ANTIDIABETIC DRUGS (April 2017)

Class	Generic name (brand name)	Mechanism of action	When to take it	Adverse effects
Sulfonylureas	Gliclazide (Diamicron®) Gliclazide (Diamicron® MR) Glimepiride (Amaryl®)	Stimulate the pancreas to produce more insulin	Before meals (≤ 30 minutes); Do not take at bedtime For Diamicron® MR ONLY :	Hypoglycemia (low blood sugar)
	Glyburide (Diaβeta®)		Take at breakfast	
Meglitinides	Nateglinide (Starlix®) Repaglinide (GlucoNorm®)	Stimulate the pancreas to produce more insulin	Before meals (≤ 15 minutes); Do not take at bedtime	Hypoglycemia (low blood sugar)
Biguanides	Metformine (Glucophage®)	Reduce the production of glucose by the liver	During meals	Diarrhea, metallic aftertaste, nausea
	Metformine extended-release (Glumetza®)		At dinner	
Thiazolidinediones (TZD)	Pioglitazone (Actos®) Rosiglitazone (Avandia®)	Increase insulin sensitivity of the body cells and reduce the production of glucose by the liver	With or without food, at the same time each day	Swelling due to water retention, weight gain Pioglitazone: inscreased risk of bladder cancer (Health Canada restriction) Rosiglitazone: increased risk of non-fatal heart attack (Health Canada restriction)
Alpha-glucosidases inhibitor	Acarbose (Glucobay®)	Slow the absorption of carbohydrates (sugar) ingested	With the first mouthful of a meal	Bloating and flatulence (gaz)
Dipeptidyl-peptidase-4 (DPP-4) inhibitors	Linagliptine (Trajenta [®]) Saxagliptine (Onglyza ^{MC}) Sitagliptine (Januvia [®]) Alogliptine (Nesina [®])	Intensify the effect of intestinal hormones (incretines) involved in the control of blood sugar	With or without food, at the same time each day	Pharyngitis, headache
Glucagon-like peptide-1 (GLP-1) agonist	Exenatide (Byetta®)	Mimic the effect of certain intestinal hormones (incretines) involved in the control of blood sugar	Injection to take 0 to 60 minutes before breakfast or dinner	Nausea, diarrhea, vomiting
	Exenatide extended-release (Bydureon®)		Injection once a week, the same day, any hour of the day, with or without food	
	Liraglutide (Victoza®)		Injection to take with or without food, at the same time each day	
	Dulaglutide (Trulicity®)		Injection once a week, the same day, any hour of the day, with or without food	
Sodium glucose cotransporter 2 (SGLT2) inhibitors	Canaglifozine (Invokana®)	Help eliminate glucose in the urine	Before the first meal of the day	Genital and urinary infections, more frequent urination
	Dapagliflozine (Forxiga®) Empagliflozine (Jardiance®)		Any time of day, with or without food	

- The following pills combine 2 classes of antidiabetic drugs:

 Thiazolidinedione + biguanide (Avandamet®)

 DPP-4 inhibitors + biguanide (Janumet®, Janumet®XR, JentaduetoMC KomboglyzeMC)

 SGLT2 inhibitor + biguanide (Xigduo®, Invokamet®, Synjardy®)

 DPP-4 inhibitor + SGLT2 inhibitor (GlyxambiMC)

