

Becoming a Certified Diabetes Educator (CDE)

OKAKI Diabetes Virtual Care Clinic

- Deadline to apply to write is February 1st
- Healthcare professionals who can write include nurses, dietitians, pharmacists
- Need to complete 800 hours of practice in diabetes education within the 3-year period before writing the examination
- Okaki's CDE study group starts in January

Diabetes Medications

Diabetes Care Coaching



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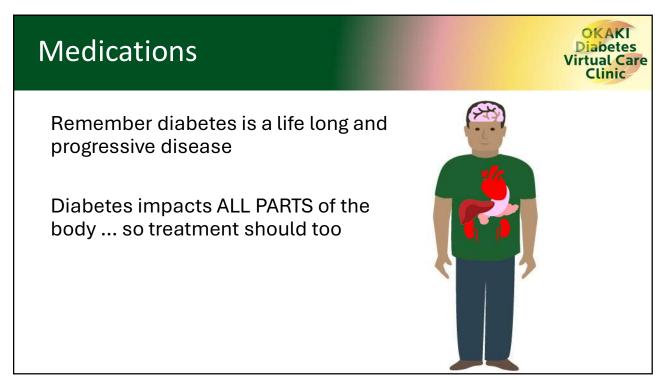
Before We Begin ...

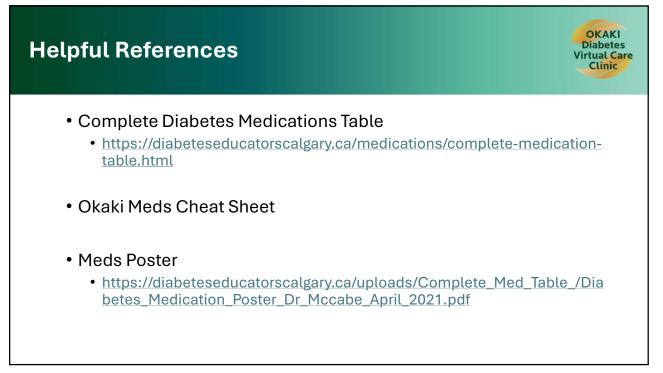
- Our goal is to create a safe space where all participants are comfortable to learn, share, ask questions
 - Everyone brings knowledge and expertise
 - I am always learning too
 - We won't record discussions, but will share monthly education videos
- The coaching sessions will focus on practical pieces of working in diabetes. For details, it is always best to reference the Diabetes Canada Clinical Practice Guidelines (guidelines.diabetes.ca)

OKAKI

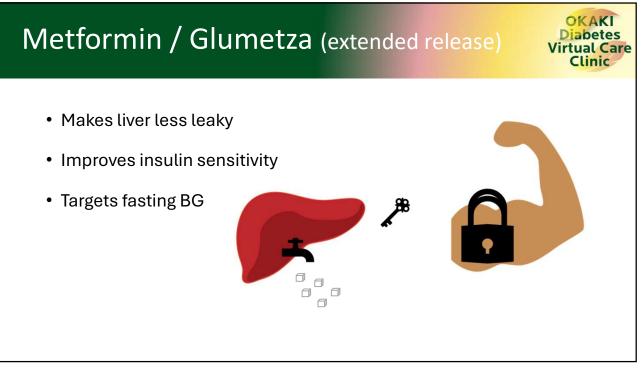
Diabetes irtual Care Clinic

What We Plan to Cover Today Diabetes medications Classes How they work Supporting management (insulin to come next time ...)

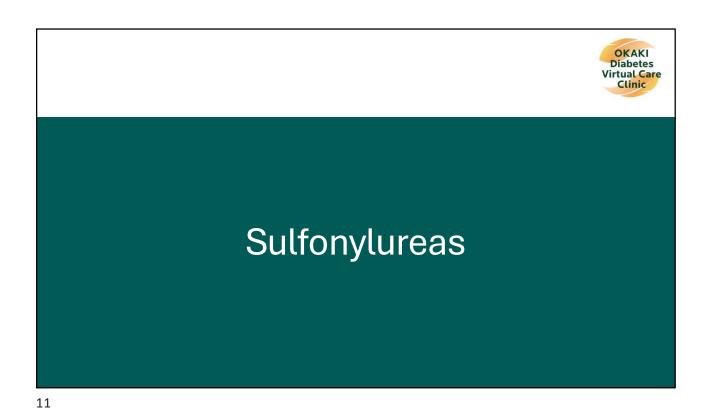


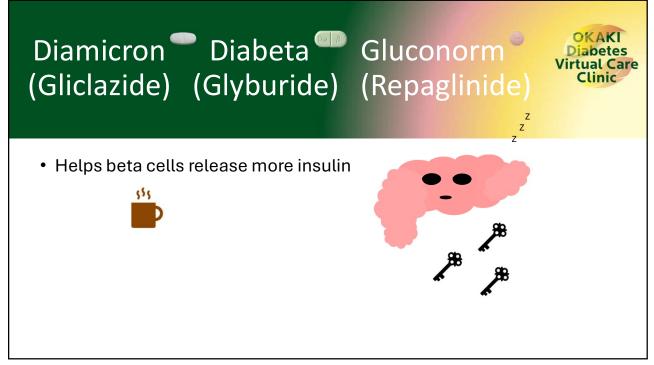






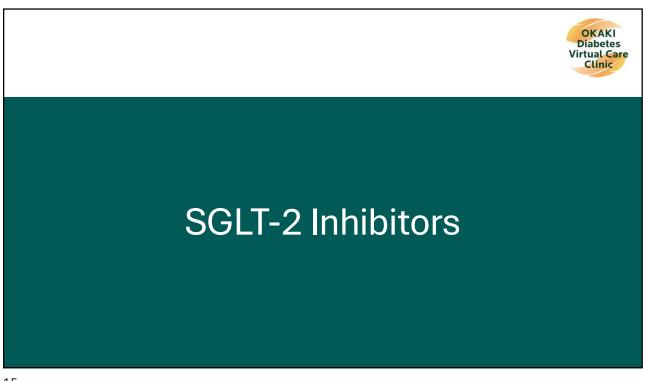
igua	nides – Metformin, Glumetza	Diab Virtua Clin
00	Decreased glucose output from liver, increased insulin sensitivity	
A1C	1% reduction	
\$	Affordable	
Ø	Weight neutral	
<u>`~</u>	Negligible risk of hypoglycemia	
G ID	>45 full dose, 30-45 500-1000 mg, <30 use alternative agent	
+	Reduction in myocardial infarction in overweight individuals	
-	 GI side effects (important to take with food) Vitamin B12 deficiency Contraindicated in hepatic failure 	

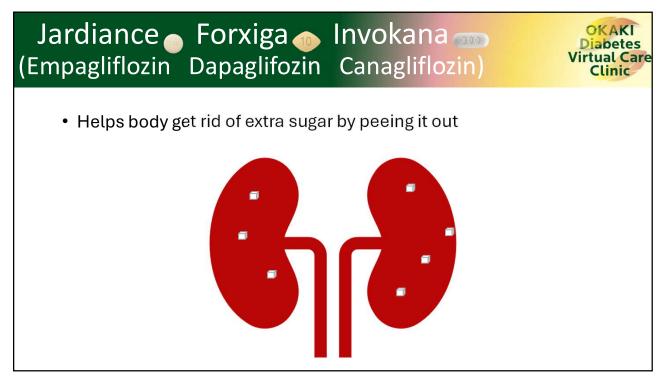




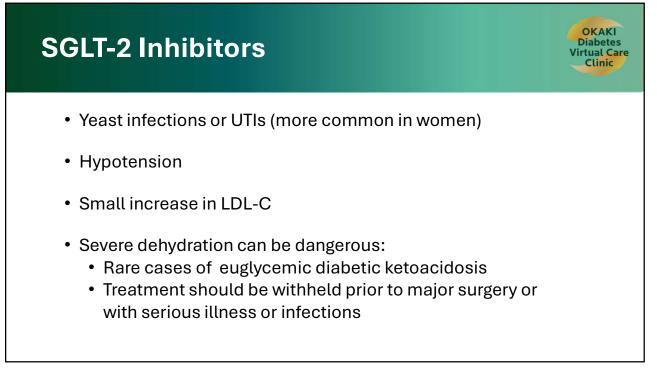
Sulfo	nylı	Ireas – Gliclazide, Glyburide, Glime	OKAKI Diabetes Oli Virtual Care Clinic
	00	Stimulates endogenous insulin secretion, dosed bid (MR available)	
	A1C	0.7-1.3% reduction	
	\$	Affordable	
	Ŷ	+ 1.5-2.5 kg	
	<u>~</u>	Gliclazide - minimal/moderate, Glyburide/glimepiride – moderate	
	G IÐ	> 60 full dose, 30-60 caution, <30 use alternative agent	
	+	Rapid BG lowering response	
	-	Gliclazide preferred over glyburide/glimepiride due to lower risk of hypoglycemia, CV events, and mortality	

Ē Meg	litir	nides - Repaglinide	OKAKI Diabetes Virtual Care Clinic
	0	Stimulates endogenous insulin release, dosed with meals	
	A1C	0.7-1.1% reduction	
	\$	\$\$	
	Ŷ	+ 0.7-1.8 kg	
	<u>~</u>	Moderate risk of hypoglycemia	
	G ID	> 30 full dose but greater risk of hypoglycemia, < 30 caution	
	+	Dosing flexbility	
	-	Contraindicated when co-administered with clopidogrel or with gemfibrozil	





SGLT-	2 Ir	hibitors	OKAKI Diabetes Virtual Care Clinic
	00	Inhibits SGLT-2 transport protein to prevent glucose reabsorption by the kidney (glucose excreted in urine)	
	A1C	0.4-0.7% reduction	
	Ø	- 2-3 kg	
	<u>~</u>	Negligible risk of hypoglycemia	
	+	Reduction in MACE and CV death, renal preservation, heart failure	
	-	Next slide	

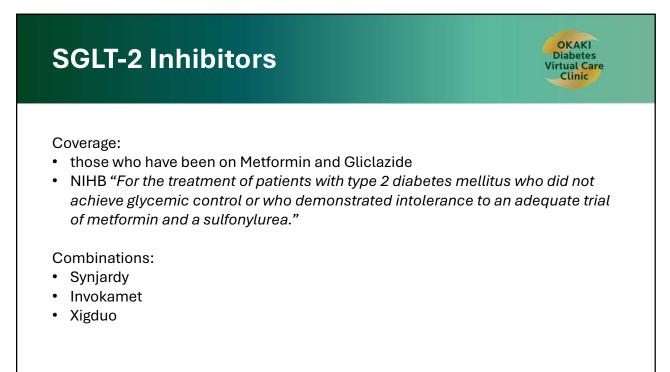


SGLT-2 Inhibitors

OKAKI Diabetes Virtual Care Clinic

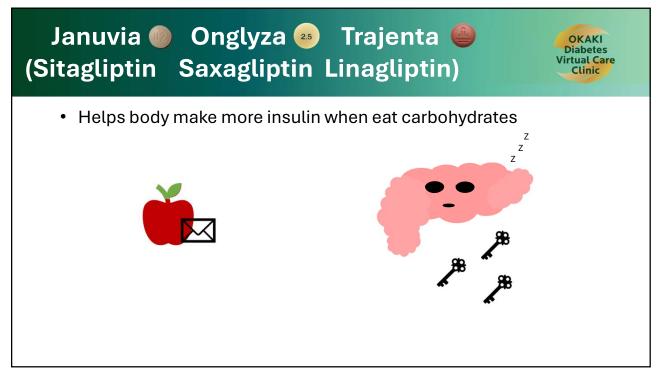
When newly started on SGLT-2i:

- Review sick day management
- Check for low carbohydrate diets
- Emphasize importance of good hydration

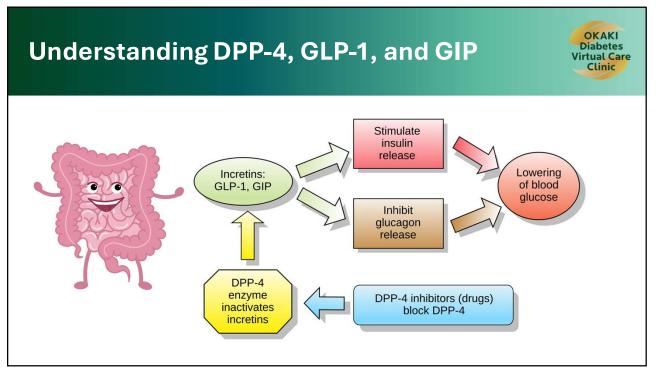




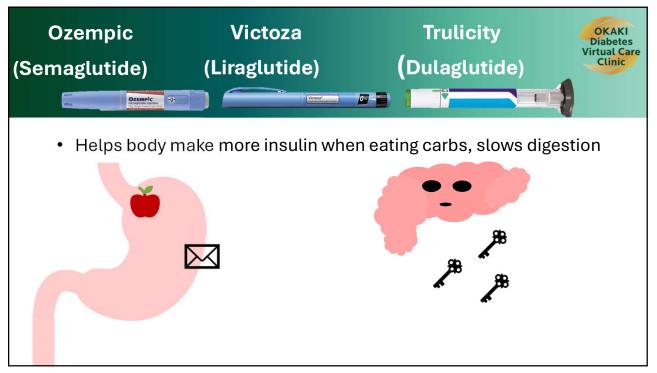


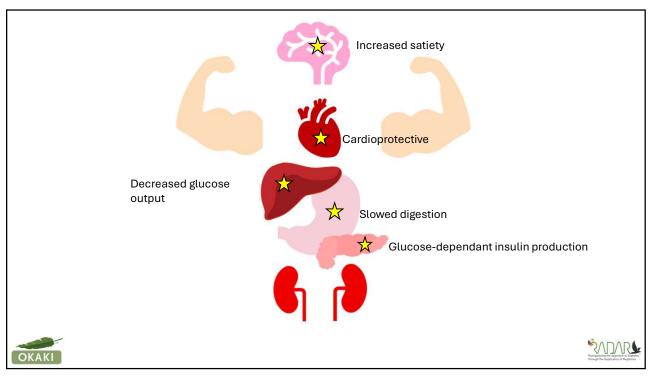


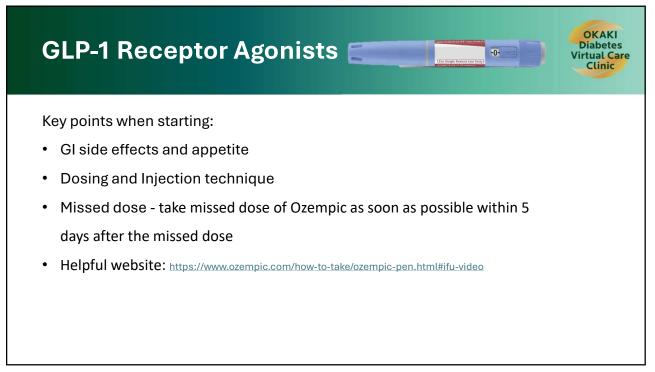
9-4i ∙	– Linagliptin, Saxagliptin, Sitaglipt	OKAKI Diabetes Virtual Care Clinic
00	Increases glucose dependent insulin release, inhibits glucagon release	
A1C	0.5-0.7% reduction	
\$	\$\$\$	
Ø	Weight neutral	
~	Negligible risk of hypoglycemia	
G IG	Lina > 15, Saxa adjust when 15-45, Sita adjust when 30-45, again 15-20	
+	Typically well tolerated	
-	 Rare cases of pancreatitis Rare cases of severe joint pain Caution with saxagliptin in participants with heart failure 	











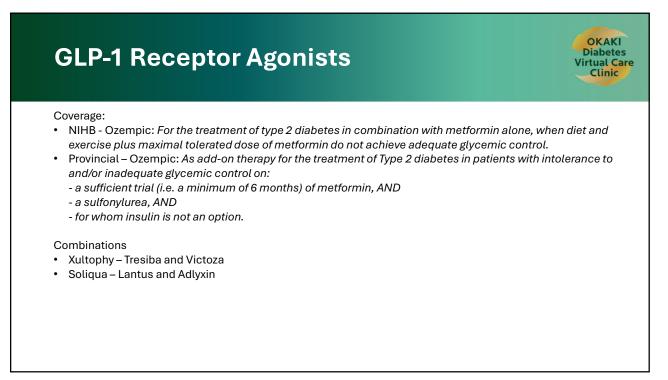
Rybelsus - Oral Semaglutide 🥏

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- Works the same as subcutaneous semaglutide increases glucose dependent insulin release, inhibits glucagon release, slows gastric emptying
- · Both fasting and postprandial blood sugars targeted

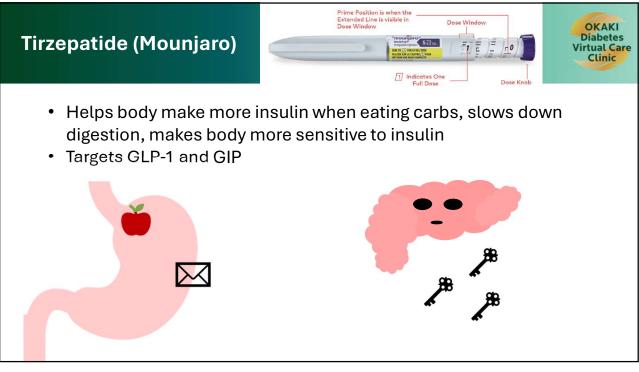
Key points when starting:

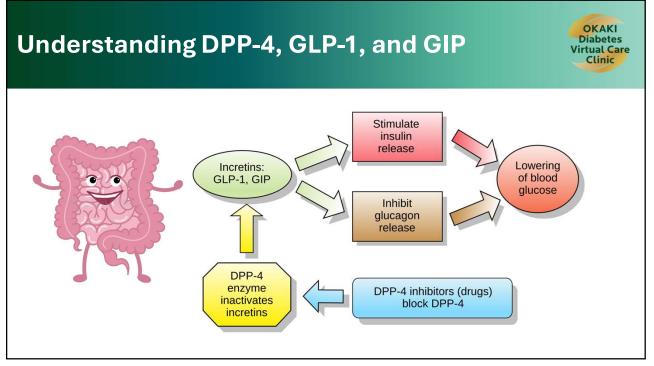
- Take 30 mins before eating or drinking with water
- GI side effects
- Dosing

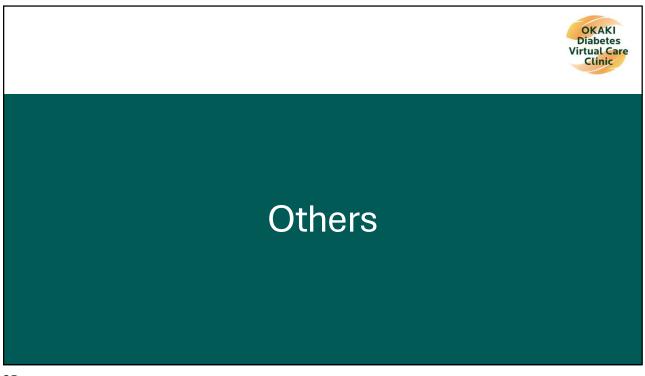


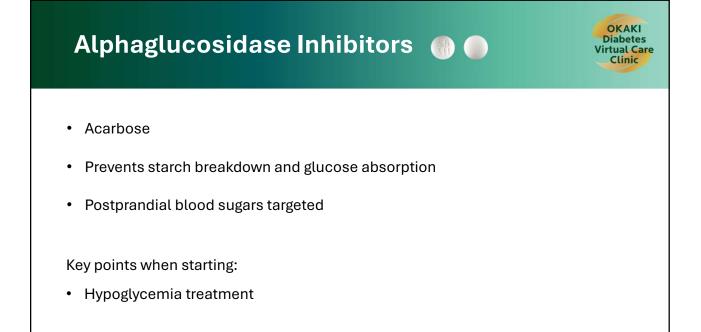
GLP	2-1 R	eceptor Agonists	OKAKI Diabetes Virtual Care Clinic
	00	Glucose-dependant insulin release, reduction in glucagon, slowed gastric emptying	
	A1C	1% reduction	
	Ø	-1.6-3 kg	
	5	Negligible risk of hypoglycemia	
	+	Primary CV prevention, secondary prevention of MACE	
	-	 GI side effects common (nausea, constipation, diarrhea) Contraindicated with personal/family history of medullary thyroid cancer or multiple endocrine neoplasia (MEN) syndrome type 2 Worsening of retinopathy (Sema) Caution if history of pancreatitis 	



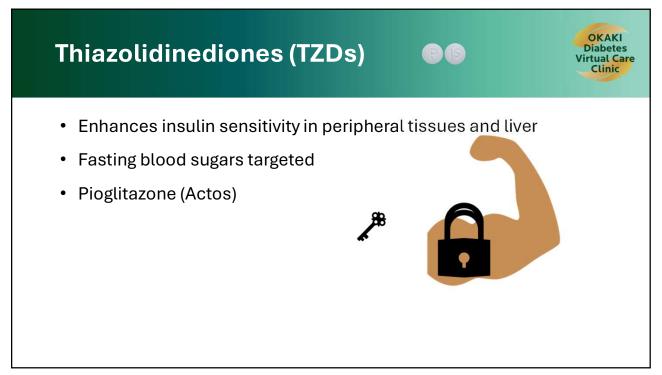




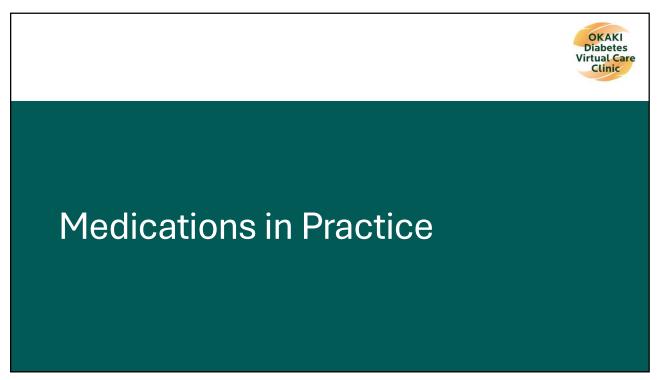




E Alph	agl	ucosidase Inhibitors	OKAKI Diabetes Virtual Care Clinic
	¢0	Inhibits pancreatic α -amylase and intestinal α -glucosidase	
	A1C	0.7-0.8% reduction	
	\$	\$\$	
	0	Weight neutral	
	Ł	Negligible risk of hypoglycemia	
	f]}	<30, use alternative agent	
	+	n/a	
	-	 GI side effects common Dosed tid Must treat hypoglycemia with milk, glucose tabs, or honey 	



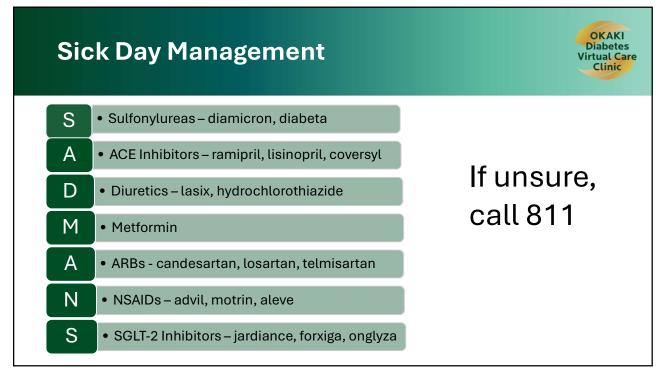
📮 Thiaz	olio	dinediones – pioglitazone, rosig	OKAKI Diabetes LitazVirtual Care Clinic
	0 0	Enhances insulin sensitivity in peripheral tissues and liver by activation of peroxisome proliferator activated receptor-activated receptor-gamma receptors	
	A1C	0.8-0.9% reduction	
	\$	\$\$\$	
	0	+ 2.5-5 kg	
	~	Negligible risk of hypoglycemia	
		<60 use with caution	
	+	Mild increase in HDL-C	
	-	 May induce edema and/or congestive heart failure Rare occurrence of macular edema Higher occurrence of fractures Pioglitazone not to be used with bladder cancer Controversy regarding MI risk for rosiglitazone 	

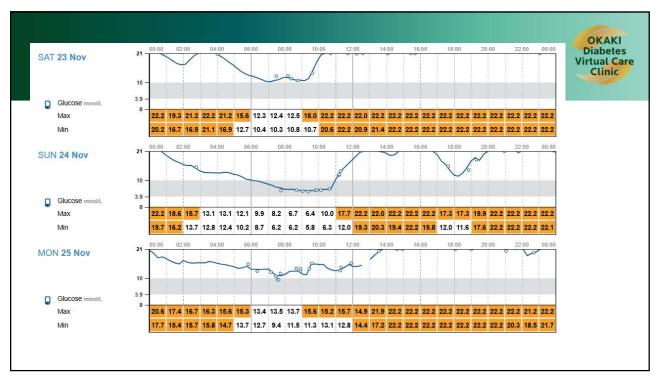


Medication Management

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- Timing
- Consistency
- Managing/understanding side effects
- Teaching why/how the meds work





	Before- Break	2 Hours After-Break	Before- Lunch	2 Hours After-Lunch	Before- Supper	2 Hours After-	Bedtime
	5.1		8.1				
 metformin 500 mg po bid 	8.1						
• Basaglar 60 units sc once daily	8.9			10		15	
 Jardiance 25 mg po once daily repaglinide 2 mg po q breakfast 	11.0						
· Tepagunide 2 mg po q breakiast	11.0						
	8.0					7.1	
	5.6			7.4			
	5.1						
	5.1			6.0			

