Insulin Bolus Calculator

1. Calculate carbohydrate bolus

\[
\text{grams of carbohydrate} \div \text{CARBOHYDRATE RATIO} = \text{carbohydrate bolus}
\]

2. Calculate correction bolus

\[
\text{blood glucose} - \text{CORRECTION TARGET} = \text{amount to correct} \div \text{CORRECTION FACTOR} = \text{correction bolus}
\]

3. Calculate total insulin bolus

\[
\text{carbohydrate bolus} + \text{correction bolus} = \text{total} \rightarrow \text{rounded total insulin bolus}
\]

**Carbohydrate Ratio:** How many grams of carbohydrates will be covered by one unit of insulin

**Correction Factor:** How many points one unit of insulin will lower the blood glucose

**Correction Target:** Target blood glucose value used to calculate insulin correction bolus

**Rounding Rules for 1/2 Unit:**
0.1 - 0.3 = round down to whole unit
0.4 - 0.7 = round to 1/2 unit
0.8 - 0.9 = round up to whole unit

**Rounding Rules for Whole Unit:**
0.1 - 0.4 = round down to whole unit
0.5 - 0.9 = round up to whole unit

**DO NOT CALCULATE CORRECTION BOLUS:**
- If your blood glucose is less than your correction target.
- If it has been less than 3 hours since your last carbohydrate or correction bolus

- If a low blood glucose has been treated in the past 3 hours
- If it has been less than one hour since vigorous exercise
- At bedtime or during the night until directed otherwise

**Nationwide Children's**

When your child needs a hospital, everything matters.™