**Accuracy Tool – 1b**

**Data Accuracy Checklist CDC SAS Code**

| **RVCT** | **CDC SAS Code** |
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| **#** | **Item** |
| **1** | **Report Date** | If REPORTDATE le MDY(1,1,1990);If VERCOUNT = ‘Y’ and REPORTDATE = .; |
| **3** | **Case Numbers** | If LKREAS1 ne ‘ ‘ and LKCASE1YR = ‘ ‘;If LKREAS1 ne ‘ ‘ and LKCASE1ST = ‘ ‘;If LKREAS1 ne ‘ ‘ and LKCASE1ID = ‘ ‘;If LKREAS2 ne ‘ ‘ and LKCASE2YR = ‘ ‘;If LKREAS2 ne ‘ ‘ and LKCASE2ST = ‘ ‘;If LKREAS2 ne ‘ ‘ and LKCASE2ID = ‘ ‘; |
| **4** | **Reporting Address for Case Counting** | If CLIMITS ne ‘ ‘ and CITY = ‘ ‘; |
| **7** | **Previous Diagnosis of TB Disease** | If PREVYR ne ‘ ‘ and PREVTB ne ‘Y’; |
| **8** | **Date of Birth** | If DOB gt TODAY(); |
| **11** | **Race** | If ASIAN ne ‘Y’ and (ASIANEXT ne ‘ ‘ or ASIANNME ne ‘ ‘);If NAHAW ne ‘Y’ and (NAHAWEXT ne ‘ ‘ or NAHAWNME ne ‘ ‘); |
| **12** | **Country of Birth** | If NATION = ‘ ‘ or CNTRYLN = ‘ ‘;If USBORN = ‘N’ and CNTRYLN = ‘UNITED STATES’;If CNTRYLN = ‘UNITED STATES’ and ARRIVEUSDATE ne .; |
| **13** | **Month-Year Arrived in U.S.** | If USDATE gt TODAY(); |
| **14** | **Pediatric TB Patients (<15 years old)** | If OUTUS ne ‘Y’ and (CNTRYLIVCD1 ne ‘ ‘ or CNTRYLIVCD2 ne ‘ ‘ or CNTRYLIVCD3 ne ‘ ‘); |
| **15** | **Status at TB Diagnosis** | If STATUS = ‘DEAD’ and TBCAUSE = ‘ ‘;If STATUS = ‘ALIVE’ and DEATHDATE ne .; |
| **16** | **Site of TB Disease** | If SITEANAT1 ne ‘ ‘ and SITEOTH = ‘ ‘;If SITEANAT2 ne ‘ ‘ and SITEOTH = ‘ ‘;If SITEANAT3 ne ‘ ‘ and SITEOTH = ‘ ‘; |
| **17** | **Sputum Smear** | If SPSMRCOL ne . and SPSMEAR not in (‘POS’,’NEG’); |
| **18** | **Sputum Culture** | If SPCULTCOL ne . and SPCULT not in (‘POS’,’NEG’);If SPCULTLAB ne ‘ ‘ and SPCULT ne ‘POS’;If SPCULTREP ne . and SPCULT ne ‘POS’;If SPCULTREP ne . and SPCULTCOL = .; |
| **19** | **Smear/Pathology/Cytology of Tissue and Other Body Fluids** | If MICRCOL ne . and MICREXAM not in (‘POS’,’NEG’); If MICRANA1 ne ‘ ‘ and MICREXAM not in (‘POS’,’NEG’);If (MICRSMR ne ‘ ‘ or MICRPATH ne ‘ ‘) and MICREXAM not in (‘POS’,’NEG’); |
| **20** | **Culture of Tissue and Other Body Fluids** | If CULTCOL ne . and CULTOTHR not in (‘POS’,’NEG’);If CULTREP ne . and CULTOTHR ne ‘POS’;If CULTLAB ne ‘ ‘ and CULTOTHR ne ‘POS’;If CULTANA1 ne ‘ ‘ and CULTOTHR not in (‘POS’,’NEG’);If CULTREP ne . and CULTCOL = .; |
| **21** | **Nucleic Acid Amplification Test Result** | If NAACOL ne . and NAATEST not in (‘POS’,’NEG’);If NAASPUT ne ‘ ‘ and NAATEST not in (‘POS’,’NEG’);If NAAANA ne ‘ ‘ and NAATEST not in (‘POS’,’NEG’);If NAALAB ne ‘ ‘ and NAATEST not in (‘POS’,’NEG’);If NAAREP ne . and NAATEST ne ‘POS’;If NAAREP ne . and NAACOL = .; |
| **22A** | **Initial Chest Radiograph,** | If XRAYCAV ne ‘ ‘ and XRAY ne ‘ABN’;If XRAYMIL ne ‘ ‘ and XRAY ne ‘ABN’;If CTSCANCAV ne ‘ ‘ and CTSCAN ne ‘ABN’;If CTSCANMIL ne ‘ ‘ and CTSCAN ne ‘ABN’; |
| **22B** | **Initial Chest CT Scan or Other Chest Imaging Study** |
| **23** | **Tuberculin (Mantoux) Skin Test at Diagnosis** | If TBTESTMM ne ‘ ‘ and TBTEST not in (‘POS’,’NEG’);If TBTESTDATE ne . and TBTEST not in (‘POS’,’NEG’); |
| **24** | **Interferon Gamma Release Assay (IGRA) for *MycobacteriumTuberculosis* at Diagnosis** | If INTFGCOL ne . and INTFGTEST not in (‘POS’,’NEG’);If INTFGSPEC ne ‘ ‘ and INTFGTEST not in (‘POS’,’NEG’); |
| **26** | **HIV Status at Time of Diagnosis** | If HIVSTANO ne ‘ ‘ and HIVSTAT ne ‘POS’;If HIVLOCNO ne ‘ ‘ and HIVSTAT ne ‘POS’; |
| **28** | **Resident of Correctional Facility at Time of Diagnosis** | If CORRTYPE ne ‘ ‘ and CORRINST ne ‘Y’;If CORRINST ne ‘Y’ and CORRICE ne ‘ ‘;If CORRINST = ‘Y’ and LONGTERM = ‘Y’; |
| **29** | **Resident of Long-Term Care Facility at Time of Diagnosis** | If LONGTYPE ne ‘ ‘ and LONGTERM ne ‘Y’; |
| **36** | **Date Therapy Started** | If RXDATE gt TODAY(); |
| **38** | **Genotyping Accession Number** | If GENONUMB ne ‘ ‘ and GENOTYPE ne ‘Y’; |
| **39** | **Initial Drug Susceptibility Testing** | If (SPCULT ne ‘POS’ and CULTOTHR ne ‘POS’) and ISUSTEST = ‘Y’;If (ISUSSPUT ne ‘ ‘ or ISUSANA ne ‘ ‘ and ISUSTEST ne ‘Y’;If ISUSDATE ne . and ISUSTEST ne ‘Y’; |
| **40** | **Initial Drug Susceptibility Results** | If (ISUSINH = ‘ ‘ or ISUSRIF = ‘ ‘ or ISUSPZA = ‘ ‘ or ISUSEMB = ‘ ‘ or ISUSSM = ‘ ‘ or ISUSETH = ‘ ‘ or ISUSKAN = ‘ ‘ or ISUSCYC = ‘ ‘ or ISUSCAP = ‘ ‘ or ISUSPAS = ‘ ‘ or ISUSAM = ‘ ‘ or ISUSRIB = ‘ ‘ orISUSCIP = ‘ ‘ or ISUSOFL = ‘ ‘ or ISUSLEVO = ‘ ‘ or ISUSMOXI = ‘ ‘ or ISUSQUIN = ‘ ‘ or ISUSRPT = ‘ ‘ or ISUSOTH1 = ‘ ‘ or ISUSOTH2 = ‘ ‘) and ISUSTEST = ‘Y’;If ISUSSPEC1 ne ‘ ‘ and ISUSOTH1 not in (‘R’,’S’);If ISUSSPEC2 ne ‘ ‘ and ISUSOTH2 not in (‘R’,’S’); |
| **41** | **Sputum Culture Conversion Documented** | If CONVREAS ne ‘ ‘ and CONVERT ne ‘N’;If CNEGDATE ne . and CONVERT ne ‘Y’; |
| **42** | **Moved** | If MOVINST = ‘Y’ and MOVED ne ‘Y’;If MOVOUTST = ‘Y’ and MOVED ne ‘Y’;If MOVOUTUS = ‘Y’ and MOVED ne ‘Y’;If MOVREF ne ‘ ‘ and MOVED ne ‘Y’;If MOVCITYNME1 ne ‘ ‘ and MOVED ne ‘Y’;If MOVCITYNME2 ne ‘ ‘ and MOVED ne ‘Y’;If MOVCNTYNME1 ne ‘ ‘ and MOVED ne ‘Y’;If MOVCNTYNME2 ne ‘ ‘ and MOVED ne ‘Y’;If MOVSTATECD1 ne ‘ ‘ and MOVED ne ‘Y’;If MOVSTATECD2 ne ‘ ‘ and MOVED ne ‘Y’;If MOVCTRYCD1 ne ‘ ‘ and MOVED ne ‘Y’;If MOVCTRYCD2 ne ‘ ‘ and MOVED ne ‘Y’;If MOVCTRYNME1 ne ‘ ‘ and MOVED ne ‘Y’;If MOVCTRYNME2 ne ‘ ‘ and MOVED ne ‘Y’; |
| **43** | **Date Therapy Stopped** | If STOPTHER ne . and RXDATE = .;If STOPTHER ne . and (STATUS ne ‘ALIVE’ or INITDRG not in (‘NO DRUGS’,’UNK’)); |
| **44** | **Reason Therapy Stopped or Never Started** | If STOPDIED ne ‘ ‘ and STOPREAS ne ‘DIED’; |
| **45** | **Reason Therapy Extended > 12 Months** | If (STOPTHER – RXDATE) le 366 and (EXTRIF ne ‘ ‘ or EXTREACT ne ‘ ‘ or EXTNONAD ne ‘ ‘ or EXTFAIL ne ‘ ‘ or EXTCLINIC ne ‘ ‘ or EXTOTH ne ‘ ‘);If EXTSPEC ne ‘ ‘ and EXTOTH ne ‘Y’; |
| **47** | **Directly Observed Therapy (DOT)** | If DOT ne ‘ ‘ and (STATUS ne ‘ALIVE’ or INITDRG in (‘NO DRUGS’,’UNK’));If DOTWEEKS ne ‘ ‘ and DOT not in (‘DOT’,’BOTH’); |
| **48** | **Final Drug Susceptibility Testing** | If FSUSTEST ne ‘ ‘ and(STATUS ne ‘ALIVE’ or INITDRG in (‘NO DRUGS’,’UNK’));If (FSUSSPUT ne ‘ ‘ or FSUSANA ne ‘ ‘ and FSUSTEST ne ‘Y’;If FSUSDATE ne . and FSUSTEST ne ‘Y’; |
| **49** | **Final Drug Susceptibility Results** | If (FSUSINH = ‘ ‘ or FSUSRIF = ‘ ‘ or FSUSPZA = ‘ ‘ or FSUSEMB = ‘ ‘ or FSUSSM = ‘ ‘ or FSUSETH = ‘ ‘ or FSUSKAN = ‘ ‘ or FSUSCYC = ‘ ‘ or FSUSCAP = ‘ ‘ or FSUSPAS = ‘ ‘ or FSUSAM = ‘ ‘ or FSUSRIB = ‘ ‘ or FSUSCIP = ‘ ‘ or FSUSOFL = ‘ ‘ or FSUSLEVO = ‘ ‘ or FSUSMOXI = ‘ ‘ or FSUSQUIN = ‘ ‘ or FSUSRPT = ‘ ‘ or FSUSOTH1 = ‘ ‘ or FSUSOTH2 = ‘ ‘) and FSUSTEST = ‘Y’;If FSUSSPEC1 ne ‘ ‘ and FSUSOTH1 not in (‘R’,’S’);If FSUSSPEC2 ne ‘ ‘ and FSUSOTH2 not in (‘R’,’S’); |

**Date Checks**

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| **#** | **Item** |
| **18** | **Sputum Culture** | If SPCULTCOL gt SPCULTREP; |
| **18** | **Sputum Culture** | If SPCULTCOL gt CNEGDATE; |
| **41** | **Sputum Culture Conversion Documented** |
| **20** | **Culture of Tissue and Other Body Fluids** | If CULTCOL gt CULTREP; |
| **21** | **Nucleic Acid Amplification Test Result** | If NAACOL gt NAAREP; |
| **36** | **Date Therapy Started** | If RXDATE gt STOPTHER; |
| **43** | **Date Therapy Stopped** |
| **39** | **Initial Drug Susceptibility Testing** | If ISUSDATE gt FSUSDATE; |
| **48** | **Final Drug Susceptibility Testing** |

**Warrants a Closer Look**

| **RVCT** | **CDC SAS Code** |
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| **#** | **Item** |
| **8** | **Date of Birth** | If AGE ge 100; |
| **28** | **Resident of Correctional Facility at Time of Diagnosis** | If CORRTYPE = ‘FEDPRIS’ and (AGE lt 18 or AGE ge 70);If CORRTYPE = ‘STAPRIS’ and (AGE lt 18 or AGE ge 70);If CORRTYPE = ‘LOCJAIL’ and (AGE lt 18 or AGE ge 70);If CORRTYPE = ‘CORRFAC’ and (AGE lt 13 or AGE ge 25);If CORRTYPE = ‘OTH’ and (AGE lt 18 or AGE ge 70); |
| **29** | **Resident of Long-Term Care Facility at Time of Diagnosis** | If LONGTYPE = ‘NURSING’ and AGE le 30;If LONGTYPE = ‘HOSPITAL’ and AGE le 25;If LONGTYPE = ‘RESID’ and (AGE le 25 or AGE ge 90);If LONGTYPE = ‘MENTAL’ and AGE le 5;If LONGTYPE = ‘ALCDRUG’ and (AGE lt 16 or AGE ge 70);If LONGTYPE = ‘OTH’ and (AGE le 25 or AGE ge 90); |
| **30** | **Primary Occupation Within Past Year** | If PRIMARYOCC = ‘HCW’ and age lt 13;If PRIMARYOCC = ‘CORR’ and (age lt 18 or age gt 65);If PRIMARYOCC = ‘MIGR’ and (age lt 16 or age gt 75);If PRIMARYOCC = ‘OTH’ and (age lt 16 or age ge 90); |
| **31** | **Injecting Drug Use Within Past Year** | If IDU = ‘Y’ and (age lt 16 or age ge 70); |
| **32** | **Non-Injecting Drug Use Within Past Year** | If NONIDU = ‘Y’ and age lt 16; |
| **33** | **Excess Alcohol Use Within Past Year** | If ALCOHOL = ‘Y’ and age lt 16; |
| **37** | **Initial Drug Regimen – Consists of seven or more drugs** | DRUGS = 0;If INITINH = ‘Y’ then DRUGS + 1; If INITRIF = ‘Y’ then DRUGS + 1;If INITPZA = ‘Y’ then DRUGS + 1; If INITEMB = ‘Y’ then DRUGS + 1;If INITSM = ‘Y’ then DRUGS + 1; If INITETH = ‘Y’ then DRUGS + 1;If INITKAN = ‘Y’ then DRUGS + 1; If INITCYC = ‘Y’ then DRUGS + 1; If INITCAP = ‘Y’ then DRUGS + 1; If INITPAS = ‘Y’ then DRUGS + 1;If INITAM = ‘Y’ then DRUGS + 1; If INITRIB = ‘Y’ then DRUGS + 1;If INITCIP = ‘Y’ then DRUGS + 1; If INITOFL = ‘Y’ then DRUGS + 1;If INITLEVO = ‘Y’ then DRUGS + 1; If INITMOXI = ‘Y’ then DRUGS + 1;If INITRPT = ‘Y’ then DRUGS + 1; If INITOTH1 = ‘Y’ then DRUGS + 1;If INITOTH2 = ‘Y’ then DRUGS + 1;If DRUGS ge 7; |
| **36,****39** | **Number of days between Initial Drug Susceptibility Test Date and Start Therapy Date:** **Date Therapy Started****Initial Drug Susceptibility Testing** | If (RXDATE – ISUSDATE) gt 60 or (RXDATE – ISUSDATE) lt -14; |
| **39,****48** | **Number of days between Initial Drug Susceptibility Test Date and Final Drug Susceptibility Test Date:** **Initial Drug Susceptibility Testing****Final Drug Susceptibility Testing** | If (FSUSDATE – ISUSDATE) lt 30 or (FSUSDATE – ISUSDATE) gt 730; |
| **36,****40,****41** | **Number of days to Sputum Culture Conversion:****Date Therapy Started****Initial Drug Susceptibility Results** **Sputum Culture Conversion Documented** | If ISUSRIF = ‘R’ and ((CNEGDATE – RXDATE) lt 15 or (CNEGDATE – RXDATE) gt 300); If ISUSRIF = ‘S’ and ((CNEGDATE – RXDATE) lt 15 or (CNEGDATE – RXDATE) gt 120); |
| **36****43** | **Duration of Therapy:** **Date Therapy Started****Date Therapy Stopped** | If (STOPTHER – RXDATE) lt 120;If ISUSRIF = ‘R’ and (STOPTHER – RXDATE) gt 730;If ISUSRIF = ‘S’ and (STOPTHER – RXDATE) gt 365; |

**Miscellaneous**

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| **#** | **Item** |
| **7** | **Previous Diagnosis of TB Disease** | If PREVYR lt ‘1930’; |
| **13** | **Month-Year Arrived in U.S.** | If USDATE lt ‘192001’; |
| **23** | **Tuberculin (Mantoux) Skin Test at Diagnosis** | If TBTESTMM ge ‘50’; |
| **18,****38,****39,****40** | **Existence of a Follow-up 1 Record with No Positive Culture:****Sputum Culture****Genotyping Accession Number****Initial Drug Susceptibility Testing****Initial Drug Susceptibility Results** | If (ISUSTEST ne ‘ ‘ or ISUSDATE ne . or ISUSINH ne ‘ ‘ or ISUSRIF ne ‘ ‘ or ISUSPZA ne ‘ ‘ or ISUSEMB ne ‘ ‘ or ISUSSM = ‘ ‘ or ISUSETH = ‘ ‘ or ISUSKAN ne ‘ ‘ or ISUSCYC ne ‘ ‘ or ISUSCAP ne ‘ ‘ or ISUSPAS ne ‘ ‘ or ISUSAM ne ‘ ‘ or ISUSRIB ne ‘ ‘ or ISUSCIP ne ‘ ‘ or ISUSOFL ne ‘ ‘ or ISUSLEVO ne ‘ ‘ or ISUSMOXI ne ‘ ‘ or ISUSQUIN ne ‘ ‘ or ISUSRPT ne ‘ ‘ or ISUSOTH1 ne ‘ ‘ or ISUSOTH2 = ‘Y’ or ISUSSPEC1 ne ‘ ‘ or ISUSSPEC2 ne ‘ ‘ or ISUSSPUT ne ‘ ‘ or ISUSANA ne ‘ ‘ or GENONUMB ne ‘ ‘ or GENOTYPE ne ‘ ‘) and (SPCULT ne ‘POS’ and CULTOTHR ne ‘POS’); |
| **15,****41,****42,****43,****44,****45,****46,****47,****48,****49,** | **Existence of a Follow-up 2 Record With Status at Diagnosis ne ‘ALIVE’:****Status at TB Diagnosis****Sputum Culture Conversion Documented****Moved****Date Therapy Stopped****Reason Therapy Stopped or Never Started****Reason Therapy Extended > 12 months****Type of Outpatient Health Care Provider****Directly Observed Therapy (DOT)****Final Drug Susceptibility Testing****Final Drug Susceptibility Results** | If (CONVERT ne ‘ ‘ or CNEGDATE ne . or CONVREAS ne ‘ ‘ or CONVSPEC ne ‘ ‘ or MOVED ne ‘ ‘ or MOVINST ne ‘ ‘ or MOVOUTST ne ‘ ‘ or MOVOUTUS ne ‘ ‘ or MOVREF ne ‘ ‘ or MOVCITYNME1 ne ‘ ‘ or MOVCITYNME2 ne ‘ ‘ or MOVCNTYNME1 ne ‘ ‘ or MOVCNTYNME2 ne ‘ ‘ or MOVSTATECD1 ne ‘ ‘ or MOVSTATECD2 ne ‘ ‘ or MOVCTRYCD1 ne ‘ ‘ or MOVCTRYCD2 ne ‘ ‘ or MOVCTRYNME1 ne ‘ ‘ or MOVCTRYNME2 ne ‘ ‘ or STOPTHER ne . or STOPREAS ne ‘ ‘ or STOPDIED ne ‘ ‘ or EXTRIF ne ‘ ‘ or EXTREACT ne ‘ ‘ or EXTNONAD ne ‘ ‘ or EXTFAIL ne ‘ ‘ or EXTCLINIC ne ‘ ‘ or EXTOTH ne ‘ ‘ or EXTSPEC ne ‘ ‘ or PROVHD ne ‘ ‘ or PROVPRIV ne ‘ ‘ or PROVIHS ne ‘ ‘ or PROVCORR ne ‘ ‘ or PROVINPAT ne ‘ ‘ or PROVOTH ne ‘ ‘ or PROVUNK ne ‘ ‘ or DOT ne ‘ ‘ or DOTWEEKS ne ‘ ‘ or FSUSTEST ne ‘ ‘ or FSUSDATE ne . or FSUSINH ne ‘ ‘ or FSUSRIF ne ‘ ‘ or FSUSPZA ne ‘ ‘ or FSUSEMB ne ‘ ‘ or FSUSSM = ‘ ‘ or FSUSETH = ‘ ‘or FSUSKAN ne ‘ ‘ or FSUSCYC ne ‘ ‘ or FSUSCAP ne ‘ ‘ or FSUSPAS ne ‘ ‘ or FSUSAM ne ‘ ‘ or FSUSRIB ne ‘ ‘ or FSUSCIP ne ‘ ‘ or FSUSOFL ne ‘ ‘ or FSUSLEVO ne ‘ ‘ or FSUSMOXI ne ‘ ‘ or FSUSQUIN ne ‘ ‘ or FSUSRPT ne ‘ ‘ or FSUSOTH1 ne ‘ ‘ or FSUSOTH2 = ‘Y’ or FSUSSPEC1 ne ‘ ‘ or FSUSSPEC2 ne ‘ ‘ or FSUSSPUT ne ‘ ‘ or FSUSANA ne ‘ ‘) and STATUS ne ‘ALIVE’;  |