Improving usage of PHQ-9 to increase depression screening among HIV patients. Lucy Mukundi, BSN, RN. Deborah Busch, DNP, RN, CPNP-PC, IBCLC



Introduction and Background

- Depression is highly prevalent among HIV patients (20-40%) and is associated with negative health outcomes.
- It is underrecognized and undertreated by healthcare providers.
- Current HIV guidelines recommend depression screening at least annually and as needed using the PHQ-9.
- The HIV clinic had no standardized tool and protocol to screen patients for clinical depression, and PHQ-9 was not embedded in the EHR.
- Most HIV providers at the site screened patients verbally.

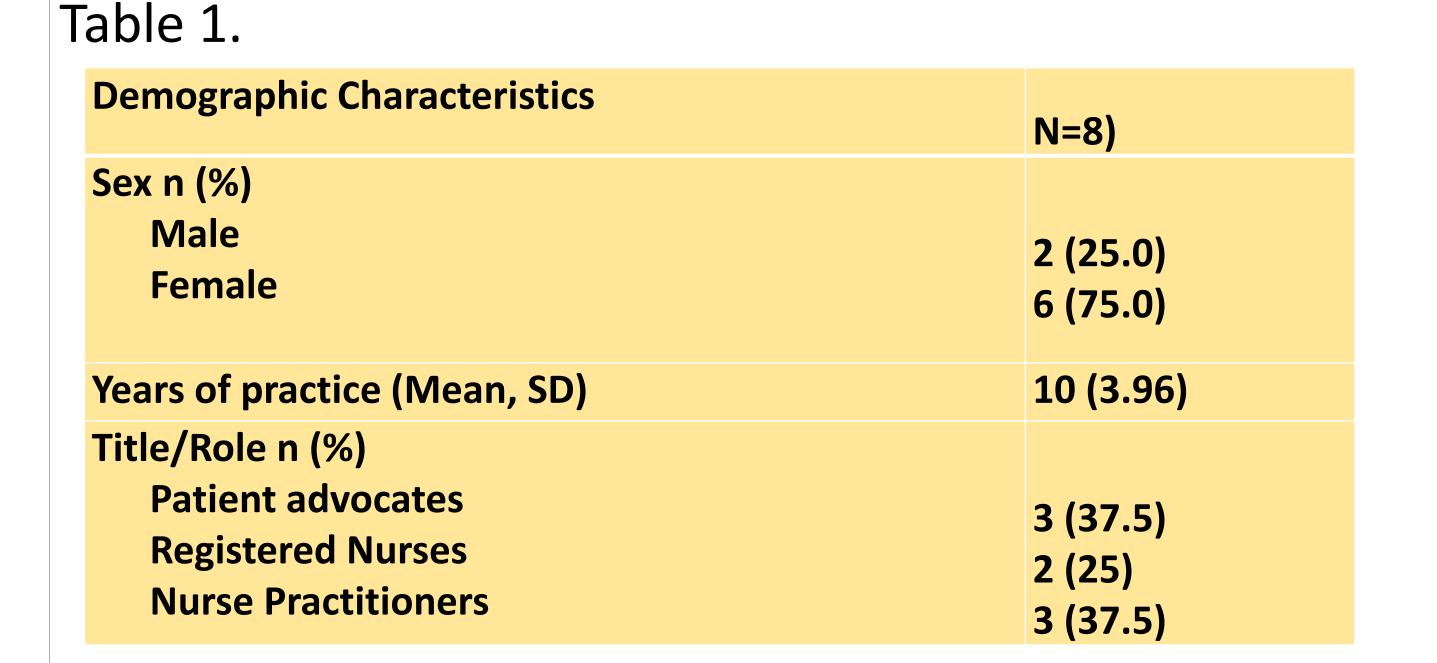
Purpose and Aims

The purpose of this project was to assist a city HIV clinic standardize depression using the PHQ-9 screening tool and to integrate and sustain a depression screening protocol. Aim 1: To increase clinic staff's knowledge and attitudes on depression screening through an educational intervention. Aim 2: Increase identification and treatment of depressed patients through usage of PHQ-9 and developing a depression screening protocol.

Methods

Design: a pre- and post-intervention quality improvement project implemented over 12-week period. Setting: Infectious disease outpatient HIV clinic located in an urban Health Department in the Mid-Atlantic Sample: 8 HIV clinic staff (NPs, RNs & advocates).

Intervention: Power point educational module on depression and HIV delivered via email to participants



Aim 1:

a) Knowledge- pre and posttest scores Results from Wilcoxon Signed Rank Test: Scores increased from 87.5% to 98.8%, an 11.3% increase and a p > .0067.

Fig. 1 Pre & Post test scores 120 100 Post test **Pretest**

b) Attitudes scores

The R-DAQ showed an overall positive attitude towards depression with a Cronbach's alpha value of .841. Scores showed 66% professional confidence, 79% on optimism about depression treatment and 80 % showed positive general perspective on depression.

Aim 2:

Retrospective chart review (N=50) revealed 6% usage of PHQ-9 pre intervention vs **54**% post intervention.

Results

	Pre- intervention	Post intervention
Charts reviewed	N=50	N=50
PHQ - 9 Total screened (+) PHQ-9	3 (6 %)	27 (54 %) 12 (44%)
(-) PHQ-9	2	15 (56%)
Depression severity Mild (PHQ-9: 5-9) Moderate (PHQ-9:10-19)	1	2 (17%) 8 (66 %)
Severe (PHQ-9: 20-27)		2 (17%)
Treated/Referred (n=11)	1	7 (58%)

- Depression screening increased by 48% with a Pearson Chi square significance of .650.
- Depression positivity rate was 44 % and referral/treatment rate 58 %.
- 42% of patients with depression were neither treated or referred.
- Documentation of PHQ-9 scores incorporated in the EHR
- A depression screening protocol was developed and will be sustained to guide and standardize screening at the site.

Conclusions

- o Early identification of depression among PLWHA enhances timely treatment and limits the negative impact of depression on patient outcomes
- o Depression screening by use of a valid standardized tool (PHQ-9) in HIV care can improve identification and management of depressed patients in HIV settings.
- o Developing and adhering to a screening protocol can standardize care among providers and ensure accurate diagnosis, effective treatment, and appropriate follow-up of patients.

References available upon request.