

# what is a correction factor?

A correction factor – also called insulin sensitivity factor (ISF) – helps you figure out how much insulin to give yourself to bring your high blood sugars down to the normal range without going low. If your correction factor = 2, this means that 1u of insulin will decrease your blood sugar by 2 mmol/L.

## how to test correction factors

### test your correction factor when:

- 1 | your blood sugar is >11 mmol/L
- 2 | it has been at least 3 hrs since you last ate
- 3 | it has been at least 4 hrs since your last bolus

### steps for testing:

- 1 | administer your correction dose
- 2 | do not eat for 4 hrs unless your sugar goes low
- 3 | test blood sugar every hour for 4 hrs

## when NOT to use a correction dose

- 1 | if your high #'s often come down on their own\*
- 2 | if you are having frequent or severe low blood sugars\*
- 3 | when pending exercise will lower it

\* Ask your diabetes educator for advice in this situation.

## assessing correction factor (ISF) test results

### your ISF may be too high if:

- your blood sugar ends up 2 mmol/L above your target blood sugar range after 4 hrs

### your ISF may be too low if:

- your blood sugar ends up >2 mmol/L below your target blood sugar range after 4 hrs

### practice makes perfect!

- repeat the test on a different day until a correction factor consistently brings your blood sugar within 2 mmol/L of your target by 5 hrs without going low



## correction factor tips

### bedtime corrections

- Be careful when correcting high readings before bed. Consider the use of a larger correction factor near bedtime to reduce the size of correction boluses and lessen the risk of night lows. Consider setting an alarm and checking your blood sugar.

### when do we need larger correction boluses?

- A larger correction dose of insulin (lower ISF) may be needed for extremely high blood sugar, ketoacidosis, an infection, pre-menstrual periods, or the use of prednisone.\*

### when do we need to lower our correction factors?

- Weight loss and increased activity will lower your insulin needs, leading to a lower correction dose of insulin (higher ISF).\*

### signs your basal rates need to be changed:

- If your correction factors vary significantly throughout the day, your basal rates likely need to be changed.\*

\* Ask your diabetes educator for advice in this situation.