Patient Cases, Panel Discussion, and Audience Q & A

Case 2

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The patient is a 57-year-old African American female smoker who presents with an eleven-year history of type 2 diabetes, for which she's been taking insulin since the onset. She also suffers from depression and eczema. She has been on Lantus insulin since her diagnosis and also takes Humalog insulin

Labs:

A1c 9.0

All other labs are normal.

She is agreeable to adopting a low-carb diet with a goal of taking less than 30 total carbs per day.



ARS Question 1:

- If this patient adopts a low-carb diet, what adjustments to her mealtime insulin should be considered to help match her glucose spikes to the insulin being utilized
- A) Continue with Humalog
- B) Switch to Humulin
- C) Switch to Novolog
- D) Switch to NPH



Insulin Type	Onset	Duration
Rapid-acting inhaled	10 to 15 minutes	3 hours
Regular/short acting	30 minutes	3 to 6 hours
Intermediate acting	2 to 4 hours	12 to 18 hours
Long acting	2 hours	Up to 24 hours



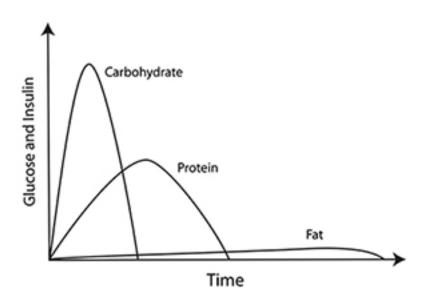
ARS Question 2:

She is interested in making sure she is in ketosis. What is the most reliable indicator of clinically relevant ketosis:

- A) Acetone
- B) Acetoacetone
- C) B-Hydroxybutyrate
- D) Ketone bodies



Glucose/Insulin Reaction to Macronutrients



ARS Question 3:

Patient desires getting off insulin. What test helps her best know her risk for having Type 1 diabetes after having diabetes for over 11 years:

- A) Fasting insulin
- B) Islet cell antibodies
- C) C peptide
- D) Anti-GAD65 (glutamic acid decarboxylase antibody)



Case 3

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48-year-old with history of hypertension and anxiety. Since having COVID-19, the loss of her mom, aunt, and sister she's been having anxiety. She's continued to have elevated blood pressures with a blood pressure on presentation of 160/60

ARS Question 1:

Ketosis benefits our mental health by improving all the following except:

- A) Mitochondrial function
- B) Reduces oxidative stress and inflammation.
- C) Favorably impacts microbiota
- D) Reduces the neurotransmitter GABA



ARS Question 2:

Anxiety's impact on blood pressure is related to all except:

- A) Cortisol elevation
- B) Increased renin activity
- C) Reduced angiotensin 2
- D) Negatively impacts endothelial function



Open discussion about the Keto for Refractory Mental Illness study https://www.frontiersin.org/journals/psychiatry/articles/10.3389/fpsy t.2022.951376/full

