Practical Approaches to Type 2 Diabetes Management

SD Diabetes Coalition Fall Diabetes Conference 2018 October 20, 2018



R. Margaux Añel-Tiangco, MD

Avera Medical Group

Endocrinology and Diabetes

Disclosure

Nothing to disclose

Objectives

 Describe strategies to intensify treatment for patients with type 2 diabetes

 Discuss strategies to simplify treatment for patients with type 2 diabetes

CASE 1: K.S.

CASE 1 - K.S.

- 49/F first seen in September 2012
- DM type 2 diagnosed at the age of 43
- Was initially on metformin and glipizide
- After 5 years, was started on exenatide but had frequent hypoglycemia
- Thereafter started on glargine and linagliptin; metformin was continued; glipizide was discontinued

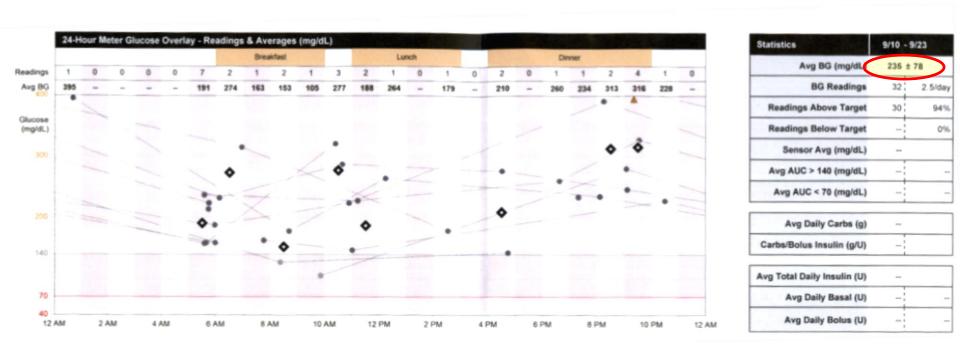
CASE 1 - K.S.

- Few months prior to endocrine consult, cut back on soda intake, limited portion sizes and lost 20-30 lbs
- Eats 3 meals daily, doesn't count carbs
 - "fond of pasta and casseroles"
- At the time of consult, was on:
 - Glargine 86 units daily
 - Linagliptin 5 mg daily
 - Metformin 1000 mg bid

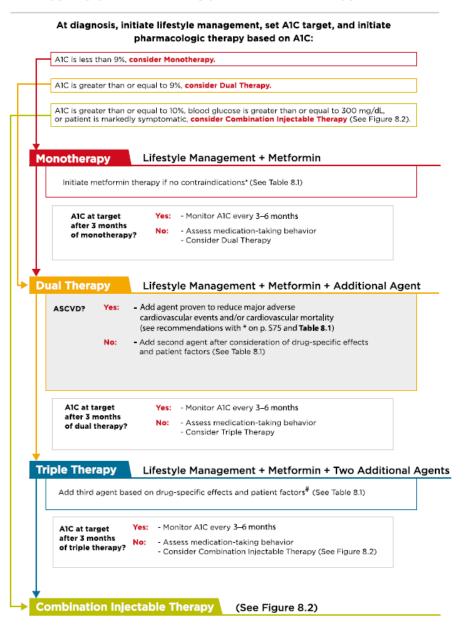
Lab Results

• On 07/25/12 HbA1c **10.4%**

K.S. Glucose Meter Download at Initial Consult



Antihyperglycemic Therapy in Adults with Type 2 Diabetes



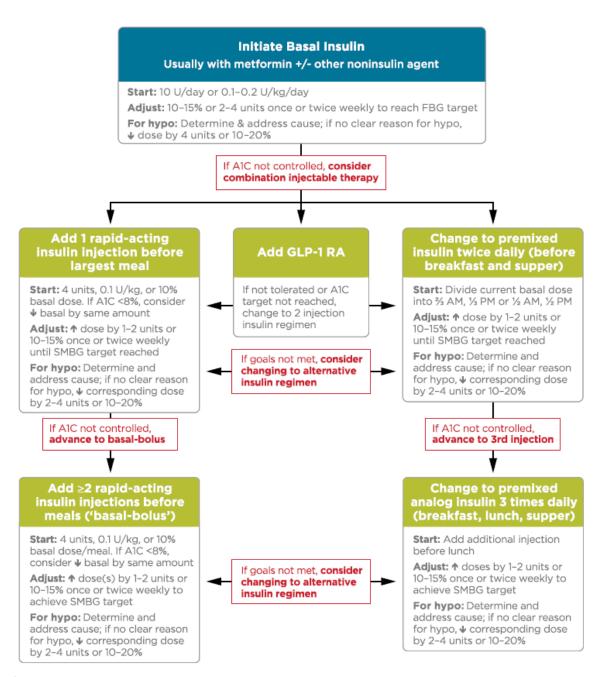


Figure 8.2—Combination injectable therapy for type 2 diabetes. FBG, fasting blood glucose; hypo, hypoglycemia. Adapted with permission from Inzucchi et al. (31).

ADA Standards of Medical Care in Diabetes - 2018

Summary of glucose-lowering interventions

Intervention	Expected decrease in A1C with monotherapy (%)	Advantages	Disadvantages		
Step 1: Initial therapy					
Lifestyle change to decrease weight and increase activity	1.0 to 2.0	Broad benefits	Insufficient for most within first year owing to inadequate weight loss and weight regain		
Metformin (usually 1700 to 2000 mg per day)	1.0 to 2.0	Weight neutral	GI side effects, contraindicated with renal insufficiency (eGFR <30 mL/min)*		
Step 2: Additional therapy					
Insulin (usually with a single daily injection of intermediate- or long-acting insulin initially)	1.5 to 3.5	No dose limit, rapidly effective, improved lipid profile	One to four injections daily, monitoring, weight gain, hypoglycemia, analogues are expensive		
Sulfonylurea (shorter-acting agents preferred)	1.0 to 2.0	Rapidly effective	Weight gain, hypoglycemia (especially with glibenclamide or chlorpropamide)		
GLP-1 agonist (daily to weekly injections)	0.5 to 1.0	Weight loss, reduced cardiovascular mortality (liraglutide, semaglutide) in patients with established CVD	Requires injection, frequent GI side effects, long-term safety not established, expensive		
Thiazolidinedione	0.5 to 1.4	Improved lipid profile (pioglitazone), potential decrease in MI (pioglitazone)	Fluid retention, HF, weight gain, bone fractures, potential increase in MI (rosiglitazone) and bladder cancer (pioglitazone)		
Glinide	0.5 to 1.5¶	Rapidly effective	Weight gain, three times/day dosing, hypoglycemia		
SGLT2 inhibitor	0.5 to 0.7	Weight loss, reduction in systolic blood pressure, reduced cardiovascular mortality in patients with established CVD	Vulvovaginal candidiasis, urinary tract infections, bone fractures, lower limb amputations, acute kidney injury, DKA, long- term safety not established		
DPP-4 inhibitor	0.5 to 0.8	Weight neutral	Long-term safety not established, expensive, possible increased risk of HF with saxagliptin		
Alpha-glucosidase inhibitor	0.5 to 0.8	Weight neutral	Frequent GI side effects, three times/day dosing		
Pramlintide	0.5 to 1.0	Weight loss	Three injections daily, frequent GI side effects, long-term safety not established, expensive		

A1C: glycated hemoglobin; GI: gastrointestinal; eGFR: estimated glomerular filtration rate; GLP-1: glucagon-like protein-1; CVD: cardiovascular disease; MI: myocardial infarction; HF: heart failure; SGLT2: sodium-glucose co-transporter 2; DKA: diabetic ketoacidosis; DPP-4: dipeptidyl peptidase-4.

Modified with permission from: Nathan DM, Buse JB, Davidson MB, et al. Medical Management of Hyperglycemia in Type 2 Diabetes: A Consensus Algorithm for the Initiation and Adjustment of Therapy: A consensus statement of the American Diabetes Association and the European Association for the Study of Diabetes. Diabetes Care 2009; 32:193-203. Copyright © 2009 American Diabetes.

^{*} Initiation is contraindicated with eGFR <30 mL/min and not recommended with eGFR 30 to 45 mL/min.

[¶] Repaglinide is more effective in lowering A1C than nateglinide.

CASE 1 - K.S.

• Plan:

- Refer to DM Ed
- Decrease glargine 40 units qhs, increase by 3 units
 q3 days until goal fasting is 150
- Start aspart 12 units tid ac and aspart ISS2/50>150 ac and hs
- Continue metformin 1000 mg bid
- Discontinue linagliptin
- Turn in glucose logs every 2 weeks

DIABETES SELF-MANAGEMENT EDUCATION AND SUPPORT (DSMES)

Kalli Kurtenbach, RDN, LN, CDE Mary Oyos, RN, MS, BC-ADM, CDE

Diabetes Self-Management Education and Support (DSMES)

- Team approach
 - RD & RN assess together
 - Develop collaborative plan
- Patient "homework" before appointment
 - Health/current self-care practices questionnaire
 - Food log
 - Facilitates self-reflection
 - May help prepare for change & goal setting

DSMES – Dietitian Assessment

- Weight loss experience
- Food preferences
- Allergies
- Schedule
- Appetite
- Sleep
- Pain
- Cooking abilities
- Shopping availability

- Regular food & beverages choices
- Obligations work, children, grandchildren, volunteering
- Past diabetes education
- Previous carb counting experience

DSMES – Nutrition Goals

- SMART goal strategy
 - Specific
 - Measureable
 - Actionable
 - Relevant
 - Time-bound
- Identify short-term & long-term strategies

DSMES – Nutrition Goals

- Manage pasta/casseroles
- No sugary beverages
- Adequate proteins/vegetables/healthy fats
- Stress management
- Add protein to breakfast
- Carb identification
- Balanced plate
 - Examples: Eat 2 vegetables 5 days/week; no more cinnamon rolls at breakfast

DSMES – Nutrition Education

- Initial visit
 - Carb counting/constant carb
 - Plate method
 - Healthy eating
- Identify strengths
 - Eating often enough
 - Eliminating soda
 - Recent weight loss
- Lifestyle change strategies
- Motivation

DSMES – Nurse Assessment

- Previous diabetes education
- Glucose monitoring
 - Meter type & age
 - Current test strips
 - Lancet device/how often lancet changed
 - Testing frequency & times
 - Goal range
- Activity
 - Type, frequency, duration, limitations
- Hypoglycemia
 - Frequency
 - Symptoms
 - Treatment

- Insulin
 - Type & dose
 - Timing of administration
 - Pen or vial/syringe
 - Injection sites & rotation
 - Lipodystrophy/lipohypertrophy
 - How often doses are missed
 - Duration vial/pen is used
- Other chronic conditions
- Mental health concerns affecting self-care

DSMES - Other Goals & Education

- Check glucoses QID & record results; report to physician for medication adjustments
- Regular activity
 - Aerobic activity ≥150 min/week
 - Spread over at least 3 days/week
 - No more than 2 consecutive days w/o activity
 - Resistance exercise 2-3 sessions/week
 - Customize based on abilities/limitations
- Hypoglycemia recognition & treatment
- Insulin dose, timing, administration
- Coping, motivation and behavior change

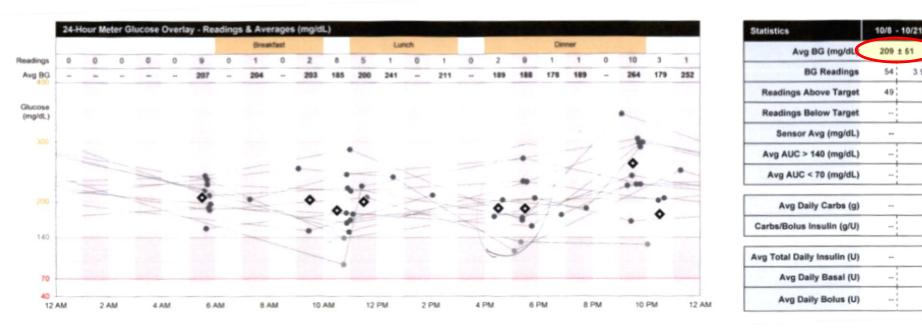
K.S. 1-Month Follow-up

- Was keeping carbs consistent with meals
- No regular exercise
- Medications:
 - Glargine 58 units qhs
 - Aspart 12-12-15, sliding scale 3/50>150 ac and hs
- HbA1c **9.1%** ← 10.4%

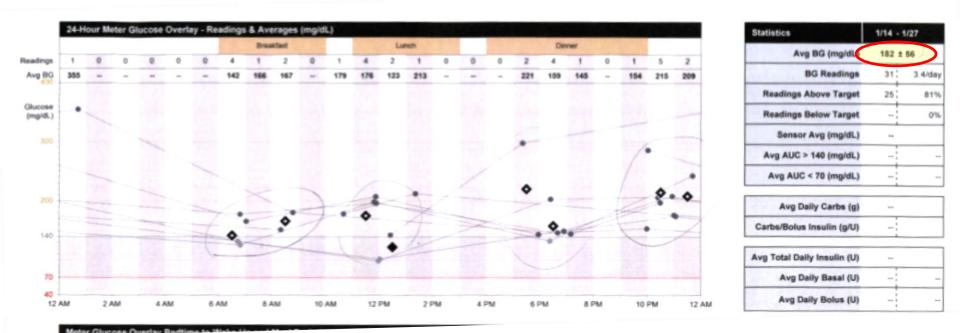
K.S. Glucose Meter Download at 1-Month Follow-up (Oct. 2012)

3.9/day

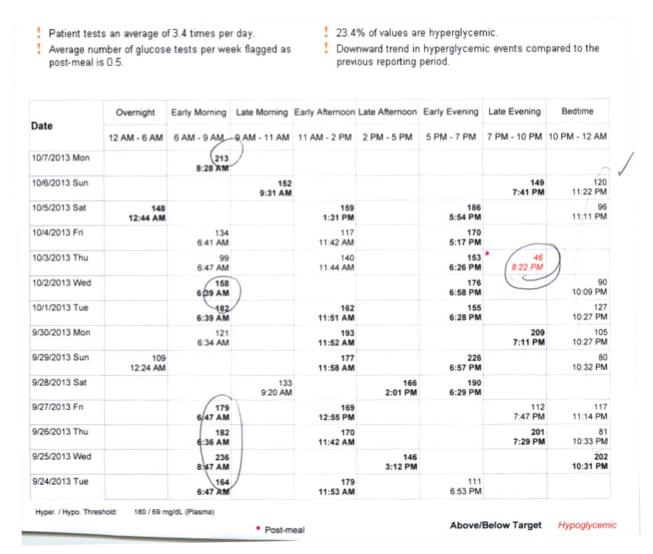
91%



K.S. Glucose Meter Download at 4-Month Follow-up (Jan. 2013)



K.S. Glucose Meter Download at 1-Year Follow-up (Jan. 2013)

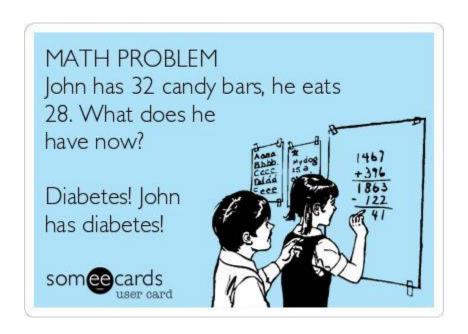


K.S. Current Status

- Most recent visit July 2018
 - Glargine 37 bid
 - Aspart 17-25-37
 - Aspart ISS 3-5-7-9-11 > 150 at ac, 0-2-3-4-5 at hs
 - Metformin 1000 mg bid
- HbA1c 6.2%

K.S. HbA1c trend over 8 years

Date	Time	Result	Units
6/28/18	08:04	6.2 H E	%
6/22/17	10:00	6.8 H 💭	%
8/22/16	17:32	6.4 H	%
2/5/16	08:16	6.9 н 🗘	%
10/8/15	14:04	7.3 Н 💭	%
7/15/15	11:48	6.9 н 🗘	%
4/7/14	09:14	7.0 H	%
12/20/13	08:03	6.8 н 🗘	%
8/7/13	08:35	7.4 H 💭	%
4/23/13	11:25	7.7 H 💭	%
1/21/13	08:22	7.6 H 💭	%
10/16/12	08:13	9.1 H ♀	%
7/25/12	11:44	10.4 H	%
3/21/12	08:14	10.4 H	%
11/29/11	08:05	10.5 H	%
7/28/11	08:15	10.2 H 💭	%
4/27/11	08:30	9.6 H	%
11/30/10	08:25	7.3 H	%
7/15/10	08:45	6.9 H 💭	%



QUESTIONS ABOUT CASE 1?

CASE 2: S.F.

Case 2 - S.F.

- 56/F first seen July 2017 during hospitalization for anterior abdominal wall abscess
 - No known h/o of DM
 - Strong family h/o of DM in mother, mGF, maternal uncle, and possibly brother
 - Surgery 7/12/17: Open sigmoid resection with splenic flexure mobilization; found intraoperatively to have a perforated diverticulum

S.F. - Inpatient Fingerstick Glucose Readings

7/13/17	00:03	236 H	mg/dL
7/12/17	21:22	237 H	mg/dL
7/12/17	17:18	231 H	mg/dL
7/12/17	10:38	257 H	mg/dL
7/12/17	08:57	288 H	mg/dL
7/12/17	06:52	288 H	mg/dL
7/12/17	00:15	211 H	mg/dL
7/11/17	18:00	184 H	mg/dL

Case 2 - S.F.

- 7/13/17 HbA1c **8.9**%
- Was started on NPH 5 units bid and aspart sliding scale 2/50>150 ac and hs
- Consult placed for endocrinology
- Transitioned over to glargine and aspart
- Received inpatient DM Ed
- Sent home on:
 - Glargine 15 units qhs
 - Aspart 5 units tid ac

DSMES – INPATIENT FOCUS

DSMES – Inpatient Focus

- Survival skills
 - What is DM
 - Blood glucose monitoring
 - Medication/insulin administration
 - Hypoglycemia
 - Nutrition strategies
- Future referral for comprehensive outpatient education

DSMES – Dietitian Assessment

- Experience w/ mother's DM, carb counting, diet influence
- Current typical daily eating
- Recent appetite history
- Weight history
- Weight goals

- Medication regimen
- Cooking ability
- Where meals come from
- Identify strengths
 - Weight progress
 - Eating often enough

DSMES – Nutrition Goals

- Accurate carb identification
- Adhere to constant carb regimen
- Avoid sugary beverages
- Pursue balanced plate
 - Aid healing
 - Adequate protein

DSMES – Nutrition Education

- Constant carb for mealtime insulin dosing
- Carb identification
- Healthy eating
 - Cooking
 - Shopping
 - Resources
- Eating often enough

DSMES – Nurse Assessment

- Experience w/ mother's DM
- Feelings about DM dx when hospitalized with other primary dx
- Daily schedule

- Activity
 - Prior to admission
 - Desire to add/change
- Living situation
 - Number in home
 - Ability to assist
- Finances
 - Insurance status
 - Ability to pay for diabetes medications and supplies

DSMES – Other Goals & Education

- Explanation of DM and treatment plan
- Glucose monitoring
 - Provide/obtain meter (insurance considerations)
 - Check QID, record results, report to physician
- Insulin
 - Insurance coverage of vial/syringe or pen
 - Type, dose & time to take
 - Administration
- Hypoglycemia symptoms & treatment
- Home schedule
- Discharge prescriptions

S.F. - 2-month Post-hospitalization Endocrine Follow-up

- Sept. 2017
- Pt had gotten confused with her discharge instructions and was taking glargine 5 units qhs and aspart 5 units tid ac
- Was now counting carbs, limiting to:
 - 15-30 g with breakfast
 - 15-45 g with lunch
 - 15-30 g with supper
 - Occasional snack, limiting to 15 g or less

S.F. Glucose Meter Download at 2-Month Follow-up (Sept. 2017)

Date	Overnight	Early Morning	Late Morning	Early Afternoon	Late Afternoon	Early Evening	Late Evening	Bedtime
Date	12 AM - 6 AM	6 AM - 9 AM	9 AM - 11 AM	11 AM - 2 PM	2 PM - 5 PM	5 PM - 7 PM	7 PM - 10 PM	10 PM - 12 AM
9/27/2017 Wed				108 11:06 AM				
9/26/2017 Tue			113 10:24 AM		120 2:22 PM	100 6:48 PM		13: 11:13 PM
9/25/2017 Mon			114 10:44 AM		114 3:13 PM	\$:53 PM		13 10:26 Pf
9/24/2017 Sun		122 8:10 AM			106 4:17 PM		111 7:43 PM	11 10:53 PM
9/23/2017 Sat			124 10:11 AM			109 5:28 PM		11:53 PM
								11:54 PN
9/22/2017 Fri				109 12:06 PM	116 2:57 PM		109 7:11 PM	9- 11:40 PM
9/21/2017 Thu	103 12:01 AM		130 9:10 AM	113 1:09 PM		139 6:25 PM		10 11:08 PM
9/20/2017 Wed	103 12:21 AM			132 11:33 AM	127 2:05 PM	99 6:55 PM		
9/19/2017 Tue			145 9:24 AM	110 12:59 PM		111 6:26 PM		
9/18/2017 Mon			122 10:24 AM		90 2:01 PM	83 6:16 PM		10: 11:08 PM
9/17/2017 Sun			109 10:51 AM		108 3:38 PM	106 6:17 PM		10:10 PM
9/16/2017 Sat			129 9:43 AM		124 3:25 PM		99 7:33 PM	11:43 PN
9/15/2017 Fri	102 1:03 AM			128 11:32 AM				12: 11:07 PM
9/14/2017 Thu				127 11:19 AM	97 2:21 PM	116 6:46 PM		
9/13/2017 Wed	120 12:02 AM		107 10:04 AM	127 1:14 PM		100 6:28 PM		10:42 PM
9/12/2017 Tue			130 9:23 AM	117 1:59 PM		73 6:46 PM		
9/11/2017 Mon		115 7:44 AM			128 2:28 PM	120 5:51 PM		91 11:23 PM
9/10/2017 Sun			113 10:26 AM		96 2:31 PM	91 6:46 PM		10:54 PM
9/9/2017 Sat				128 11:25 AM	138 4:31 PM	94 6:37 PM		94 11:42 PM
9/8/2017 Fri	109 12:02 AM		126 9:55 AM	116 1:53 PM		109 6:16 PM		10:16 PM
9/7/2017 Thu			110 9:04 AM	105 1:13 PM		109 6:52 PM		abali

Date	Overnight	Early Morning	Late Morning	Early Afternoon	Late Afternoon	Early Evening	Late Evening	Bedtime
	12 AM - 6 AM	6 AM - 9 AM	9 AM - 11 AM	11 AM - 2 PM	2 PM - 5 PM	5 PM - 7 PM	7 PM - 10 PM	10 PM - 12 AM
9/6/2017 Wed	111 12:34 AM		119 10:58 AM		97 2:44 PM	109 6:58 PM		123 11:38 PM
9/5/2017 Tue			122 9:15 AM	139 1:28 PM		119 6:28 PM		
9/4/2017 Mon	107 12:20 AM			132 11:38 AM	95 3:52 PM	124 5:41 PM		
9/3/2017 Sun	105 12:18 AM			106 12:04 PM	93 4:32 PM		110 7:24 PM	
9/2/2017 Sat				123 11:24 AM	99 4:26 PM	97 6:13 PM		
9/1/2017 Fri	117 12:08 AM			128 11:40 AM	102 3:51 PM	89 5:35 PM		125 10:28 PM
8/31/2017 Thu	99 12:48 AM			112 11:41 AM		109 6:48 PM		
8/30/2017 Wed			100 10:26 AM		126 2:41 PM		141 7:44 PM	
8/29/2017 Tue	113 12:05 AM			110 11:47 AM	133 3:49 PM	97 6:46 PM		98 11:35 PM

Hyper. / Hypo. Threshold: 180 / 69 mg/dL (Plasma)

Above/Below Target Hypoglycemic

Glucose Statistics - mg/dL (Plasma)

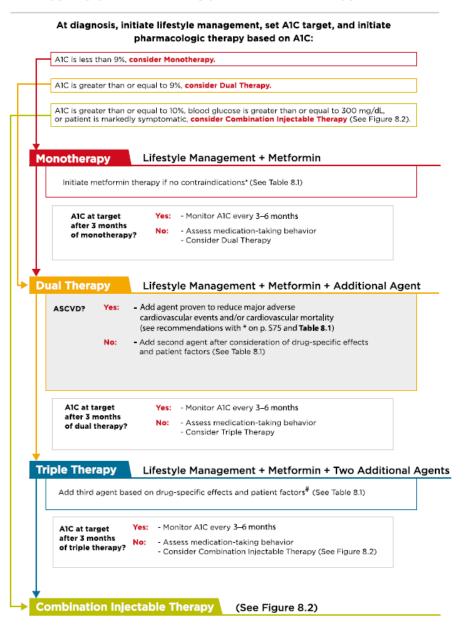
	Overall	Overnight	Early Morning	Late Morning	Early Afternoon	Late Afternoon	Early Evening	Late Evening	Bedtime
	Overall	12 AM - 6 AM	6 AM - 9 AM	9 AM - 11 AM	11 AM - 2 PM	2 PM - 5 PM	5 PM - 7 PM	7 PM - 10 PM	10 PM - 12 AM
Highest	145	120	122	145	139	138	139	141	138
Median	110.0	107.0	118.5	120.5	117.0	108.0	106.0	110.0	102.0
Mean	111.0	108.1	118.5	119.6	119.5	111.0	102.9	114.0	105.3
Variability*	22.5	10.0		16.0	18.0	29.0	17.0	22.0	27.0
Standard Deviation	15.2	6.6	4.9	11.2	10.5	15.2	16.6	15.8	17.5
Lowest	64	99	115	100	105	90	64	99	74
No. of Tests	114	11	2	16	19	19	23	5	19
% Hypoglycemic	0.9	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0
% Above Target	1.8	0.0	0.0	6.3	0.0	0.0	0.0	20.0	0.0

^{*} Variability is the difference between the 75th and 25th percentiles. It is also known as the 'Inter-Quartile Range

S.F. 2-Month Follow-up

• HbA1c **5.7%** ← 8.9%

Antihyperglycemic Therapy in Adults with Type 2 Diabetes



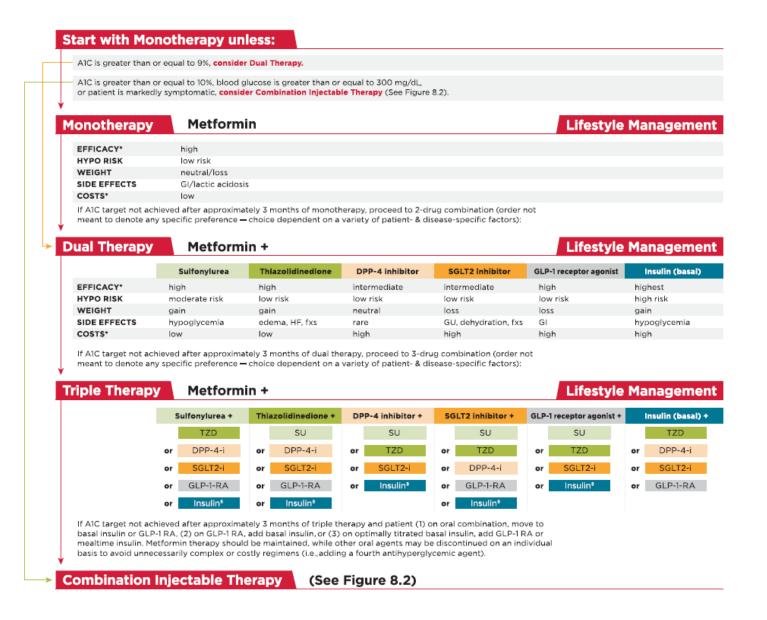


Table 8.1—Drug-specific and patient factors to consider when selecting antihyperglycemic treatment in adults with type 2 diabetes

		Efficacy*	Hypoglycemia	Weight	CV Effe	ects	Cost	Ora l /SQ	Rena	l Effects	Additional Considerations	
				Change	ASCVD	CHF		o.u.z sq	Progression of DKD	Dosing/Use considerations	Additional Considerations	
Metformin		High	No	Neutral (Potential for Modest Loss)	Potential Benefit	Neutral	Low	Oral	Neutral	Contraindicated with eGFR <30	Gastrointestinal side effects common (diarrhea, nausea) Potential for B12 deficiency	
SGLT-2 Inhi	bitors	Intermediate	No	Loss	Benefit: canagliflozin, empagliflozin [†]	Benefit: canagliflozin, empagliflozin	High	Oral	Benefit canagliflozin, empagliflozin	Canagliflozin: not recommended with eGFR <45 Dapagliflozin: not recommended with eGFR <60; contraindicated with eGFR <30 Empagliflozin: contraindicated with eGFR <30 Empagliflozin: contraindicated with eGFR <30	■ FDA Black Box: Risk of amputation (canagliflozin) ■ Risk of bone fractures (canagliflozin) □ DKA risk (all agents, rare in TZDM) ■ Genitourinary infections ■ Risk of volume depletion, hypotension ■ ↑LDL cholesterol	
GLP-1 RAs		High	No	Loss	Neutral: lixisenatide, exenatide extended release Benefit: liraglutide [†]	Neutral	High	SQ	Benefit: liraglutide	Exenatide: not indicated with eGFR <30 Lixisenatide: caution with eGFR <30 Increased risk of side effects in patients with renal impairment Exercises of the control of t	FDA Black Box: Risk of thyroid C-cell tumors (liraglutide, albiglutide, dulaglutide, exenatide extended release) Gastrointestinal side effects common (nausea, vomiting, dlarrhea) Injection site reactions Acute pancreatitis risk	
DPP-4 Inhil	bitors	Intermediate	No	Neutral	Neutral	Potential Risk: saxagliptin, alogliptin	High	Oral	Neutral	Renal dose adjustment required; can be used in renal impairment	Potential risk of acute pancreatitis Joint pain	
Thiazolidin	ediones	High	No	Gain	Potential Benefit: ploglitazone	Increased Risk	Low	Oral	Neutral	No dose adjustment required Generally not recommended in renal impairment due to potential for fluid retention	■ FDA Black Box: Congestive heart failure [pioglitazone, rosiglitazone] ■ Fluid retention (edema; heart failure) ■ Benefit in NASH ■ Risk of bone fractures ■ Bladder cancer (pioglitazone) ■ ↑LDL cholesterol (rosiglitazone)	
Sulfonylure (2nd Gener		High	Yes	Gain	Neutral	Neutral	Low	Oral	Neutral	Glyburide: not recommended Glipizide & glimepiride: initiate conservatively to avoid hypoglycemia	FDA Special Warning on increased risk of cardiovascular mortality based on studies of an older sulfonylurea (tolbutamide)	
Insulin	Human Insulin	Highest	Yes	Gain	Neutral	Neutral	Low	SQ	Neutral	Lower insulin doses required with a decrease in eGFR; titrate	Injection site reactions Higher risk of hypoglycemia with human insulin (NPH or premixed)	
	Analogs						High	SQ		per dinical response	formulations) vs. analogs	

^{*}See ref. 31 for description of efficacy. †FDA approved for CVD benefit. CVD, cardiovascular disease; DKA, diabetic ketoacidosis; DKD, diabetic kidney disease; NASH, nonalcoholic steatohepatitis; RAs, receptor agonists; SQ, subcutaneous; T2DM, type 2 diabetes.

S.F. 2-Month Follow-up

• Plan:

- Stop glargine and aspart
- Pt was given the option of starting 2 oral medications or Soliqua® (glargine and lixisenatide)
 - Pt chose Soliqua®
- Start Soliqua® 15 units daily

S.F. Glucose Meter Download at 10-Month Follow-up (May 2018)

Date	Overnight	Early Morning	Late Morning	Early Afternoon	Late Afternoon	Early Evening	Late Evening	Bedtime
	12 AM - 6 AM	6 AM - 9 AM	9 AM - 11 AM	11 AM - 2 PM	2 PM - 5 PM	5 PM - 7 PM	7 PM - 10 PM	10 PM - 12 AM
4/9/2018 Mon					105 2:43 PM			
4/8/2018 Sun							86 7:03 PM	
4/7/2018 Sat					125 2:41 PM			
4/6/2018 Fri					105 2:59 PM		4 14	
4/5/2018 Thu					251 3:07 PM			
4/4/2018 Wed					118 4:13 PM			

Hyper. / Hypo. Threshold:

180 / 69 mg/dL (Plasma)

Above/Below Target

Glucose Statistics - mg/dL (Plasma)

	Overall	Overnight	Early Morning	Late Morning	Early Afternoon	Late Afternoon	Early Evening	Late Evening	Bedtime
		12 AM - 6 AM	6 AM - 9 AM	9 AM - 11 AM	11 AM - 2 PM	2 PM - 5 PM	5 PM - 7 PM	7 PM - 10 PM	10 PM - 12 AM
Highest	251					251	86	107	
Median	113.0					114.0		96.5	
Mean	119.3					122.4	86.0	96.5	
Variability*	21.0					21.5			
Standard Deviation	32.4					32.7		14.8	
Lowest	84					84	86	86	
No. of Tests	28					25	1	2	
% Hypoglycemic	0.0					0.0	0.0	0.0	
% Above Target	10.7					12.0	0.0	0.0	

S.F. 10-Month Follow-up

- On Soliqua® 15 units daily
- Checks glucoses 2H post-lunch
- HbA1c 6.3%
- Plan:
 - Continue Soliqua® 15 units daily

S.F. Current Status

- Pt called me early Sept., noticed pustules over previous sites of Soliqua® injection
- States she has a h/o allergy to metals and thinks she is allergic to the needles
- Has also noticed some pustules after fingerstick glucoses are checked with lancet
- Pt requested to go off Soliqua®

S.F. Current Status

• Plan:

- Stop Soliqua[®]
- Start Metformin 1000 mg bid and Jardiance 10 mg daily

QUESTIONS?

Laughter is the best medicine....Well, unless you're a diabetic. Then, insulin is probably better.

somecards
user card