

# Insulin Pump Training or Upgrade to Visit with Provider

Edelina Cohen MS RD CDN CDCES, Lauren Golden, MD  
NYU Langone Health  
New York, NY, USA

Center for Diabetes & Metabolic Health

## INTRODUCTION/BACKGROUND

- Frequent contact with the diabetes team in the initial weeks after insulin pump training is essential to optimize insulin pump settings and address pump-related concerns
- Our practice identified a deficit in post pump training or upgrade visit with provider
- We aimed to increase the number of visits within 2-3 weeks of patient's hybrid closed loop (HCL) insulin pump training or software upgrade by 10-15% by May 2024.

## METHOD

- Provider engages in shared decision making with patient to discuss various (HCL) insulin pump options
- RN and/or secretary are notified to start insulin pump order process
- Diabetes team tracks the patient order, pump training date, and 2-3 week follow up appointment with provider on Excel spreadsheet (tracker)
- Data is compared to baseline average number of days from pump training (or upgrade) to visit with provider

## RESULTS

- Based on random 10 patients from Excel tracker:
  - Average number of days from pump training to visit with provider at baseline= 53.6 days, Aug-Nov 2023= 22.6 days, and Jan-Jun 2024= 21.9 days

## FIGURE 1

	Baseline	Aug-Nov 2023	Jan-Jun 2024
N	10	10	10
% male	50	20	30
% female	50	80	70
% Diabetes Type 1	100	90	100
% Diabetes Type 2	0	10	0
Average # days from pump training (or upgrade) to visit with provider	53.6	22.6	21.9

Table 1. Data: average number of days from pump training or upgrade to visit with provider.

## DISCUSSION & CONCLUSIONS

- A 41% increase in average days from new pump training or upgrade to visit with provider observed after intervention
- Attributed to ongoing improvement in insulin pump order process and tracking
- Ongoing: monitor and adjust data capture strategies, workflow

## REFERENCES

- Lyons SK, Ebekozi O, Garrity A, Buckingham D, Odugbesan O, Thomas S, Rioles N, Gallagher K, Sonabend RY, Lorincz I, Alonso GT, Kamboj MK, Lee JM; T1D Exchange Quality Improvement Collaborative Study Group. Increasing Insulin Pump Use Among 12- to 26-Year-Olds With Type 1 Diabetes: Results From the T1D Exchange Quality Improvement Collaborative. *Clin Diabetes*. 2021 Jul;39(3):272-277.
- Tanenbaum ML, Commissariat PV. Barriers and Facilitators to Diabetes Device Adoption for People with Type 1 Diabetes. *Curr Diab Rep*. 2022 Jul;22(7):291-299.
- Berget C, Messer LH, Forlenza GP. A Clinical Overview of Insulin Pump Therapy for the Management of Diabetes: Past, Present, and Future of Intensive Therapy. *Diabetes Spectr*. 2019 Aug;32(3):194-204.
- Nimri R, Nir J, Phillip M. Insulin Pump Therapy. *American Journal of Therapeutics*. 2020; 27 (1): e30-e41.