

Antihyperglycemic Therapies

Class	Agent	A1c	BW	Hypos	Comments	\$/d	RAMQ		
Biguanide	Metformin (Glucophage)	↓ ↓	↓	No	Diarrhea, lower mortality	0.18	OK		
DPP-4 Inhibitors	Sitagliptin (Januvia)	↓ ↓	Stable	No	Neutral cardiovascular outcome trials for sita, saxa and alogliptin. Small rise in CHF with saxagliptin.	2.62	EXCEP		
	Saxagliptin (Onglyza)	↓ ↓				2.30	EXCEP		
	Linagliptin (Trajenta)	↓ ↓				2.25	EXCEP		
	Alogliptin (Nesina)	↓ ↓				2.10	EXCEP		
	Liraglutide (Victoza)	↓ ↓ ↓				6.85	EXCEP		
GLP-1R Agonists	Exenatide (Byetta)	↓ ↓ ↓	↓ ↓	No	Injection (bid for exenatide, die for liraglutide, once weekly for the others), long-term safety not established	2.49	NO		
	Exenatide QW (Bydureon)	↓ ↓ ↓				?	NO		
	Dulaglutide (Trulicity)	↓ ↓ ↓				?	NO		
	Albiglutide (Eperzan)	↓ ↓				?	NO		
	Canagliflozin (Invokana)	↓ ↓ to ↓ ↓ ↓		No	Hypotension, genital mycotic infections. Cardiovascular benefit for empagliflozin, on-going trials for the others	2.62	EXCEP		
SGLT2 Inhibitors	Dapagliflozin (Forxiga)	↓ ↓ to ↓ ↓ ↓	↓ ↓			2.45	EXCEP		
	Empagliflozin (Jardiance)	↓ ↓ to ↓ ↓ ↓				2.62	NO		
	Rosiglitazone (Avandia)	↓ ↓	↑ ↑	No	Edema, heart failure, fractures	2.87	EXCEP		
Thiazolidinediones	Pioglitazone (Actos)	↓ ↓			Edema, heart failure, fractures	1.05	EXCEP		
Insulin Secretagogues	Glyburide (Diabeta)	↓ ↓	↑ ↑	+++		0.23	OK		
	Gliclazide (Diamicron)	↓ ↓				0.50	EXCEP		
	Glimepiride (Amaryl)	↓ ↓				0.77	EXCEP		
	Repaglinide (GlucoNorm)	↓ ↓				0.84	EXCEP		
	Nateglinide (Starlix)	↓				1.95	EXCEP		
α -Glucosidase Inhibitors	Acarbose (Glucobay)	↓	↓	No	Gas	1.03	OK		
Insulins	Human insulins	↓ ↓ ↓	↑ ↑	+++++	Injections	1.77	OK		
	Analogue Insulins	↓ ↓ ↓	↑ ↑	++++	Injections	1.95L 2.94L	EXCEP		