

# An exemplar to address clinical competency in a primary care fellowship

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# Abstract

#### **Needs Assessment**

The Covid-19 pandemic has had a negative impact on clinical experiential learning for nurse practitioner (NP) and nurse midwife (CNM) students. During one post graduate fellowship, gaps in clinical competency were identified in new graduate fellows serving in a large Federally Qualified Healthcare Center. The fellowship faculty evaluated the deficits using multi-modal methods including survey tools, objective observation, and during precepted clinics.

## **Objectives:**

- 1) Learn strategies to assess clinical preparedness of NP Fellows
- 2) Utilize tools to support NP Fellows to achieve standards of clinical competency
- 3) Mitigate the impact of Covid-19 on struggling learners with three distinct methods

### Purpose

To identify and support struggling NP fellows early in a 12-month primary care fellowship to assure completion of the program year through improvement of clinical confidence, high quality primary care, and safe clinical practice.

# Methods

The faculty completed an assessment, intervention, and evaluation to address the disparate experience of NP students during the COVID-10 pandemic. First, the fellows completed different baseline measurements including formal evaluation methods using the Diagnostic Thinking Inventory (DTI) and simulation lab case-based assessment. Next, faculty provided a variety of interventions based on the findings including didactic session, fellow led case presentations, faculty/preceptor partnered process improving plans and intensive faculty preceptor support. Lastly, the interventions were evaluated using multimodal methods.

## **Principal observations**

Developing and implementing multipronged plan focused on assurance of clinical competency for fellows trained after the COVID-19. Providing support in all aspects of the curriculum including experiential learning simulations, diagnostic illness scripts, case based learning and focused process improvement plans contributed to the improvement of clinical competency for NP and CNM's in their first year of practice.

## **Impact**

The interventions performed helped to increase the clinical competency of APRN's trained during the COVID-19 pandemic and successfully trained seventeen advanced practice registered nurses. These interventions can be applied to a variety of post graduate training programs for advanced practice registered Illness Script template

Illness Script Template	Pelvic pain			
	Attributes	Dx1 - PID	Dx2 - dealers choice	Dx3 - DC
Epidemiology	Age/Sex/Race,Ethnicity Family Hx Habits, exposures/meds Comorbidities if any		I	
Patho-physiology.	Onset			
Typical presentation	Site Severity Chronology Exam Findings Lab Findings Image Findings			

# Introduction

The Covid-19 pandemic has had a negative impact clinical experiential learning for nurse practitioners' students. Due to shelter in place orders, risk of infection and morbidity and mortality, NP and CNM students' curriculum for clinical competency became dependent on virtual simulation training. During one post graduate fellowship, primary Federally Qualified Healthcare Center clinically competency issues were identified, and faculty evaluated deficits through multi-modal methods including survey tools, objective observation and during precepted clinics.

To respond to the need for more robust clinical support including physical exam skills, procedural skills, interpreting diagnostic tests and building robust diagnostics skills the faculty created a multiprong approach to meet the needs of the learners.

# Methodology

### Assessment

1. Simulation: Full scope simulation lab experience where fellows were given case based clinical cases with live actors, interactive mannequins and actors.

Clinical competency was assessed using scale:

- a. correctly obtain history
- b. include pertinent aspects of physical exam
- c. order appropriate tests
- d. provide differential diagnosis with appropriate management plan

## 2. Surveys:

- a. Learners' assessments
- b. Diagnostic Thinking Inventory (DTI)
- c. Baseline self-assessment

# Intervention

▲ FNP Fellow Evaluation

including developmentally appropriate milestones

Fellow performs an age appropriate physical examination

Orders appropriate medications (considering dose, cost etc)

Please assign a score to every medical condition listed below

4. Orders appropriate screening and diagnostic tests.

o Gastroesophageal reflux o COPD

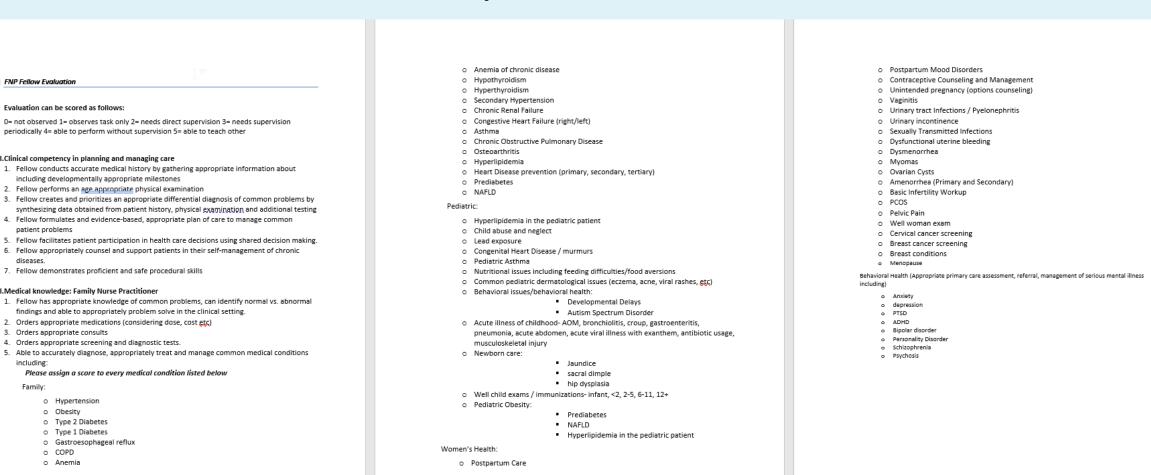
Didactic session adaptations:

- a. Diagnostic Reasoning/Diagnostic Scripts
- b. Case Based Team Based Learning

Focused Mentorship/Process Improvement Approach:

- a. Focused Process improvement plans
- b. Faculty focused continuity clinics for real time feedback

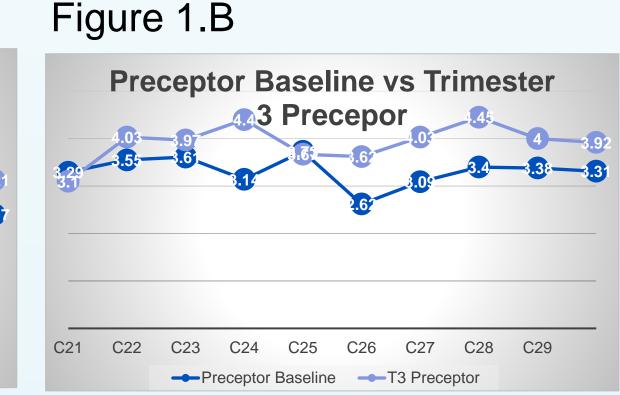
## Sample Evaluation

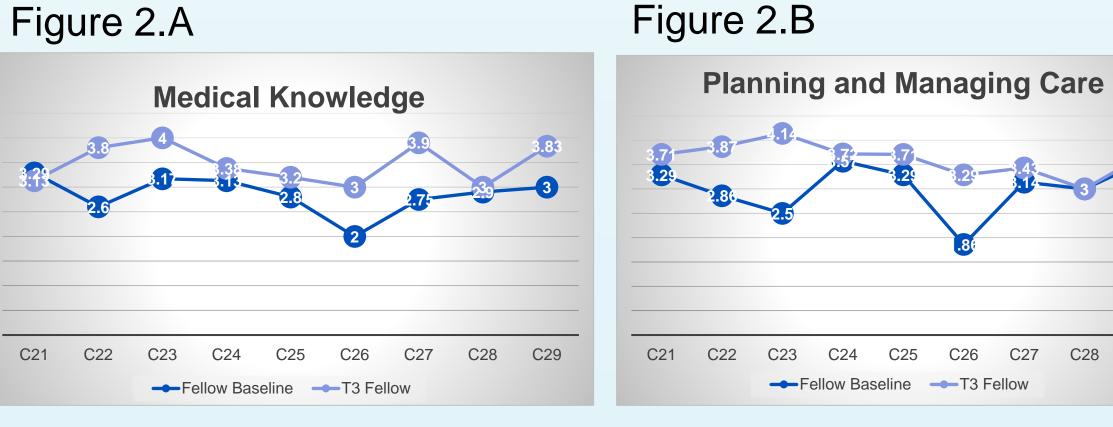


## Results

Despite evaluation baseline scores being lower than the previous cohort figure 1.A and 1B demonstrate the overall improvement in holistic clinical knowledge, professionalism, communication, diagnostic skills, systems-based practice and interprofessional collaboration and evaluations. Moreover, despite initial concerns for clinical competency the completion rate for this cohort was 100% (n=9). The last figure demonstrates the improvement medical knowledge and planning/managing care respectively (Figure 2.A, 2B.). We were unable to provide the results from the DTI with a change to baseline due to data being lost.

Figure 1.A **Fellow Baseline vs Fellow** Trimester 3





# Conclusion

Overall, the baseline assessment, intervention and implementation of the multiprong approach to improve clinical competency shows promise. The initiation of focused faculty interventions, process improvement plans, didactics that focus on illness scripts and consistent constructive feedback has proven successful. Despite challenges 100% of the fellows from this cohort completed the program and are employed in underserved populations or FQHC's.

# Recommendations

The COVID-19 pandemic has changed healthcare and nursing graduate/doctoral level clinical education. Post graduate fellowships can bridge the gaps and provide more time for development of clinical competency. By providing multiple modal support through well developed curriculum can lead to successful completion of the fellowship and building the workforce for underserved NP/CNM primary care.

# Acknowledgements

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