

Impact of Clinical Pharmacist Integration Models on Diabetes Outcomes in Primary Care Clinics

Laura Porterfield, MD, MPH

Ashley Collazo, MD, MPH

Vida Ordonez DeLorenzo, PharmD, MBA

Shannon Nieto, PharmD, BCACP



Disclosures

- **Funding:** AC's work is supported by the Department of Health and Human Services, Health Resources and Services Administration (grant number T32 HP1003).
- **Competing interests:** None

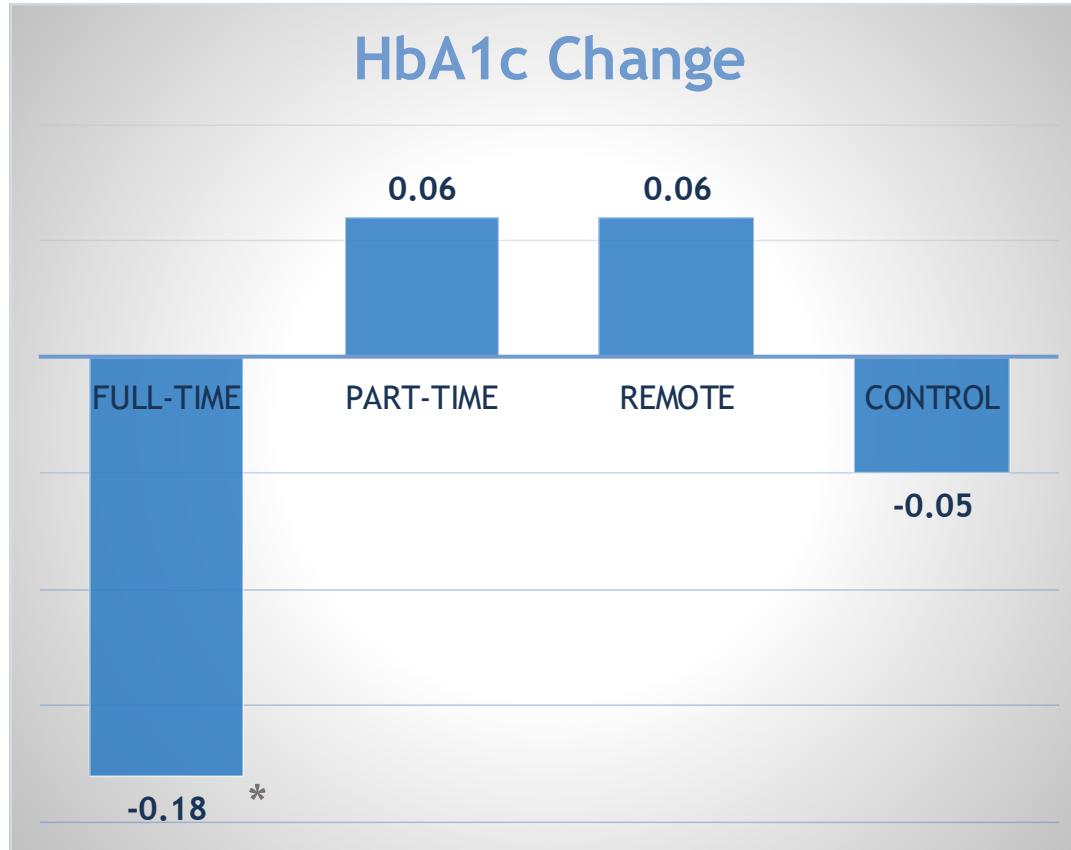
The Research Question

- How do different clinical pharmacist models of integration impact clinic-wide diabetes outcomes?
- Models include:
 1. Remote: e-consults only, no onsite clinical pharmacist
 2. Part-time: mostly e-consults; onsite clinical pharmacist 2 days per week
 3. Full-time: onsite clinical pharmacist 5 days per week

Research Design and Method

- Design: Retrospective cross-sectional study
- Population: Adults enrolled in the EHR Diabetes registry, with a clinic encounter during the study time frame regardless of direct clinical pharmacist contact/referral
- Setting: FM clinics with and without clinical pharmacy integration
- Time frame: Sep 2022-Mar 2023 (pre-integration) compared to Sep 2023-Mar 2024 (post-integration)
- Analysis: Pre vs Post comparison of mean HbA1c, BMI, and LDL in remote, part-time, full-time, and control clinics

What the Research Found



- A full-time, onsite clinical pharmacist model had the most significant improvements in diabetes HbA1c reduction.
- BMI improved significantly in all models and LDL in all models except for the part-time model.

What this means for Clinical Practice

- Direct pharmacist-patient interactions and close collaboration with primary care clinicians appear to enhance clinical management.
- Greater on-site integration of clinical pharmacists in primary care clinics may improve diabetes control relative to other models.