

In the **Participant Home Form**, in the bottom left, there is a section for tracking prenatal care visits.

Prenatal Care

Est. Date of Conception: 8/24/2013

Gest. Age at Enrollm't: 49 weeks

Current Gest. Age: 43 weeks

Prenatal Care Visits to Date

North Dakota Formula *Calc Manual Override

expected:

completed (total):

completed since enrollment:

This section was designed as part of a contract with Healthy Families North Dakota, though other sites may find this useful. The following document describes how PIMS calculates the number of prenatal care visits **expected** for each participant.

Intermediate Calculations

In order to calculate the number of prenatal visits required, first we need to calculate the **estimated date of conception**:

	If child is born	If child is not yet born
estimated date of conception	(child's birth date) - 7 * (gestation age at birth)	(target due date) - (7 * 40*)

**prior to PIMS 8.0.4, estimated date of conception was based on 37 weeks, not 40 weeks*

From this, we can estimate the **gestational age at enrollment**.

gestational age at enrollment (weeks)	$\frac{(\text{date of first home visit}) - (\text{estimated date of conception})}{7}$ rounded up to nearest whole number
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In order to calculate the number of prenatal visits required, we also need to calculate the **current gestation age**:

	If child is born	If child is not yet born
current gestational age	gestation age	$\frac{(\text{date of latest home visit}) - (\text{estimated date of conception})}{7}$ rounded up to nearest whole number

Note that if gestational age is greater than 40, the following adjustment is made:

$$\text{gestational delay} = (\text{current gestational age}) - 40$$

$$\text{gestational age at enrollment} = (\text{gestational age at enrollment}) + (\text{gestational delay})$$

Final Calculation

Because the recommended frequency of visits changes over the term of pregnancy, the number of visits has to be calculated from a chart and rounded off. After gestational age of 40 weeks, no further visits are expected.

gestational age	visits required during this week	EXAMPLE	
1			
2			
3			
4			
5	0.25		
6	0.25		
7	0.25	0.25	<- first HV
8	0.25	0.25	
9	0.25	0.25	
10	0.25	0.25	
11	0.25	0.25	
12	0.25	0.25	
13	0.25	0.25	
14	0.25	0.25	
15	0.25	0.25	
16	0.25	0.25	
17	0.25	0.25	
18	0.25	0.25	
19	0.25	0.25	
20	0.25	0.25	
21	0.25	0.25	
22	0.25	0.25	
23	0.25	0.25	
24	0.25	0.25	
25	0.25	0.25	
26	0.25	0.25	
27	0.25	0.25	
28	0.5	0.25	
29	0.5		<- latest HV
30	0.5		
31	0.5		
32	0.5		
33	0.5		
34	0.5		
35	0.5		
36	1		
37	1		
38	1		
39	1		
40	1		

Total # Visits Expected (rounded down) **6**
if Total # Visits Expected is <1.0, then round down to 0