



Leveraging EMR Data to Enable Remote Patient Monitoring in the ROCKET T1D Program

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Implementation of an EMR-based diabetes registry dashboard with predictive analytics and clinical metrics enables remote care and targeted outreach.

BACKGROUND

- ROCKET T1D (**R**emote **O**utreach & **C**are for **K**ids' **E**mpowerment and **T**echnology use in **T1D**) is a remote patient monitoring (RPM) program at Texas Children's Hospital supported by diabetes educators.
- ROCKET T1D includes a proactive "**Launch Phase**" with frequent virtual touchpoints for education and insulin therapy adjustments over a 1-3 month period, followed by an "**Orbit Phase**" with monthly data review and therapy adjustments over 3-6 months.

METHODS

- We developed an Epic EMR-based diabetes registry with reports to enable visualization of a validated DKA risk score and clinical data (e.g., device use, HbA1C, etc.) to quickly assess clinical progress and facilitate targeted outreach.
- Patients are added to the ROCKET T1D registry via a flowsheet entry, which allows visualization of progress through the Launch and Orbit Phases in the dashboard.

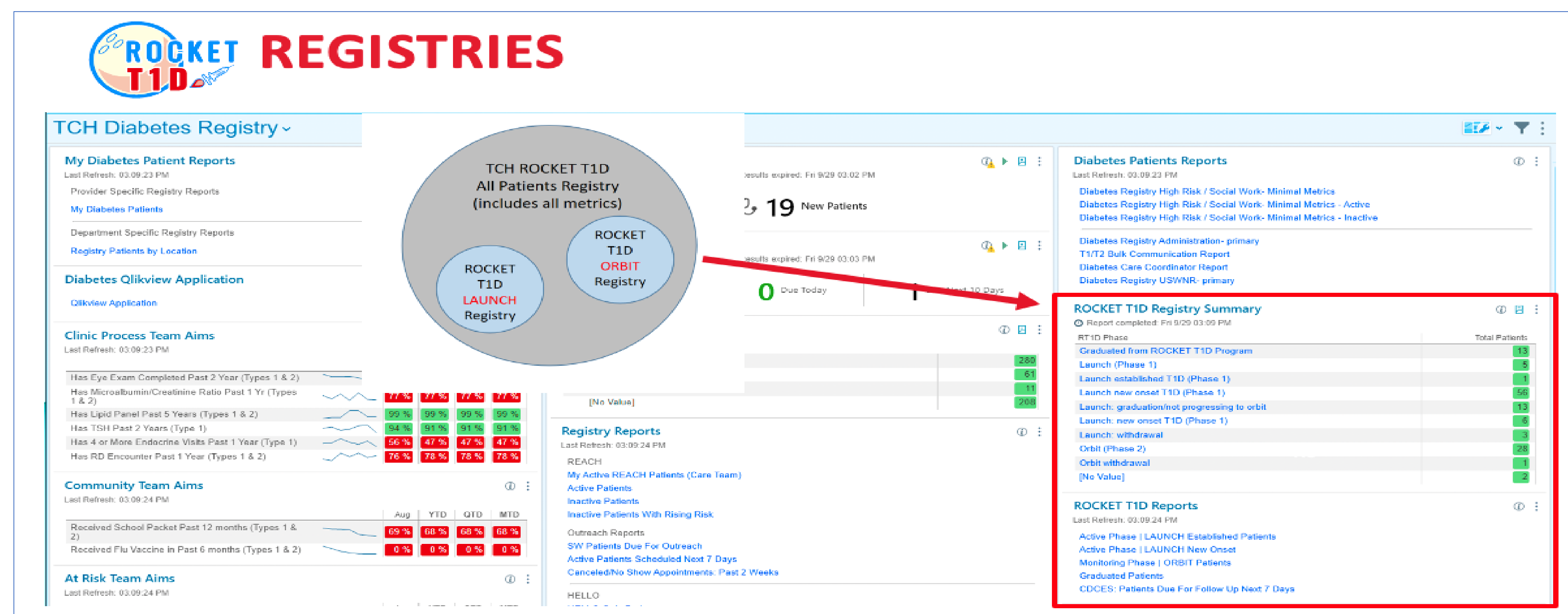
- We have incorporated weekly ROCKET T1D *Mission Control* meetings and utilize Glooko Population Health tracker to access remote data on-demand as interactive reports to facilitate insulin adjustments.

RESULTS

- The ROCKET T1D RPM program went live in October 2022 with an initial target population of patients with established T1D with moderate-to-high risk for DKA, recent hospitalization, and/or starting new diabetes devices.
- In April 2023, we expanded the program to include new onset T1D patients, and as of May 2023, we have enrolled ~80 new onset patients.

CONCLUSION

- Inclusion of new onset T1D patients will enable proactive outreach at a pivotal time in the diabetes journey, with goals of optimizing diabetes self-management habits and glycemic outcomes.



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