



QI Collaborative Call, Pediatrics

9/22/22

# Welcome & introductions



# Agenda

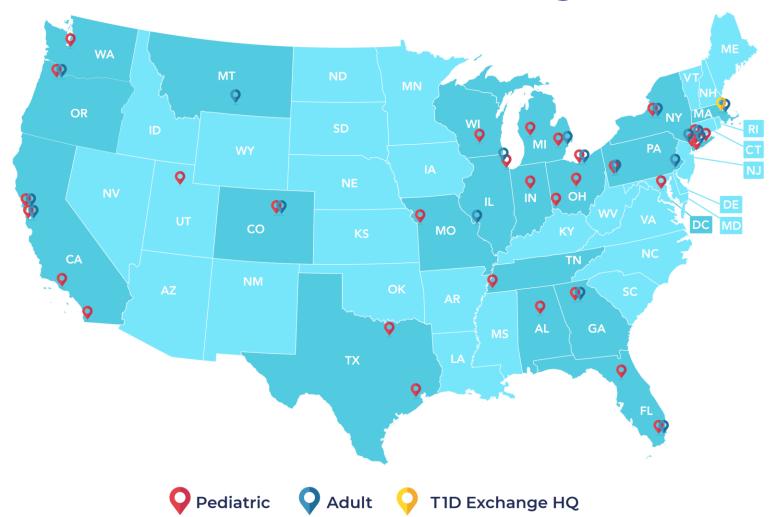
- Collaborative updates
  - New clinics joining the Collaborative
  - New TIDX-QI Team member
  - Reminders for the November Learning Session
- September Collaborative member presentations
  - Dr. Donna Eng, Helen DeVos
  - Drs. Jennifer Sarhis and Allison Mekhoubad, Cohen Children's



# T1D Exchange Updates



## TIDX-QI network of 50 centers, caring for 75,000+ TID patients across 20 states and Washington D.C.







## 32 pediatric clinics – caring for 50,000 patients with TID













**Health Care System** 





Cincinnati Children's



**Mount** Sinai Hospital





Ann & Robert H. Lurie















Children's Mercy



Children's"

























Cleveland Clinic UCSF Healt





## 18 adult clinics – caring for 25,000 patients with TID



































0 Participating C	linics, 32 Pediatric 8	18 Adult
Pediatric Clinics	Lurie Children's	Weill Con
i ediatric cirrics		70l+an Ant

Children's Mercy Hospital

Mark Clements MD PhD

Children's Hospital Los Angeles

Brian Miyazaki, MD

Cincinnati Children's Hospital

Sarah Corathers MD

**CHOA** 

Kristina Cossen MD

Cohen Children's Medical Center,

& Allison Mekhoubad DO

Cook Children's

Susan Hsieh MD

Helen Devos Children's

Donna Eng MD

Indiana University Health

Anna Neyman MD

Le Bonheur Children's, UTN

Grace Bazan MD

Barbara Davis Center Halis Akturk MD & Todd Alonso MD

Naomi Fogel MD

**Mount Sinai** Carol Levy MD & Robert Rapaport MD

Devin Steenkamp MD

at NYU Mary Pat Gallagher MD Oregon Health & Science University

Seattle Children's Hospital, Faisal Malik MD, MSHS and Alissa Roberts MD

**Grady Memorial Hospital** Sonya Haw MD Northwestern Medicine

Ines Guttmann-Bauman MD and Andrew Ahmann MD **Stanford University** Marina Basina MD & Priya Prahalad MD

Texas Children's, Daniel DeSalvo MD University of Florida Laura Jacobsen, MD

University of Utah, Intermountain

Healthcare Vandana Raman MD and Allison

Smego MD

University of Wisconsin, Madison

Liz Mann MD

Grazia Aleppo MD Penn Medicine

SUNY, Pediatrics and Adult

University of Alabama Mary Lauren Scott MD

Ilona Lorincz MD Washington University

Alexis McKee MD

Wayne State University, Berhane Seyoum

MD & Elizabeth Morrison MD

MD UCSF, Pediatrics and Adult,

Northwell Health, Jennifer Sarhis MD

Nationwide Children's Manu Kamboj MD Rady Children's Carla Demeterco Berggren MD PhD

Mott Children's Joyce Lee MD

Cleveland Clinic, Pratibha PR Rao MD MPH & Andrea Mucci MD MASc NYU Langone: Lauren Golden MD & Siham

**Pediatric and Adult Clinics** 

ornell Zoltan Antal MD **Adult Clinics** 

Albert Einstein Shivani Agarwal MD MPH **Billings Clinic** Haleigh James MD **Boston Medical Center** 

Accacha MD. Hassenfeld Children's Hospital

Ruth Weinstock MD PhD Roberto Izquierdo

Umesh Masharani MD & Jenise Wong MD **UPMC** Jason Ng MD and Alissa Guarneri, MD, **MBOE** 

University of Miami, Francesco Vendrame,

MD PhD & Janine Sanchez MD

# Welcome the University of Utah!



Dr. Raman is an Associate Professor in Pediatrics at the University of Utah. She is an Attending Physician in the Division of Pediatric Endocrinology and provides care for children with diabetes and endocrine conditions in the inpatient and outpatient settings at Primary Children's and University hospitals and clinics.

She is the Program director of Pediatric Endocrinology and Diabetes Fellowship Program at the University of Utah.

She also serves as the Director of the DIME clinic (Diabetes Intensive management and education) and collaborates with behavioral health specialists to provide comprehensive care to patients with Type 1 diabetes.



Dr. Smego is an Assistant Professor of Pediatrics in the Division of Pediatric Endocrinology at the University of Utah. She earned her medical degree from the University of Cincinnati School of Medicine. She completed residency training in Pediatrics at Vanderbilt University and her Pediatric Endocrinology fellowship at Cincinnati Children's Hospital Medical Center. Dr. Smego is board certified in General Pediatrics and is board certified in subspecialty of Pediatric Endocrinology.



## Collaborative Clinic Profile

Clinic	Multidisciplinary Team Members	Volume & Medicaid Estimates	Contact Names
Primary Children's Hospital	<ul> <li>8 Board certified or board-eligible endocrinologists</li> <li>3 Endocrinology fellows</li> <li>4 NPs</li> <li>8.5 FTE RNs</li> <li>5.2 FTE RNs with CDCES</li> <li>1.8 FTE dieticians with CDCES</li> <li>1.7 FTE Social workers</li> <li>0.5 FTE psychologist</li> </ul>	2,100 patients with T1D 200 patients with T2D 200 patients with other forms of diabetes  74% commercial insurance 25% public insurance 1% uninsured	Site Co-PI Vana Raman, MD Vana.raman@hsc.Utah.edu Allison Smego, MD Allison.smego@hsc.Utah.edu  Site Coordinator LeAnn Gubler, MSN, RN LeAnn.Gubler@imail.org





## **TIDX-QI** welcomes a new team member!



Trevon Wright, MHA
Senior Quality Improvement Analyst



# Monday Breakout, 11:05am-12:05 pm

Topic areas		Chair			
Making device access	Einstein	Le Bonheur,	Nationwide	NYU/T1DX	Alexis McKee
equitable	Tech equity with	Equitable CGM	CGM	Staffing	
	young adults	access	Continuing	FTE	
			Improvement		
			Equity		
Improving device	U of Wisconsin	Rady	Grady CGM	Seattle	Donna Eng,
access	Decreasing barriers	Increasing	access in	CGM use,	Helen DeVos
	to CGM	CGM access,	safety net	insurance,	
		decreasing		race equity	
		inequities			
Population health &	CMH	CMH	Stanford 4T	T1D	Brian Miyazaki,
data dashboards	Dashboard of Self-	Data dock:	program CDE	Registry	CHLA
	Man Habits	continuous	perspectives	SES and	
		improvement		A1c	



# Monday Breakout, 1:10 pm- 2:10 pm

Topic areas		Chair			
Building equity	СМН	CCHMC	Cook	NYU	Andrea Mucci,
through SDOH	SDOD/	Equity, care	Implementin	Screening	CCF
screening	Race/ethnicity	transformation	g SHH		
		, SDH spread	screener		
Supporting device	BDC	TCH	CCHMC	UMiami	Sonya Haw,
use	Tech support: pump	Standardizing	Remote	Tech use:	Grady
	failure	Pump therapy	pump	Hispanic	
			upload	patient	
				perspective	
Decision support &	CCHMC	CCHMC	Mich	Rady	Alissa Guarneri,
care continuity	Using AI decision	Continuity of	D3 Patient	Access and	UPMC
	support	care	driven	Continuity	
	engagement	fellowship	review, data,	for	
			insulin	Medicaid	
			changes	pts	
	I	I		I	I .



# Tuesday Breakout, 8:50-9:50 am

Topic areas		Chair				
İ			CHANGES	pro		
Developing	T1DX Publications	T1DX	T1DX	T1DX	Vandana	
Collaborative		Building QI	Data	Value:	Raman,	
Infrastructure		capacity	mapping	mapped vs	University Utah	
			errors	unmapped		
Patient engagement:	Stanford	UCSF	Cook	UCSF	Jeff Hitchcock,	
supporting through	Mental health,	Depression	Engagement	Techquity	Patient/Parent	
education, wellness	Adult	screening peds	questionnair	and peer	Advisor	
programs and mental			е	support		
health services						
Identifying, Delaying,	СМН	SUNY	СМН	NYU	Andrew	
and Reducing DKA,	Reduced delayed	Admissions	CGM	Wellness	Ahmann, OHSU	
Admissions &	DKA f/u		dashboard	for high		
Supporting High-Risk			for at risk	risk <u>, &gt;</u> 9%		
Populations			рор			



# Learning Session: Monday Nov. 7-Tuesday Nov. 8

- Agenda will be shared in October
- •Activities begin 8am on 11/7. -n person attendees are encouraged to fly in on Sunday 11/6
- •Activities end by 3pm on 11/8 so that you can fly home Tues. evening
- Activities will have CME/CEU credits

## TID Exchange will cover costs for:

- •Two team member flights and hotels for two nights (We book the hotel. You book the flights. We reimburse for economy flights.)
- •Our reimbursement form/details can be found on the TID Exchange website.
- •Use this <u>link</u> to access on the website.



# **Learning Session Deadlines**

Abstracts will be published in the Journal of Diabetes before Nov. 7<sup>th</sup>

Share your slides to Ql@tldexchange.org by 10/4/22

- •10 min slide presentation during the Learning Session
- •Presentations are bundled into thematic areas with four presentations being shared during breakouts
- •Please limit to no more than 10 slides

Share your poster to <u>QI@t1dexchange.org</u> by 10/4/22

- •36" X 48" is the preferred for poster
- •Use your institution's template/color scheme
- •Posters should have 5 sections: Background/Objective(s); Methods; Results; and Conclusion.
- •Posters should list poster authors and intuition name at the top of poster









Building a Better Bridge: Implementation of the READDY Assessment in the Transition to Adult Care

Donna Eng, MD

**SEPTEMBER 22, 2022** 



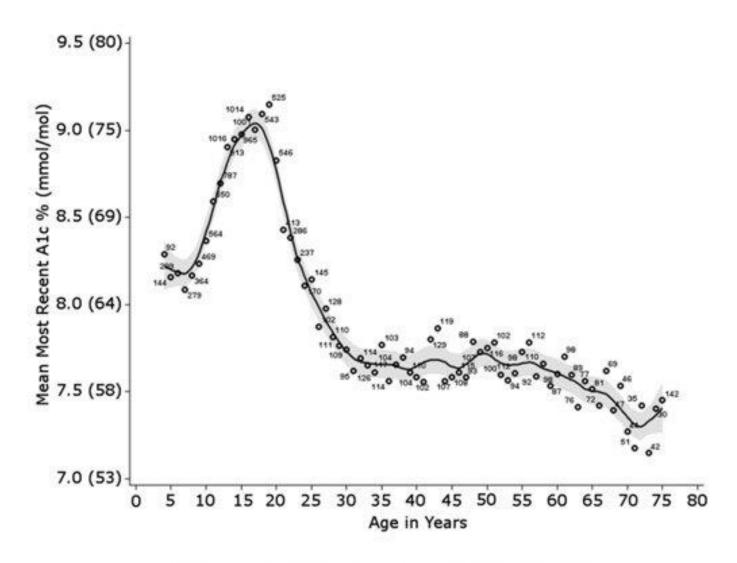
# Learning Objectives

- Identify key reasons for the importance of formal transition process to adult medical care
- Identify barriers to successful transition
- Identify one tool for assessing youth readiness for transition
- Describe a measurable outcome related to transition care



# Background

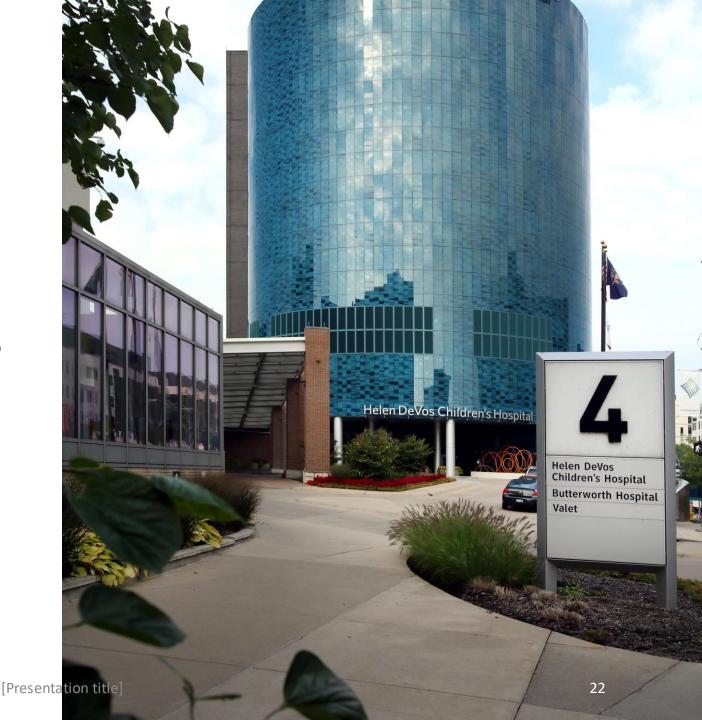
- Self-care required of chronic disease
- Time of "life" transition as well
- They may have feelings of "that won't happen to me"
- Competing priorities

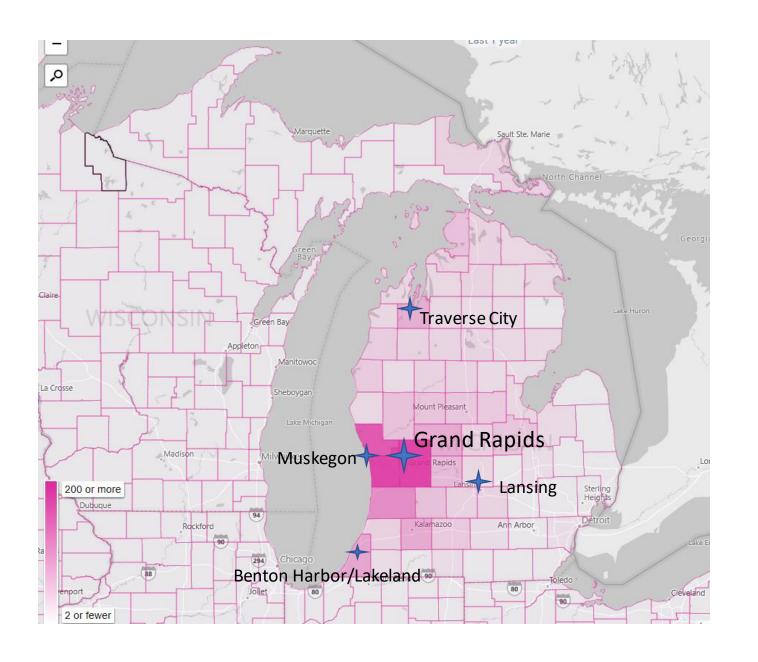


Miller et al. Diabetes Care 2015; 38:971

# Helen Devos Children's Hospital Pediatric Endocrinology and Diabetes

- Grand Rapids, MI
- Founded in 1995
- ~1500 T1D patients
- 200 new onset T1D annually
- 40% Medicaid
- 20% rural







# **READDY Assessment**

- Readiness for Emerging Adults with Diabetes Diagnosed in Youth
- Self-assessment
  - Participants rate their confidence level
- Topics
  - Diabetes Knowledge
  - Health System Navigation
  - Insulin Self-Management
  - Health Behaviors
- Reponses- Likert Scale
  - 5 Yes, I can do this
  - 4 Somewhat, but I need a little practice
  - 3 No, I still need a lot of practice
  - 2 I plan to start
  - 1 I have not thought about it

- -Corathers et al. Care Diabetes Spectr 2020; 33(1):99-103
- -Chase HP. *Understanding Diabetes* 11th ed. Aurora, Colo. Barbara Davis Center for Diabetes 2007
- -American Diabetes Association Children and adolescents: Standards of Medical Care in Diabetes—2018 Diabetes Care 2018;41 (Suppl. 1):S126- S136

#### HDVCH TRANSITION TO ADULT READDY IMPLEMENTATION

#### Workflows & Procedures

- Patients needing to complete assessment not easily identifiable
- Difficult to remember to give assessment amongst other usual clinic visit tasks
- Lack of education of staff on purpose of assessment and thus unable to educate patient on intent of assessment
- Patient does not complete assessment due to form fatigue

#### Procedure

- Staff and Patient often lack time within the office visit to cover topics
- Patient often lacks time to complete assessment
- Lack of ability to document assessment efficiently in EPIC
- Lack of ability to track who has had assessment done and when they need to be reassessed

Problem: Young adults with T1DM are inadequately prepared and supported in transitioning to adult healthcare.

### **Equity and Access**

- Limited access to Adult Endocrinologist especially in rural areas
- Challenging to maintain
   list of adult endos
- Challenging communication with adult endo practices and their referral processes
- Prolonged scheduling of initial appointment with <u>Adult</u> clinics
- Difficult to follow-up if patient actually "launched" to adult practice

#### Education

- Patients often have unrecognized differences in learning styles
- There can be an overwhelming list of topics to review
- · Knowledge gaps are difficult to identify
- Difficult to track topics that have been covered, topics that need to be covered and topics that need to be reviewed
- No plan as to who is responsible for reviewing which topics (MD vs CDE vs RD vs MSW)
- No formal determination of who is "ready" to transition

### Social/Psychological

- Stress/Anxiety/Fear associated with more independence and change
- Lack of family support/stability



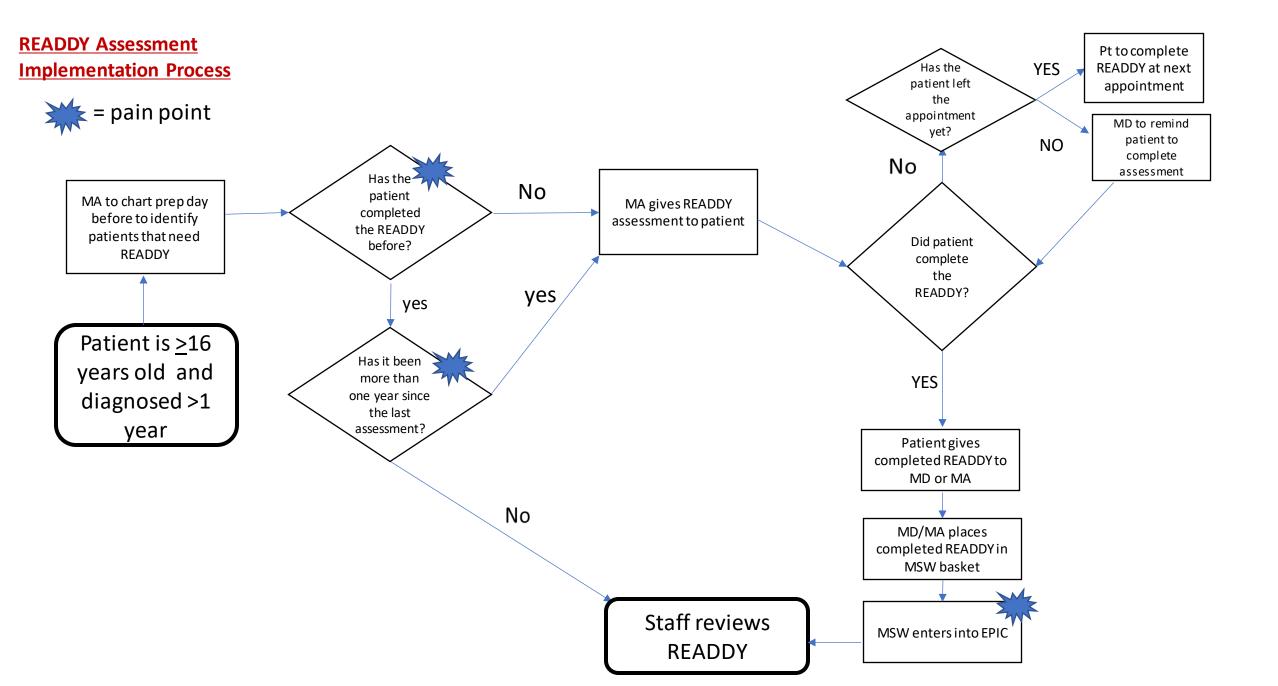
# **Aim**

Increase the number of patients with a documented transition plan to adult endocrinology by 25% from baseline



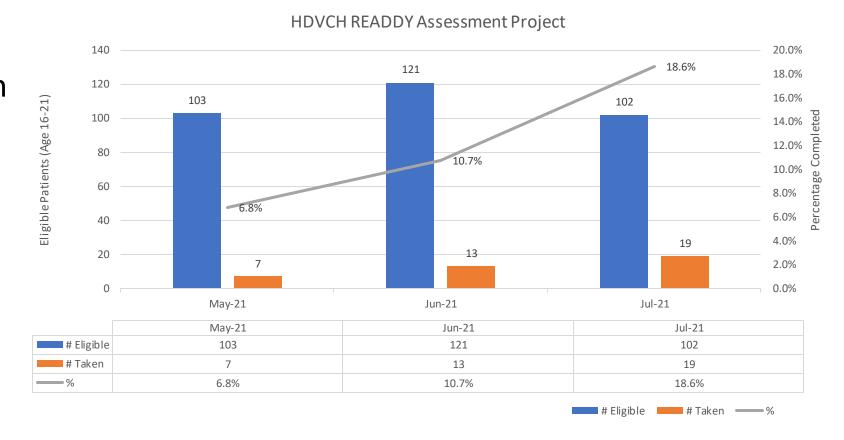
# **Methods**

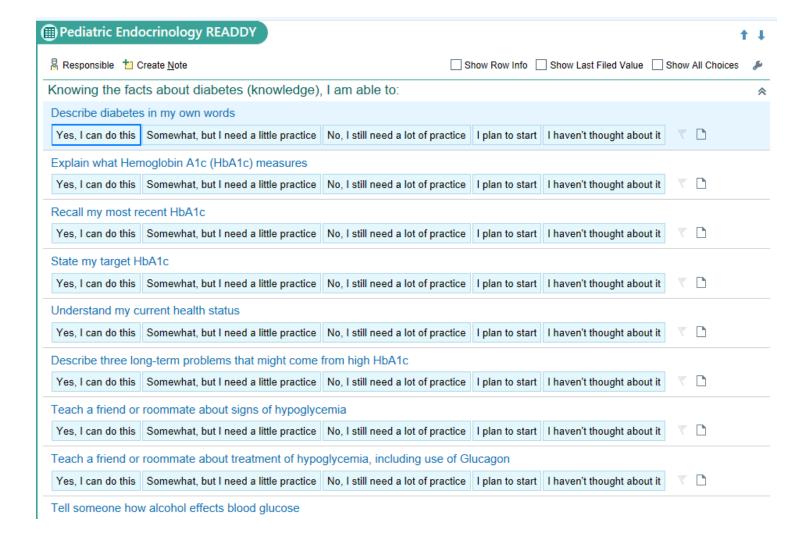
- Utilized READDY to initiate the transition to adult process for patients aged 16 years and older with anticipation to adult care at the age of 18 years
- PDSA
  - –Incorporated a formal process of administering READDY
  - –Centralized way of documenting/tracking READDY completion
  - Monthly reports were generated and reviewed using run charts



# PDSA-1

- Objective: Increase administration of READDY by 25% from baseline
- Intervention:
- -One MD/NP/MA/CDE team
- -8 weeks duration
- -% READDY administered



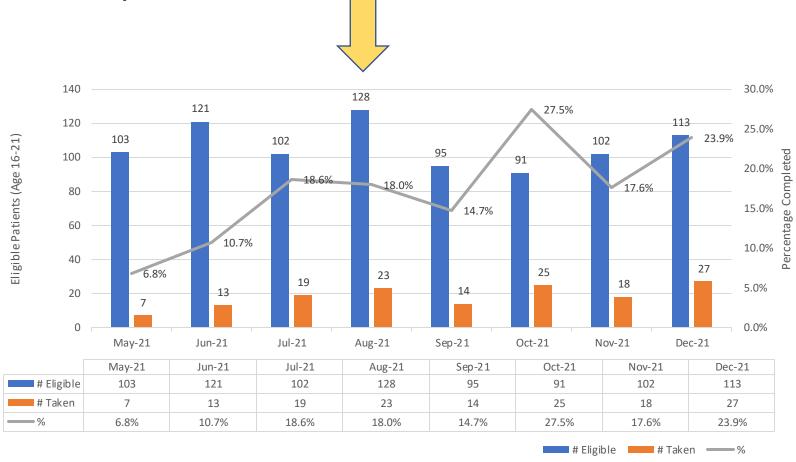




PED ENDO READDY ASSESSMENT SUMMARY	5/24/2022
Knowledge Mean Score	4.23
Navigation Mean Score	3.69
Insulin Management Mean Score	5
Health Behaviors Mean Score	4.56
Pump Skills Mean Score	5

PDSA-2 (Expansion!)

- Objective: Increase administration of READDY by 10% from baseline
- Intervention:
- -Rolled out to whole clinic
- -4 months
- Barrier:
- -Difficult to identify who needs to get a READDY

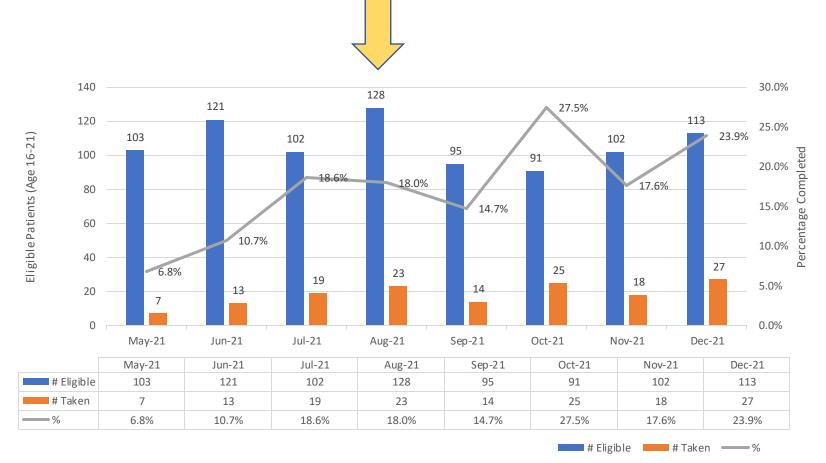


Expanded to all MD/NP

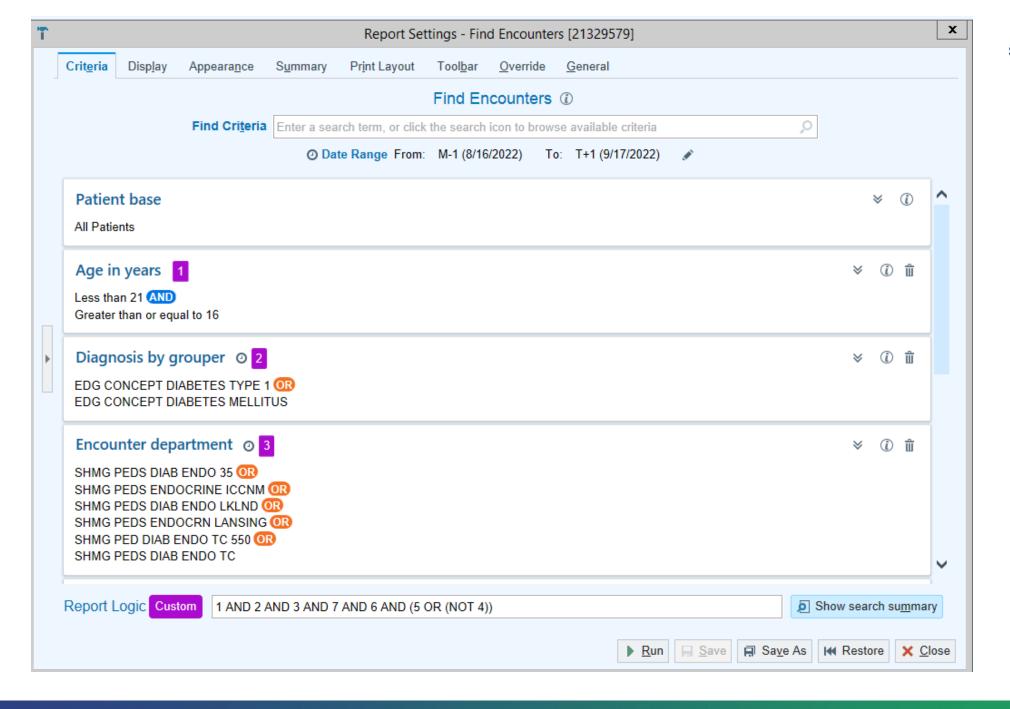
# PDSA-3 (Daily Report)

 Objective: Increase administration of READDY by 10% from baseline

- Intervention:
- -Created a Daily Report in Reporting workbench



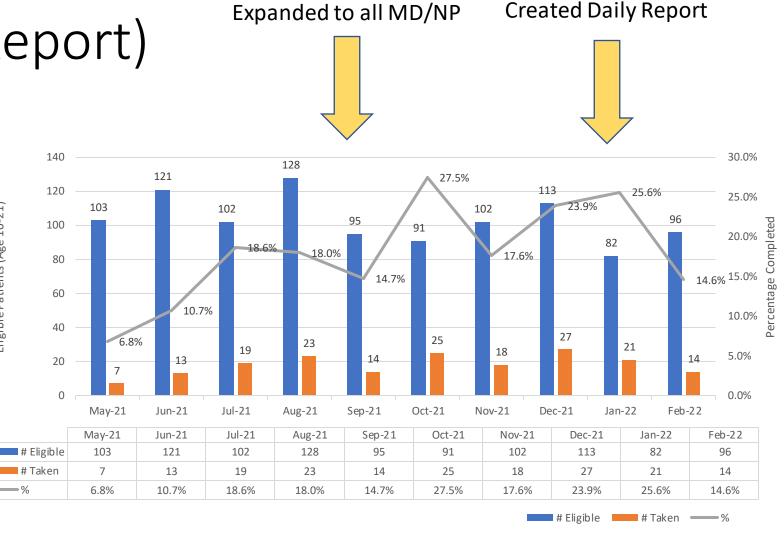
Expanded to all MD/NP





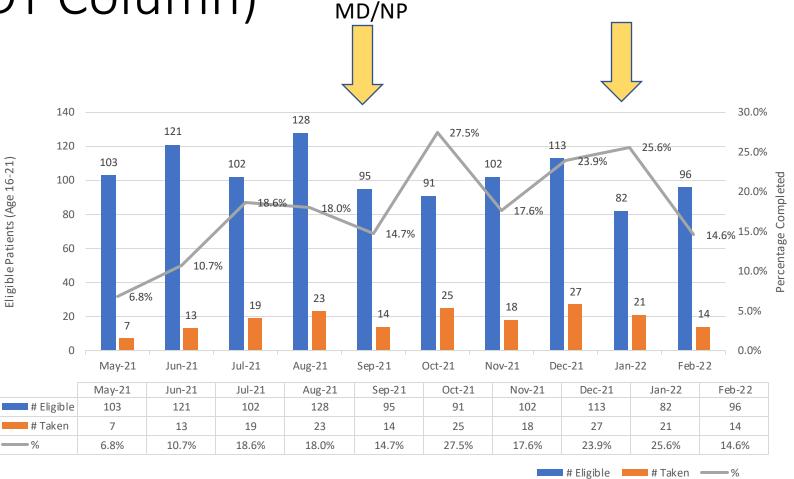
PDSA-3 (Daily Report)

- Objective: Increase administration of READDY by 10% from baseline
- Intervention:
- -Created a Daily Report in Reporting workbench
- -8 weeks
- Barriers:
- -Education lacking in utilizing report
- -Difficult to remember to run it



# PDSA-4 (READDY Column)

- Objective: Increase administration of READDY by 10% from baseline
- Intervention:
- -Created a "Last completed READDY" column within the schedule
- -8 weeks



Expanded to all

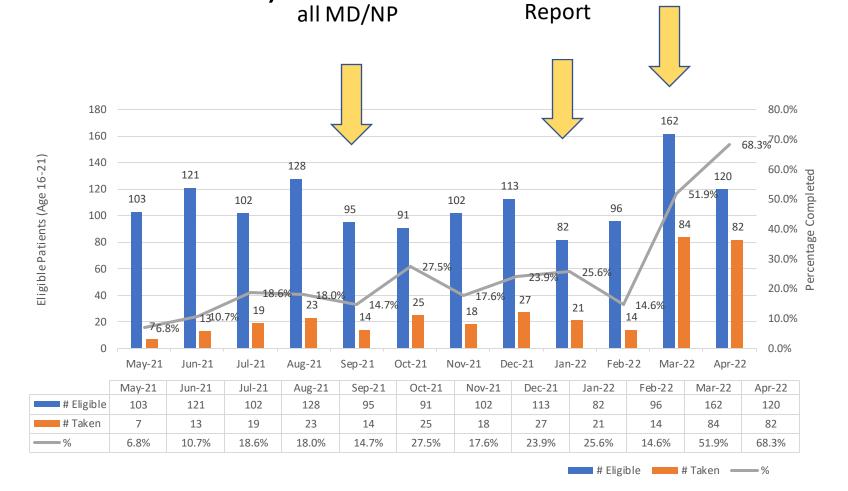
**Created Daily Report** 

Time	Pri?	Status	Status Details	Provi		
SHMG PEDS DIAB ENDO 35						
7:00 a		Signed	Checked out: 7:37 AM			
7:30 a		Signed	Checked out: 10:21 AM			
8:00 a		Signed	Checked out: 8:48 AM			
8:30 a		Scheduled	No Show			
9:00 a		Signed	Checked out: 11:01 AM			
9:30 a		FOLLOW UP	DI			
10:00 a		Signed	Checked out: 10:52 AM			
10:30 a		Signed	Checked out: 11:07 AM			
11:00 a		Signed	Checked out: 12:28 PM			
11:30 a		Signed	Checked out: 12:29 PM			
12:00 p		Signed	Checked out:			

Age/Gender	Checked In	Notes	Last HBA1C	Suicidal	Last Readdy Ass	sessment
17 y.o. / F	6:55 AM	-4 months follow up DM frist Avaiable/F2F	7.9			
17 y.o. / F	7:30 AM	(need meter) 6 month T2DM	7.2	<b>^</b> Y		
8 y.o. / M	8:02 AM	(need tandem/dexcom) 3mo follow up T1D with DE or NP	6.9			
15 y.o. / M		9-16-22 cw Sent NSx2 letter to PCP and Family (need meter) f/u T1D Eng/NP 3 mo	12.7			
12 y.o. / M	9:14 AM	(need meter) Follow up T1DM 3m (Aug/Sep) DE	8.5			
20 y.o. / F	9:51 AM	(need meter/tandem) Return in about 3 months (around 7/29/2021) for Face to Face, DE or SK, Diabetes.	6.8		01/13/2022	
18 y.o. / F	10:25 AM	(need tandem/dexcom) FTF follow Up diabetes	7.2		10/19/2021	
16 y.o. / F	11:01 AM	(need tandem) 3 month DM follow up/Coming w sib DE/NP	8.3		06/24/2022	
11 y.o. / F	11:03 AM	(need tandem) 3 month DM follow up DE/NP	9.3			
5 v.o. / M	11:58 AM	(need dexcom) F2F/1st	7.8			

# PDSA-4 (READDY column) Expanded to

 Results: Increased completion percentage from 14% to 68%



Created

Daily

**READDY** 

column

PDSA-4 (READDY column) Expanded to all MD/NP

**READDY** Created column Daily

Report

• Results:

-plateaued over time

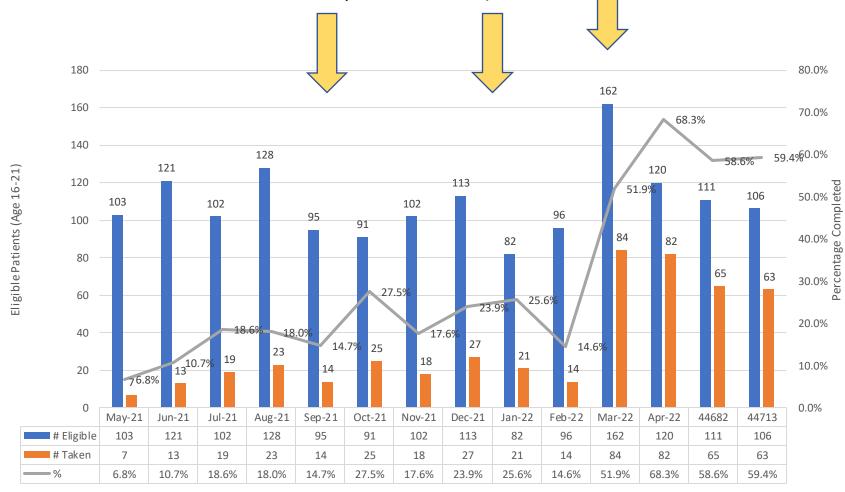
Observations:

-short attention span

-no structure as to who was covering which topics

-difficult to know who has covered what and when

-limited time



PDSA-5 (Quarter System)

Expanded to all MD/NP

Created column
Daily
Report

READDY

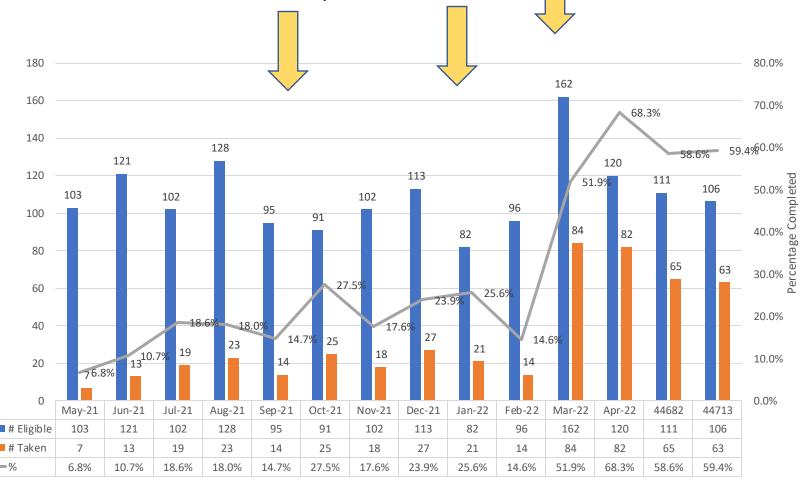
## Interventions:

-divided the year into quarters

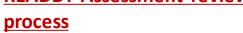
-each discipline covers a quarter

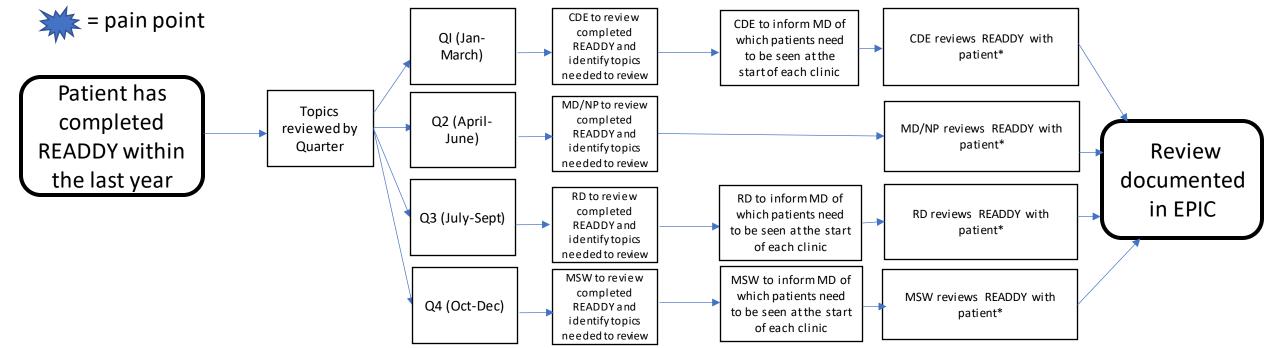
-documented in EPIC when pt was seen by each discipline

-made smart phrases to document topics covered



### **READDY Assessment review**





#### F

#### Knowledge:

- Teach a friend or roommate about signs of hypoglycemia
- Tell someone how alcohol effects blood glucose

#### Health Behaviors:

- Count carbohydrates and know where to look for carb information
- Test blood glucose before each meal and when having symptoms of low glucose values
- Perform diabetes care (take insulin, check blood glucose) in front of peers, friends, co-workers or in public when necessary
- Notice differences in my health, such as weight changes or illness
- Manage my diabetes during illness, including when to call my provider
- Describe strategies to prevent low and high blood glucose levels when exercising

#### CDE

#### Navigation:

- Arrange for transportation to medical appointments
- Ask questions of the medical team during my clinic visits
- Answer questions about my own past health history
- Answer questions about my family medical history
- Call the office for treatment advice
- Have medical insurance or speak to a social worker or financial counselor about getting coverage
- Call my insurance company and ask about my coverage for supplies and medicines
- Refill a prescription at the pharmacy
- · Seek emotional support as needed (family, friends, online community, religious services, social worker, support group, therap ist, etc)
- Identify a hospital for emergency care
- Identify a primary care provider (one main health care provider I see for all my medical needs other than diabetes)
- Contact prospective schools and employers for disability/accommodations (if necessary)
- Find out accurate information about diabetes (e.g. support groups, web sites, ADA, JDRF etc)

#### **MSW**

#### Knowledge:

- Describe diabetes in my own words
- Explain what Hemoglobin A1c (HbA1c) measures
- Recall my most recent HbA1c
- State my target HbA1c
- Teach a friend or roommate about treatment of hypoglycemia, including use of Glucagon

#### Insulin Management

- Give my own insulin with a syringe, pen or pump
- Determine my insulin dose according to my blood glucose
- Determine my insulin dose according to what I am eating
- · Adjust my insulin doses according to my blood glucose patterns over time

#### Health Behaviors:

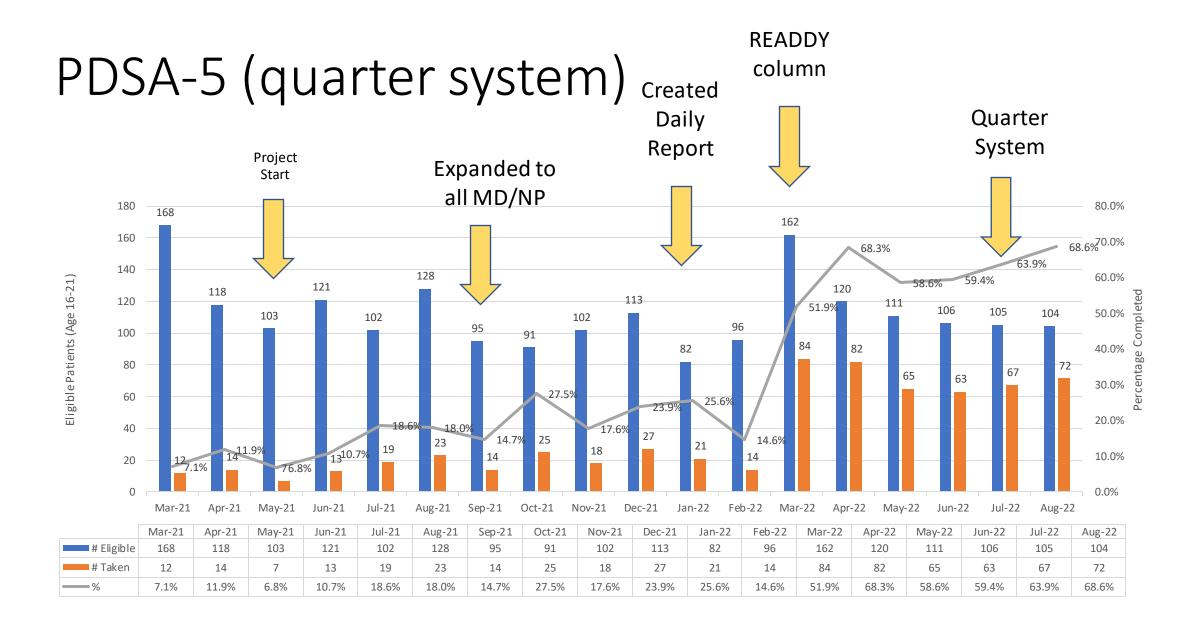
- Manage my diabetes during illness, including when to call my provider
- Respond to positive ketones
- Manage my diabetes safely when driving (e.g. check blood glucose before driving, treat high or low blood glucose values, etc)
- Pump Skills (answered only if using a pump)
- Change infusion sets and fill insulin reservoirs
- Program basal rates and bolus dose information into pump setup
- Use dose calculatorin pump
- Test my basal rate with coaching from my medical team
- Recognize if the pump or infusion set is not working
- Administer insulin by injection if pump is not working
- Call the pump company help line if insulin pump is not functioning properly

#### MD

#### Knowledge

- Explain the impact of diabetes on sexual health and function
- Explain the long-term impact of tobacco on heart health in people with diabetes
- · Tell someone how alcohol effects blood glucose
- · Explain the impact of glucose control before and during pregnancy
- · List examples of test done in routine visit to identify or prevent complications of diabetes

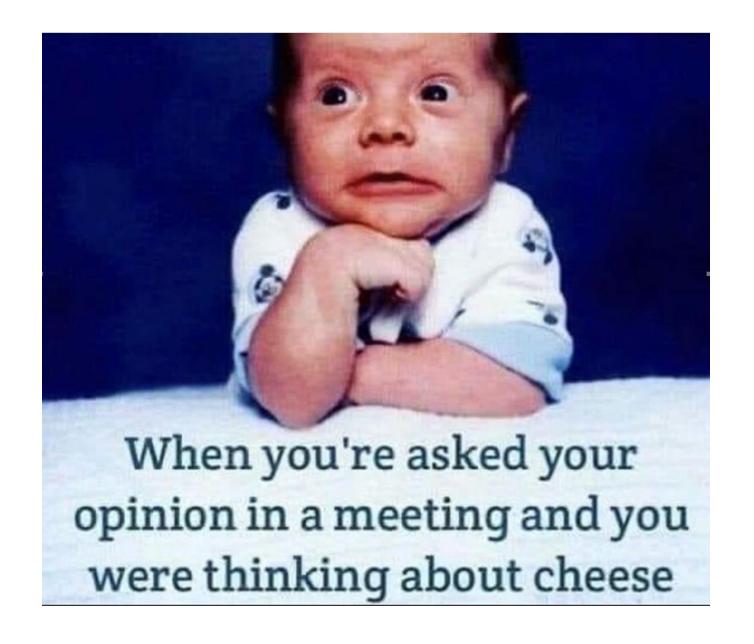
	Office Visit from 9/15/2022 in HDV		
	9/18/2022		
	1500		Last Filed
Diabetes management (health	behaviors), I am able to:		
Notice differences in my health, s			5
Manage my diabetes during illnes			5 44
Respond to positive ketones			5
Describe strategies to prevent low			5 44
Manage my diabetes safely when			5
Describe safe sex practices			5
Health Behaviors Mean Score			5
Insulin pump skills (answer or	nly if you use one), I am able	to:	
Change infusion sets and fill insuli			1 ! 44
Program basal rates and bolus do			1 ! 44
Use dose calculator in pump			1 ! 44
Test my basal rate with coaching f			1 ! 44
Recognize if the pump or infusion $\dots$			1 ! 44
Administer insulin by injection if $p$			1 ! 44
Call the pump company help line i			1 ! 44
Pump Skills Mean Score			1 ! 44
<b>Subsection Mean Scores</b>			
Knowledge Mean Score			4.62
Navigation Mean Score			4.23
Insulin Management Mean Score			5
Health Behaviors Mean Score			5
Pump Skills Mean Score			1 ! 44
Topics Reviewed			
Topics Reviewed			
Plan for next visit			
Reviewed By			
CDE Review Date	9/21/2021		
RD Review Date	3/4/2022		
MSW Review Date	6/10/2022		
MD Review Date	5/11/2022		



## Future Areas to Address

- Transition to Adult
  - Is there a way to incorporate this into our telemedicine visits?
  - Is the program actually improving our patients' confidence in independent care?
  - Can we improve the actual launch?

Questions?





# Quality Improvement: Depression Screening in Diabetes

Allison Mekhoubad, DO
Jennifer Sarhis, MD
Rashida Talib, MBBS, MPH

September 22, 2022



# Objectives

- Increase awareness of the importance of mental health screening in patients with type 1 diabetes
- Recognize barriers in the mental health screening process

# Pre/Post Learning Questions

There is a universal screening tool for depression in patients with type 1 diabetes

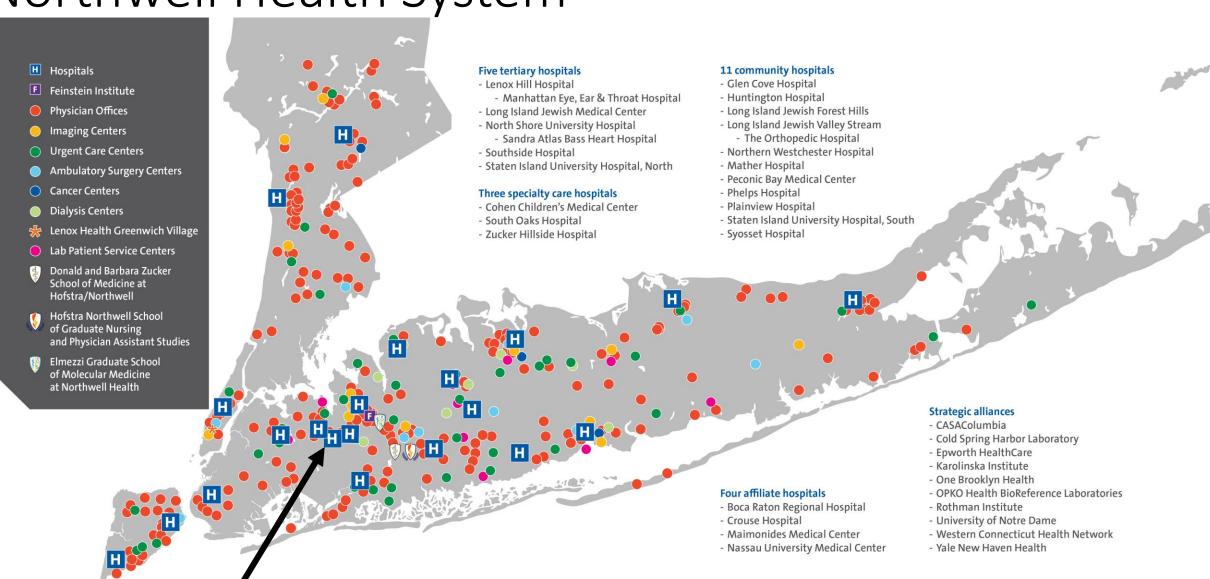
- The PHQ 9 is a validated depression screening tool that can be used in patients:
- 10 and older
- 11 and older
- 12 and older
- 13 and older
- Any age group

# Where is Northwell CCMC?



# Northwell Health System

**CCMC** 



# Background: Pediatric Endocrinology

- As part of Cohen Children's Medical Center Northwell Health Physician Partners, our team operates proudly within the framework of one of the largest health systems in the country.
- The physicians in our Pediatric Endocrinology Division perform over 12,000 outpatient consultations, ~300 inpatient visits, and more than 200 diagnostic endocrine tests yearly.
- We are a designated site for the NY State Adrenal and Thyroid Newborn Screening Programs.
- Our department is a proud home to our institution's multidisciplinary DSD Program called GRUPE, which is comprised of specialists from Cohen Children's Medical Center including genetics, gynecology, urology, psychology/psychiatry, endocrinology, and surgery.
- Our team is part of the Disorders of Sex Development Translational Research Network (DSD-TRN). It is an NIH-supported group
  of medical centers working to educate families about DSD and provide both sensible and sensitive care for patients with such
  diagnoses.
- Rated one of the Top 50 pediatric diabetes and endocrine disorder programs in the country by US News and World Report

## Cohen Children's Medical Center, Northwell Health Pediatric Endocrinology

## Multidisciplinary Diabetes Team Members

- 12 Board Certified Pediatric Endocrinologists
- 1 Nurse Practitioner
- 6 Registered Nurses
- 2 Registered Dietitian/ Nutritionists
- 7 Certified Diabetes Care and Education Specialists
- 1 Social Worker
- 1 Research Coordinator

### Volume

- 50+ newly diagnosed T1D patients seen annually
- 547 established T1D patients receiving ongoing care
- 38% patients insured through Medicaid



### Locations

- Outpatient Clinics:
  - Main Office: New Hyde Park, NY
  - Satellite locations: 7
  - Diabetes Care: New Hyde Park,
     Smithtown and Bay Shore
- Inpatient: Cohen Children's Medical Center



# CCMC T1D Exchange Team



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# Depression Screening

 Patients with type 1 diabetes are at increased risk for depression and other psychological problems.

No single universal recommended screening tool

- Patient Health Questionnaire (PHQ) 9
  - Validated self reporting tool for depression screening that can be used in adolescents, aged 12 years and older
  - ADA recommends depression screening for patients with diabetes on a regular basis

# PHQ9

#### PATIENT HEALTH QUESTIONNAIRE (PHQ-9)

NAME:		DATE		
Over the last 2 weeks, how often have you been				
bothered by any of the following problems?				
(use "v" to indicate your answar)	Not at all	Several days	More than half the days	Nearly every day
Little interest or pleasure in doing things	0	1	2	3
2. Feeting down, degreesed, or hopeless	0	1	2	3
3. Trouble falling or staying asleep, or sleeping too much	0	1	2	3
4. Feeling tired or having little energy	0	1	2	3
5. Poor appelite or overeating	0	1	2	3
Feeling bad about yourself -or that you are a failure or have let yourself or your family down	0	1	2	3
<ol> <li>Trouble concentrating on things, such as reading the newspaper or watching television</li> </ol>	0	1	2	3
8. Moving or speaking so slowly that other people could have noticed. Or the opposite — being so figsty or restless that you have been moving around a lot more than usual	0	1	2	3
<ol> <li>Thoughts that you w<sub>0,0</sub>ild be better off dead, <sub>0</sub>r of hurting yourself</li> </ol>	0	1	2	3
	add columns			,
(Healthcare professional: For interpretation of TOT) please refer to accompanying scoring card).	4L, TOTAL:			
10. If you checked off any problems, how difficult		Not diffin	out at all	
have these problems made it for you to do		Somewh	nat difficult	
your work, take care of things at home, or get		Very diff	Sits of the	

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### **Interpreting PHQ-9 Scores**

Diagnosis	Total Score	For Score	Action The score suggests the patient may not need depression treatment
Minimal depression	0-4	≤4	
Mild depression	5-9	5 - 14	Physician uses clinical judgment about treatment, based on
Moderate depression	10-14		patient's duration of symptoms and functional impairment
Moderately severe depression Severe depression	n 15-19 20-27	> 14	Warrants treatment for depression, using antidepressant, psychotherapy and/or a combination of treatment.

### Place

- -Less support in satellite clinics vs main office
- -No SW in satellites
- -CDE in satellites not administering PHQ9

### **Policies and Procedures**

-MH screening policy not enforced

### **Process**

- PHQ9 administered at random
- -Unclear process regarding administration of PHQ9

### **People**

- -Decreased availability of SW (previously available
- 4 days/week → part time
- -Nurse educators administering PHQ9 at random
- -Patients not always sharing mental health struggles if not asked
- -Varying patient education and literacy levels
- -Language barrieh

Mental health screening not routinely performed during visits

### **Product**

- -PHQ9 not readily available in patient rooms or front desk
- -Supply in CDE office not routinely replenished



### **ACT**

- Educate MOAs to identify patients who are eligible for screening and hand out PHQ9 when rooming
- Create workflow:
  - for entering PHQ9 into EMR
  - For providing handouts/referrals
- Create handouts
- Improve access to psychiatric services
- Educate physicians and nurses on PHQ9 use



### **PLAN**

- Administer PHQ9 for patients of 2 physicians.
- MOAs to distribute paper copy of PHQ9 to patients upon rooming

### **STUDY**

7 negative screens

Challenges observed

- MOA not familiar with eligible patients, requiring physician to identify patients prior to clinic session
- SW not in the office every day to assist
- No streamlined process regarding inputting to medical record



### DO

- Assess eligible patients of 2 providers at the main office over 2 weeks
  - Week 1: 5 eligible patients, 5 screened
  - Week 2: 3 eligible patients, 2 screened





### **ACT**

- Reinforce process with MOAs
- Improve workflow:
  - For collecting completed PHQ9
  - for entering completed PHQ9 into EMR
  - For providing handouts/referrals
- Create handouts and make more readily available
- Improve access to psychiatric services
- Educate physicians and nurses on PHQ9 use



### **PLAN**

- Administer PHQ9 for all eligible patients with T1DM across the entire office
- MOAs to distribute paper copy of PHQ9 independently to patients upon rooming

### **STUDY**

7 negative screens, 1 positive screen

### Challenges observed

- Variability in MOA skill level. Some MOAs required a single prompt and handed PHQ9 to all eligible patients.
   Others needed multiple reminders, handing PHQ9 during or after the visit
- Variability in schedule and patient load
- No process for collecting completed PHQ9s



### DO\*

- Assess eligible patients of all physicians, CDEs and NP at the main office over 3 days
- Provide MOAs with eligibility criteria, without identifying specific patients
  - Day 1: 2 eligible patients, 2 screened
  - Day 2:4 eligible patients, 3 screened
  - Day 3:5 eligible patients, 3 screened



# DO (Continued)

- Day 1: 2 eligible, 2 screened
  - No additional reminding
  - 0 patients missed
- Day 2: 4 eligible, 3 screened
  - Additional reminding needed for all screened patients
  - 1 patient missed
- Day 3: 5 eligible, 3 screened
  - Additional reminding needed for 1 patient
  - No additional reminded needed for 2 patients
  - 2 patients missed

# Goals and Next Steps

- Increase frequency of depression screening during diabetes visits
- Have PHQ9 become a routine part of the diabetes office visit
- Improve workflow for administering PHQ9
- Improve workflow for documenting PHQ9 results
- Increase recognition of patients with mental health concerns, especially those who are not transparent about their mental health