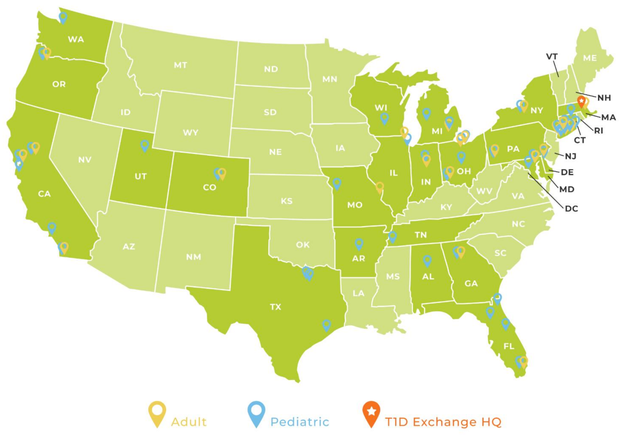
Trends in Automated Insulin Delivery Initiation Among Newly Diagnosed Adults with Type 1 Diabetes: A T1D Exchange Multi-Center Study

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TID Exchange

- The T1D Exchange is a Boston-based nonprofit with a mission to improve the outcomes of people with type 1 diabetes (T1D)
- T1D Exchange Quality Improvement Collaborative(T1DX-QI) is a learning network that has expanded to 64 clinical centers caring for 95,000+ people with T1D across 21 US States



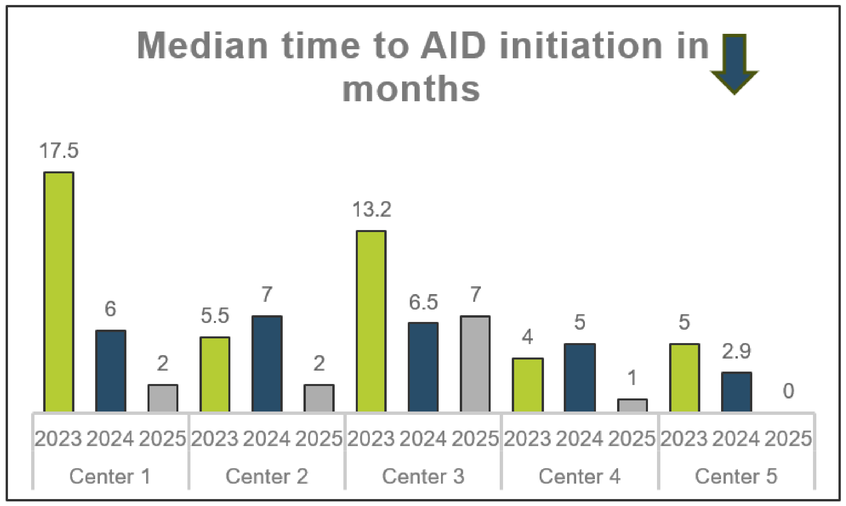
Background

- Automated insulin delivery (AID) systems improve glycemic outcomes for adults with type 1 diabetes (T1D), yet timely initiation following diagnosis remains suboptimal.
- We aimed to increase early AID initiation among newly diagnosed adults with T1D.

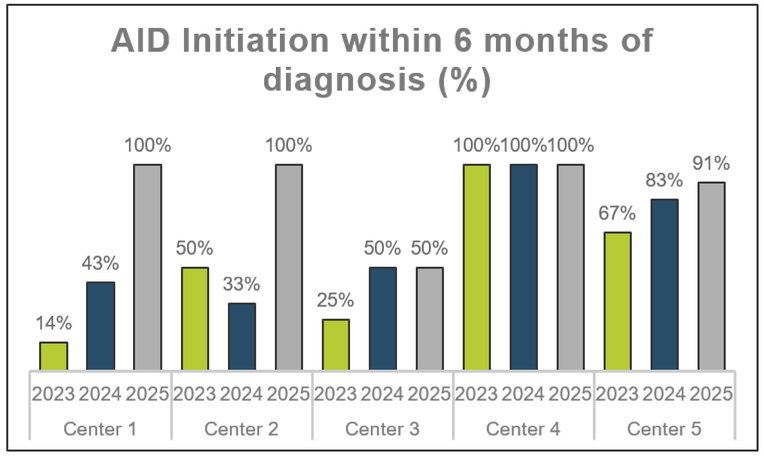
Methodology

- Five adult centers from the T1D Exchange Quality Improvement Collaborative utilized quality improvement tools such as process maps, Ishikawa diagrams, effort impact matrices, and Plan-Do-Study-Act cycles to increase AID initiation among newly diagnosed adults with T1D.
- We describe a retrospective, multicenter descriptive analysis using aggregated data from 5 of 6 centers and compared trends from 2023, 2024 and 2025.
- Key Interventions include;
- Use of Best Practice alert & EHR Integration
- Workflow redesign to improve clinic processes
- Patient education & engagement
- Provider education to increase confidence in prescribing
- Addressing inequities & reduce barriers to access to technology

Results



Results



- Across the 5 centers, 158, 106, and 104 adults were newly diagnosed with T1D in 2023, 2024, and 2025. Median time to AID initiation decreased from a range of 5-17.5 months in 2023 to 0–7 months in 2025.
- New-onset AID users who initiated AID within 6 months ranged from 14%-67% at baseline and increased to 50%-100% in 2025. Mean HbA1c decreased across all centers

Conclusion

- Multi-center QI initiatives are feasible and effective strategies in promoting timely initiation of automated insulin delivery following type 1 diabetes diagnosis.

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