The Interprofessional Intervention Opportunities Tool: An Approach to Increase Knowledge of Roles in the Treatment of Diabetes

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Learning Objectives

- Provide healthcare teams with an efficient, educational reference tool that explores interdisciplinary interventions for Diabetes.
- Create an educational process that leads to increased role understanding between disciplines and how they could contribute to clients with diabetes in a primary care clinic.
- Promote IPE team utilization of the IIOT-D to address unique patient needs through interprofessional interventions.

Abstract

The Interprofessional Intervention Opportunities Tool (IIOT) is a color-coded flier for students and proctors at an interprofessional student-run primary care clinic that visually links many diabetes symptoms to disciplines that can provide intervention. In this clinical project, we created an online interactive training module linking the Interprofessional Education Collaborative (IPEC) competencies of teamwork and professional roles with the IIOT. In addition to the training and tool, student volunteers would be exposed to a real-world clinical setting with Unity Clinic at local partner, Good Shepherd Community Clinic. Subsequently, they were surveyed on their knowledge of different health professions' scope of care for diabetes. While this study is still in process, preliminary data shows that exposing student clinicians to the IIOT and associated training module in primary care could increase knowledge of other professions' scopes of care in the treatment of diabetes, and potentially promote services that improve client outcomes.

Introduction

What we know:

- Student clinicians in IPE are not confident in professions' scope of practice
- Students can be profession-centric when creating a care plan for clients.

The Interprofessional Intervention Opportunities Tool can be a valuable for

the following reasons:

- 1. Focusing the student on the client's needs based on their symptoms
- 2. Identifying what professions can intervene to provide appropriate care to the client
- 3. Reminding of the overlap in scope of practice (allowing for increased intervention opportunities regardless of a particular profession being absent for clinic)

Figure 1:

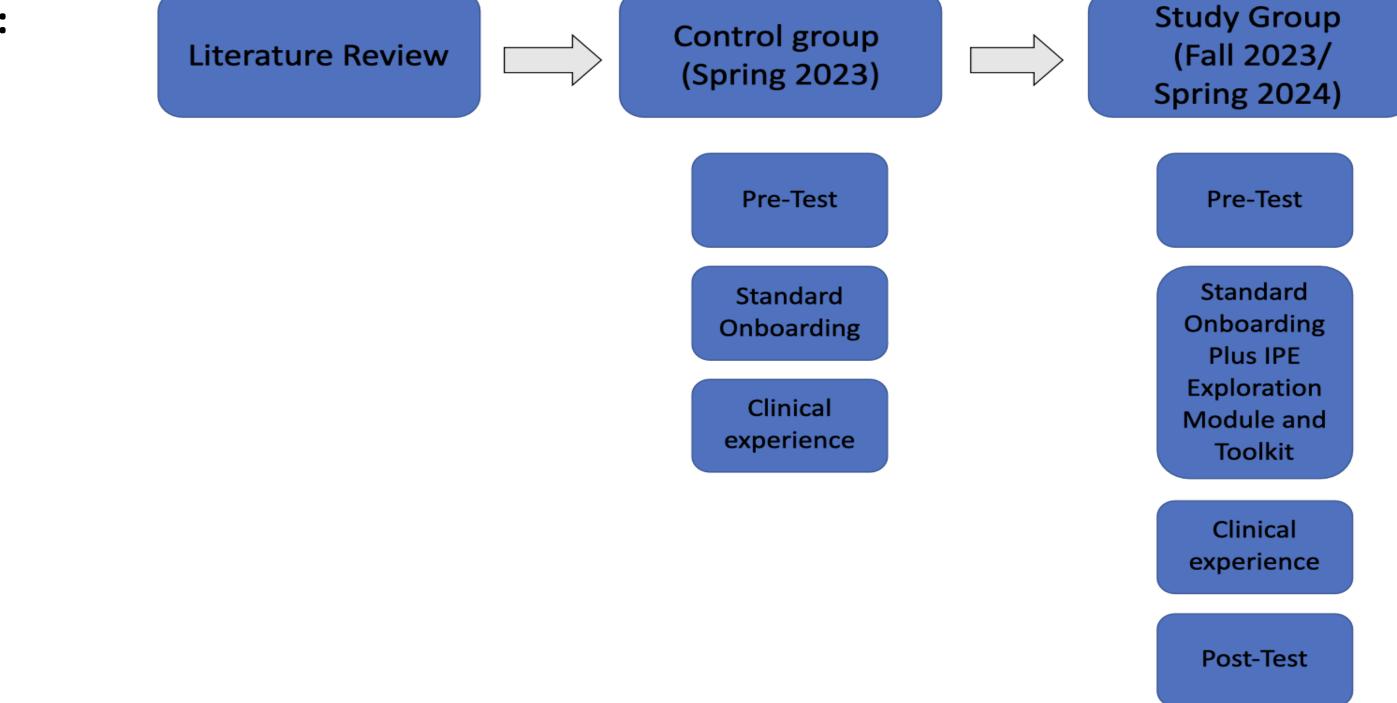
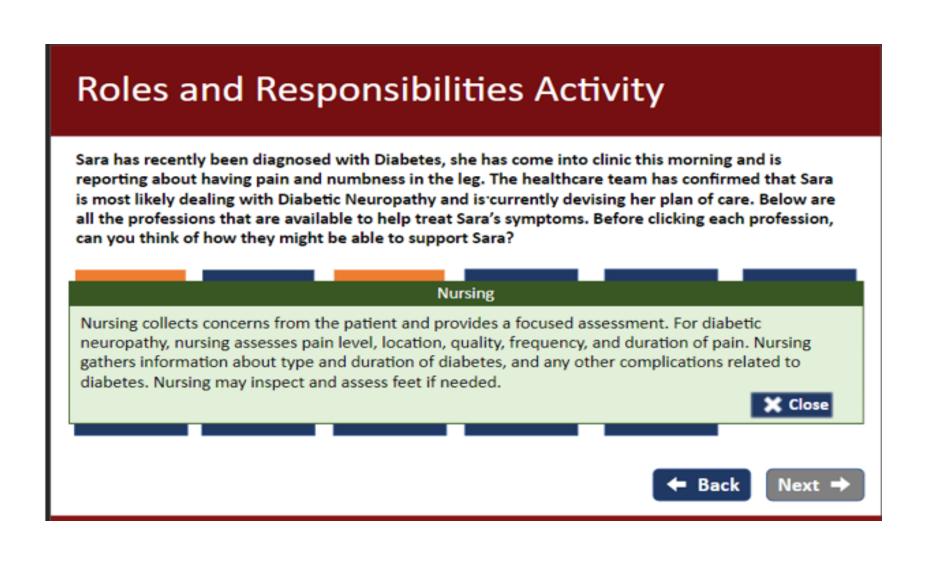


Figure 2: An example of one slide in the interactivelearning IPE module.

Interprofessional students read the scenario and click on each professions' box to learn how they overlap and compliment other professions scope of practice.



The Interprofessional Intervention **Opportunities Tool** List of Common Diabetes Symptoms Vision Loss Medication Non-Home Safety Unhealthy Habits and Community Mobility Routines Concerns Cognitive Screenings Falls/Risk Hearing Loss Food Access Hypoglycemia Depression/Diabetes Medication Distress/Burnout Administration Managing Blood Symptom Management Glucose Levels TEAM MEMBER INVOLVEMENT LEGEND Physical Therapy Audiology Nursing Dentistry/Dental Hygiene Social Work Occupational Therapy Speech Language The Patient Pharmacy Pathology Interdisciplinary Programs OFFICE of the VICE PROVIST FOR ACADEMIC AFFAIRS & FACULTY DEVELOPMENT Developed by: Lisa Milhan, Raina Leckie, Rahma Osmar Copyrighted Board of Regents University of Oklahoma 2022

Methodology (figure 1)

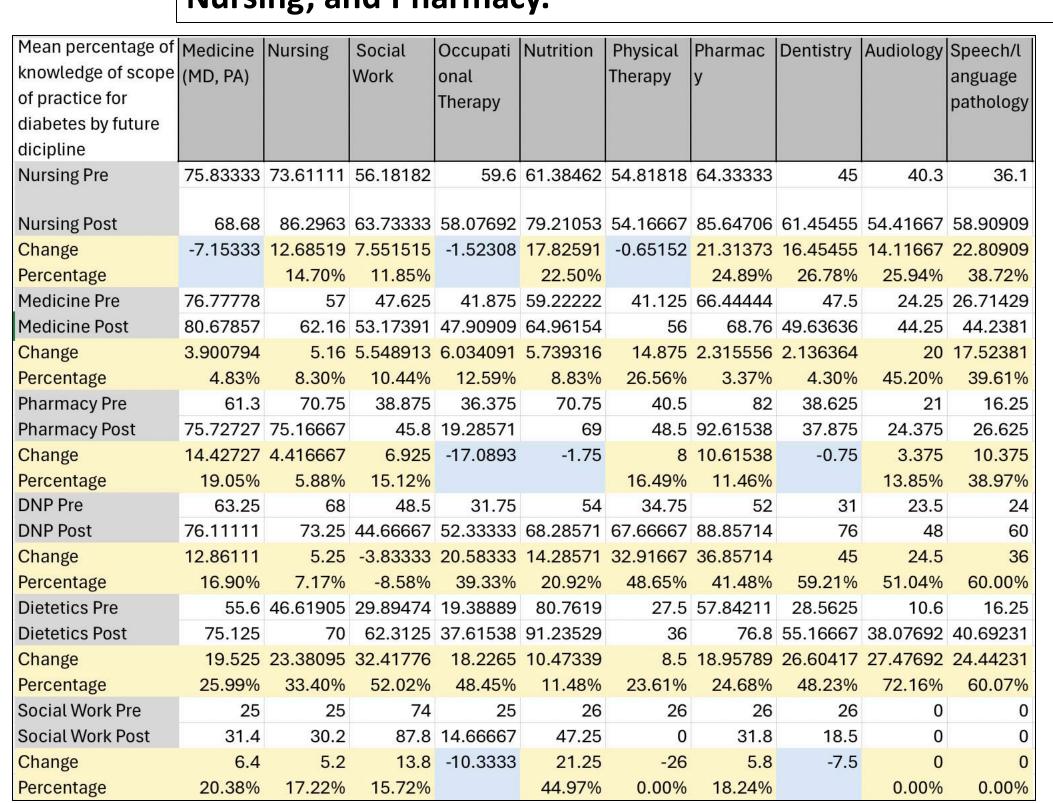
We first conducted a literature review on IPE programs in primary care, IPE specific to diabetes intervention, IPE educational tools, and occupational therapy and IPE in primary care, finding gaps in understanding occupational therapy, any individual profession's scope of practice related to diabetes management in primary care, and in quick visual tools to support IPE and utilization of interprofessional services. The IIOT was created in coordination with health profession representatives. We also created an online interactive training module linking the Interprofessional Education Collaborative (IPEC) competencies of teamwork and professional roles with the IIOT through a case study (figure 2).

At the end of 2022, 129 students from various professional programs had completed the online module and quiz. Anecdotal responses stated that it was useful, but we could not determine the tool's effectiveness at that time. To further investigate this, we continued the research in a clinical design to test if the IIOT increases scope of practice knowledge better than IPE clinic experiences without the tool. Students were introduced to the IIOT and the associated IPEC learning module before a clinical experience at Good Shepherd Clinic, and also participated in pre and post-quizzes to assess their knowledge level of profession-specific interventions for diabetes. Students had access to the IIOT in the clinic setting to assist in conversations between disciplines during treatment planning. The control group data (IPEC module only) was implemented in Spring 2023. Test group data (IPEC module plus IIOT) began in Fall 2023 and is continuing now into Spring 2024.

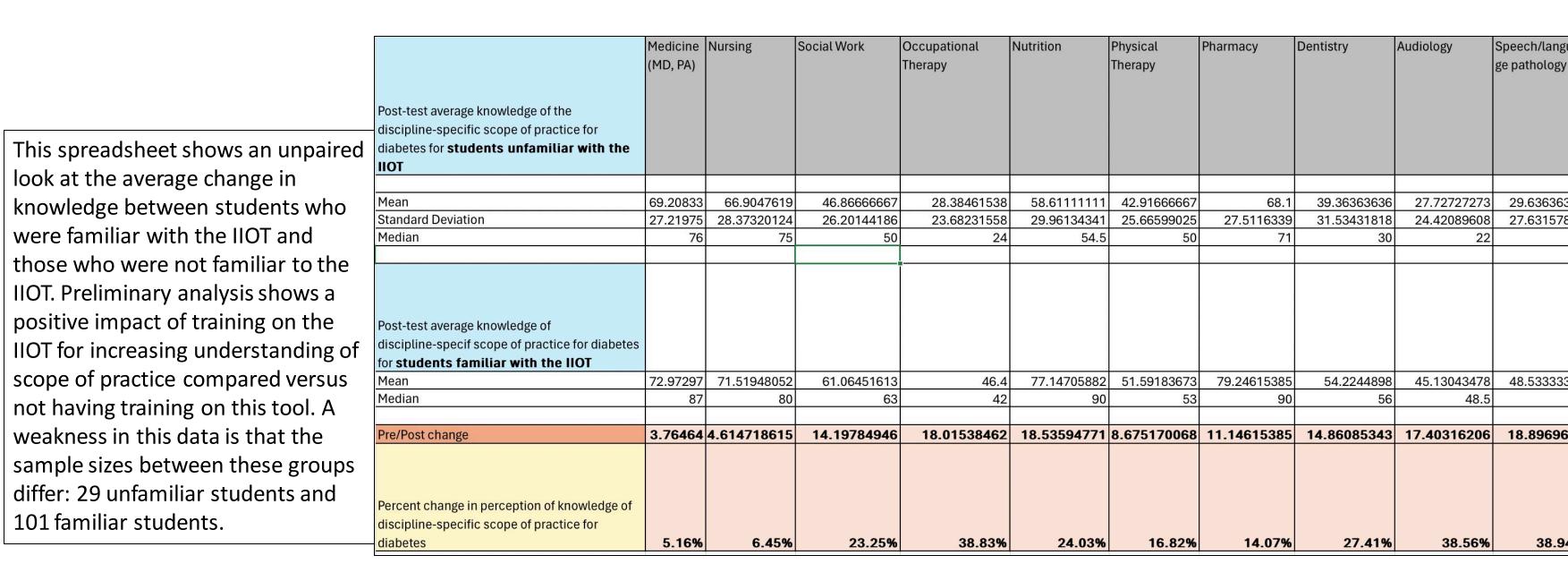
Interdisciplinary Programs

Results

These results were shown with occasional absences of these professions at the clinic, as seen by the responses to a question which asked students what disciplines they thought were needed for patient care but not available. The most common responses, in no specific order, were: Physical Therapy, Social Work, Audiology, Occupational Therapy, Dentistry, Nutrition, Nursing, and Pharmacy.



This spreadsheet shows an unpaired look at the average change in knowledge (percent) between students of specific disciplines reported on a 0-100% scale.



Impact

How does this help health profession students?

- Demonstrates the breadth for which different professions can assist patients with diabetes
- Identifies scope of **practice overlap** with other professions
- May increase awareness of professions' value in primary care
- Provides students with a visual reminder of their own scope of practice and improve interprofessional communication

Why did we create our visual aid around clients with diabetes?

- Focus our interprofessional education on the Quadruple Aim: improving population health, enhancing the client's experience, easing burnout in and burden on practitioners, and reducing costs
- Align with the IPEC core competencies: values/ethics, roles/responsibilities, communication, teamwork
- Provide a tool to aid the treatment of one of the most common and costly diagnoses in Oklahoma and improve the outcomes for diabetes patients (which can be adversely affected by not providing holistic, evidence-based care from a team of professionals (Feldhacker & Doll, 2020).
- Every student professional involved in the IPE programs will likely provide intervention to someone who has diabetes.

Conclusion

The IIOT could be an effective tool for students to increase knowledge of different health professions in treating diabetes in the primary care setting, but this study is currently still in progress. Limitations to the current tool include: coloring may not support those with color blindness, font is small for those with vision limitations, some professions are not included because they do not currently participate in the Unity Clinic program, uneven sample sizes for those familiar to the tool versus not familiar, and unpaired data points. Although we chose diabetes for this study, we are hopeful that the IIOT could be adapted to a number of health conditions, in different clinical settings. We look forward to continuing to collect and analyze data to test the effectiveness of this tool, and continually focus our interprofessional education efforts on the quadruple aim.



