

Successfully Taking Breast Cancer Screening on the Road - Over and Over

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BACKGROUND

- The University of Tennessee Medical Center (UTMC) Cancer Institute (CI) has operated this mobile mammography unit (MMU) program since 1998. Our grant funded Breast Health Outreach Program (BHOP) provides staff, education, and limited funding for free mammograms
- Target population is underserved women in rural Appalachian 19 target counties, returning annually
- 3D equipment installed in 2017
- “On The Road” six days/week
- Financial and logistic barriers removed
- Focused navigation and constantly updated policies & procedures to improve compliance and outcomes
- Successful completion of >90% of recommended diagnostic recalls

METHODS

- Retrospective analysis of a prospectively maintained database incorporating 2008-2023
- 48,385 mammograms in BHOP database
- Analysis included frequencies, cross-tabulation tables, chi-square, unadjusted odds ratios with 95% confidence intervals & logistic regression

Number of Annual Mammograms	Frequency of Women (%)
1	11,037 (54.5%)
2-5	7,295 (36.0%)
6+	1,922 (9.5%)

Note: Total sample = 20,254 women

REFERENCES

*American Cancer Society/National Comprehensive Cancer Network

RESULTS:

- 80% early stage (0 or 1) breast cancers diagnosed
- “True positive” diagnosis rate of 0.5%
- 11% diagnostic recall rate
- 90% diagnostic completion rate
- Average mammograms per day is 14

CONCLUSIONS

- Returning to same sites annually improves compliance with ACS/NCCN* published screening guidelines
- With targeted navigation and resources, extremely high diagnostic recall completion rates can be achieved
- Lives are saved with early detection

RECOMMENDATIONS

- MMU screening services can be implemented in rural, vulnerable, at-risk populations, supported by grant and other funding
- Returning the MMU to sites annually, aided by focused navigation, trust, credibility and compliance are achieved