(smalln) then do;
n=strip(put(smalln,best.));
end;

if not missing(mean) and not missing(std) then do;
mean_sd=strip(put(round(mean, 0.01), 15.1))||' ('||strip(put(std1, 16.2))||')';
end;
if not missing(med) then do;
median=strip(put(round(med, 0.01), 15.1));
end;

if not missing(min) and not missing(max) then do;
min_max= strip(put(round(min, 0.1), 15.0))||', '||strip(put(round(max, 0.1), 15.0));
end;

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if not missing(lclmx) and not missing(uclmx) then do;
ci = strip(put(lclmx, 15.1))||", "||strip(put(uclmx, 15.1));
end;

if n = " " then n = "0";
if mean_sd = " " then mean_sd = "NA";
if min_max = " " then min_max ="0 , 0";
if median = " " then median = "0.0";
if ci = " " then ci = "NA";
drop smalln mean med min max std lclmx uclmx std1 ;

run;

proc transpose data= &outds._1 out= &outds._tra prefix= trt;
var n mean_sd median min_max ci;
id trt01pn;
run;

data dummy;
trt1 = " ";
trt2 = " ";
trt3 = " ";
trt99= " ";
do ord = 1 to 5;
output;
end;
run;

data &outds._fin_0;
length term $200.;
set &outds._tra;
if _name_ = "N" then do;
ord = 1;
term = "n";
end;
else if _name_ = "MEAN_SD" then do;
ord = 2;
term = "Mean (SD)";
end;
else if _name_ = "CI" then do;
ord = 3;
term = "95% CI";
end;
else if _name_ = "MEDIAN" then do;
ord = 4;
term = "Median";
end;
else if _name_ = "MIN_MAX" then do;
ord = 5;
term = "Min, Max";
end;
run;
proc sort data= &outds._fin_0;
by ord term;
run;

data &outds._fin;
length trt1 trt2 trt3 trt99 $50;
update dummy(in=a) &outds._fin_0;
by ord;
run;

proc sort data=&outds._fin(drop=_name_);
by ord term;
run;

%mend blocks;

%blocks(cond = (apuper = 0 and avisitn = 98 and paramcd ="DTHS2_2"), outds= block2, stat= stat1);
%blocks(cond = (apuper = 0 and avisitn = 99 and paramcd ="DMCC"), outds= block3, stat= stat2);
%blocks(cond = (apuper = 0 and avisitn = 99 and paramcd ="DTHS2_2"), outds= block4, stat= stat3);
%blocks(cond = (apuper = 0 and avisitn = 100 and paramcd ="DMCC"), outds= block5, stat= stat4);
%blocks(cond = (apuper = 0 and avisitn = 100 and paramcd ="DTHS2_2"), outds= block6, stat= stat5);
%blocks(cond = (apuper ^= 0 and avisitn = 101 and paramcd ="DMCC"), outds= block7, stat= stat6);
%blocks(cond = (apuper ^= 0 and avisitn = 101 and paramcd ="DTHS2_2"), outds= block8, stat= stat7);

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%blocks(cond = (apuper ^= 0 and avisitn = 102 and paramcd = "DMCC"), outds= block9, stat= stat8);
%blocks(cond = (apuper ^= 0 and avisitn = 102 and paramcd = "DTHS2_2"), outds= block10, stat= stat9);
%blocks(cond = (apuper ^= 0 and avisitn = 103 and paramcd = "DMCC"), outds= block11, stat= stat10);
%blocks(cond = (apuper ^= 0 and avisitn = 103 and paramcd = "DTHS2_2"), outds= block12, stat= stat11);
%blocks(cond = (apuper ^= 0 and avisitn = 104 and paramcd = "DMCC"), outds= block13, stat= stat12);
%blocks(cond = (apuper ^= 0 and avisitn = 104 and paramcd = "DTHS2_2"), outds= block14, stat= stat13);
%blocks(cond = (apuper ^= 0 and avisitn = 105 and paramcd = "DMCC"), outds= block15, stat= stat14);
%blocks(cond = (apuper ^= 0 and avisitn = 105 and paramcd = "DTHS2_2"), outds= block16, stat= stat15);
%blocks(cond = (apuper ^= 0 and avisitn = 106 and paramcd = "DMCC"), outds= block17, stat= stat16);
%blocks(cond = (apuper ^= 0 and avisitn = 106 and paramcd = "DTHS2_2"), outds= block18, stat= stat17);

data block_all;
set block1_fin(in=a) block2_fin (in=b) block3_fin (in=c) block4_fin (in=d) block5_fin (in=e) block6_fin (in=f)
block7_fin (in=g) block8_fin (in=h) block9_fin (in=i) block10_fin (in=j) block11_fin (in=k) block12_fin (in=l)
block13_fin (in=m) block14_fin (in=n) block15_fin (in=o) block16_fin (in=p) block17_fin (in=q) block18_fin (in=r);
if a then subord = 0;
else if b then subord = 1;
else if c then subord = 2;
else if d then subord = 3;
else if e then subord = 4;
else if f then subord = 5;
else if g then subord = 6;
else if h then subord = 7;
else if i then subord = 8;
else if j then subord = 9;
else if k then subord = 10;
else if l then subord = 11;
else if m then subord = 12;
else if n then subord = 13;
else if o then subord = 14;
else if p then subord = 15;
else if q then subord = 16;
else if r then subord = 17;
run;

data all;
length visit $50 occa $50;
set block_all;
if subord = 0 and ord = 1 then do;
visit = "Day -2";
occa = "THSm2.2 Test";
end;
if subord = 1 and ord = 1 then do;
visit = "Day -2";
nouse="THSm2.2";
end;
if subord = 2 and ord = 1 then do;
visit = "Day -1";
nouse="mCC";
occa = "Pre-Randomization Period";
end;
if subord = 3 and ord = 1 then do;
visit = "Day -1";
nouse="THSm2.2";
end;
if subord = 4 and ord = 1 then do;
visit = "Day 0";
nouse="mCC/CC";
occa = "Pre-Randomization Period";
end;
if subord = 5 and ord = 1 then do;
visit = "Day 0";
nouse="THSm2.2";
end;
if subord = 6 and ord = 1 then do;
visit = "Day 1";
nouse="mCC/CC";
occa = "Randomization Period";
end;
if subord = 7 and ord = 1 then do;
visit = "Day 1";
nouse="THSm2.2";
end;
if subord = 8 and ord = 1 then do;
visit = "Day 2";
nouse="mCC/CC";
end;

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```

occa = "Randomization Period";
end;
if subord = 9 and ord = 1 then do;
visit = "Day 2";
nouse="THSm2.2";
end;
if subord = 10 and ord = 1 then do;
visit = "Day 3";
nouse="mCC/CC";
occa = "Randomization Period";
end;
if subord = 11 and ord = 1 then do;
visit = "Day 3";
nouse="THSm2.2";
end;
if subord = 12 and ord = 1 then do;
visit = "Day 4";
nouse="mCC/CC";
occa = "Randomization Period";
end;
if subord = 13 and ord = 1 then do;
visit = "Day 4";
nouse="THSm2.2";
end;
if subord = 14 and ord = 1 then do;
visit = "Day 5";
nouse="mCC/CC";
occa = "Randomization Period";
end;
if subord = 15 and ord = 1 then do;
visit = "Day 5";
nouse="THSm2.2";
end;
if subord = 16 and ord = 1 then do;
visit = "Day 6";
nouse="mCC/CC";
occa = "Randomization Period";
end;
if subord = 17 and ord = 1 then do;
visit = "Day 6";
nouse="THSm2.2";
end;
if subord = 0 then do;
nouse = strip(put(ord,best.));
end;
if ord = 1 then do;
if trt1 = " " then trt1= "0";
if trt2 = " " then trt2 = "0";
if trt3 = " " then trt3 = "0";
if trt99 = " " then trt99 = "0";end;
run;

data page1;
set all;
by subord ord term;
if subord in (0 1 ) then page = 1;
if subord in (2 3 ) then page = 2;
if subord in (4 5) then page = 3;
if subord in (6 7) then page = 4;
if subord in (8 9) then page = 5;
if subord in (10 11) then page = 6;
if subord in (12 13) then page = 7;
if subord in (14 15) then page = 8;
if subord in (16 17) then page = 9;
run;

proc sql;
create table final_page as
select distinct a.*, b.page
from all as a
left join page1 as b
on a.subord = b.subord and a.ord = b.ord
order by subord, ord;
quit;

data final_page;
set final_page end=last;
by subord ord term;

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

%let tflno = %str(T_15_02_02_01_02);

data tfls.&tflno;
set final_page;
run;

%put &page;

/* Standard - leave this */
options number nodate orientation=landscape /* papersize=&P_PGSize*/ 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/* contents*/ file="cvn/projects/prj/data/000000106343/TFL/&TFL_Part./Tables/&tflno..rtf" style=t106343 startpage=y
es headery=1440 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;
/* Amend title as needed */
_firtitl="Table 15.2.2.1.2 Summary of Daily Product Use in Confinement Period- PP Set";
_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;
/* Update with your variables as needed */

proc report data = comp headline headskip nowd split = '$' %if &i=1 %then %do; contents=' ' %end; %else %do; contents='' %end;;
column page subord occa visit nouse ord term trt1 trt2 trt3 trt99;
define page / order order = internal noprint;
define subord / order order = internal noprint;
define occa / "Occasion" style={just=left cellwidth=2.9cm} style(header)={just=left};
define visit /"Visit" style={just=center cellwidth=1.0cm} style(header)={just=center} ;
define nouse /"Number$of Uses" style={just=center cellwidth=1.2cm} style(header)={just=center} ;
define ord / order order = internal noprint; ;
define term /"Statistic" display style={JUST=left cellwidth=1.2cm} style(header)={just=left} ;
define trt1 /"THSm2.2$(N=%sysfunc(strip(&n1)))" display style={just=c cellwidth=1.4cm} style(header)={just=center} ;
define trt2 /"mCC$(N=%sysfunc(strip(&n2)))" display style={just=c cellwidth=1.4cm} style(header)={just=center};
define trt3 /"SAS$(N=%sysfunc(strip(&n3)))" display style={JUST=c cellwidth=1.4cm} style(header)={just=center};
define trt99 /"Overall$PP Set$(N=%sysfunc(strip(&ntot)))" display style={just=c cellwidth=1.4cm} style(header)={just=cen
ter};

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```

break after page / page;

compute after subord;
  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; 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).';
  line 'Note: n represents the number of reporting subjects.';
  line 'Note: Confinement period is defined as period from Day -2 to Day 6.';
line ' ';
  line 'Appendix 15.3.2.1.1, 15.3.2.1.2';
  line "Study ID: ZRHM-REXA-08-US      Program: &TFLprg      Status: &status" &_blankn.**"\~\~" "&sysdate" &_blankn.**"\~\~" "(Page &i o
f &page)";
endcomp;
run;
%end;
ods rtf close;
ods results on;
ods path sashelp.tmplmst (read);

%mend ;

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

ods listing;
%m_logchk2;

```