

Depression Screening in Clinic Patients with a Cancer Diagnosis following Standardization of Intake Screening

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Background

- There is an estimated increased prevalence of Major Depressive Disorder (11%) amongst patients with cancer, with an estimated prevalence of only 5-6% in the general population.
- The 2022 NCCN guidelines recommend distress screening, including emotional assessment, ideally at each visit for patients with a diagnosis or history of cancer.
- Our previous randomized retrospective analysis of 100 encounters in patients with a cancer diagnosis found that a PHQ-2 was administered and documented in only 53% of encounters.
- In January 2021, a standardized nursing intake form including a PHQ-2 screen was introduced in both the Academic Internal Medicine (AIMC) and Medicine-Pediatrics (UPED) clinics.
- The goal of the paper form was to streamline the intake and checkout process, help identify possible high-risk conditions i.e. depression, and aid in the efficiency of provider visits.

Aim

- The objective of this study was to assess the rates of completion of depression screening in clinic cancer patients using a PHQ-2 or PHQ-9 on EPIC following the implementation of a standardized nursing intake form.
- This study also aimed to assess the rates of referral to psychology/psychiatry or medical management following the introduction of the nursing intake form.

INTAKE SECTION	
Visit Information	Screening Questions
Enter in Epic. Inform Provider of any abnormal values	Enter answers in Epic
Chief Complaint:	Falls Have you fallen in the past 6 months? Y N
Allergies:	Do you need help standing or walking? Y N
Diabetic? YES, NO Glucose: (< 70 or >350)	Do you have dizziness or lightheadedness? Y N
Weight: Height:	Depression (If yes to either complete PHQ 9 in EPIC) Over the last 2 weeks, have you had little interest or pleasure in doing things? Y N
BP: (< 90 or >180 DBP >110)	Over the last 2 weeks, have you felt down, depressed, or hopeless? Y N
P: (< 50 or >110)	PHQ 9 Score (if applicable)
R: (< 12 or > 20)	Smoking Do you smoke cigarettes? Y N
T: (< 96.4 or >100.4)	Do you smoke E-cigarettes? Y N
Pulse OX: (<95)	Pharmacy Name and Address Required:
Pain: (>5) Location:	

Figure 1. Example of Intake Form.

References

1. Meijer, Anna, et al. "Depression screening and patient outcomes in cancer: a systematic review." PloS one 6.11 (2011): e27181.
2. National Comprehensive Cancer Network. (2019). *NCCN Guidelines for Distress Management (version 3.2019)*. Retrieved from <https://nccn.org/view/journals/nccn/17/10/article-p1229.xml>
3. National Comprehensive Cancer Network. (2020). *NCCN Guidelines for Patients Distress During Cancer Care (version 2.2020)*. Retrieved from <https://www.nccn.org/patients/guidelines/content/PDF/distress-patient.pdf>

Methods

- Retrospective chart review
- A randomized sample of 100 primary care encounters for patients with a cancer diagnosis seen in the AIMC and UPED clinics between February 2021 and February 2022
- The primary outcome measures were:
 - Documentation of PHQ-2
 - Documentation of PHQ-9
 - Referral to Psychology/Mental Health
 - Medication management addressed in the plan

Results

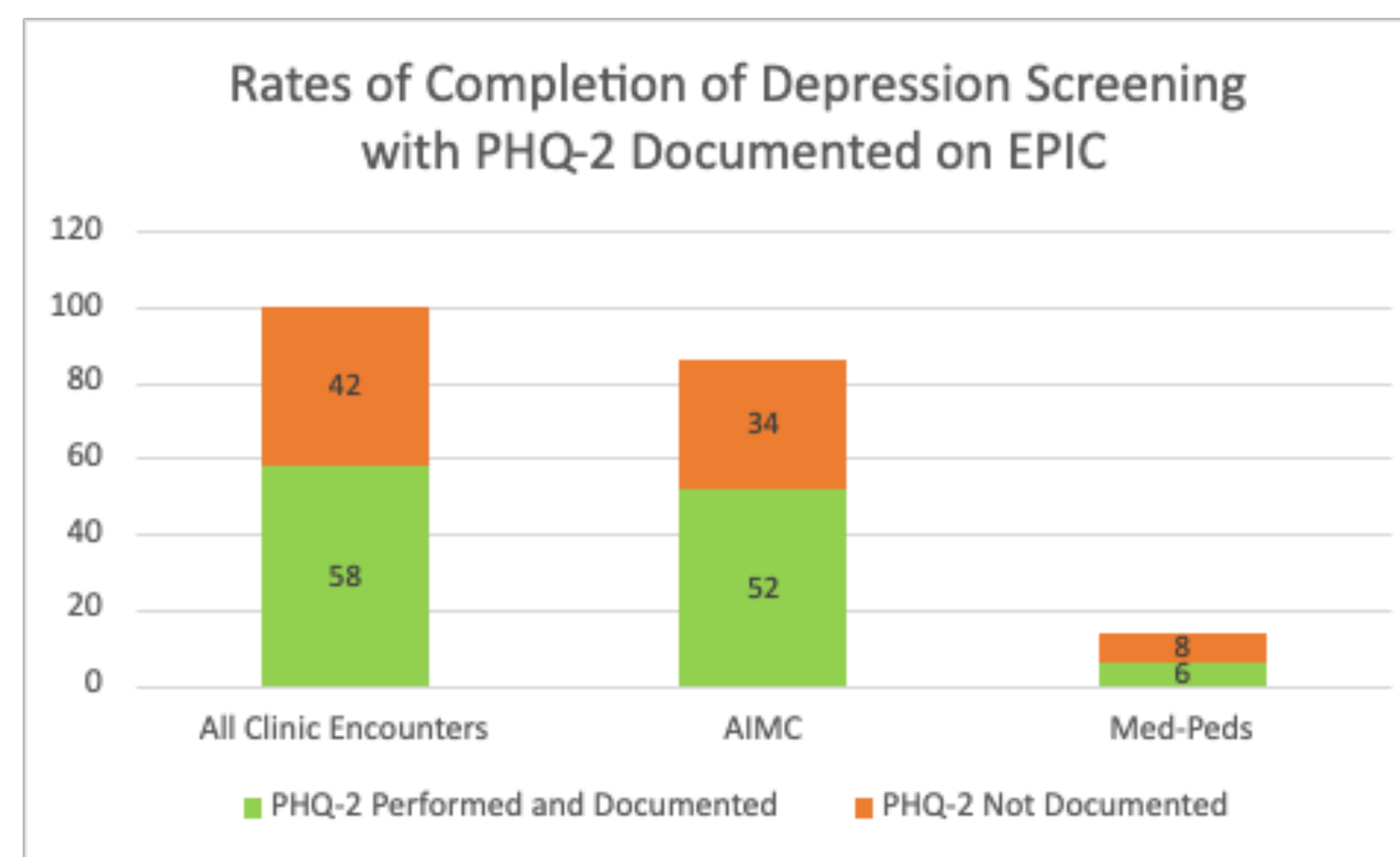


Figure 2. Rates of PHQ-2 Documentation and Completion on EPIC.

	Pre-Intervention (n=100)	Post-Intervention (n=100)
Total Number of PHQ-2 Documented	53.00%	58.00%
AIMC PHQ-2 Documented	52.86%	60.47%
Med Peds PHQ-2 Documented	25.00%	42.86%

Table 1. Rates of PHQ-2 Documentation on EPIC pre-intervention and post-intervention (p=0.5).

- Of 100 encounters, 58 PHQ-2 screens were documented. Only 2 (3.5%) were positive. A reflex PHQ-9 screen was administered and documented on EPIC in one instance, and depression was addressed in the plan with a referral to mental health and medication management.
- In the second scenario, a PHQ-9 screen was not documented, however, depression was addressed in the plan as the patient was already on medication management and following with mental health.
- In one scenario, a positive PHQ-2 screen did not trigger a reflex PHQ-9 screen. However, depression was still addressed in the plan.

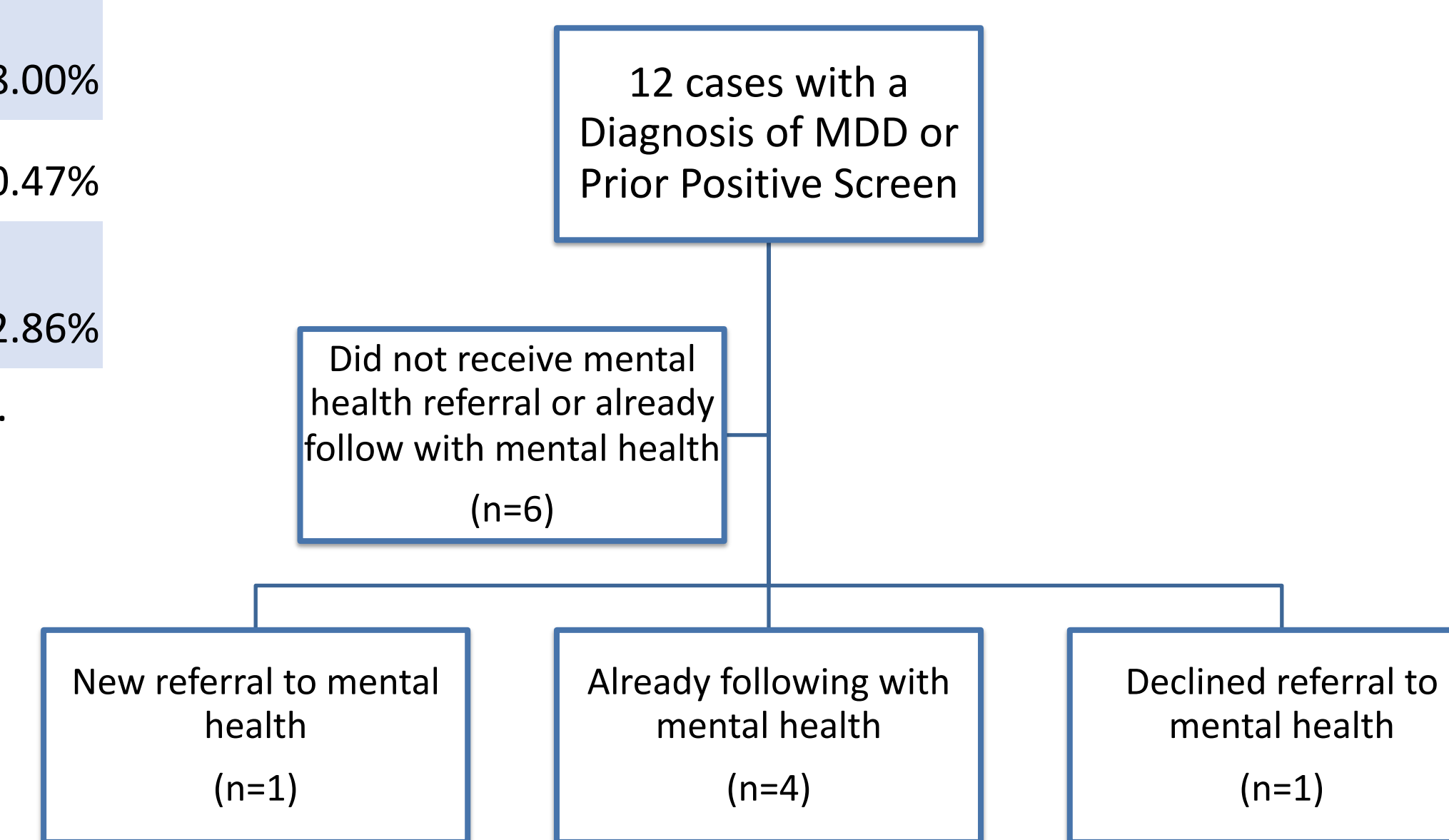


Figure 3. Referral to Mental Health in patients with a prior diagnosis of MDD or history of a positive screen.

Conclusions

- The overall incidence of PHQ-2/PHQ-9 screening and documentation increased from 53% to 58% following the implementation of standardized nursing intake forms in the academic clinics, however, the results were not statistically significant (p=0.5).
- Even when a PHQ-2 or PHQ-9 screen was not entered in EPIC, residents continued to address management of depression in the "Plan" section of their visit encounter in patients with a positive screen or prior diagnosis of MDD.

Discussion

- Many limitations prevent effective documentation of depression screening on EPIC
 - Time constraints in the clinic require technicians to empty the intake room in order to start the next visit and maintain flow.
 - A positive PHQ-2 results in a reflex PHQ-9 which is time-consuming and cumbersome, especially in the setting of a possible language barrier.
 - Suboptimal EPIC user experience leads to limited visibility of screenings.
 - Resident clinicians are only instructed once during clinic orientation on how to access or update this information.
- Performing intake using a mobile workstation or in-room workstation once the patient is roomed may expedite intake documentation.
- Additional training may allow residents to document depression screening when indicated, and offload some of the responsibility from the technician.
- A Best Practice Alert (BPA) on EPIC should be raised if a patient has not had a depression screen performed within the last year. If the screen at a recent encounter or during the current encounter is positive, physicians should be linked to a management order set.
- Lastly, self-completion of intake by patients on MyChart may result in improved outcomes.