

### Objectives

- Describe relevance of identifying depression in a clinic based HIV population
- Review process for screening depression using Patient Health Questionnaire (PHQ 9) in an infectious disease primary care clinic
- Define results of QI Project

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#### Background and Significance

- University of Colorado Hospital, Infectious Disease Group Practice (IDGP) provides specialty and primary care for its HIV positive patients
- Primary Care Guidelines include screening for depression

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# Background and Significance

• The Quality Improvement Project (QIP) was undertaken to identify the prevalence of unrecognized depression in the Infectious Disease Group Practice (IDGP)

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# **Evaluation Questions**

- Would PCPs in ID clinic utilize the Patient Health Questionnaire (PHQ 9) to screen for depression?
- Does screening & identifying patients with depression uncover untreated depression in the IDGP?
- Of patients screened what % are referred to MH?
- Of patients screened what % have Face to Face or Phone Contact with the ID Clinic within 45 days

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#### IDGP Depression Screening QIP Background

- Prevalence of depression occurs 4 22% of HIV infected men & 2 18% of HIV infected women
- Nearly 50% PLWH (N=2864) identified as having a psychiatric disorder
- 30% identified with major depression

Benton, 2008, Ohl et al., 2008

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• Most common diagnosis in study looking at psychiatric comorbidities in HIV positive population (N=152) 32% depression diagnosis in past year (21% in past month)

Gaynes, et al., 2008.

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## IDGP Depression Screening Local Problem

- Previously no formal depression screening in IDGP
- Patients self identified or were identified by providers through the course of primary care interview

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#### IDGP Depression Screening Methods

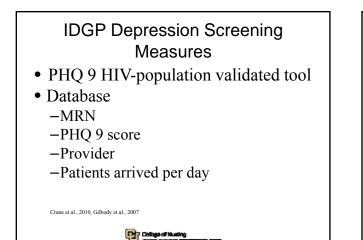
- Pre / Post Design
- 200 charts reviewed for baseline depression screening information
- Post test data collected from January 2012 to March 2012
- Post data collection included chart review & collection of over 200 PHQ 9s

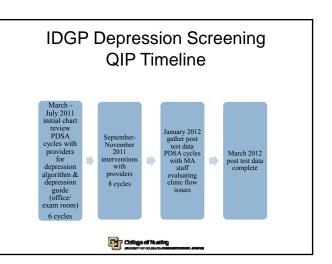
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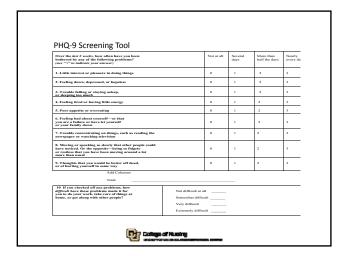
#### IDGP Depression Screening Methods

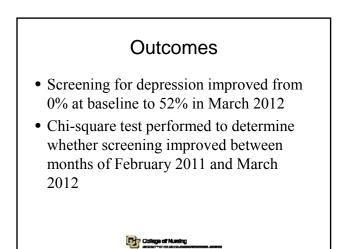
- In-Clinic QIP no consent necessary
- Plan Do Study Act Cycles (PDSA) with Providers and Clinic Staff
  - PDSA cycles assessing clinic flow & how to implement PHQ 9 in daily clinic visits
  - Developing depression algorithm & guides
- MA Staff were responsible for giving PHQ 9 to patients prior to visit with PCP

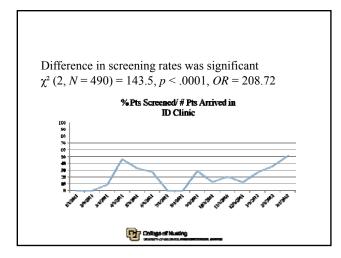
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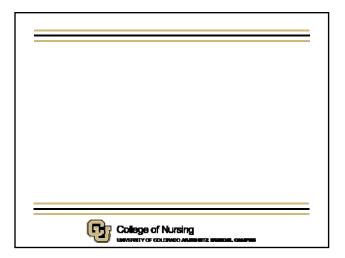


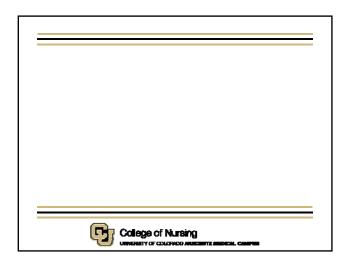










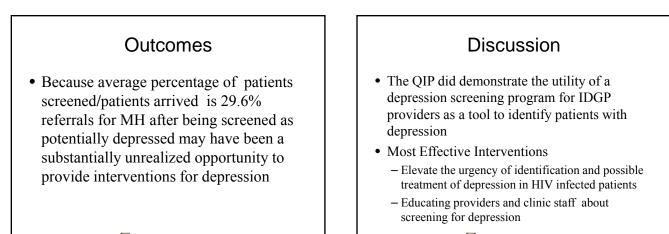


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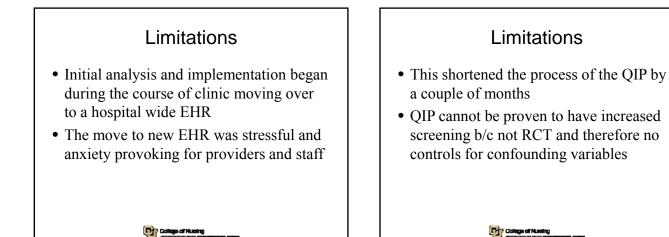
### Outcomes

- 21.7% of patients screened (125/576) over course of QIP met the cut-off score for clinically significant depressive symptoms (PHQ 9 ≥ 10)
- PHQ 9 scores did not improve from initial assessment to follow up
- Average pretest PHQ 9 score was 14.3 & average of follow-up PHQ 9 score was 13.9

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# Conclusions

- Depression screening QIP was really welcomed in the clinic – began to hear the acronym QIP used in relation to other projects being proposed
- QIP demonstrated itself as important in the education and coaching of providers and staff regarding screening for depression in the IDGP primary care patient population
- Strengthened the clinic's commitment to delivery of comprehensive primary care in the IDGP
- Depression screening in clinic has been seen as important piece of this

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# Conclusions

• Depression screening QIP heightened an awareness for the need for Psychiatric Mental Health services in the clinic

- this lead to an increase in Psychiatric Mental Health services FTEs

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# Conclusions

- Sparked a lot of discussion about treatment of depression and access to mental health in IDGP (date of first available appointments and follow up appointments)
- Plan is to continue screening patients
- When EHR (EPIC) moves to next level of optimization PHQ 9s will be delivered directly into the EMR as patient completes them

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#### Conclusions

• A future project may be to consider interventions with providers and /or patients to decrease high PHQ 9 scores

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# References

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- Ohl, M.E., Landon, B.E., Cleary, P.D. & LeMaster, J. (2008). Medical clinic characteristics and access to behavioral health services for persons with HIV. *Psychiatric Services*. 59(4):400-407).
- PHQ-9 is adapted from PRIME MD TODAY, Copyright ©1999 Pfizer Inc. All rights reserved.



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