

# T2D meds

There are 9 classes of type 2 diabetes (T2D) medications (meds), and each helps the body lower blood glucose in a different way.

Which class of med you are taking?

To find out, read your medication label or see if you can find the name of your med in the table below.



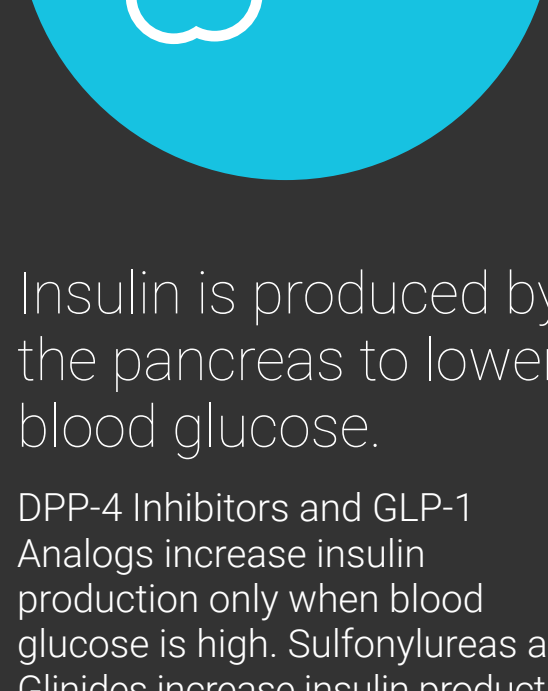
As food digests, the stomach empties.

DPP-4 Inhibitors & GLP-1 Analogs slow down stomach emptying. Alpha-1 Glucosidase Inhibitors delay digestion of starches after eating, which reduces blood glucose spikes after meals.

[DPP-4 Inhibitor](#)

[GLP-1 Analog](#)

[Alpha-1 Glucosidase](#)



Insulin is produced by the pancreas to lower blood glucose.

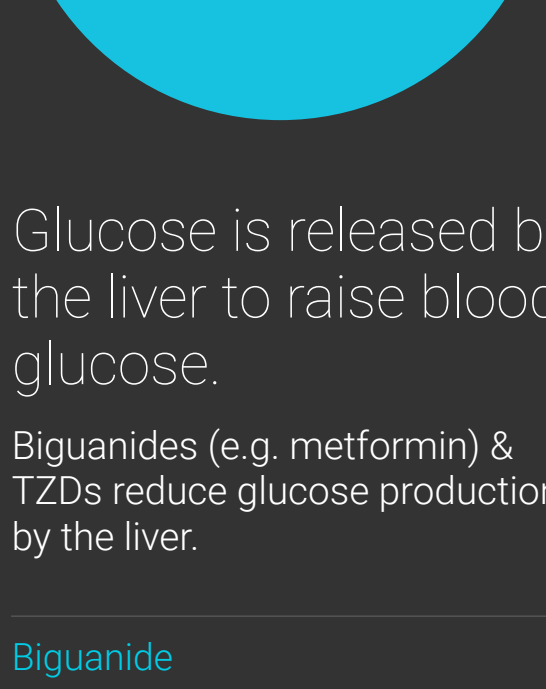
DPP-4 Inhibitors and GLP-1 Analogs increase insulin production only when blood glucose is high. Sulfonylureas and Glinides increase insulin production regardless of blood glucose levels, increasing the risk of hypoglycemia.

[Sulfonylureas](#)

[DPP-4 Inhibitor](#)

[GLP-1 Analog](#)

[Glinide](#)

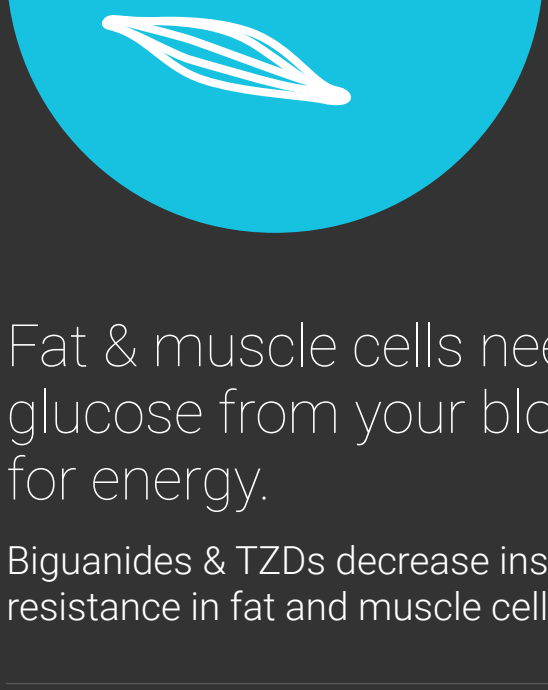


Glucose is released by the liver to raise blood glucose.

Biguanides (e.g. metformin) & TZDs reduce glucose production by the liver.

[Biguanide](#)

[TZD](#)

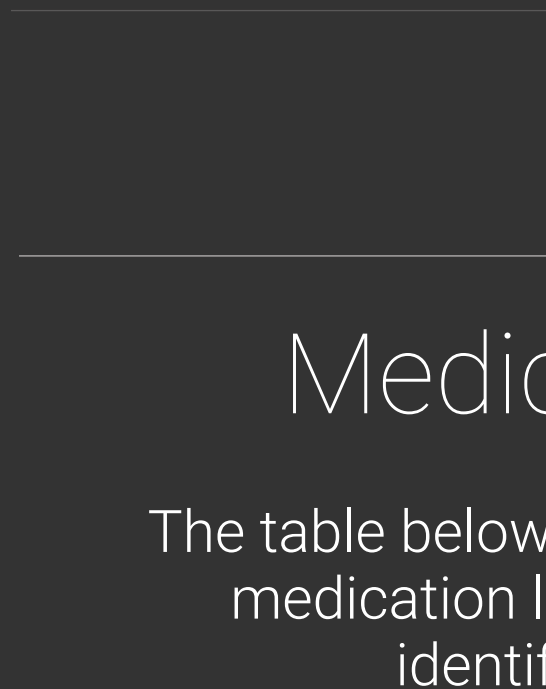


Fat & muscle cells need glucose from your blood for energy.

Biguanides & TZDs decrease insulin resistance in fat and muscle cells.

[Biguanide](#)

[TZD](#)



Kidneys filter some glucose out of the blood, but also reabsorb some and return it to the bloodstream.

SGLT-2 Inhibitors reduce reabsorption of glucose by the kidneys.

[SGLT-2 Inhibitor](#)

## Medication Types

The table below describes how each type of medication lowers blood glucose and identifies pros and cons.

### Medication

Brand & Generic Names*	How does it lower blood glucose?	Pros	Cons
<b>Biguanide</b>			
<b>Brand</b> Glucophage Glumetza Fortamet Riomet Glucophage XR Glucophage SR	Decreases glucose production by the liver  Decreases insulin resistance in muscle and fat	Minimal side effects  Weight loss  Inexpensive	Possible gastrointestinal (GI) effects (bloating, gas, diarrhea, abdominal pain, loss of appetite)  Fewer GI side effects with the extended release forms (XR or SR).  Should be avoided by people with impaired kidney function and the very elderly
<b>Generic</b> metformin			
<b>DPP-4 Inhibitor</b>			
<b>Brand</b> Januvia Onglyza Tradjenta Nesina / Viperia Galvus	Increases the amount of insulin produced by the pancreas  Decreases the amount of glucagon produced by the pancreas  Slows digestion	Safe  Weight neutral	
<b>Generic</b> sitagliptina saxagliptin linagliptin alogliptin vildagliptin			
<b>SGLT-2 Inhibitor</b>			
<b>Brand</b> Invokana Farxiga Jardiance	Reduces reabsorption of glucose by the kidneys	Weight loss  Increased life expectancy  Reduces systolic blood pressure	Genital yeast infections  Urinary tract infections
<b>Generic</b> canagliflozin dapagliflozin empagliflozin			
<b>GLP-1 Analog</b>			
<b>Brand</b> Byetta Bydureon Victoza Lyxumia Trulicity Tanzeum	Increases the amount of insulin produced by the pancreas  Reduces the amount of glucagon produced by the pancreas  Slows digestion	Weight loss  Potent reduction of mean glucose and A1C	Possible GI effects (bloating, gas, diarrhea, abdominal pain, loss of appetite)  Need to gradually increase dosage
<b>Generic</b> exenatide exenatide QW liraglutide lixisenatide dulaglutide albiglutide			
<b>Thiazolidinedione (TZD)</b>			
<b>Brand</b> Actos Avandia	Decreases insulin resistance in muscle and fat  Decreases glucose production by the liver	Low risk of low blood glucose	Weight gain  Fluid retention
<b>Generic</b> rosiglitazone pioglitazone			
<b>Sulfonylurea</b>			
<b>Brand</b> Glucotrol Glucotrol XL GlipizIDE XL DiaBeta Glynase PresTab Amaryl	Increases the amount of insulin produced by the pancreas	Inexpensive	Weight gain  Fluid retention  Higher risk of low blood glucose
<b>Generic</b> glipizide glyburide glimeperide			
<b>Glinide</b>			
<b>Brand</b> Prandin Starlix	Increases the amount of insulin produced by the pancreas	Works quickly to lower high blood glucose	Weight gain  Fluid retention  Risk of low blood glucose
<b>Generic</b> repaglinide nateglinide			
<b>Alpha-1 Glucosidase Inhibitor</b>			
<b>Brand</b> Precose Glyset	Delays absorption of carbohydrates after eating	Popular in Asia with high-carb diets  Low cost	Possible GI effects (bloating, gas, diarrhea, abdominal pain, loss of appetite)
<b>Generic</b> acarbose miglitol			
<b>Insulin</b>			
Multiple types available  See One Drop Guide to Insulin for details	Increases glucose uptake by muscle, liver and fat tissues	Very effective at lowering blood glucose	Risk of low blood glucose (hypoglycemia)  Local reactions at injection site

\*There may be additional brand names for a particular medication. If your particular brand of medication is not listed here, please see your medication's package insert for additional information.