



Enhancing Adherence to Breast Cancer Screening Guidelines at USF BRIDGE Clinic

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Background

- According to the American Cancer Society (ACS), an estimated 252,710 new cases of invasive breast cancer and 63,410 new cases of in situ breast cancer will be diagnosed among women in 2017 with approximately 40,610 cases resulting in death (1).
- It has been shown that the percentage of patients undergoing breast cancer screening decreases with the following: lower educational status, non-citizen immigration status, and lack of health insurance (2).
- Current screening guidelines set forth by the American Cancer Society (ACS) for women with average breast cancer risk includes:

Age Group	Guidelines
Women age 40-44	Option to begin annual mammogram screening
Women age 45-54	Recommend annual mammogram screening
Women age 55+	Option to continue annual mammogram screening or begin biennial mammogram screening, should continue screening with expected life expectancy > 10 years

- USF BRIDGE Clinic is a multidisciplinary student-run clinic that provides medical care to uninsured patients in the community with poverty level < 200%.

Objectives

- To assess the effectiveness of BRIDGE Clinic's adherence to breast cancer screening guidelines set forth by the ACS and compare the clinic's screening rates to national averages
- To review BRIDGE Clinic's current breast cancer screening protocol and develop strategies for improving the clinic's adherence rates

Methods

- A retrospective chart review was conducted using study participants who were age 40+ years at their most recent medical visit with 2 or more medical visits at BRIDGE Clinic between January 2012 and March 2018
- Demographic and clinical data were collected from medical charts
- Up-to-date screening was defined as annual mammograms completed for patients age 45-54 and biennial mammograms completed for patients age 55+
- Data analysis was performed using Microsoft excel functions

Data & Results

- Total of 194 patients were included in the retrospective chart review
- 74.5% of BRIDGE patients age 45+ were up-to-date on breast cancer screening at their most recent clinic visit per ACS screening guidelines
- 48.6% of patients age 40-44 received optional screening mammogram within one year of most recent visit
- 60.0% of BRIDGE patients age 45+ who were not up-to-date on breast cancer screening received mammogram referral at their most recent clinic visit

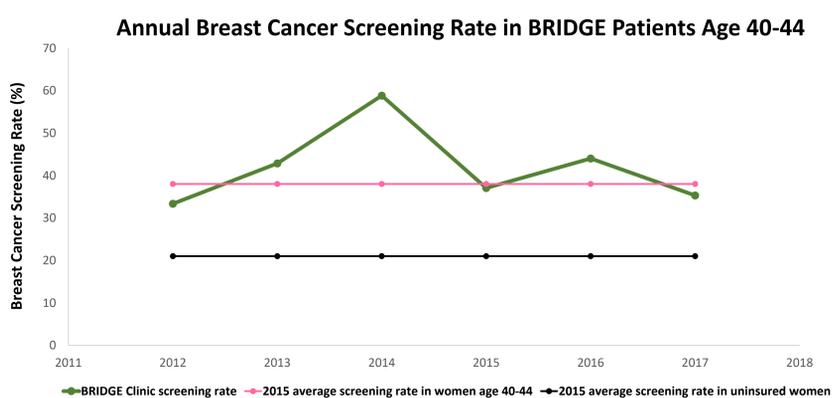


Figure 1. Comparison of BRIDGE breast cancer screening rates with ACS national averages in women age 40-44 (1)

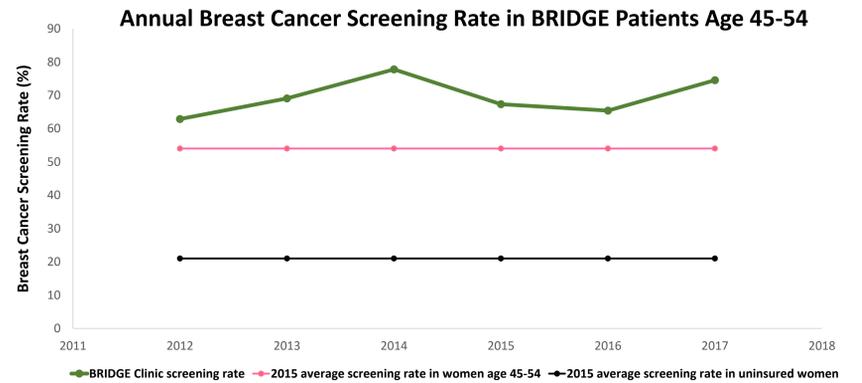


Figure 2. Comparison of BRIDGE breast cancer screening rates with ACS national averages in women age 45-54 (1)

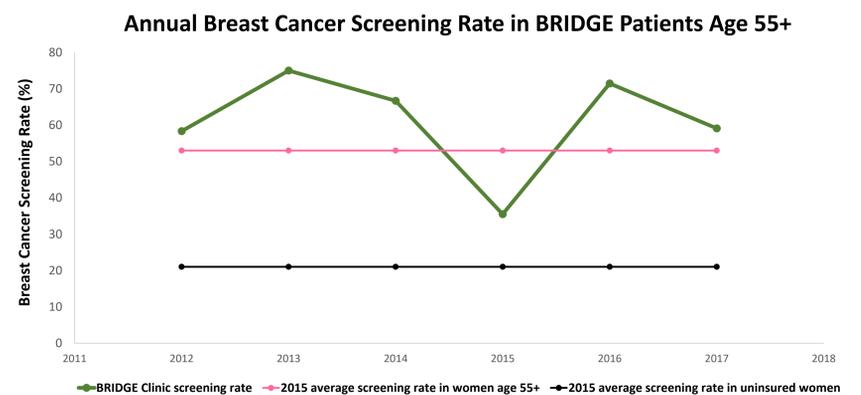


Figure 3. Comparison of BRIDGE breast cancer screening rates with ACS national averages in women age 55+ (1)

Conclusions & Discussion

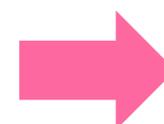
- Breast cancer screening rates for BRIDGE patients age 45+ consistently surpassed the estimated 2015 national screening rate between 2012-2017
- Breast cancer screening rates for BRIDGE patients age 40-44 were less consistent but remained comparable to the estimated ACS 2015 national average
- Higher breast cancer screening rates at BRIDGE Clinic could be attributed to specialty gynecology nights held 6 nights/year, an in-house OB/GYN physician present at each clinic night, and the help of Moffitt Cancer Center who provides screening mammogram vouchers for eligible patients
- Areas for improvement that could increase BRIDGE screening rates include:
 - facilitating mammogram scheduling as most patients speak Spanish
 - standardizing guidelines used at BRIDGE (ACS vs USPSTF vs ACOG)
 - implementing Care Message for mammogram appointment reminders

Plan

Standardize screening guidelines

Facilitate mammogram scheduling

Implement Care Message reminders



Re-evaluate for improvement in screening rates following protocol changes

Acknowledgements

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References

- (1) American Cancer Society. Breast Cancer Facts & Figures 2017-2018. Atlanta: American Cancer Society, 2017.
- (2) Smith, Robert A., et al. "Cancer screening in the United States, 2015: A review of current American Cancer Society guidelines and current issues in cancer screening." *CA: A Cancer Journal for Clinicians* 65.1 (2015): 30-54.