

**Heather Neuman, MD** 

University of Wisconsin School of Medicine and Public Health





A program of the National Cancer Institute of the National Institutes of Health

#### Rationale

Rationale Objective Study Schema Intervention Eligibility Criteria Follow Up

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Shared decision making (SDM) may reduce health disparities by addressing barriers to patient engagement in decision making that disproportionately impact socioeconomically disadvantaged patients.[1,2] SDM interventions, e.g., decision aids, have the potential to increase patient involvement in decision making, improve health outcomes, and lower costs.[3] Decision aids may have the added benefit of reducing health disparities, since disadvantaged patients may benefit most from their use.[2] The goal of SDM is to impart knowledge while also empowering patients to engage in decision making. Decision aids increase knowledge. [2,4-6] However, barriers to patient empowerment hinder engagement, including lack of awareness about treatment choices, patients' perceptions that their personal input is not valued, and doctor-patient power imbalances.[1] There is limited understanding about how decision aids can overcome these barriers. This gap is significant as these barriers disproportionately affect disadvantaged patients.[1]

In regards to breast cancer surgery specifically, multiple clinical trials demonstrate equivalent survival between breast conservation (BCT) and mastectomy (with or without reconstruction) for women diagnosed with early stage breast cancer.[7,8] However, patientcentered outcomes differ greatly, with a higher risk of local recurrence after BCT and a greater impact on body image with mastectomy. As most women are good candidates for both procedures, patients' values and preferences should drive decision making. Increased patient engagement in decision making may mitigate existing disparities in breast cancer surgical care.[9-15] Most population-based studies demonstrate that disadvantaged women are less likely to undergo BCT or receive post-mastectomy reconstruction.[16-20] This disparity is significant, as it can

negatively impact long-term outcomes such as treatment regret, body image, and quality of life.[21-26]

The etiology of these disparities is likely multifactorial. [17,18, 27,28] However, patient engagement during the surgical consult is critical for this preference-sensitive choice.[9-15] Prior studies demonstrate that socioeconomically disadvantaged women have less understanding of treatment options,[29-31] are less likely to recall discussing a choice with their surgeon,[32,33] and participate less actively in decision making.[34] Breast cancer surgery decision aids have already been developed that could address these barriers, making breast cancer surgery an especially appropriate model for our work.

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Objective

## TAP TO RETURN TO KIOSK MENU



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- Test the effectiveness of a breast cancer surgery decision aid in increasing patient engagement in decision making (measured by knowledge and power) in clinics serving a high proportion of socioeconomically disadvantaged patients
- Test the extent to which the effect of a decision aid on patient engagement is mediated through the mitigation of barriers, and determine if persistent barriers are disproportionately experienced by socioeconomically disadvantaged patients

#### Secondary

**Co-Primary** 

• Characterize how persistent barriers influence patient engagement in decision making in order to identify targets for adjunct interventions that could be implemented in clinics serving a high proportion of socioeconomically disadvantaged patients



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# Study Schema

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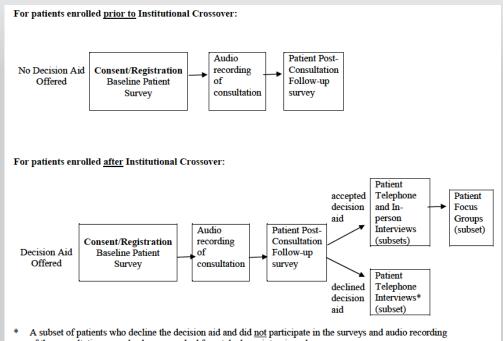
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of the consultation may also be approached for a telephone interview alone.



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## Intervention

#### Arm I (surgical consultation)

Prior to institutional crossover, participants receive care as per usual care.

#### Arm II (web-based breast cancer surgery decision aid)

Following a 10-week implementation period, at the time of institutional crossover, participants will receive a web-based decision aid prior to the surgical consultation.

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# Eligibility Criteria

## **Patient Eligibility**

- Women newly diagnosed with stage 0-III breast cancer.
- Eligible patients must be planning breast surgery as a component of their definitive treatment.
- · Patients with impaired decision-making capacity are not eligible for this study.
- Patients with hearing impairment requiring the use of an interpreter are not eligible for this study.
- · Patients must be able to speak English
- Age ≥ 18 years

# Clinic Stakeholder (Surgeons and Clinic Staff) Eligibility

• Breast surgeon(s) and nursing staff, medical assistant, or mid-level provider at each participating clinic who participate in the care of patients newly diagnosed with breast cancer.

# **Institutional Eligibility**

 Eligible clinics will serve a high proportion of socioeconomically disadvantaged patients, defined using two data sources. Using these data, 10 clinics that annually provide surgical care for 120-300 patients newly diagnosed with breast cancer will be selected to participate in this study. Surgeons at eligible clinics must consent to the study as a requirement for site participation.

All participating institutions will be selected by the study team prior to study activation.

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# **Contact Us**

Study Chair: Heather Neuman, MD E-mail: neuman@surgery.wisc.edu

Phone: 608-265-5852

Statistician: David Zahrieh, PhD E-mail: zahrieh.david@mayo.edu

Phone: 507-293-8288

Data Manager: Patricia McNamara E-mail: mcnamara.patricia@mayo.edu

Phone: 507-266-3028

Protocol Coordinator: Rachel E. Wills

E-mail: rwills@uchicago.edu