Improved HbA1c Levels in Pediatric Medicaid Patients with Type 1 Diabetes

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- **Location:** Rady Children’s Hospital, San Diego, CA

**WHAT PROBLEM (GAP IN QUALITY) DID THE PROJECT ADDRESS?**

HbA1c levels in our public-insured patients with type 1 diabetes are significantly higher than our private-insured patients, reflecting the known disparities in access to care faced by this population and the impact of social determinants of health.

**WHAT DID THE PROJECT AIM TO ACCOMPLISH?**

We aimed to decrease the percentage of public-insured patients with high-risk type 1 diabetes (HbA1c >8%) by 10% from baseline of 65% to 55% in 12 months.

**MEASURES:**

- **Measure Name:** HbA1c
- **Goal:** Reduce to 55%
- **Unit of Measurement:** Percentage of patients with HbA1c >8%
- **Data Source:** EHR
- **Collection Frequency:** Monthly

**NOTABLE CHANGE STRATEGIES:**

- **Strategy #1:** Develop a patient-and family-centered assessment tool to review patient's diabetes outcomes, diabetes management, social determinants of health, and mental health.
- **Strategy #2:** Train staff including nurse care navigators, nurse practitioners, and MD providers to completed assessment tool.
- **Strategy #3:** Establish monthly patient-and family-centered Comprehensive Review Meeting with nurse care navigators and the diabetes team.
- **Strategy #4:** Create a documentation tool in the electronic medical record in order to track recommendations and goals discussed at the monthly Review Meeting.
- **Strategy #5:** Add a Child Life Specialist to the team.
- **Strategy #6:** Establish follow-up review sessions to check on progress.
2021 Part 4 Exemplars: DEI

The Small Group QI Project Application pathway reflects a structured, well-designed quality improvement project based on accepted improvement science and methodology. Physicians engaged in such QI work in their practice or setting may receive 25 points of MOC Part 4 Credit.

Key Driver Diagram

- Ensure Access to care and regular follow-up, Promote Health Equity
  - Decrease the percentage of CKC patients T1D HbA1c>8% by 10% from May 2020 baseline of 65% to 55% by May 2021

- Be Patient-centered
  - Develop Assessment Tool to Assess High Risk Patients with A1c > 8%

- Conduct Monthly Comprehensive Review meeting

- Improve Glucose Monitoring
  - Coach on checking BS 4 x/day
    - Offer CGM support & problem solving skills
    - Motivational interviewing, shared decision making, goal setting, action planning

- Improve Psychological Support
  - Ensure that patients who need psychosocial support receive and complete referrals

Percentage of public insured patients with T1D with HbA1c >8%

欲達成目標：55%

欲達成的目標：52%

Month: Jan 20, Feb 20, Mar 20, Apr 20, May 20, Jun 20, Jul 20, Aug 20, Sep 20, Oct 20, Nov 20, Dec 20, Jan 21, Feb 21, Mar 21, Apr 21, May 21

Desired Direction
OUTCOME:

Over the course of this project, public-insured patients with high-risk type 1 diabetics decreased from 65% to 52% in 12 months.

CKC (California Kids Care) is a patient-and family-centered pilot providing comprehensive, coordinated care to children. Our teams recognize the profound impact social determinants of health (SDOH) can have on the health of individuals and communities, beyond personal choices such as their life experiences, physical, social, and economic environments. Social determinants are multilevel and include factors such as individual and neighborhood poverty level, literacy, educational attainment, food security, and adverse childhood experiences, among others. Children with complex diseases complicated by social determinants puts them at risk for worse outcomes than other children with the same conditions.

Before CKC, families of children with T1D often experienced communication challenges across multiple healthcare providers, supply delays, and fragmented care. CKC team currently serves 130 members with T1D, 51.5% of which are Hispanic, 23.1% Non-Hispanic White, 18.5% Other, and 6.9% Non-Hispanic Black. 54.6% of the population is female and the average age of members is 10 years with an age range from 3 to 16 years.

QUESTIONS?

To learn how to create your own quality improvement project, visit https://www.abp.org/content/your-own-qip-project or contact our MOC Support Center at 919-929-0461 or moc@abpeds.org.