

CONFLICT OF INTEREST

Ohman-Hanson: I have nothing to disclose. **Fay-Itzkowitz:** I have nothing to disclose.



ACKNOWLEDGEMENT

Slides adapted with permission from **Brigitte Frohnert**, MD (*Barbara Davis Center for Childhood Diabetes*)



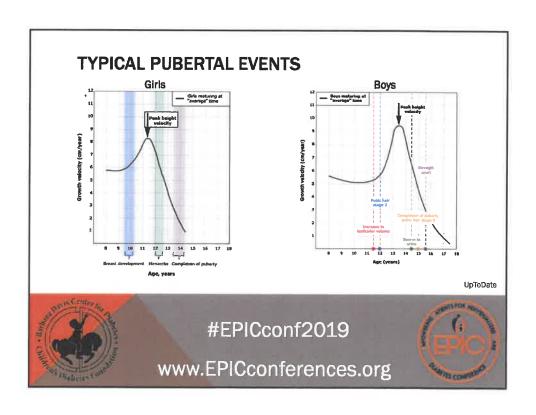
GOALS/OBJECTIVES

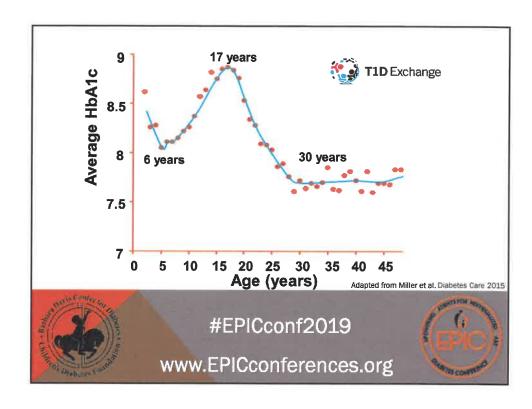
- · Metabolic changes during puberty
- Pubertal hormones: impact on diabetes control
- Beyond hormones: what else is going on that can impact diabetes management?
- How can you navigate this time more successfully?



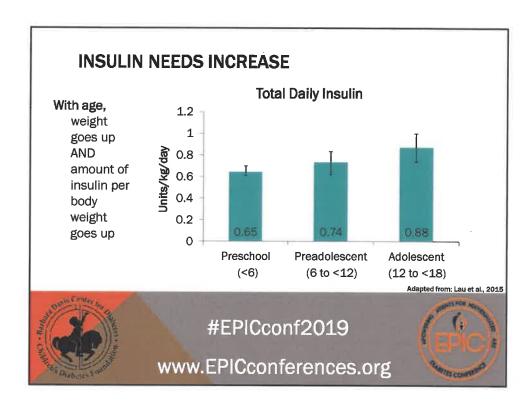












OH, THE HORMONES!

Puberty hormones: glucose variability and insulin resistance

Estrogen / Progesterone

Testosterone (androgens)

Growth hormone

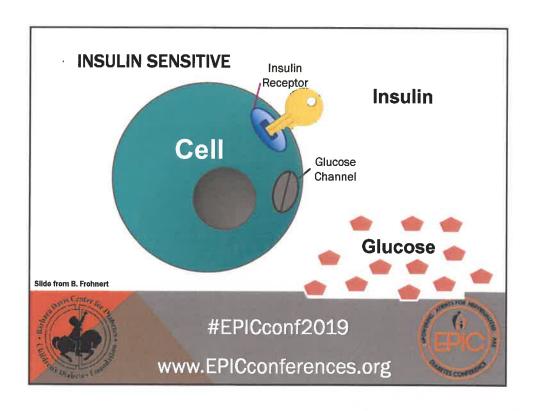
Stress hormones: cause release of glucose from the liver

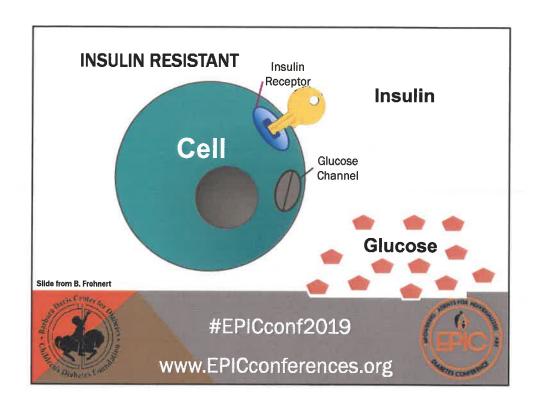
Cortisol

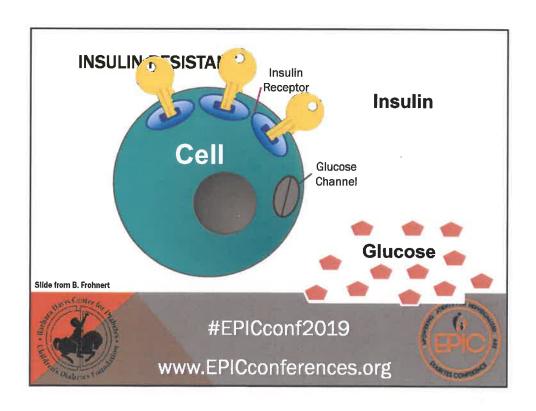
Epinephrine (adrenaline)

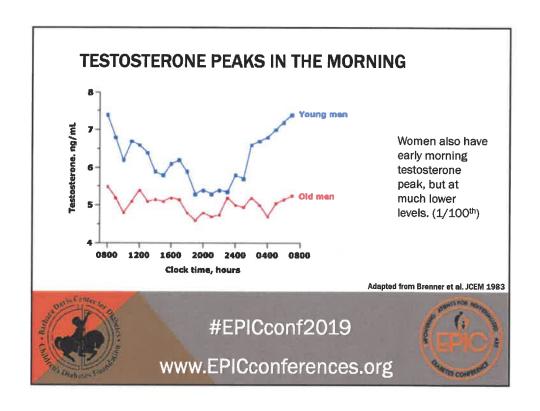


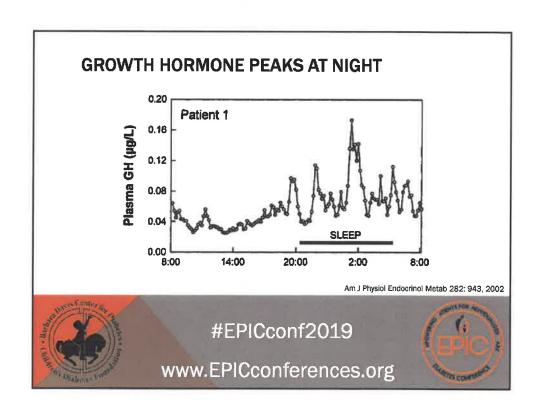


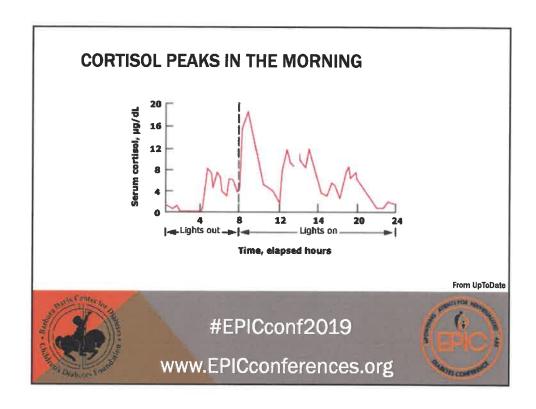


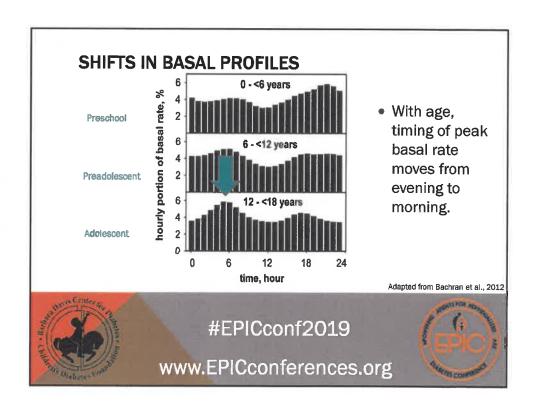












BEYOND HORMONAL CHANGES...

Typical teenagers!

Want to be like peers

Need for privacy

Keep diabetes secret

Need for Autonomy

- Move from wanting to please parents to wanting to be in control
- May want to control what numbers you see, or tell you what you want to hear.

Mood swings

There's a lot going on

- May be distracted and forgetful
- Diabetes is not always THEIR priority

Body image becomes more important

- Worry about weight
- May be opposed to pumps/CGM etc

Spending more time with peers

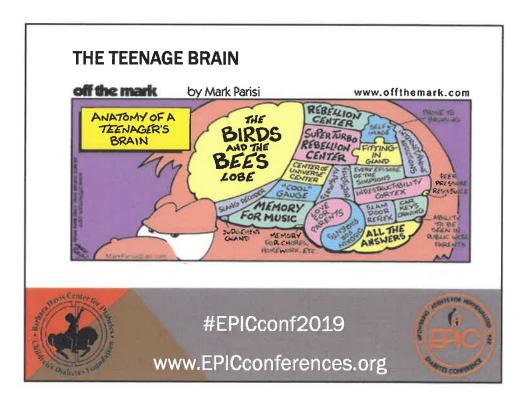
- Making more of their own food choices
- Less structure to their time

Slide from B. Frohnert



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SO, WHAT CAN YOU DO?

Be prepared for change

Be flexible (every child is different, diabetes is different in every child)



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GATHER DATA!

- Overall numbers/trends (outgrown doses?)
- Overnight trends (basal needs)
- Exercise → glucose pattern



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STAY INVOLVED!

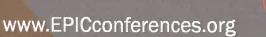


Be present:

- · It's not just THEIR diabetes, it's the family's diabetes
- Everyone's lives are busy
 - Find a time each day to watch at least one BG check or one insulin dose
- · Take on some of the "grunt work" of diabetes:
 - Be in charge of AM glucose check
 - Be in charge of long-acting insulin injection
 - · Offer a "diabetes vacation day"
 - Caregiver does all BG checks, counts all carbs, gives all injections.



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BE A TEAM PLAYER

Allow teen to make choices:

"I am going to help make sure you are checking BG regularly. How would this work best for you?"

- Text message?
- · Post-it note?
- Delegating reminders to sibling/friend?
- Alarm on smart phone?
- · Leave meter out at night?





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AUTONOMY

Engage teen in decisions

- · What is working well?
- What are the problem areas?
- What do you think might help?
- Medical visits:
 - Allow teen to answer questions first
 - Encourage teen to have time alone with provider to communicate needs





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CHILD FIRST, DIABETES SECOND

- Talk to your child/teen about something OTHER than diabetes
- First question is NOT "what is your number?"
- Numbers aren't "bad": they are information for a decision (More insulin? Less insulin? Change in plan?)



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IT'S OK TO SET LIMITS AND EXPECTATIONS

IF YOU ARE GOING OUT YOU NEED TO:

- · Tell me where you are going
- Tell me who you are with
- Be home by ____
- Check your BG when needed
- · Give insulin when needed
- Have your supplies with you

IF YOU ARE DRIVING YOU NEED TO:

- · No texting while driving
- No driving while under the influence
- Abide by traffic laws
- Check BG before driving
- Keep snack in car
- Wear medical alert ID



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IT'S OK TO GIVE CONSEQUENCES

Stay calm

This is not a punishment for diabetes - this is life

Praise is motivational! So are rewards.

Everyone can be grumpy when:

Hungry

Tired

Not being heard





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