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* Project          : ZRHM-REXA-07-JP
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* Program name     : t1502060501_ZRHM_REXA_07_JP_v1.sas
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* Author          : H Shu
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* Date created     : 06/20/2015
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* Purpose          : Create Table 15.2.6.05.1 Summary of AE by Causality  Safety Population
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* Revision History :
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* Date      Author      Ref      Revision
* 07/08/2015 HS              Added empty categories
* 07/20/2015 HS              Added Not Related category per PMP request
*****;
%let prgname=T1502060501_ZRHM_REXA_07_JP_V1;
options sasautos=("W:\pmp07\macros" sasautos) noquotelenmax;
%init(delivery=9);
%titlecsv(prgname=&prgname,version=5);
%trtrtfg(pgmname=&outname., pgmid=1, new=0, style=, bookmark=%lowcase(&outname.));

data adae;
  set adam.adae(rename=(AEREL=_AEREL));
  format AEREL $30.;
  select(_AEREL);
    when('NOT RELATED') do;
      AEREL='^R' " Not Related to IP';
      AERELN=1;
    end;
    when('RELATED') do;
      AEREL='^R' " Related to IP';
      AERELN=2;
    end;
    otherwise;
  end;
  drop _AEREL;
run;

proc format;
  value rel 2='^R' " Related to IP^R"\line " Expected^R"\line " Not expected'
           1='^R' " Not Related to IP';
quit;

%global _ppg;
%let _ppg=0;
%let tit2=Safety Time Period: Pre-Randomization;
%maes(ad=adae,pwhere=SAFBFL='Y',awhere=SAFBFL='Y' and ASPER=1,odn=t1502060501_1,tp=5,etext=Adverse events,s11=AERELN,s11t=AEREL,ps=17,
      owhere=%nrquote(AEBODSYS='Adverse events'),s11r=1 to 2,s11f=rel.)

proc sort data=adam.ADAE out=ADAE0;
  by USUBJID descending AERELN;
quit;

data ADAE1;
  set ADAE0;
  by USUBJID descending AERELN;
  retain _rel;

  if first.USUBJID then do;
    if AEREL='RELATED' then _rel=1;
    else _rel=0;
  end;
run;

proc sort data=adae1 out=_t1;
  by AEBODSYS AEDECOD;
quit;

data _t21;
  set _t1(where=(AEREL='RELATED'));
  by AEBODSYS;
  if first.AEBODSYS;
  keep AEBODSYS;
run;

data _t22;
  merge _t1 _t21(in=in2);
  by AEBODSYS;
  if in2 then _ibod=1;
run;

data _t23;
  set _t1(where=(AEREL='RELATED'));
  by AEBODSYS AEDECOD;

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        if first.AEDECOD;
        keep AEBODSYS AEDECOD;
run;

data adae2;
    format AEEXPEC $40.;
    merge _t22 _t23(in=in2);
    by AEBODSYS AEDECOD;

    _flag='Y';
    if _ibod then do;
        _AEDECOD=AEDECOD;
        AEDECOD=AEBODSYS;
        AEBODSYS='X' || left(AEBODSYS);
    if AEEXPEC=' ' then AEEXPEC='Missing';
        output;
        if in2 then do;
            AEDECOD='^S={ } ' || left(_AEDECOD);
            output;
            if AEREL='RELATED' then do;
                _uterm=' ' || left(AEDECOD);
                AEDECOD='^S={ } ^S={ } Related to IP';
                if AEEXPEC='Y' then do;
                    AEEXPECN=1;
                    AEEXPEC='Expected';
                end;
                else if AEEXPEC='N' then do;
                    AEEXPECN=2;
                    AEEXPEC='^S={ } Not expected';
                end;
                output;
                _uterm=' ';
            end;
        end;
    end;

    _flag='N';
    AEBODSYS='^S={ } Adverse events';
    _uterm='^S={ } Adverse events';
    if AEREL='NOT RELATED' then do;
        AEDECOD='^S={ } Not Related to IP';
        if _rel^=1 then _flag='Y';
    end;
    else if AEREL in ('RELATED' '^S={ } ^S={ } Related to IP') then do;
        AEDECOD='^S={ } Related to IP';
        _flag='Y';
    end;
    if AEEXPEC='Y' then do;
        AEEXPECN=1;
        AEEXPEC='^S={ } Expected';
    end;
    else if AEEXPEC in ('N' '^S={ } Not expected') then do;
        AEEXPECN=2;
        AEEXPEC='^S={ } Not expected';
    end;
    output;
    drop _AEDECOD;
run;

proc format;
    value expect 1='^S={ } Expected'
                2='^S={ } Not expected';
quit;

%inc 'W:\pmp07\macros\maesx.sas' /nosource2;
%let tit2=Safety Time Period: Post-Randomization;
%maes(ad=adae2,pwhere=SAFAFL='Y',awhere=SAFAFL='Y' and ASPER>1,f2=N,odn=t1502060501_2,tp=5,s11=AEEXPECN,s11t=AEEXPEC,ps=17,any=N,
    ptwhere=_flag='Y',
    iwhere=%nrquote(left(_AEDECOD) in ('^S={ } ^S={ } Related to IP' '^S={ } Related to IP')),exb2=Adverse events,ptli
nk=_uterm,
    owhere=%nrquote(& left(AEDECOD)^in ('N' 'Missing') & left(AEDECOD)^='X' & ^ (AEDECOD=' ^S={ } Not Related to IP'
& _uterm=' ')),etext=Adverse event,s11r=1 to 2,s11f=expect.)

%let tit2=Safety Time Period: Confinement;
%maes(ad=adae2,pwhere=SAFAFL='Y',awhere=SAFAFL='Y' and ASPER=2,f2=N,odn=t1502060501_3,tp=5,s11=AEEXPECN,s11t=AEEXPEC,ps=17,any=N,
    ptwhere=_flag='Y',
    iwhere=%nrquote(left(_AEDECOD) in ('^S={ } ^S={ } Related to IP' '^S={ } Related to IP')),exb2=Adverse events,ptli
nk=_uterm,
    owhere=%nrquote(& left(AEDECOD)^in ('N' 'Missing') & left(AEDECOD)^='X' & ^ (AEDECOD=' ^S={ } Not Related to IP'
& _uterm=' ')),etext=Adverse event,s11r=1 to 2,s11f=expect.)

%inc 'W:\pmp07\macros\maes.sas' /nosource2;
%let tit2=Safety Time Period: Ambulatory;
%maes(ad=adae2,pwhere=SAFAFL='Y',awhere=SAFAFL='Y' and ASPER=3,f2=N,odn=t1502060501_4,tp=5,etext=Adverse events,s11=AEREL
N,s11t=AEREL,ps=17,

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owhere=%nrquote(AEBODSYS='Adverse events'),s11r=1 to 2,s11f=rel.)

%let tit2=Safety Time Period: Safety Follow-up;

%maes(ad=adae,pwhere=SAFAFL='Y',awhere=SAFAFL='Y' and ASPER=4,f2=N,endo=Y,etext=Any adverse event,tp=5,s11=AERELN,s11t=AEREL,ps=17)