

TrioDocs Version: 0.2.1 Date: May 08, 2025

Download the latest version on: https://docs.diy-trio.org

Insulin Sensitivities

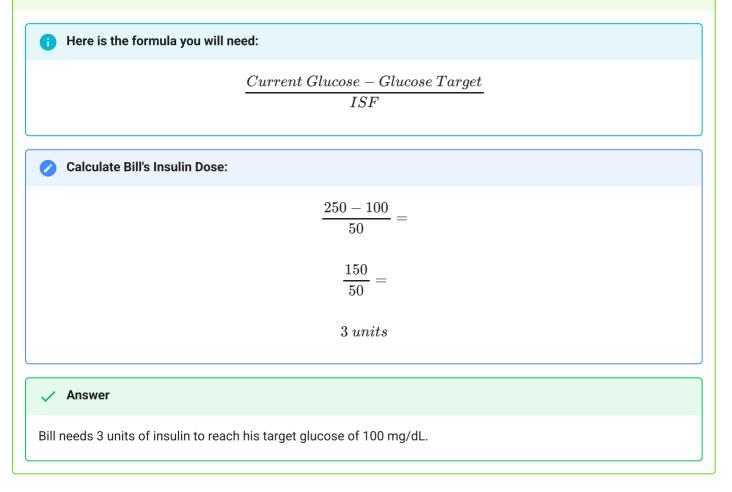
Insulin Sensitivity Factor (ISF)

o Highlights

- ISF is the most problematic setting for new loopers.
- ISF can be transferred from your pump to start.
- Adjust ISF by performing a correction and seeing how far your glucose drops in 4 hours.

ISF, also called insulin correction factor (ICF), refers to the amount of blood glucose in mmol/L (or mg/dL, depending on your settings) that one unit of insulin can neutralize.

Bill has an ISF of 50 (this is also written in shorthand as an ISF of 50 mg/dL/U (2.8 mmol/L/U)). This means 1 U of rapid insulin will bring Bill's sugar down by 50 mg/dL (2.8 mmol/L). How many units of insulin would Bill need to reach his target glucose of 100 if his current glucose reading is 250 mg/dL (13.9 mmol/L)?



Like basal rates, <u>ISF</u> is not used verbatim by Trio but is modified over time as data on the patient is collected. Still, setting <u>ISF</u> as close to accurate as possible is important for Trio to function well.

It is safe to transfer your ISF from your pump settings. Note that almost all issues when starting with Trio are a result of an improperly set ISF. If you find you have lows with corrections, or you have SMB/UAM on and the application provides too much insulin at any time, resulting in a rollercoaster pattern, your ISF is likely to blame.

Testing/Adjusting Your ISF

Baseline Calculation

If your current ISF is close, but needs some testing and adjustment, skip to the next section.

If your current ISF is inaccurate or you are unsure where to even start, the adjustments in Trio are based on formulas developed by Walsh, et.al. and may help you find a starting point to then test or adjust your ISF.

🛕 Warning

This calculation is to be used as a starting point for testing and is not considered definitive or exact.

ISF Testing

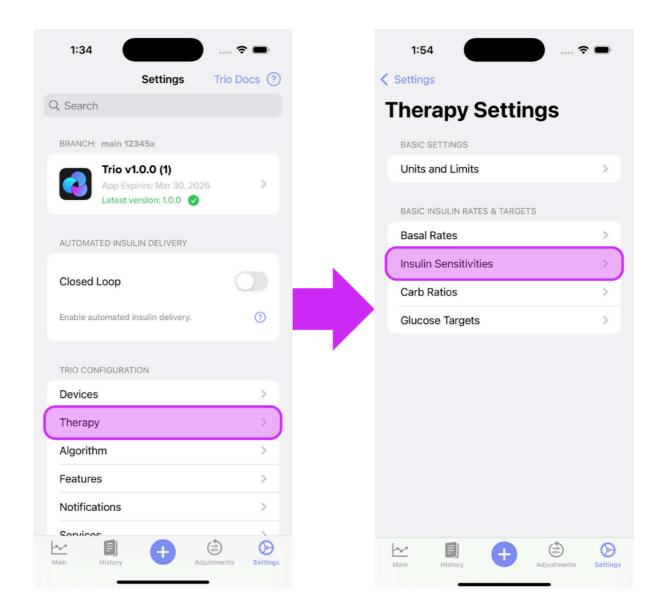
ISF Adjustment

There are a few ways you can work to adjust your ISF. The easiest method is simply bringing yourself to a higher glucose with a glucose tab or choosing a time when you are "stuck" higher than your target, then correcting based on your ISF. If you are higher than your target after 4 hours, make your ISF more aggressive by *DECREASING* the value. If you are lower than your target after 4 hours, make your ISF less aggressive by *INCREASING* the value.

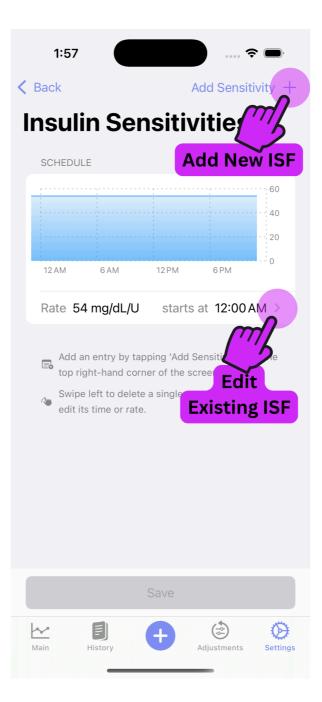
How To Enter Your ISF Into Trio

Step 1

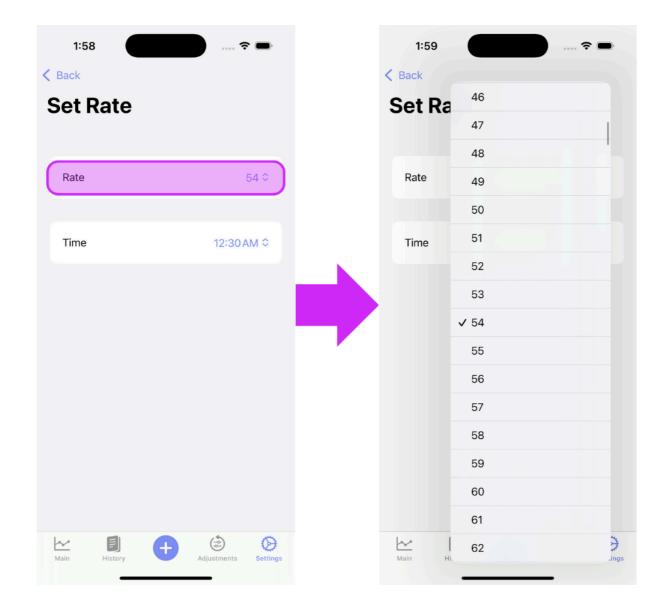
Enter the ISF Profile screen



Tap the "Add Rate +" on the top right of the screen until you have the number of ISFs you require. Then, edit each rate by tapping the arrow to the right of the ISF.



Adjust the rate



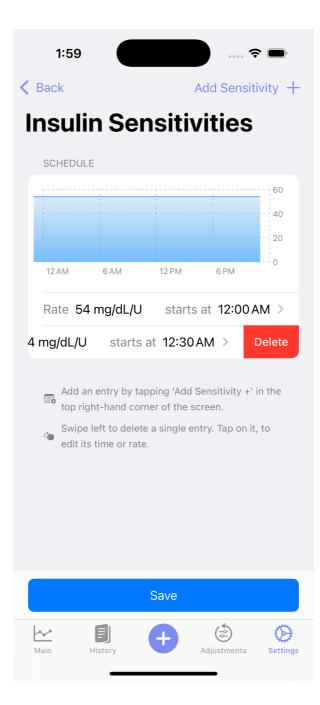
Adjust the time

1:58	🗢 🗩	1:59
et Rate		Set Ra
		✓ 12:30 AM
ate	54 \$	Rate 1:30 AM
		2:00 AM
le	12:30 AM \$	Time 2:30 AM
		3:00 AM
	_	3:30 AM
	_	4:00 AM
		4:30 AM
		5:00 AM
		5:30 AM
		6:00 AM
		6:30 AM 7:00 AM
		7:30 AM
: 🗐 🕂	۵ (۵	8:00 AM

Repeat Steps 2, 3, and 4 until all ISFs are set

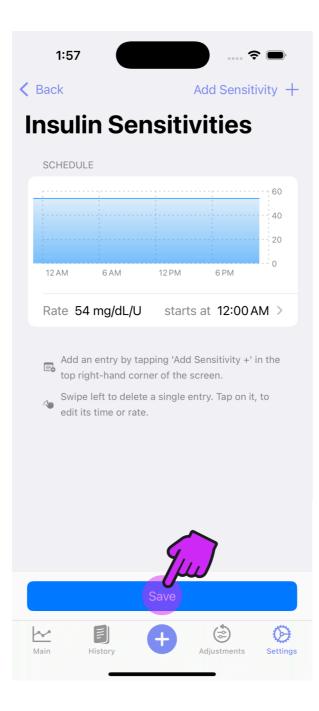
Delete an ISF Entry

Should you need to delete an ISF entry, just swipe left on the rate you need to remove.



Step 6 IMPORTANT

Save your changes!



Return to New User Setup