Antidiabetic Medications & their Medical Nutrition Therapy Significance

Drugs, Class/	Glycemic Elevations	Recommended	Greatest Risk for Hypoglycemia	Medical Nutrition Therapy (MNT) Implications			
Site of Action/	Most Affected &	SMBG Testing for	Greatest Risk for Hypogryceinia	Medical Nutrition Therapy (MINT) implications			
System(s) Targeted	Expected A1c	Effectiveness					
	Reduction						
Secretagogues: Sulfonylureas / Pancreas							
Glipizide	Fasting &	2-3 times per day,	• 4-6 hours after meals & fasting	emphasize weight management techniques			
Glyburide	postprandial & A1c	especially fasting	with missed meal or snacks	• appropriate snacks and timing			
Giyouriae	1-2%			take before meal; skip drug if not eating			
Glimeperide							
Secretagogues: Non-Sulfonylureas/Pancreas							
Repaglinide	Postprandial & A1c	2 hours after meal	• 1 hour after meal	emphasize weight mgt techniques			
Nateglinide	0.5.20/		with missed meal or snacks	• appropriate snacks and timing			
Sensitizers: Biguanides/ L	0.5-2%	ZGALO.		take before meal; skip drug if not eating			
Metformin	Fasting &	Fasting	• None	may cause weight loss			
Meijormin	postprandial & A1c	Pasting	None	limit foods that can cause GI side effects			
	Postponiani de soci			take with food to reduce GI side effects			
	1 to 2%						
Sensitizers: Alpha-Glucosidase Inhibitors/Small Intestines							
Acarbose	Post-prandial & A1c	2 hours after meal	• None	• must be taken before carbohydrate-containing meals, with first-			
Miglitol	0.5.0.00/		• Treat with glucose tablets	bite of food			
Migilioi	0.5-0.8%		(pre-digested carbohydrates)	• caution for GI side effects & minimize by reducing foods that cause abdominal bloating, & flatulence			
				may cause low serum iron			
Sensitizers: Thiazolidinediones/Muscle/Liver/Adipose Tissue							
Rosiglitazone	Fasting &	2 -3 times per day,	• None	reduce caloric consumption to avoid weight gain			
	postprandial & A1c	especially fasting		reduce sodium to reduce fluid retention			
Pioglitazone				• can be taken with or without food			
	1 to 2%			adequate osteoporosis protection			
Incretin System: DPP-4 I							
Sitagliptin	Fasting, postprandial & A1c	2 -3 times per day	• None	weight-neutralconcentrate on healthy food choices			
Saxaliptin	& AIC			concentrate on hearthy food choices can be taken with or without food			
7 . 1	0.7 to 1.4%			our co union with or without room			
Linagliptin							
Alogliptin							
Incretin-Mimetic: GLP-1 Receptor Agonists/Small Intestines/Pancreas/Liver/Musce/Brain/Adipose Tissue							
Exenatide &	Postprandial & A1c	2 hours after meals	• a reactive hypoglycemia if significant	slows gastric emptying & causes feeling of fullness halfway			
Exenatide XR	0.5.1.50/	and fasting	hyperglycemia	through meals			
Liraglutide	0.5-1.5%			• can cause some nausea or feelings of satiety early in meals (avoid greasy or acidic foods; counteract with carbonated			
- Gillian				beverage or ginger)			
Albiglutide				• increased water & fiber since potential side effect of			
				constipation			

Dulaglutide				• give 30-60 minutes before eating & do not take after or during
				• consume at least 30 grams of complex carbohydrate
Amylin Mimetic: Pancr	200			
Pramlintide	Postprandial & A1c	Before meals &	• 2-3 hours after meals	slows gastric emptying
1 rumimude	0.3-0.6%	2 hours after	2-3 Hours after means	 causes feeling of fullness halfway through meals can cause some nausea or feelings of satiety early in meals consume at least 30 grams carbohydrates
Dopamine Agonist: Bra	in			
Bromocriptine mesylate	Postprandial & A1c	Postprandial	• None	 take with food within 2 hours of awakening may cause nausea
	0.6-0.9%			weight-neutral
Sodium Glucose Co-trans	sporter 2 Inhibitors: Kid	ıey		
Canogliflozin	Fasting, postprandial	Fasting, pre-meals,	• None	may increase LDL cholesterol
Dapagliflozin	& A1c	& postprandial		may increase risk of hypotensionmay promote weight loss
Empagliflozin	0.91-1.16%			
Insulins: Basal Analogs (<u> </u>			
Glargine Detemir	Fasting & A1c	Fasting & Pre- meals	• None	 timing of meals not an issue if receiving proper dose, but carry snacks in case meal is delayed
Insulins: Mealtime Analo	ogs (vanid aating)			
Lispro	Postprandial & HbA1c	Postprandial	• 1 to 1 ½ hours post-injections	insulin to carbohydrate ratio education
Aspart	1 ostprandiar & 1107 CTC	1 Ostprandiai	1 to 1 /2 hours post injections	hypoglycemic precautions
Glulisine				
Afrezza (inhaled)				
Insulins: Intermediate-A	cting (NPH)			
Humulin N	Fasting & HbA1c	Fasting & Pre-meal & Between-meal	• 6-12 hours post-injections	 eat 3 meals daily with between meal snacks keep carbohydrate content of meals as consistent as possible
Novolin N				
Insulins: Short-Acting (R	<u> </u>			
Humulin R Novolin R	Postpranidal & HbA1c	Post-prandial & Between-meal	• 2-4 hours post-injections	 insulin to carbohydrate ratio education keep snacks available due to unpredictability
	logs (combination basal &	: mealtime)		
Lispro Protamine/ Lispro	Fasting, Postprandial & HbA1c	Fasting, Pre-meals & Post-prandial	• 1-4 hours post-injection	eat 3 meals dailykeep carbohydrate content of meals as consistent as possible
Aspart Protamine/				
Aspart				of Thorany in advanced practice pursing. Nutrition prescriptions for