

ENDOCRINOLOGY & DIABETES UNIT

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"BOLUSING FOR ARROWS" WITH THE DEXCOM G7®

The Endocrine Society has published guidelines* on using the Dexcom G5/G6/G7® trend arrows to refine the amount of insulin to be taken with meals or a correction, to account for rising or falling blood glucose. Frequent use of trend arrow adjustments may suggest an overall review of insulin doses or pump settings.

How to use these guidelines:

- 1. These guidelines are for advanced users who are experienced with CGM.
- 2. If you are going to eat carbs and/or your blood glucose is high, use your bolus calculator or other method to determine the amount of insulin you need to cover your carbs and the correction.
- 3. Find the **row** in the chart that matches your current trend arrows.
- 4. Find the column in the chart that matches your ISF (insulin sensitivity/correction factor)
- 5. Find the box where the selected row and column meet.
- 6. Add or subtract the amount of insulin (in units) shown in that box from your calculated bolus.

ARROW	ISF (Sensitivity/Correction Factor)				
DIRECTION	0-1.3	1.4-2.7	2.8-4.1	4.2-6.8	6.9-more
^	add 4 U	add 3 U	add 2 U	add 1 U	add ½ U
↑	add 3 U	add 2 U	add 1 U	add ½ U	_
7	add 2 U	add 1 U	add ½ U	_	_
→	_	_	_	_	_
7	subtract 2 U	subtract 1 U	subtract ½ U	1	_
Ψ	subtract 3 U	subtract 2 U	subtract 1 U	subtract ½ U	_
44	subtract 4 U	subtract 3 U	subtract 2 U	subtract 1 U	subtract ½ U

When to use these guidelines:

- 1. Either before a meal, or 3 or more hours after bolusing for a meal or snack
- 2. When there is no strenuous activity planned
- 3. When the sensor appears to be working correctly
- 4. The insulin-on-board (insulin action, active insulin) time is set at 3 hours or more

When NOT to use these guidelines:

See also our *Correcting for Arrows* worksheet.

- 1. Less than 3 hours after eating a meal
- 2. After forgetting a meal bolus (do the meal boluses instead)
- 3. When strenuous physical activity is planned
- 4. When there is illness: use our sick-day management guidelines instead
- 5. At bedtime or overnight, unless you are planning on rechecking the BG after 1 and 2 hours

*Laffel M, et al. A Practical Approach to Using Trend Arrows on the Dexcom G5 CGM System to Manage Children and Adolescents with Diabetes. *Journal of the Endocrine Society* 2017;1(12):1461-1476.