My Journey with ASK
Practical Aspects of Screening for Pre-Symptomatic Type 1 Diabetes: Lessons from ASK
Autoimmunity Screening for Kids (ASK) Goals:

1. Determine frequency of pre-symptomatic T1D and celiac disease
   - Analyze cost-effectiveness of screening to move towards universal screening
   - Increase community engagement and awareness

2. Offer interventions to slow progression to diabetes
   - Prevent diabetic ketoacidosis (DKA) at diagnosis

3. Reduce complications of undiagnosed celiac disease
Evolution of ASK Screening (Then vs. Now)

2017-2020 - Hospitals, private practice, community events, various walk-in locations

2020-2022 - Fewer sites, fewer screeners, remote monitoring

2022-Present - Expanded screening methods, provider involvement has increased, ASK the Experts, utilization of existing infrastructure to facilitate ASK screening, commercial outpatient labs, home kits
Community Awareness: Media, Branding, Marketing
ASK Screening Implementation Model

Clinic needs assessment

Supplies, $, infrastructure, logistical support

Manual of operation, sub-contracts, material transfer agreements

Training, implementation

Monitoring and support

Continuous improvement
Pediatric 5280 Point of Care Collaboration

Check-in

Lipid and ASK Consult

Sample Collection
Analytes:
- Total Cholesterol
- HDL Cholesterol
- Triglycerides
- LDL Cholesterol

Autoantibodies:
- GADA
- IAA
- IA-2A
- ZnT8A
- TGA

- American Academy of Pediatrics (AAP) recommended screening for dyslipidemia in children 9 - 11 y old
- Covered by insurance

- Research
- Grant funded
- 1-17 yrs old
Keys to Successful Screening

1. Engage Providers: educational campaigns, trainings, brochures, and online resources

2. Provider advocating and backing

3. Ongoing communication
Summary: ASK Screening Progress and Key Success

• Screening can prevent DKA
• Screening is feasible
• The ASK screening implementation model can be replicated across various settings and systems
• Results are clinically actionable
• There is an existing support system with ASK, ASK the EXPERTS and the Barbara Davis Center
Acknowledgements

Marian Rewers, P.I.
Cristy Geno Rasmussen
Kim Bautista
Judy Baxter
Amber Corr
Fran Dong
Daniel Felipe-Morales
Isabel Flores Garcia
Brigitte Frohnert
Tricia Gesualdo
Michelle Hoffman
Xiaofan Jia
Rachel Karban

Maricela Munoz
Holly O’Donnell
Meghan Pauley
Flor Sepulveda
Crystal Silva
Kimber Simmons
Andrea Steck
Iman Taki
Kathy Waugh
Joey Wong
Liping Yu

Brett McQueen
Rick Bacher
David Roth
Laura Pyle
Jill Norris

Sponsors

Patten-Davis Foundation

Our ASK participants, families, and ASK provider partners

Partners

Edwin Liu, Marisa Stahl
Michelle Corrado, Mary Shull, Pooja Mehta,
Ed Hoffenberg, Monique Germone,
Sadie Nagle, Erin Sandene, Kevin Carney,
Amy Lewis, Chrisann Karr, Sondra Valdez,
Chris Martin, Alison Brent

Dan Feiten
Tracy Brekken

Martha Middlemist
Rebekah Phillips

Holly Frost
Sonja O’Leary
Kathy Love-Osborne

Children’s Hospital Colorado
Greenwood Pediatrics
PEDIATRICS 5280

Barbara Davis Center for Diabetes
UNIVERSITY OF COLORADO ANSCHUTZ MEDICAL CAMPUS

Ask the Experts

Autoimmunity Screening for Kids