"It’s Easier Said Than Done": Perspectives on Mammography From Women With Intellectual Disabilities

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ABSTRACT

PURPOSE Women with intellectual disabilities (or mental retardation) are living longer, receiving primary care in the community, and have equal rates of breast cancer compared with women in the general population, but they have lower rates of mammography. Although several public campaigns have successfully raised the mammography rate for racial and ethnic minority women, they have not penetrated the community of women with intellectual disabilities. No research to date has explored potential barriers to mammography for these women by involving the women themselves as participants.

METHODS We undertook a qualitative study to explore the perceptions and understanding of mammography for women with intellectual disabilities and some of the potential reasons they would or would not have the test. Twenty-seven intellectually disabled women were recruited through a variety of community groups and interviewed using a semistructured interview guide. Data were analyzed using qualitative techniques from grounded theory.

RESULTS Participants in this study described being poorly prepared for mammography: they did not understand its purpose and were not prepared for the logistics of the experience. The latter was more upsetting to participants and contributed to their negative perceptions of mammography. Participants reported feeling unprepared and singled out for being unprepared, despite their desire to have at least 1 mammogram, as do other women their age.

CONCLUSIONS Women with intellectual disabilities perceive mammography differently than do women who do not have intellectual disabilities, and their perception is informed by inadequate knowledge, anxiety, and inadequate preparation. These themes should be considered when planning cancer prevention interventions with this population and when counseling individual women in the clinical setting.

INTRODUCTION

Adults with intellectual disabilities (formerly mental retardation) are a medically underserved population who experience disparities in screening and preventive care.1,2 Intellectual disabilities are defined as having an intelligence quotient of 2 or more standard deviations below the mean and demonstrated difficulties in 2 or more adaptive areas of daily living.3 There are approximately 8 million persons with intellectual disabilities in the United States.4 Fifty percent are women, and many adults, now deinstitutionalized,5 receive primary care in community practices.

Women with intellectual disabilities are now living longer, to a mean age of 66 years.6 Researchers have noted health disparities for these women,7 especially in prevention and screening.8,9 Although women with intellectual disabilities get breast cancer at the same rate as the general...
population, their rates of timely mammography (within the past 2 years) have been as low as 12% in recent studies. Little is known, however, about the reasons for these low rates.

In a recent study from Australia, geographic area (rural), marital status (unmarried), and severity of the intellectual disability were all associated with lack of timely mammography. One study using focus groups to explore the health of intellectually disabled women reported that many women had stopped going for mammograms because their experiences were upsetting. For women of normal intelligence from ethnic minority groups, fear of the results, lack of insurance, trust in their physician, a sense of fatalism, and embarrassment about undergoing the test affected their likelihood of obtaining a mammogram. Other studies focusing on intellectual disabilities found, after interviewing caregivers, that lack of staff knowledge and lack of physician recommendation were barriers to mammography. No research to date, however, has examined obtaining mammograms from the perspective of intellectually disabled women. Our project aimed to understand decisions about mammography from the perspective of women with intellectual disabilities and to explore aspects of their knowledge, experiences, and expectations leading to a decision to have or not have a mammogram.

METHODS

Participants

We recruited a purposive sample of women with intellectual disabilities who were eligible for mammography in 2007 and 2008 (who were older than 40 years, or younger than 40 years with a family history of breast cancer) and had sufficient verbal skills to participate in a qualitative interview. Women were recruited from a state self-advocacy program, 2 large providers of residential and day services, and the Arc of Massachusetts. Because women with intellectual disabilities are rarely included in research studies, we were concerned that in contacting them we could create a therapeutic misconception that we were providing health care. We sent an e-mail to the community organization explaining the study in general terms and asking whether any of their female clients aged 40 years or older would be candidates for participation. If there were candidates, a member of the organization approached the women to ask whether they could be contacted by the study staff. Once the organization had relayed the permission, the study staff called and arranged to meet the potential participant.

The consent process was conducted in person because it was possible that not all potential participants would be able to give consent for themselves. Some participants (7 of 27) had a guardian or legally authorized representative. For those women, we obtained their assent (to make sure they were interested in participating) and formal consent from their guardian or representative. For the remaining women, consent was obtained as follows. The researcher introduced the idea of the study and what would be expected, emphasizing that participation was voluntary and that the participants did not have to answer any questions they did not want to. The participants were then asked to describe the study and their role to the researcher in order to demonstrate a good understanding of their role before their consent was obtained. The recruitment and consent process was approved by the Boston University Medical Campus Institutional Review Board and monitored by a Data Safety Monitoring Board.

Data Collection

We used a semistructured interview guide that addressed the following general topics: (1) the participant’s life and general level of independence; (2) the participant’s relationship with her physicians and the communication with her physicians; (3) the participant’s experience getting tests done that were ordered by her doctor, and (4) the participant’s specific experience with the mammogram, and why she did or did not complete mammography screening (Supplemental Appendix 1, available online at http://www.annfammed.org/cgi/content/full/9/2/142/DC1). Participants were asked open-ended questions about each area, followed by more detailed prompts. The interview was also flexible enough to follow up on topics introduced by participants in response to the open-ended questions. The capacity to be interviewed and the responses of the women who had and did not have legally authorized representatives were comparable throughout the study.

Analysis

We conducted analyses using techniques informed by grounded theory methods. The interviews were transcribed verbatim and initially coded by 2 members of the research team (J.E.W., C.E.D.) line by line with 1- or 2-word summaries of the content. Next, those codes were reviewed jointly by the 2 coders and grouped into second-level codes (categorizing or defining them more broadly). Third, the second-level codes were reviewed and grouped as themes were identified from the data. As we began to identify themes using an iterative process, we continued to return to the data to confirm their meaning. Each step in this process or level of coding was reviewed by at least 2 researchers.

Participant names were changed to pseudonyms for the purposes of this article and other presentations about this project.
RESULTS
We interviewed 27 women, at which point we reached thematic saturation. Their ages ranged from 27 to 69 years (1 participant was younger than 40 years but had a family history of breast cancer). Other demographic characteristics are displayed in Table 1: 59% of women interviewed were aged between 51 and 60 years, 11% were African-American, and the group was evenly split between women living independently (52%) and living in group homes (48%). Although the interview focused on mammography, we also asked women to describe a typical day in their lives and found that they spoke with confidence about their usual level of independence.

Meg (54 years): I am the secretary at ———. I'm there for, around, 3 and a half hours, um, until around 2 o'clock in the afternoon…. I wait for my fiancé to call me to see how his day went, um, and then the routine starts all over again.

Interviewer: Now does anyone help you with some of the daily day-to-day things?
Meg: Um, no, I live by myself. I do my laundry, I do my bills.

Interviewer: What kind of stuff do you normally do at work?
Lisa (47 years): Collating, mailing, putting stamps on the envelopes, trifold, put 'em in envelope, seal them.

Although the complexity of the day varied among participants, they described it with a sense of mastery and emphasized that they accomplished most tasks without help.

When discussing their experiences of mammography, however, the women expressed several concerns relating to feelings of incompetence, as well as a desire to fit in with other women. Several themes emerged: (1) not understanding the purpose of mammography, (2) feeling unprepared for mammography, (3) having motivations for at least 1 mammogram, and (4) feeling singled out during the test.

Lack of Understanding the Purpose of Mammography
Several participants lacked accurate information about breast cancer or mammography. They reported being told by their physician that they were due for a mammogram but not what a mammogram was. One participant finally felt comfortable enough halfway through the interview to admit that she did not know what cancer actually was, despite agreeing to be interviewed about having mammograms.

Interviewer: Do you know what cancer is?
Gail (67 years): No.
Interviewer: Cancer is….
Gail: It's a sickness?
Interviewer: Yup, it's a sickness.
Gail: Is it something bad?

This participant had little understanding of the relationship between mammograms (which she recognized and had had) and cancer (a more abstract concept to her). The unmasking of participants’ lack of knowledge tended to happen late in the interview, presumably after they had become comfortable with the interviewer. Some participants also discussed their frustration with their physicians, who did not seem to understand the depth of their knowledge deficit.

Meg: You see, like, there was some doctors say you got to do this and that to your breast, but I don't even know what they're talking about! …. If you had a mummy, maybe that would be a lot benifactual to me in showing me than saying you gotta do this and do that….

Meg’s confusion about how to perform breast self-examination is evident. She could suggest how her physician could make the teaching easier (using a dummy to demonstrate), but she is clearly frustrated by the kind of explanations she is getting. Other participants also voiced recommendations about how they might increase their understanding (Table 2).

Feeling Unprepared for the Experience
Many participants spoke of being uninformed not only about the purpose of the mammogram but also about what to expect during the test (what would happen, how long it would take, where it would be).

Interviewer: How did you know what it was going to be like?
Polly (46 years): Because I know operation looks on hospital programs.
Interviewer: Was it what you expected?
The participants had varying expectations of the procedure—some of which were inaccurate, like Polly’s. When they discussed the gap between their expectations and the experience, many expressed frustration at their physician for not preparing them better.

Interviewer: Now, when you found out about this test, what did your doctor say?

Jen (57 years): He said just don’t be afraid, just be brave.

Interviewer: Did he tell you what the test was going to be?

Jen: No, ma’am.

Alice (53 years): Many people with intellectual disabilities… don’t really understand what a mammogram is about, and if it was explained to them and explained that it’s gonna hurt but this is what it’s for, um… maybe it wouldn’t be so hard on them.

Gail: It’s important that I know ahead of time instead of a week later, or not knowing at all!

Both the participants’ frustration about not being prepared and distrust in the communication that resulted in their lack of preparation comes through in these statements. One participant, 51-year-old Dora, explained that she has had several mammograms and feels confident about it (“I know what it’s like because I have them all the time”). Her experience of having an abnormal finding that required several follow-up mammograms (rather than preparation from her physicians) led her to feel more prepared for each subsequent test. Juxtaposing Dora’s understanding with the other participants’ understanding highlights the need for adequate preparation for mammography.

Motivations for at Least One Mammogram

Participants in this study identified several reasons to have a mammogram. Women described fitting in with others in their age-group, believing the mammogram prevented cancer, wanting early detection of cancer, and having a specific personal or family history of breast cancer.

Stella (58 years): Oh, yeah. Everyone goes through that [mammography] now.

Daisy: If it has to get done, it has to get done.

Polly: So they don’t have to cut your boobs off.

Amy (52 years): So you don’t get breast cancer.

Participants were generally motivated to have at least 1 mammogram, and the theme of fitting in with their peers was echoed by several women in addition to Stella. Participants also expressed confusion about whether mammography itself prevented breast cancer or was a mode of early detection. Several women doubted that they would not return for subsequent mammograms (2 said no outright, and 6 said, “only if I have to”).

Feeling Singled Out During the Test

Participants were overwhelmed by the logistical aspects of getting a mammogram; many women said they would not return because of such issues as feeling that they did not know what to do and receiving little guidance from staff.

Alice: …but the people that prep you for it are kind of insensitive, like they just tell you to go in and get changed, one robe on this way, one robe on that way, and they forget that you don’t know which robe to put on which way.

Other participants also described feeling singled out or ridiculed during the experience:

Alice: I have a friend who absolutely hated it and stopped going… She was very big. She was, I think, a double or triple D. It really hurt her, and then the technicians really

### Table 2. Suggestions From Participants About Preparation and Communication

| Theme | Participant Recommendation |
|-------|----------------------------|
| Give details in advance about logistics of test | It’s important that I know ahead of time instead of a week later. And explain that it’s going to hurt but it’s to protect you…. Because people really don’t know. |
| Listen attentively to the patient’s concerns and address them | And don’t interrupt and wait until they’re finished talking, what they’re saying… “Cause some doctors, they can just sit there and listen, then nod some and when you walk out of the room, it’s like they didn’t hear nothing. |
| Tailor information to patient’s level of understanding; show, don’t tell | Be, um, more persistent, be um persistent with your patients and everything to make sure you know they have everything they need. |
| | [Interviewer]: Like a dummy to show it on? M: Yes, exactly I mean you have to show it on a dummy where they have the um… |
| | Interviewer: Lump? M: Lump! The lump… maybe I’d understand it more, I’d get it more, but if she says push here or here, do you think I’m gonna understand? I’m not gonna understand it. |
| | I think a great way for doctors to understand like how to communi- cate with a person with a disability is to strike up a casual conversa- tion first. And for them to judge by the conversation how they should talk to them in medical terms. |

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embarrassed her and said, "Boy, you have large boobs." Then she stopped going.

Jessica (66 years): Well I know you have to get up and put your thing in there, but you know I'm not that tall. I'm a short person.

Participants focused on their embarrassment during the experience and the feeling of being singled out. They tended to characterize their experience as due to something other than their intellectual disability ("I'm a one-handed person," "I'm a short person."). Although it is possible that their disability itself was an important reason for needing more time. The self-consciousness they experienced clearly made them uncomfortable, and several women said they would not return because of it. In contrast to this experience, only 4 women mentioned pain as an unpleasant aspect of mammography, and 3 women specifically said it did not hurt, leading us to focus more on embarrassment and feeling singled out as the part of the experience that was most difficult.

**DISCUSSION**

These data begin to illuminate how women with intellectual disabilities might think differently about mammography when compared with women who are not intellectually disabled. For example, many of the reasons to have a mammogram were similar to those noted for the general population (physician recommendation, family history, the reassurance of a negative test). Participants also spoke of the understanding that “everyone does it.” Researchers have noted that persons with intellectual disabilities have a strong desire to blend in or to pass as nondisabled, this desire may result in the women initially agreeing to a mammogram, but accessing this information requires as much information about the logistics of the test may facilitate their ability to complete mammography successfully and to return for subsequent screenings.

One strength of our study is that we collected information by encouraging women with intellectual disabilities to speak for themselves rather than interviewing caregivers or family members. Limitations of the study include its generalizability; although we did reach saturation in terms of the overall themes, we did not do so for the sample of African-American women. Future research is planned to expand the sample of intellectually disabled African-American women and ensure that saturation within that subgroup is reached.

Based on these early findings, we have several preliminary recommendations for preparing intellectually disabled women for mammography. These women and their caregivers, when applicable, should gather as much information about the logistics of the test as possible from friends and family to minimize any unfamiliarity with and anxiety about the details of the day. These women might also benefit by requesting the last appointment of the day and the telling mammography staff that they have a disability and might need more time or additional explanations. Physicians should focus their description of the mammogram to include details about where it occurs, how long it takes, and what the experience will be like, as well as a brief explanation of why it is necessary. They should also consider providing additional resources, such as a video that does not rely on literacy, to prepare intellectually disabled women for mammography.
Mammography and Intellectual Disabilities

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Key words: Mammography; disability; cancer screening

Submitted June 11, 2010; submitted, revised, October 31, 2010; accepted November 5, 2010.

Previously presented in part at the Northeast Regional meeting of the Family Medicine Education Consortium (October 2010; Hershey, Pennsylvania) and the North American Primary Care Group Annual Meeting (November 2010; Seattle, Washington).

Funding support: This project was supported by Award Number K07CA134547 from the National Cancer Institute (NCI). The content is solely the responsibility of the authors and does not necessarily represent the official views of the NCI or the National Institutes of Health.

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