

# MCBS MAIN STUDY

## General Specifications for MCBS Facility

### DATES

#### 1. DATE ENTRY AND DISPLAY

---

MCBSWVS, General Date Formatting Requirements

##### **DATE ENTRY:**

The following principle should govern **date entry** throughout the questionnaire, unless specific override exception is noted in the questionnaire specifications.

“MM”, “DD”, “[YY]YY” formats:

Entry of dates at most screen types (e.g., single date entry screens, grids and roster pop-up windows), generally:

Collected as three distinct numeric fields; example: “10” “31” “04”

“MM”	= Collect 2-digit Month.
“DD”	= Collect 2-digit Day.
“YY”	= Collect 2-digit year.
“YYYY”	= Collect 4-digit year.

If Year field is specified as a 4-digit integer field, only a 4-digit year is acceptable.

Allow “DK” and “RF” in Month, Day or Year field if specified as Field Attributes.

- When entering dates, a leading zero on otherwise single digit month and day values is acceptable in operation, but should be stripped away in conversion to other date formats and usages.

**CURRENT YEAR CALCULATION (for use in all references to current year or year in current date):**

If PERS.RHDOI = EMPTY, CURRENT YEAR = current date [system date] year.

Else CURRENT YEAR = PERS.RHDOI year.

**DATE DISPLAY:**

For the MCBS Facility instrumentation, the following principles should govern **date display** throughout the questionnaire, unless specific override exception is noted in the questionnaire specifications.

1) “Month, Day, Year” format or “Month DD, YYYY” format:

Display of dates as inline text, such as in question text, context headers, report headers and instructions:

Context Headers, Interviewer Instructions, and Error Messages: Display in UPPER CASE; example: OCTOBER 31, 2004.

All other text: Display in Upper/lowercase lettering; example: October 31, 2004

Purpose: ease of reading when embedded in other text

- Do not display leading zeros.
- Display all 2-digit year fields as 4-digit year. The default rule for filling two digits to four digits years is: fill with “20(0)” for range 0 to current year, else fill with “19”.
- Date display will include “DK” or “RF” as specified below.

**“DK” and “RF” DISPLAYS:**

**DON’T KNOW and REFUSE date display:**

If missing Month, Day, or Year:

If variable = RF (Refused), display “RF”.

EX: Mar RF 2006  
March RF, 2006  
RF 2 2006  
RF 2, 2006  
Mar 2 RF  
March 2, RF

If variable = DK (Don’t Know), display “DK”.

EX: Mar DK 2006  
March DK, 2006  
DK 2 2006  
DK 2, 2006  
Mar 2 DK  
March 2, DK



## 2. DATE EDITS

---

### Single Date Verification

1. Check for digits only, or DK, RF
2. Check for valid date entry
  - a. Month Check  
Month = 1..12, DK, RF
  - b. Day Check  
If Month=2  
If Year ^= DK, RF  
If leap year, Day=1..29, DK, RF  
Else Day=1..28, DK, RF  
If Year = DK, RF  
Day = 1..29, DK, RF  
If Month=4,6,9,11  
Day = 1..30, DK, RF  
If Month=1,3,5,7,8,10,12  
Day=1..31, DK, RF  
If Month=DK, RF  
Day=1..31, DK, RF

### Two Date Verification

Two Date Verification is used to determine if a single date is BEFORE, ON, or AFTER another single date. When discussing Two Date Verification, the Date being checked will be referenced as the TARGET DATE. The date the target date is being checked against will be referenced as the REFERENCE DATE.

The following logic should be used when comparing two dates.

#### Evaluate check in the following order:

If Target Year = DK,RF or Reference Year = DK, RF  
Else if Target Year < Reference Year  
Else if Target Year > Reference Year  
Else Target Year = Reference Year, continue checking Month.

#### Result

CANNOT CHECK  
BEFORE  
AFTER

If Target Month=DK,RF or Reference Month = DK, RF  
Else if Target Month < Reference Month  
Else if Target Month > Reference Month  
Else Target Month = Reference Month, continue checking Day.

CANNOT CHECK  
BEFORE  
AFTER

If Target Day = DK, RF or Reference Day = DK, RF  
Else if Target Day < Reference Day  
Else if Target Day > Reference Day  
Else Target Day = Reference day

CANNOT CHECK  
BEFORE  
AFTER  
ON

#### The Two Date Verification results include:

BEFORE Target Date is before Reference Date  
AFTER Target Date is after Reference Date

ON	Target Date matches reference Date
CANNOT BE CHECKED	Target Date CANNOT BE CHECKED against the Reference Date. If a Soft/Hard edit is specified and the date verification result = CANNOT BE CHECK, the Soft/Hard edit should not be invoked.

**Three Date Verification**

Three date verification is used when determining if a single date is BEFORE, AFTER or ON/BETWEEN a specified reference period that includes a BEGIN and END date. When discussing Three Date verification, the Date being checked will be referenced as the TARGET DATE. The specified BEGIN and END dates will be referred to as the REFERENCE PERIOD BEGIN DATE and REFERENCE PERIOD END DATE.

The following logic should be used when comparing two dates.

**Evaluate check in the following order:**

If Target Year = DK, RF	<b>Result</b> CANNOT CHECK
Else run Two Date Verification with Target Date and Reference Begin Date	

**Two Date Verification with Target Date and Reference Begin Date:**

If Date Verification = BEFORE	BEFORE
Else if Date Verification = ON	ON OR BETWEEN
Else run Two Date Verification with Target Date and Reference End Date	

**Date Verification with Target Date and Reference End Date:**

If Date Verification = ON or BEFORE	ON OR BETWEEN
Else if Date Verification = AFTER	AFTER
Else	CANNOT CHECK

**The Three Date Verification results include:**

BEFORE	Target Date is before Reference Period
AFTER	Target Date is after Reference Period
ON OR BETWEEN	Target Date is on or between Reference Period
CANNOT BE CHECKED	Target Date CANNOT BE CHECKED against Reference Period. If a Soft/Hard edit is specified and the Three Date Verification result = CANNOT BE CHECK, the Soft/Hard edit should not be invoked.

### Checking for MATCHING DATES:

When checking for matching event dates, first check Event Begin and End dates for:

- 1) Valid dates
- 2) Dates are within specified reference period. See Three Date Verification.

Next, check for matching event dates based on the following rules and additional rules specified at Question or Route Box:

- 1) The event date is a match if the following is true:
  - a. Event added EVNT.VISTTYPE = 1/SingleVisit or EMPTY.
  - b. Event added EVNT.EVBEGMMM, EVNT.EVBEGDD and EVNT.EVBEGYY should ^= DK.
  - c. Event added EVNT.EVBEGMM, EVNT.EVBEGDD and EVNT.EVBEGYY should ^= RF.
  - d. Existing event EVNT.VISTTYPE = 1/SingleVisit or EMPTY.
  - e. Event added EVNT.EVBEGMM = existing event EVNT.EVBEGMM.
  - f. Event added EVNT.EVBEGDD = existing event EVNT.EVBEGDD.
  - g. Event added EVNT.EVBEGYY = existing event EVNT.EVBEGYY.
  - h. Other rules specified at Question or Route Box are true.

### 3. DATE CALULATIONS

---

If DOB Month, Day and Year ^= DK, RF

Calculated age = (Today's date minus Date of Birth) /365.23

Else if DOB year ^= DK, RF

Calculated age = (Current year minus DOB year)

If DOB month ^= DK, RF

If DOB month > today's month, calculated age = (calculated age minus 1).

Else age = unknown. Not sure how this is displayed.

We collect dates in the 2 separate fields:

We set dates during the between round rollover procedures in the following format:  
MMDDYY

We do not set missing values to a "fixed" value during date comparison. If we cannot check a date properly because of a missing value, the date passes the check.