

# Getting a Foot in the Door: Improving the Completion and Documentation of the Diabetic Foot Exam at the ECU Internal Medicine and Pediatrics Clinic



Anita Gandhi, BSPH; Mary Catherine Turner, MD  
The Brody School of Medicine

## BACKGROUND

Foot ulcers are one of the most common complications of diabetes. If left untreated, foot ulcers can worsen and lead to deformities, and even amputations.<sup>1</sup>

The American Diabetes Association recommends an annual diabetic foot exam with a monofilament, which can clue providers into sensory changes that can be prevented from worsening.<sup>2</sup>

1. Oliver TI, Mutluoglu M. Diabetic Foot Ulcer. [Updated 2021 Aug 19]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2022 Jan.  
2. Wu, Stephanie C et al. "Foot ulcers in the diabetic patient, prevention and treatment." *Vascular health and risk management* vol. 3,1 (2007): 65-76.

## PROJECT AIM

**Global Aim:** To reduce the incidence of ulcer formation and foot amputations secondary to diabetic neuropathy.

**Specific Aim:** By January 15th, 2022, 75% of patients between the ages of 18-75 who have been diagnosed with diabetes will have documentation of a received foot exam in the past one year at the ECU APHC.

## PROJECT DESIGN

**Location:** The ECU Internal Medicine-Pediatrics Combined Clinic

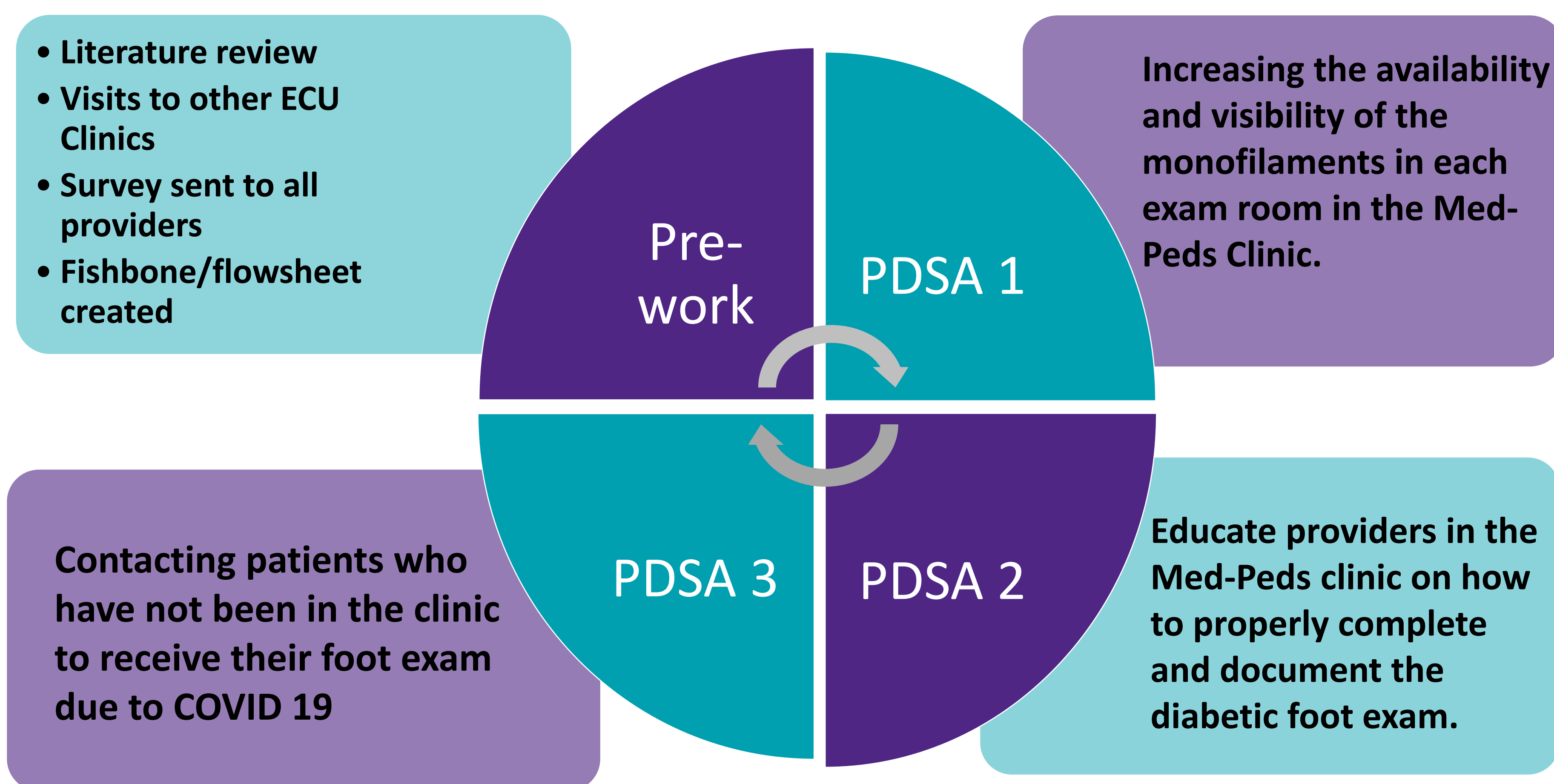
**Length:** March 2021 – March 2022

**Framework:** Plan-Do-Study-Act Cycles (PDSA)

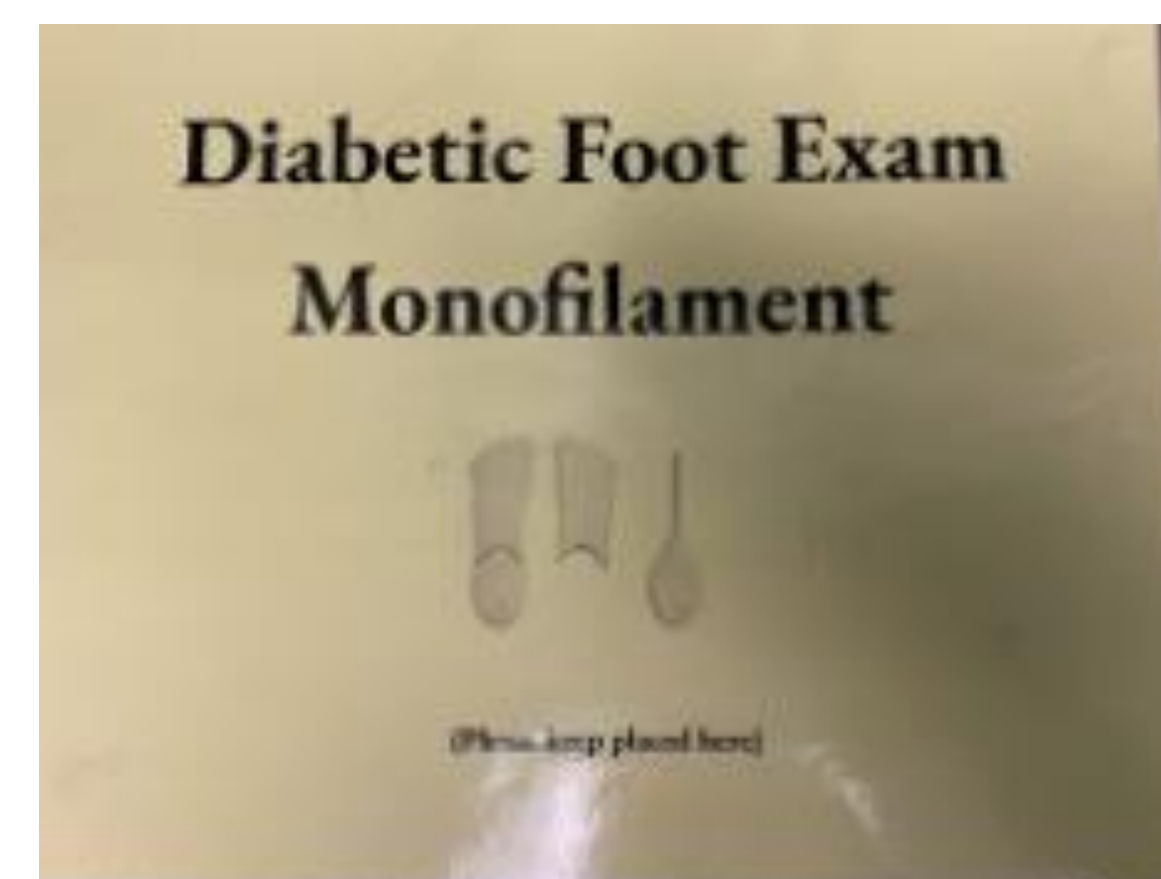
**Outcome Measure:** Average monthly percentage of completed diabetic foot exams in EPIC.

**Balancing Measure:** Incorrect foot exam completion.

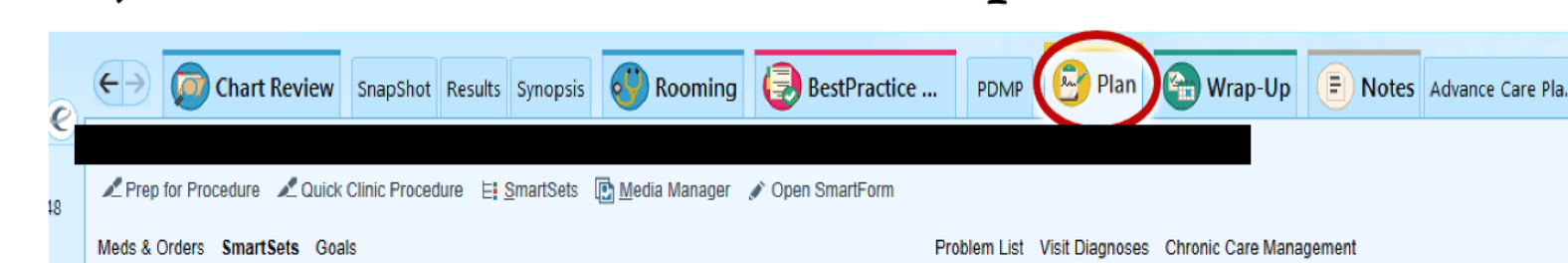
## PROJECT STRATEGY/CHANGES MADE (PDSA CYCLES)



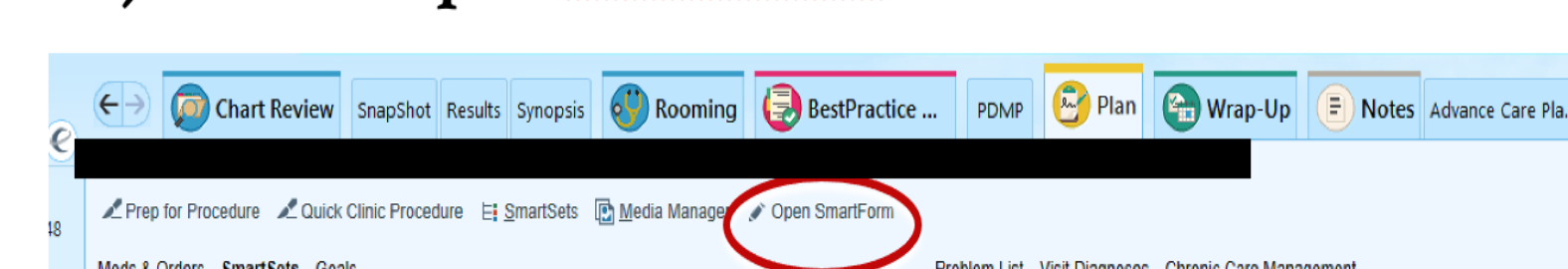
## DOCUMENTATION



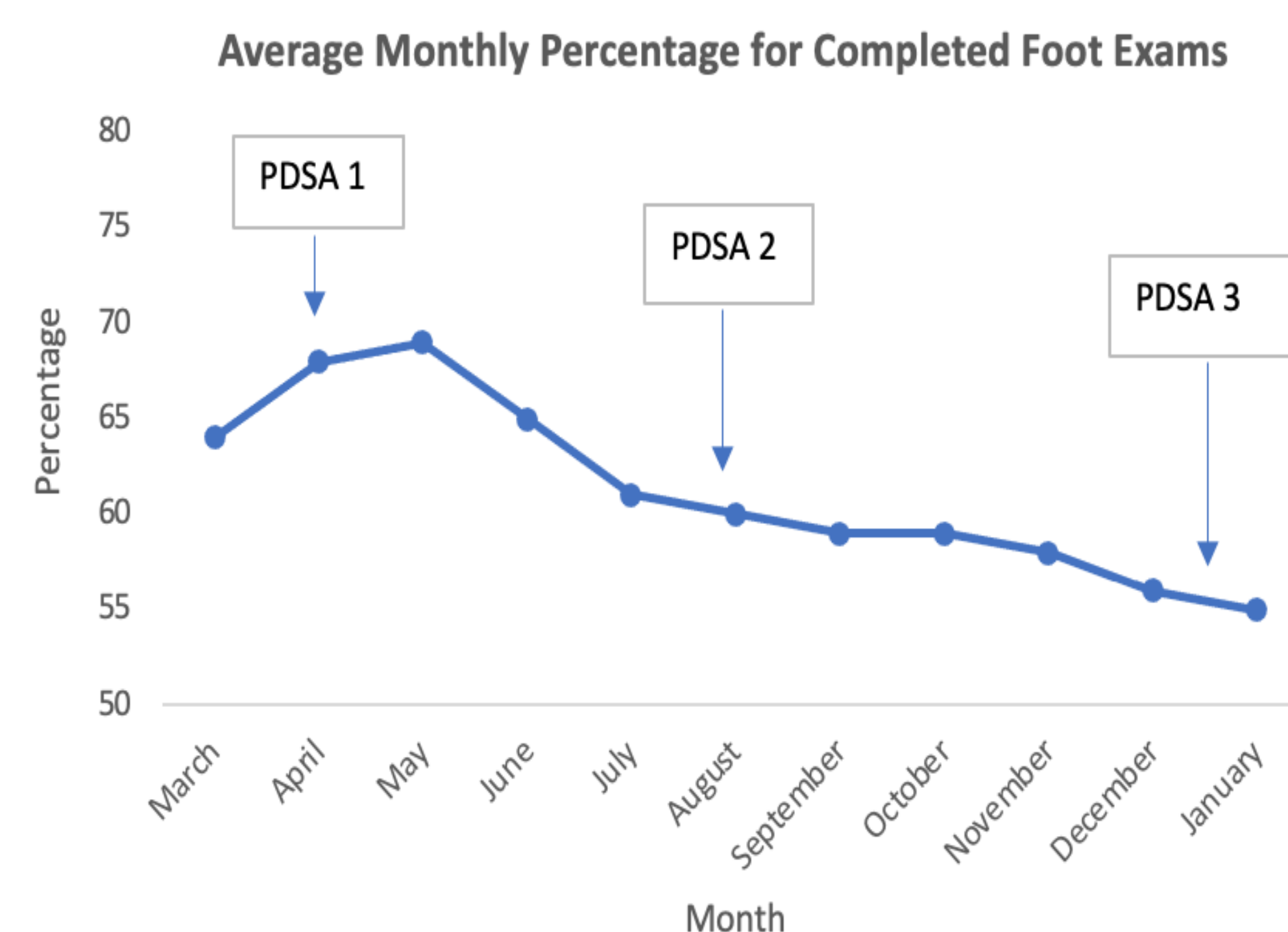
1). Go to the "Plan Tab" in the patient's chart:



2). Click "Open Smartform:"



## RESULTS/OUTCOMES



### Interpretation of results:

- Percentages increased after PDSA 1, but then declined after PDSA 2 and 3.
- Results may lag since patients with diabetes come in every three to six months for an A1C check.

## LESSONS LEARNED

- Monofilaments need to be available and visible in clinics.
- An education component did not seem to help increase screening percentages
- Overall reasons for continued decline are multi-factorial and include the COVID-19 pandemic, new incoming residents, time constraints with patients, patient no-shows, difficulty navigating the electronic medical record, integrating the smartform into the patient note, missing monofilaments, and perceived importance of the foot exam in relation to other clinical responsibilities.
- Buy-in may be one of the biggest barriers.
- Some providers had lower screening rates than others.

## NEXT STEPS

- Continue to monitor documentation percentages
- Implement a resident champion
- Relocate the diabetic foot exam smartform
- Create targeted interventions for providers
- Continue to schedule patients with missed exams
- Continue to maintain visibility of monofilament
- Consider that providers carry monofilaments on their person
- Continuing to provide medical education to ensure buy-in

## ACKNOWLEDGEMENTS

This project would not have been possible without the support and guidance from Dr. Mary Catherine Turner and the Leaders in Innovative Care faculty – Drs. Reeder and Lazorick.

Anita Gandhi  
The Brody School of Medicine  
Greenville, North Carolina 27858  
919-935-2725  
gandhia18@students.ecu.edu