Utilizing an Interprofessional Workforce Development Approach to Improve Diabetic Retinopathy Screening at an FQHC Clinic

Sarah Lawson, DO¹, Desiree Rose, BA², Felipe Perez, MD² ¹The Wright Center for GME NFMR Program, ²El Rio Health

BACKGROUND / ABSTRACT

Diabetic retinopathy (DR) is a leading cause of preventable blindness in adults, yet screening rates remain below national benchmarks in many community health settings. At El Rio Health's Cherrybell Clinic, only 53% of eligible patients were receiving their annual DR screening as of the first day of our intervention on August 16 2024 – despite availability of in-office EyePAC machines.

In response, our team launched a structured, interprofessional quality improvement (QI) initiative grounded in continuing education principles. The goal was to build team-based competencies in communication, role clarity, and shared workflow design to reduce missed opportunities and improve both workforce engagement and DR screening outcomes.

PURPOSE & OBJECTIVES

To strengthen interprofessional collaboration, clarify team roles, and improve communication workflows through a structured quality improvement initiative grounded in interprofessional continuing education (IPCE) principles—with the goal of closing care gaps and increasing diabetic retinopathy screening rates at El Rio Health's Cherrybell Clinic.

METHODS / MATERIALS

TEAM FORMATION:

- Formed an interprofessional QI workgroup in August 2024.
- 14 individuals sustained participation throughout the duration of the project, including 4 physicians (1 resident and 3 attendings), 3 MAs, 1 MOR, 1 LPN, 2 PharmDs, 1 LCSW, and 2 clinic managers.
- Held bi-weekly to monthly meetings to identify barriers and test small changes using Plan-Do-Study-Act (PDSA) cycles.

This project positioned frontline staff as active participants in the OI project design and implementation — not just as implementers, but also as agents for change.



addressing care gaps.



Figures 4-7. Weekly staff feedback results, pre vs. post initial PDSA testing cycle.

^{1.} Collaborative Practice Assessment Tool (CPAT) © OIPEP Final Version – March 2009. https://interprofessional.ucsf.edu/sites/g/files/tkssra4171/f/wysiwyg/cpat-s2queen.pdf



Process Improvements as Reported in Weekly Staff Feedback (Before vs. After First PDSA Cycle):

• **↑ Use of daily huddles** to review care gaps

• 个 Designation of certified EyePAC photographers per shift

• **↑ Same-day EyePAC exams offered** to eligible patients

CLINICAL OUTCOMES:

Diabetic Retinopathy screening rates **increased** from **53% to 63%** between August 2024 and March 2025 (+10%).

TEAM DYNAMICS (CPAT SURVEY RESULTS):

Observed Shifts
Improved clarity in team goals (40% \rightarrow 100% agreement), but decreased perception of commitment to collaboration (80% \rightarrow 20%).
Increased agreement that leadership clarified roles (40% \rightarrow 80%), but overall decline in leadership ratings (5.44 \rightarrow 5.10 avg.).
Growth in perceived shared accountability (20% \rightarrow 40%), but declined perception of individual team members being held accountable for their work (20% \rightarrow 40%).

Figure 8. CPAT Post-intervention results revealed mixed signals: while team goal clarity, role definition, and shared ownership improved, challenges in individual accountability and perceptions of leadership engagement remain.

DISCUSSION

Structured interprofessional collaboration likely improved DR screening rates (+10%) through better workflow coordination, adoption of shared protocols, and enhanced communication strategies.

While we anticipated corresponding gains in perceived team dynamics and broader engagement across the clinic—not just among QI workgroup members—postintervention surveys revealed mixed results. Although role clarity and shared accountability improved, perceptions of team leadership and site-wide team unity declined. These tensions likely reflect a growing awareness of the complexity of effective teamwork.

Mixed signals highlight that shared understanding of roles, leadership, and mission remains a work in progress. Sustaining and scaling improvements will require continued investment in structured facilitation, role development, and interprofessional training across the broader clinic team.

REFERENCES