

```
/*=====
=====*
```

```
| Covance Study Number   : 000000106343      |
| Program Name           : t_hpma_cp.sas      |
| Purpose                 : Program to create table 15.2.4.3.3      |
| Input Data              : ADAM.ADSL, ADAM.ADBX      |
|                          |                    |
| Output Data             : T_15_02_04_03_03      |
| Macros Called           : %m_printto, %param, %stats, %outrtf, %m_logchk      |
| Originally Performed by : Upender S          |
| Date                    : 28May2015          |
```

```
|                    |
```

```
|=====
=====|
```

```
| Modification History      |
|-----|
```

```
| Modified by              :                    |
```

```
| Modification Date        :                    |
```

```
| Modification Description :                    |
```

```
+=====
=====*/
```

```
%m_printto(route=YES);
```

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

```
ods results on;
```

```
ods path sashelp.tmplmst (read);
```

```
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 adbx;
```

```
set adam.adbx (where=((compp1fl = "Y" or compp2fl = "Y" or compp3fl = "Y" or compp4fl = "Y") and  
anl02fl='Y' ));
```

```
run;
```

```
data adbx1 (drop=trtpn rename=(trtpn_=trtpn));
```

```
set adbx;
```

```
if trtp='THSm2.2' then trtpn_=1;
```

```
if trtp='mCC' then trtpn_=2;
```

```
if trtp='SA' then trtpn_=trtpn;
```

```
if trtpn_=1 then cat='1';
```

```
if trtpn_=2 then cat='2';
```

```
if trtpn_=3 then cat='3';
```

```
run;
```

```
proc sql exec; select count(distinct usubjid) into: N1THS from adam.adsl(where=(trt01pn = 4 and  
compp1fl = "Y")); quit;
```

```
proc sql exec; select count(distinct usubjid) into: N1MCC from adam.adsl(where=(trt01pn = 5 and  
compp1fl = "Y"));quit;
```

```
proc sql exec; select count(distinct usubjid) into: N1SAA from adam.adsl(where=(trt01pn = 3 and  
compp1fl = "Y"));quit;
```

```
proc sql exec; select count(distinct usubjid) into: N2THS from adam.adsl(where=(trt01pn = 4 and  
compp2fl = "Y"));quit;
```

```
proc sql exec; select count(distinct usubjid) into: N2MCC from adam.adsl(where=(trt01pn = 5 and  
compp2fl = "Y"));quit;
```

```
proc sql exec; select count(distinct usubjid) into: N2SAA from adam.adsl(where=(trt01pn = 3 and  
compp2fl = "Y"));quit;
```

```
proc sql exec; select count(distinct usubjid) into: N3THS from adam.adsl(where=(trt01pn = 4 and  
compp3fl = "Y"));quit;
```

```
proc sql exec; select count(distinct usubjid) into: N3MCC from adam.adsl(where=(trt01pn = 5 and  
compp3fl = "Y"));quit;
```

```
proc sql exec; select count(distinct usubjid) into: N3SAA from adam.adsl(where=(trt01pn = 3 and  
compp3fl = "Y"));quit;
```

```
proc sql exec; select count(distinct usubjid) into: N4THS from adam.adsl(where=(trt01pn = 4 and  
compp4fl = "Y"));quit;
```

```
proc sql exec; select count(distinct usubjid) into: N4MCC from adam.adsl(where=(trt01pn = 5 and  
compp4fl = "Y"));quit;
```

```
proc sql exec; select count(distinct usubjid) into: N4SAA from adam.adsl(where=(trt01pn = 3 and  
compp4fl = "Y"));quit;
```

```
%macro param(paramcd=, x=);
```

```
data &paramcd._orig;
```

```
set adbx1;
```

```
where paramcd = "&paramcd.";
```

```
run;
```

```
%macro stats(colvar=);
```

```
data co_1;
```

```
set &paramcd._orig;;
```

```
where (compp1fl = "Y" and 101<=avisitn <= 105) or (compp2fl = "Y" and avisitn = 130) or (compp3fl =  
"Y" and avisitn = 160) or (compp4fl = "Y" and avisitn = 190);
```

```
where also paramcd = "&paramcd." and avalc ne "" ;
```

```
if avisit in ('DAY -1' 'DAY 0') then delete;
```

```
if not missing(&colvar.) and &colvar. > 0 then ageo=log(&colvar.);
```

```
if not missing(&colvar.) then dataflg=1;
```

```
keep usubjid paramn cat avisitn avisit &colvar. AQLFL ageo dataflg apuper apuperc;
```

```
run;
```

```
data baseline ;
```

```
set &paramcd._orig;;
```

```
where paramcd = "&paramcd." ;
```

```

if &colvar. ^=. and &colvar. > 0 then ageo=log(&colvar.);

if not missing(&colvar.) then dataflg=1;


if abfl='Y' and compp1fl = "Y" then do; avisit='Baseline'; avisitn=10; apuper = 1; apuperc = "Period 1";
output; end;

if abfl='Y' and compp2fl = "Y" then do; avisit='Baseline'; avisitn=10; apuper = 2; apuperc = "Period
2";output; end;

if abfl='Y' and compp3fl = "Y" then do; avisit='Baseline'; avisitn=10; apuper = 3; apuperc = "Period 3";
output; end;

if abfl='Y' and compp4fl = "Y" then do; avisit='Baseline'; avisitn=10; apuper = 4; apuperc = "Period
4";output; end;

keep usubjid paramn cat avisitn avisit &colvar. AQLFL ageo apuper apuperc;

run;


proc sort data=baseline NODUPKEY;

by apuper apuperc usubjid cat avisit avisitn &colvar.;

run;


data co_1b;

set co_1 baseline;

run;


proc sort data=co_1b; by apuper apuperc avisitn avisit cat; run;


** BLQ Counts **;

```

```
proc sort data=co_1b out=co_1bq nodupkey dupout=blqdups; by usubjid paramn cat avisitn ; run;
```

```
proc sql;
```

```
create table co_2t as select apuper, apuperc, cat, count(distinct usubjid) as tot from co_1bq group by  
apuper, apuperc, cat order by apuper, apuperc,cat;
```

```
create table co_2c as select apuper, apuperc,cat, avisitn, avisit, 'BLQ' as _stat_ length=8,  
sum(AQLFL='Y') as count from co_1bq
```

```
group by apuper, apuperc,cat, avisitn,
```

```
avisit order by apuper, apuperc, cat, avisitn;
```

```
create table co_2s as select apuper, apuperc,cat, avisit, avisitn,count(distinct usubjid) as stot from  
co_1bq where dataflg=1
```

```
group by apuper, apuperc, cat ,avisitn, avisit
```

```
order by apuper, apuperc, cat, avisitn;
```

```
quit;
```

```
data co_2bX; /* 1) JH 23OCT2014 */
```

```
merge co_2c(in=a) co_2t /*co_2s*/; /* 1) JH 23OCT2014 */
```

```
by apuper apuperc cat;
```

```
if a;
```

```
run;
```

```
/* 1) JH 23OCT2014 - START */
```

```
DATA CO_2B;
```

```
MERGE CO_2BX(IN=A) CO_2S;
```

```
BY apuper apuperc CAT AVISITN AVISIT;
```

```
IF A;
```

```
RUN;
```

```
/* 1) JH 23OCT2014 - END */
```

```
proc sort data=co_1b ;  
by apuper apuperc avisitn avisit cat &colvar.;  
run;
```

```
** Normal Stats **;  
proc means data=co_1b noprint;  
var &colvar.;  
by apuper apuperc avisitn avisit cat;  
output out=co_2s(drop=_freq_ _type_) n=n mean=mean std=std median=med min=min max=max  
p25=q25 p75=q75 lclm =cl95 uclm=cu95 ;  
run;
```

```
****combining BLQ stats with rest of the stats ****;
```

```
proc sort data=CO_2B ; by apuper apuperc avisitn avisit cat; run;
```

```
data co_2s_blq;  
merge co_2s (in=a) CO_2B (in=b drop=_stat_ tot stot rename=(count=blq));  
by apuper apuperc avisitn avisit cat;  
run;
```

```
data co_2s_1;
set co_2s_blq;

if apuper = 1 then do;
    period = "Period 1";
    if cat='1' then BigN= &N1THS;
    if cat='2' then BigN = &N1mcc;
    if cat='3' then BigN = &N1saa;
end;

else if apuper = 2 then do;
    period = "Period 2";
    if cat='1' then BigN= &n2ths;
    if cat='2' then BigN = &n2mcc;
    if cat='3' then BigN = &n2saa;
end;

else if apuper = 3 then do;
    period = "Period 3";
    if cat='1' then BigN= &N3THS;
    if cat='2' then BigN = &N3mcc;
    if cat='3' then BigN = &N3saa;
end;

else if apuper = 4 then do;
    period = "Period 4";
    if cat='1' then BigN= &N4THS;
    if cat='2' then BigN = &N4mcc;
```



```

if cat='3' then BigN = &N4saa;

end;

msng=BigN-n;

if .<msng^=0 then msng_prct=(msng/BigN)*100;

if .<blq^=0 then bloq_prct=(blq/N)*100;

run;


data co_2s_c;

length N mean_sd min_max median q25_q75 cl95_cu95 msg_pct blq_pct $50.;

set co_2s_1(rename=(n=n_orig));


if cl95 ne . then cl95 = 0.01*floor(100*cl95);

if cu95 ne . then cu95 = 0.01*ceil(100*cu95);


if n_orig ^=. then N = compress(put(n_orig,best.));

if .<msng^=0 then msg_pct=compress(put(msng, best.))||'('||compress(put(msng_prct, 5.1))||')';

if .<blq^=0 then blq_pct=compress(put(blq, best.))||'('||compress(put(bloq_prct, 5.1))||')';


if mean ^=. and std ^=. then mean_sd =strip(put(mean,12.2))||" ("||strip(put(std,12.3))||")";

if min ^=. and max ^=. then min_max = strip(put(min,12.1))||", "||strip(put(max,12.1));

if med ^=. then median = strip(put(med,12.2));

if q25 ^=. and Q75 ^=. then q25_q75= strip(put(q25,12.2))||", "||strip(put(q75,12.2));

if cl95 ^=. and cu95 ^=. then cl95_cu95= strip(put(cl95,12.2))||", "||strip(put(cu95,12.2));

run;

```

```
proc transpose data=co_2s_c out=co_2s_ct(rename=(_name=_stat_col1=&colvar.));
  by apuper apuperc avisitn avisit cat;
  var N msg_pct blq_pct mean_sd median min_max q25_q75 cl95_cu95;
run;
```

```
data co_2s_ct (rename=(stat=_stat_));
length stat $10.;
set co_2s_ct;
stat=_stat_;
drop _stat_;
run;
```

```
** Geometric Stas **;
proc means data=co_1b noprint mean std lclm uclm;
  where &colvar ne .;
  var ageo;
  by apuper apuperc avisitn avisit cat;
  output out=co_2gs mean=gmean std=gstd lclm=glclm uclm=guclm;
run;
```

```
data co_2gs_x (drop=gmean glclm guclm rename=(gmean_x=gmean glclm_x=glclm guclm_x=guclm ));
set co_2gs;
if gmean ne . then gmean_x=exp(gmean);
if glclm ne . then glclm_x=exp(glclm);
if guclm ne . then guclm_x=exp(guclm);
```

```
run;
```

```
data co_2gs_c;
```

```
set co_2gs_x;
```

```
if glclm ne . then glclm = 0.01*floor(100*glclm);
```

```
if guclm ne . then guclm = 0.01*ceil(100*guclm);
```

```
if gstd ^= . then CV=sqrt(exp(gstd*gstd)-1)*100;
```

```
if gmean ^= . and CV ^= . then gmean_cv =strip(put(gmean,20.2))||" ("||strip(put(cv,20.3))||")";
```

```
if glclm ^= . and guclm ^= . then glcm_guclm= strip(put(glclm,20.2))||", "||strip(put(guclm,20.2));
```

```
if glclm= . and guclm= . then glcm_guclm= 'NA' ||", "||'NA';
```

```
run;
```

```
proc transpose data=co_2gs_c out=co_2gs_ct( rename=(_name_=_stat_ col1=&colvar.));
```

```
by apuper apuperc avisitn avisit cat;
```

```
var gmean_cv glcm_guclm;
```

```
run;
```

```
data co_3;
```

```
set co_2s_ct co_2gs_ct;
```

```
run;
```

```
proc sort data=co_3 out=co_4; by apuper apuperc avisitn avisit _stat_; run;
```

```
proc transpose data=co_4 out=transpose_&colvar. prefix=&colvar.;
```

```
by apuper apuperc avisitn avisit _stat_;
```

```
id cat;
```

```
var &colvar.;
```

```
run;
```

```
%mend stats;
```

```
%stats(colvar=aval);
```

```
%stats(colvar=pchg);
```

```
data &paramcd;
```

```
merge transpose_aval (in=a drop=_name_)
```

```
transpose_pchg(in=b drop=_name_);
```

```
by apuper apuperc avisitn avisit _stat_;
```

```
if a or b;
```

```
run;
```

```
data &paramcd._final;
```

```
length label $100.;
```

```
set &paramcd.;
```

```
if upcase(_stat_) = "N" then do; order = 1; label="n";end;
```

```

if upcase(_stat_)= 'MSG_PCT' then do; order=1.5; label='Missing, n (%)'; end;

if upcase(_stat_)= 'BLQ_PCT' then do; order=1.75; label='BLOQ, n (%)'; end;


if upcase(_stat_) = "GMEAN_CV" then do; order = 2; label="Geometric Mean (CV%)";end;

if upcase(_stat_) = "GLCM_GUCLM" then do; order = 3; label="95% CI of Geometric Mean";end;

if upcase(_stat_) = "MEDIAN" then do; order = 4; label="Median";end;

if upcase(_stat_) = "Q25_Q75" then do; order = 5; label="Q25, Q75";end;

if upcase(_stat_) = "MIN_MAX" then do; order = 6; label="Min, Max";end;

if upcase(_stat_) = "MEAN_SD" then do; order = 7; label="Mean (SD)";end;

if upcase(_stat_) = "CL95_CU95" then do; order = 8; label="95% CI of Mean";end;


ord = &x.;

run;


proc sort data=&paramcd._final;

by apuper apuperc avisitn avisit order;

run;


%mend param;


%param(paramcd=U3HPM24U, x=2);

%param(paramcd=U3HPMCRE, x=1);


proc sort data = adbx out=param (keep=paramcd param paramn avalu) nodupkey;

by paramcd;

```

```
run;
```

```
data final;
```

```
length paramcd $8.;
```

```
set U3HPMCRE_final(in=a)
```

```
        U3HPM24U_final(in=b);
```

```
        if a then paramcd = "U3HPMCRE";
```

```
        else if b then paramcd ="U3HPM24U";
```

```
run;
```

```
proc sort data=final;
```

```
by paramcd apuper apuperc avisitn avisit order;
```

```
run;
```

```
data final1;
```

```
merge final(in=a) param(in=b);
```

```
by paramcd;
```

```
if a;
```

```
run;
```

```
****set pchg to missing for paramcd = 20;
```

```
data final2;
```

```
set final1;
```

```
if paramn = 20 then do;
```

```
    array x pchg;;
```

```
do over x;

x = "";

end;

end;

if upcase(avisit) = "BASELINE" then do;

array y pchg;;

do over y;

y = "";

end;

end;

if order in (2 3) then do;

pchg1 = "";

pchg2 = "";

pchg3 = "";

end;

run;
```

```
data final3;
```

```
set final2;
```

```
rename label = txt
```

```
aval1 = trt_4
```

```
aval2 = trt_5
```

```
aval3 = trt_3
```

```
pchg1 = chg_4
```

```

        pchg2 = chg_5

        pchg3 = chg_3

        order  = txtn;

run;

proc sort data= final3;

by paramn param apuper apuperc avisitn avisit txtn ;

run;

data final3a;

set final3;

if upcase(_stat_) = 'MSG_PCT' and cmiss(trt_3, trt_4, trt_5, chg_3, chg_4, chg_5)=6 then delete;

if upcase(_stat_) = 'BLQ_PCT' and cmiss(trt_3, trt_4, trt_5, chg_3, chg_4, chg_5)=6 then delete;

if upcase(_stat_) = 'BLQ_PCT' then call missing(chg_3, chg_4, chg_5);


if upcase(_stat_) = 'MSG_PCT' then do;

array mb {3} trt_3 trt_4 trt_5;

do i = 1 to 3;

    if mb{i} = " then mb{i} = '0';

end;

end;

```



```
if upcase(_stat_) = 'BLQ_PCT' then do;
```

```
array md {3} trt_3 trt_4 trt_5;
```

```
do i = 1 to 3;
```

```
if md{i} = " then md{i} = '0';
```

```
end;
```

```
end;
```

```
if paramn=19 then do;
```

```
if upcase(_stat_) = 'MSG_PCT' then do;
```

```
if cmiss(chg_3, chg_4, chg_5) ne 3 then do;
```

```
array mc {3} chg_3 chg_4 chg_5;
```

```
do i = 1 to 3;
```

```
if mc{i} = " then mc{i} = '0';
```

```
end;
```

```
end;
```

```
end;
```

```
end;
```

```
run;
```

```
data tflds.t_15_02_04_03_03;
```

```
set final3a (drop=paramcd);
```

```
run;
```

```
data final_dp;
```

```
length period $200.;
```

```
set final3a;
```

```
by paramn param apuper apuperc avisitn avisitn txtn ;
```

```
if apuper = 1 then do;
```

```
period = "Period 1";
```

```
THS = &N1THS;
```

```
mcc = &N1mcc;
```

```
sa = &N1saa;
```

```
end;
```

```
else if apuper = 2 then do;
```

```
period = "Period 2";
```

```
ths = &n2ths;
```

```
mcc = &n2mcc;
```

```
sa = &n2saa;
```

```
end;
```

```
else if apuper = 3 then do;
```

```
period = "Period 3";
```

```
ths = &n3ths;
```

```
mcc = &n3mcc;
```

```
sa = &n3saa;
```

```
end;
```

```
else if apuper = 4 then do;
```

```
period = "Period 4";
```

```
ths = &n4ths;
```

```
mcc = &n4mcc;
```

```
sa = &n4saa;
```

```
end;
```

```
run;
```

```
proc sql;
```

```
create table page as
```

```
select distinct apuper, apuperc, paramn, avisitn
```

```
from final_dp
```

```
order by paramn, apuper, avisitn;
```

```
quit;
```

```
data page1;
```

```
set page;
```

```
by paramn apuper avisitn;
```

```
if _n_ = 0 then page = 0;
```

```
page+ 1;
```

```
run;
```

```
proc sql;
```

```

create table final_page as
select distinct a.*, b.page
from final_dp as a
left join page1 as b
on a.paramn = b.paramn and a.avisitn = b.avisitn and a.apuper = b.apuper
order by paramn, apuper, avisitn, txtn;
quit;

```

```

data final_page;
set final_page end=last;
by paramn apuper avisitn txtn;
if last then call symputx("page", page);
run;

```

```

%let tfl = %str(T_15_02_04_03_03);

%let title1 = %str(Table 15.2.4.3.3 Descriptive Statistics of 3-HPMA in 24-hour Urine Collection -
Compliant Population);

%let tflno=&tfl.;

```

```

/* Standard - leave this */

options number nodate orientation=landscape 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, halfblk=N);
```

```
%if &halfblk=N %then %let halfblk=;
```

```
%else %if &halfblk=Y %then %let halfblk=\~;
```

```
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=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="&title1.";
```

```
      _upcas=(length("Path: &TFLpath.")-  
length(compress("Path:&TFLpath.",'ABCDEFGHIJKLMNOPQRSTUVWXYZ')))/2;
```

```
len=&blankn.-length("(page &i of &page)");
```

```
      call symput('pran', compress(put(paramn,best.)));
```

```
      if eof then do;
```

```
call symput('_FSRTITL', trim(left(_firtitl)));
```

```
      call symput('_blankn', compress(put(len,best.)));
```

```
      call symput('period', strip(apuperc));
```

```
      call symput('param', strip(param));
```

```
      call symput('N3', strip(put(sa, best.)));
```

```
      call symput('N4', strip(put(ths, best.)));
```

```
      call symput('N5', strip(put(mcc, best.)));
```

```
end;
```

```
drop _firtitl _upcas len;
```

```
run;
```

```
ods listing close;
```

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

```
      column page paramn apuper avisitn avisit txtn txt ("THSm2.2$(N=&N4)&linebot" trt_4 chg_4 )  
("mCC$(N=&N5)&linebot" trt_5 chg_5)
```

```
      ("SA$(N=&N3)&linebot" trt_3 chg_3);
```

```
      define paramn          / order order = internal noprint;
```

```
      define page      / order order = internal noprint;
```

```
      define avisitn  / order order = internal noprint;
```

```

define apuper / order order = internal noprint;

define txtn / order order = internal noprint;

define avisit /"Timepoint" order order=internal style={just=left cellwidth=0.9cm}
style(header)={just=left} ;

define txt /"Statistic" display style={just=left cellwidth=1.9cm}
style(header)={just=left} ;

define trt_3 /"Value" display style={JUST=c cellwidth=1.3cm}
style(header)={just=center} ;

define trt_4 /"Value" display style={just=c cellwidth=1.3cm}
style(header)={just=center} ;

define trt_5 /"Value" display style={just=c cellwidth=1.3cm}
style(header)={just=center};

%if &pran = 19 %then %do;

define chg_3 /"% Change(*)" display style={JUST=c cellwidth=1cm}
style(header)={just=center};

define chg_4 /"% Change(*)" display style={just=c cellwidth=1cm}
style(header)={just=center};

define chg_5 /"% Change(*)" display style={just=c cellwidth=1cm}
style(header)={just=center};

%end;

%if &pran = 20 %then %do;

define chg_3 /noprint;

define chg_4 /noprint;

define chg_5 /noprint ;

%end;

compute after avisitn;

line " ";

```

```

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 " ";

line "Parameter (units): &param";

LINE "Product Use Time Period: &period";

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: * % Change from baseline, where baseline is defined as the last assessment
prior to first randomized product use in mCC / THS 2.2 Menthol arms or the last assessment prior to
10AM on Day 1 in the SA arm.';

line "Note: 'Missing' percentages are based on the number of subjects indicated in the
column header (N), while 'BLOQ' percentages are based on the number of subjects being summarized
(n).";

line ";

line 'Appendix 15.3.3.1';

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 ;
```

```
%outtrtf(blankn=30, halfblnk=N);
```

```
ods listing;
```

```
%m_logchk;
```