Sustained QI Implementation of a Transition Preparation Program for Adolescents and Emerging Adults with Type 1 Diabetes

Sarah D. Corathers, MD; Rajvi Desai, LSW; Allison Deisinger, RD, CDCES; Rachael Jones, MSW, LISW; Kyle Kaplan MPH; Mary Jolly RN, MBA, CPHQ; Amy Grant, DNP, RN, CPN; Jessica C. Kichler CDCES, PhD, CPsych

Background

Transition of care between pediatric and adult health systems for adolescents and emerging adults (AEA) with type 1 diabetes (T1D) is complex.

Despite consensus on the need for transition preparation and adult receivership, implementation strategies to sustain programs remain limited.

Got Transition (<u>www.gottransition.org</u>) offers a framework for structured elements of health care transition.

The purpose of this quality improvement (QI) initiative is the development and maintenance of a pediatric T1D transition program aligned with the Got Transition framework.

The SMART aim was to increase percent of AEA with documented transition plan by 20%/year over baseline in ages 16-18 and by 40%/year for ages > 19.

Cincinnati Children's Diabetes Transition Guidelines and READDY assessment tool

Most patients transfer to adult care between ages 18-24, transition plans will be individualized.

Onset	At diagnosis, patients and families learn that diabetes is a lifelong condition.
12	At early adolescence, around age 12, patients should be offered alone time with the physician, nurse practitioner or education team staff.
15	At age 15, the diabetes care team begins to develop a transition care plan that can be updated over time. An annual transition readiness assessment direct educational interventions.
18	At age 18, patients legally become adults. Young adults may provide consent to allow discussion of personal health information with family members.
All	All patients, regardless of age are encouraged to involve supportive family, friends and significant others in health care visits and living with diabetes.

Methods

A multidisciplinary QI team identified key drivers consistent with Got Transition guidelines including:

- Establishing expectations for families and staff,
- Integrating transition readiness into clinic workflow,
- Documenting transition planning and longitudinal tracking,
- Establishing successful transfer to adult care.

Interventions with iterative PDSA cycles addressed each of these drivers.

- Primary outcome, % of AEA with documented transition plan tracked over time using a run chart.
- A convenience sample of patients was followed to track post-transfer outcomes.

Targeted strategies included: adopting a transition policy, developing standard tracking, using READDY assessment tool, documenting transition planning, partnering with adult receivership practices, and using a care coordinator to confirm successful transfer.

Longitudinal Diab	etes Transition Planning: is a future with diabetes Age 12: Shared responsibility of ca Age 12: Shared responsibility of ca Age 15: Increa Goal: Child increases participation of disease management with caregiver and provider		e sing independence Age 18-24: Planni Goal: Individualize plan for transition from pediatric to adult care	ng Transfer Adult Care Goals: • Confidence and competence in self-management • Established care with adult provider • Improved quality of life and clinical outcomes
Providers:	Discuss role of patient and parent in care; offer time alone with provider	Ongoing anticipatory guidance, screening and prevention topics	Complete indicated screening; treat identified co- morbidities	
Education Team:		Determine interventions based on patient self- assessment	Track ongoing progress of skill acquisition; update transition plan	
Transition Coordinator:		Readiness assessment during annual visits; document transition plan	Identify specific timeline and provider for transfer of care	Contact point for adult providers; follow up to ensure successful transfer

How ready are you? Transition Readiness assessment for Emerging Adults with Diabetes Diagnosed in Youth							
isted below are some knowledge and skills that are useful in keeping you heal not right or wrong answers. Please try to answer honestly. Be sure to ask your	thy with diabete provider if you r	es over your lifet need more help i	ime. This is no n any of these	ot a test. 1 e areas.	here are		
Knowing the facts about diabetes (Knowledge)	Yes,	Somewhat,	No, I still	l plan	Haven't		
I am able to:	i can do this	little practice	practice	to start	about it		
Describe diabetes in my own words							
Explain what Hemoglobin A1c (HbA1c) measures							
Recall my most recent HbA1c							
State my target HbA1c							
Understand my current health status							
Describe three long-term problems that might come from high HbA1c							
Teach a friend or roommate about signs of hypoglycemia							
Teach a friend or roommate about treatment of hypoglycemia, including use of Glucagon							
Tell someone how alcohol effects blood glucose							
Explain long-term impact of tobacco on heart health in people with diabetes							
Explain the impact of diabetes on sexual health/function							
Explain the impact of glucose control before and during pregnancy (female patients)							
List examples of tests done in routine visits to identify or prevent complications of diabetes							



Diabetes specific readiness assessment is a useful addition to transition preparation and planning.

Documented transition planning is a feasible metric to evaluate program maturity and consistency over time.

Sustained transition planning for ages > 19 persists but renewed attention in the 15-18-year-old group is needed post pandemic at our center.



	Pediatric Care N (%)	Adult Care N (%)	P-value
HbA1c	8.7%	8.59%	0.8076
ocumented foot am (within 1 year)	8 (17%)	40 (83%)	< 0.0001
L (within 2 years)	38 (79%	27 (56%)	0.0278
SH (within 1 year)	23 (48%)	21 (44%)	0.1025
ocumented eye am (within 1 year	21 (44%)	19 (40%)	0.6547

