

Anti-diabetic drugs Cheat Sheet by sam219 via cheatography.com/201893/cs/45452/

Insulin secretagogues			
Sulfonylureas & meglitinides	DPP-4 inhibitors		
MOA: block ATP-de- pendent K+ channels	Sitagliptin "januvia"		
SU	MOA: inhibit DPP4 enzyme (cytoplasmic recept- or)> no incretin (GLP1) degredation> Increase in GLP1 stimulates insulin secretion.		

1 gen: Tolbutamide-chlorpropamide.

long acting SU so long hypoglycemic episodes.

Only eliminated renallly; risk to renally compromised patients.

2 gen: Gliclazide-glyburide "glibenclamide"

Shorter acting SU with pendant lipohilic gp larger or aromatic. Undergo enterhepatic circulation and eliminated in urine & bile.

3 gen: Glimepiride

Completely metabolized by oxidation of pendant methyl substituent into methoxy metabolites (mostly in feces) & COOH metabolites (mostly in urine).

Meglitinides/glitinides

D-phenylalanine-Repaglinide-Nateglinide

Insulin sensitizers		
Biguanides	Thiazolidinediones (TZD)	
Metformin	Rosiglitazone-Pioglitazone	
MOA: reduces liver glucose release and increases glucose uptake into tissue (decreases BG level).	MOA: activate the nuclear receptors (PPAR-y) which causes transcription of genes stimulating lipid uptake & adipogenesis.	
Best described as anti-hyperglycemic agent because it doesn't cause hypoglycemia.		

Alpha-d	lucosidase	inhibitore
Alpha-9	lucusidase	II II IIDILOI S

Voglibose

1st line for T2D with normal kidney function (Ineffective without

MOA: Delay digestion and carb absorption.

SE: flatulence, bloating, abdominal cramping

Adjuvant therapy.

insulin).



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