

Creating an insulin teaching toolkit for initiation of insulin therapy upon hospital discharge

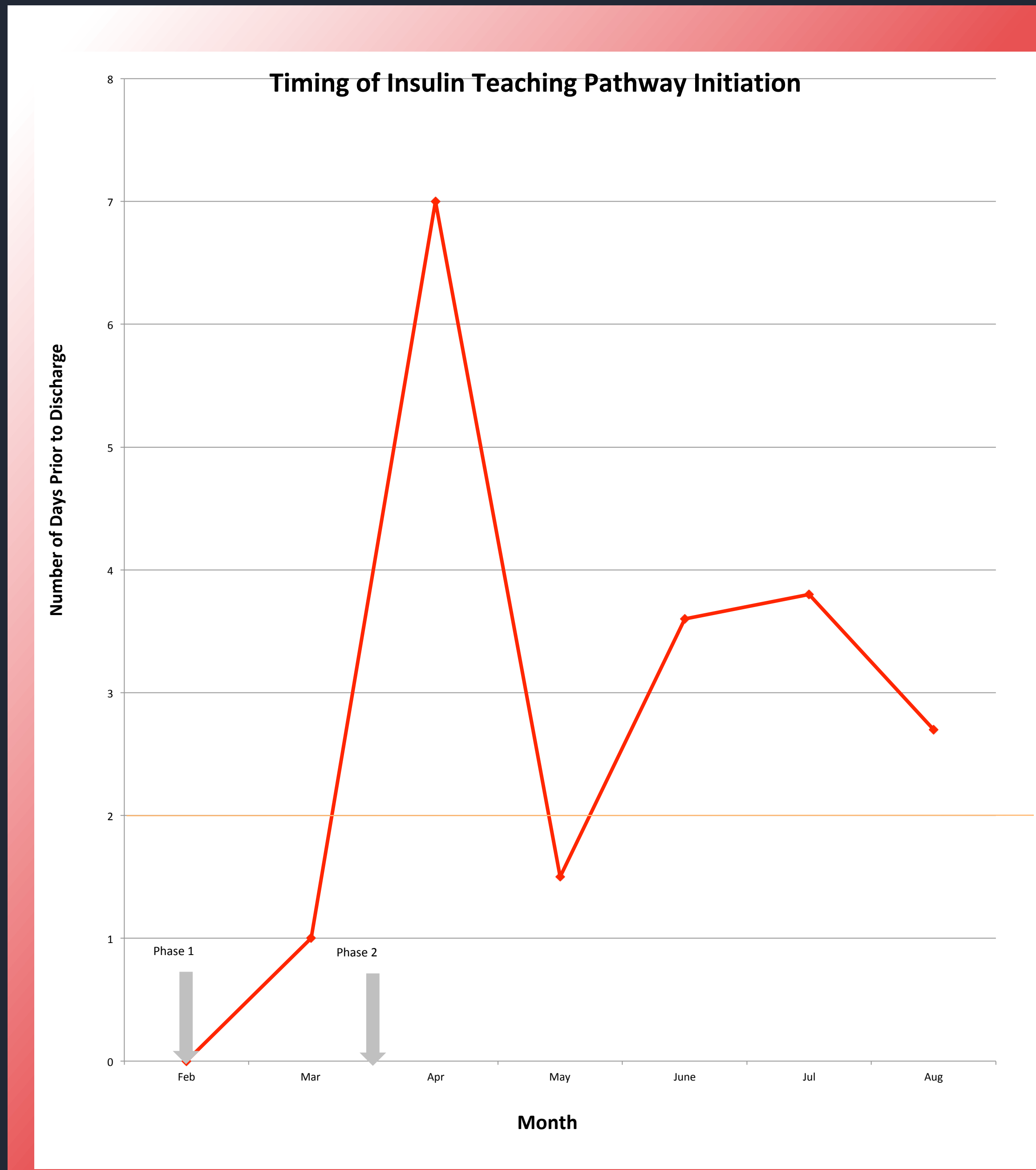
BACKGROUND

- Diabetes is associated with significant morbidity, hospitalization and premature mortality
- Insulin listed in top 5 meds associated with Emergency Dept visits
- Lack of advanced discharge planning: Pts newly started on insulin often receive last minute teaching prior to hospital discharge
- Ineffective, overwhelming for patients, delays discharge, stressful for staff
- Risk of serious medication-related errors and readmission

CONTENT

- Developed a comprehensive approach to educate patients to measure blood glucose, inject insulin and recognize/treat hypoglycemia
- Teaching Kit: booklets, DVDs and discussion, equipment for monitoring glucose and administering insulin, surveys to assess impact & experience of care
- “Insulin Teaching Pathway”- standardized checklist placed in MAR documenting teaching and skill practice
- Patient & staff surveys
- Nursing staff inservices
- Physician/Pharmacist/Dietician engagement sessions
- Retrospective chart review

RESULTS



- **N=15 Patients**
- **Mean time to teaching pathway initiation = 3.4 days prior to discharge**
- 9/15 started education 3+ days prior to discharge
- 15/15 given appropriate discharge Rx (including diabetic supplies)
- 14/15 referred for follow up at Diabetes Health Clinic
- 1/15 readmitted in 30 days (unrelated to Diabetes)

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AIM

To develop a standardized insulin teaching toolkit and initiate early education and practice of knowledge/skills during admission, for patients to be newly discharged on insulin.

- Earlier discharges
- Prevent Readmissions
- Improve patient outcomes & safety
- Improve staff education & comfort

PHASE 1

- N = 5 patients (Internal Medicine units)
- Teaching done day of discharge/day prior to discharge
- 1/3 nursing staff rated comfort for providing teaching was “poor/fair/good”
- 1 patient readmitted in 30 days due to diabetes related complication.

PHASE 2: GOALS

- **Earlier implementation:** 75% patients start teaching 2 (+) days prior to discharge
- **Improved documentation:** 100% of patients given toolkit recorded by unit
- **Improved staff comfort:** 85% surveyed report overall confidence “very good or excellent”
- **Improve patient confidence:** 90% report “very good or excellent”
- Expand to general medicine units

CHALLENGES

- Incomplete documentation
- Staff engagement & patient selection
- Workload constraints & resources

NEXT STEPS

- Repeat staff surveys to assess improvement in comfort levels and workload
- Project Expansion through Physician Quality Improvement (PQI) Group
- Implementation on focused medicine units to streamline process and staff training
- Refine patient satisfaction surveys to assess patient-centered outcomes