Calculating Dates

To determine if a target dose is valid or not valid, based on age, the Logic Specification contains business rules to ensure consistency in calculating dates.

This quick guide provides information on:

- Date calculation rules
- Calculating dates to determine validity of dose

**Date Calculation Rules**

When calculating dates there are a few important rules to remember.

<table>
<thead>
<tr>
<th>Calculation Type</th>
<th>Business Rule ID</th>
<th>Rule</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adding years</td>
<td>CALCDT-1</td>
<td>Adjust only the year not the month and days.</td>
<td>January 1, 2000 + 3 years</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>January 1, 2003</td>
</tr>
<tr>
<td>Adding months</td>
<td>CALCDT-2</td>
<td>Adjust only the month, and if necessary the year, but not the day.</td>
<td>January 1, 2000 + 3 months</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>April 1, 2000</td>
</tr>
<tr>
<td>Adding weeks or days</td>
<td>CALCDT-3</td>
<td>Convert each week to 7 days, and add the total number of days to the date.</td>
<td>February 1, + 5 weeks (or 35 days)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>March 8</td>
</tr>
<tr>
<td>Invalid date modification</td>
<td>CALCDT-5</td>
<td>Sometimes these rules can result in a date that does not exist. If this occurs, move to the first day of the following month.</td>
<td>July 31 + 2 months</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>September 31 (October 1)</td>
</tr>
</tbody>
</table>

**Calculate Dates to Determine Validity of Dose**

1. Determine the minimum age for specified dose, found in the supporting data.
2 Add the minimum age to the patient’s date of birth, resulting in the minimum age date.

Target Dose
Minimum Age: 12 Months - 4 Days

Patient
DOB: 8/6/08

Minimum Age
Date: 8/2/09

3 Compare the minimum age date with the patient’s dose administered date to determine if the dose is valid:

Valid – The dose administered date occurs on or after the minimum age date.
Not Valid – The dose administered date occurs before the minimum age date.

Minimum Age
Date: 8/2/09

Dose Administered
Date: 9/7/09

Valid

Minimum Age
Date: 8/2/09

Dose Administered
Date: 6/7/09

Not Valid