



School of Medicine and Public Health UNIVERSITY OF WISCONSIN-MADISON

# **BACKGROUND/OBJECTIVE**

- Patient-centered care and education in pediatric diabetes clinics requires significant data collection and synthesis.
- Currently, Registered Nurses (RNs) are responsible for gathering this data from patients, documenting it in the electronic medical record, and from this, identifying priority topics to address during the clinic visit.
- To mitigate potential team bias, accurately capture patient/family visit priorities, while increasing clinic efficiency, we proposed use of a patient-reported intake form (PRIF).

#### METHODS

- A single page, double-sided PRIF was developed to gather clinical, and diabetes self-management data previously collected verbally by RNs.
- Two open-ended, goal-setting questions were added (#1 and #2), to help facilitate a patientcentered visit.

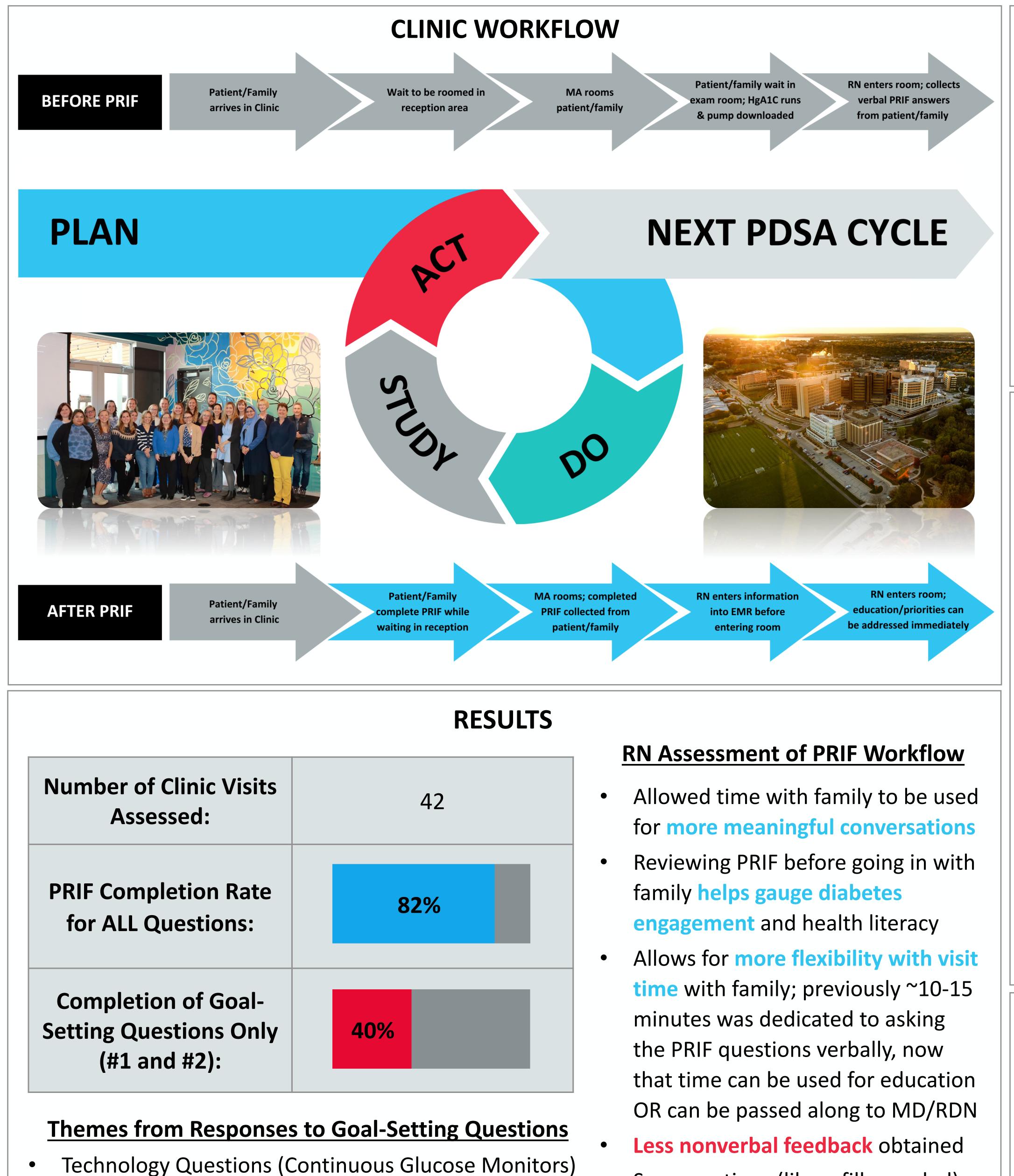
Patient Name: DOB: MR #:				Do you have concerns about insurance or affording medications?		□ Yes	□ No	
				Since the last visit have you/your child seen a counselor or mental health professional?			□ Yes	□ No
Pediatric Diabetes Clinic Visit				Do you/your child have any mood, behavior, or mental health concerns?			□ Yes	□ No
What questions do you/your child have today?				If you/your child does not ta	ke insulin, skip to the next se	ction.		
				Do you/your child have the	following supplies:	Medical ID/Wallet Card	🗆 Yes	□ No
The most important thing to discuss today is:				Ketostix		🗆 Yes	□ No	
						Glucagon	🗆 Yes	□ No
If you need a school excuse letter for today's visit,	, please ask for one at the rece	ption desk when you check o	out.	Have you/your child used g	lucagon since your last visit	2	🗆 Yes	🗆 No
Do you/your child need updated <u>school orders</u> toda	y?	🗆 Yes	□ No	How many times <u>PER WEEK</u> are you/your child having a low blood sugar (<70 mg/dL)?			times/week	
Do you/your child need <u>any other forms</u> completed	? 🗆 FML	A 🗌 Camp Form 🔲 Other		When do the low blood sug	ars usually happen?			
What medications or supplies do you/your child nee	ed new prescriptions for?			Morning	□ Afternoon	Evening	Unpredicta	ble
□ Insulin (List Types) □ Syringes	Glucometer Brand:	Metformin		After Physical Activity	Before Meals	□ 1-2 hours after meals	□ Other:	
Blood Ketone Strips		CGM - Dexcom or Libre		What are you/your child's s	symptoms when they have a Nausea	low blood sugar?	Tired	
Pen Needles     Urine Ketone Strips	Blood Sugar Test Strips	Other diabetes meds (lis	st below):	Weak	Shaky		Nervous/An	xious
Who do you/your child live with?				Sweaty	Hungry	Sleepy	□ Confused	
Home 1		Home 2		Difficulty Speaking Blurry Vision	Irritable/moody Slurred Speech	Headache Hard to Focus	Fatigue Chills	
Parent/caregiver:				-				
Siblings:	Siblings:			What do you/your child use	e to treat a low blood sugar?			
Other:	Other:			How do you manage your/y	vour child's diabetes when il	l? (Sick Day Plan)		
What activities, sports, or hobbies do you/your child	d participate in?							
School Name:		Grade:		Within the past 12 months,	we worried whether our fo	od would run out before we got mo	ney to buy more.	
Does you/your child participate in physical educatio	n class?	□ Yes	□ No	🗆 Often tru	e 🗆 Sometimes true 🔲	Never true 🛛 🗆 Don't know/prefer r	ot to answer	
Days per week: Time of class:				Within the past 12 months, the food we bought just didn't last and we didn't have money to get more.				
In the last 12 months have you/your child had a FLU	<u>I SHOT</u> (a/k/a flu vaccine, influ	ienza 🗌 Yes	□ No	🗆 Often tru	e 🗆 Sometimes true 🔲	Never true 🛛 Don't know/prefer r	ot to answer	
vaccine)? If yes, please list date:			Would you like to hear about food resources in your area?					
In the last 12 menths have you fucur shild had a DII				□ Yes □ No □ I'	d prefer a phone call after to	day's visit to discuss resources, rathe	er than chatting t	oday.
In the last 12 months have you/your child had a <u>DILATED EYE EXAM</u> or retinal scan?		n? 🗆 Yes					🗆 Yes	🗆 No
Have you/your child seen the <u>DENTIST</u> in the last 6 r		· · · · ·		kept you from getting medi	cations?		Prefer not to	answer
How many times have you/your child been to the he						ou from meetings, work, or from	□ Yes	□ No
		ital Visits 0 0 1 0		getting things needed for da	ally living?		Prefer not to	answer
		ER Visits 0 1 0						
How many days of school have you/your child misse	ed due to diabetes?		Days		Clinic staff will o	ollect completed form.		

- PRIF usage was trialed in 1 clinic location from April – May 2023 to primarily assess feasibility of the proposed changes to clinic workflow.
- Qualitative feedback from clinic staff was gathered and PRIF responses were reviewed.

# **Implementing Patient-Reported Intake Forms to Integrate Clinic Efficiency with Patient-Centered Care**

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Review of Blood Glucose Patterns

Some sections (like refills needed) are not always filled out accurately

Afraid of

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### CONCLUSIONS

• Use of a PRIF in pediatric diabetes clinic visits was feasible and acceptable by clinic team members (reception, MAs, RNs, providers). More formal assessment of patient/family feedback regarding the PRIF is necessary for ongoing improvement to clinic workflows, goalsetting, and meeting patient's needs.

• Use of the PRIF gives clinic RNs more flexibility during clinic visits to accommodate patients needs and provider requests.

## **FUTURE DIRECTIONS**

Roll out to all pediatric diabetes clinic visits (including second location).

Adapt and integrate "My Diabetes Journey" prompts (see excerpt below) into PRIF to assist patients/families with idea generation and selection of visit priorities.

g insulin for food se of the math	Skipping insulin for high sugar because of the math	Not sure how to take care of diabetes when I am sick	Not sure how to take care of diabetes outside of home or school
er" Diabetes	Needing more help taking care of diabetes at home	Tired of checking blood sugar	Having a hard time taking my rapid-acting (bolus) insulin
low blood sugars	Having a hard time taking long-acting (basal) insulin	Needing more help taking care of diabetes at school	Not sure how to take care of diabetes when I exercise or play

 Ensure reporting of Food Security and Transportation questions to T1DX, now that data is being captured consistently on PRIF.

• Long term, work toward electronic completion (via MyChart or in-clinic iPad) of PRIF. Institutional barriers remain a challenge.

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