Oral Diabetes Medications

Class (pronounciation)	Sulfonylureas (SUL-fah-nil-YOO-ree-ahs)	Biguanides (by-GWAN-ides)	Alpha- glucosidase inhibitors (AL-fa-gloo-KOS-ih-days)	Meglitinides (meh-GLIT-in-ides) D-phenylalanine derivatives (dee-fen-nel-AL-ah-neen)	Thiazolidinediones (THIGH-ah-ZO-li-deen-DYE-owns)	DPP-IV Inhibitors
Brand & (generic) name	Amaryl (glimepiride) Glucotrol & Glucotrol XL (glipizide) DiaBeta, Micronase, Glynase, Prestabs(glyburide)	Fortamet (XR metformin) Glucophage (metformin) Glucophage XR (XR metformin) Glumetza (XR metformin) Riomet (liquid metformin)	Precose (acarbose) Glyset (miglitol)	Glufast (mitiglinide) Prandin (repaglinide) Starlix (nateglinide)	Avandia (rosiglitazone) Actos (pioglitazone)	Januvia (sitagliptin)
Action	Lower blood glucose by helping the pancreas produce more insulin. Keep your blood glucose level from rising between meals.	Keep the liver from producing too much stored glucose. Help keep your blood glucose from going too high during the day & while you sleep.	Keep blood glucose from rising too high after meals by slowing the digestion of carbohydrates. (Blocks enzymes that help digest starches)	Keep blood glucose from rising too high after meals by helping the pancreas release insulin in response to food.	Decrease insulin resistance in muscle & fat cells. Help keep your blood glucose levels down after meals and when fasting.	Blocks enzyme (DPP-IV) that breaks down protein, prolonging activity of protein that boosts release of insulin after blood glucose rises. Boosts incretin gut hormone.
Targets	Pancreas	Liver	Gut	Pancreas	Adipose & muscle	Gut
↓ Hg A1c	0.8 - 2.0	1.5 – 2.0	0.7 – 1.0	0.5 - 2.0	0.5 – 1.5	0.48-0.94%,
↓ FPG	60 – 70	50 – 70	35 – 40	65 – 75	25 - 50	
Side Effects	Hypoglycemia, Stomach upset, Skin rash or itching, Weight gain Chlorpropamide – extremely long acting and may have "antibuse effect"	Diarrhea, Nausea, Abdominal pain, Bloating, Metallic taste in mouth. Metformin may not be for you if you normally have 2-4 alcoholic drinks a week or if you have kidney or liver disease or heart failure. You are at higher risk for lactic acidosis, a serious side effect.	Gas, Diarrhea, Nausea, Stomach cramps. These side effects usually go away after a few weeks.	Prandin: Hypoglycemia,Coughing and bronchitis, Upper respiratory infection, Headache, Joint Pain, Back pain, Stomach upset, Diarrhea, Constipation. Starlix: Hypoglycemia, Upper respiratory infection, Diarrhea, Nausea, Flu-like symptoms, Headache, Dizziness	Upper respiratory infection, Headache, Infection, Muscle pain, Weight gain, Swelling, Decrease in effectiveness of birth control pills Caution: Do not use in the presence of CHF	Upper respiratory infection, sore throat, diarrhea and headache. Not as likely to cause weight gain or low blood glucose as other meds
Dose	glimepiride – once daily glipizide – 1-2 times per day 30 minutes before meals glyburide – 1-2 times per day	2-3 times per day with meals.	Take with the first bite of any meal.	Take right before meals.	1-2 times per day.	Januvia-once daily
	Combination	(pioglitazone &	(rosiglitazone &	(rosiglitazone &	(sitagliptin &	(glipizide &
		metformin)	metformin)	glimepiride)	metformin)	metformin)
	Medications	Actoplus Met	Avandamet	Avandaryl	Janumet	Metaglip