

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	MOA: activate the nuclear receptors		
release and increases	(PPAR-y) which causes transcription		
glucose uptake into tissue	of genes stimulating lipid uptake &		
(decreases BG level).	adipogenesis.		
Best described as anti-hyperglycemic agent because it doesn't			
cause hypoglycemia.			
1st line for T2D with normal kidney function (Ineffective without			

Alpha-glucosidase inhibitors

Voglibose

MOA: Delay digestion and carb absorption.

SE: flatulence, bloating, abdominal cramping

Adjuvant therapy.

insulin).



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