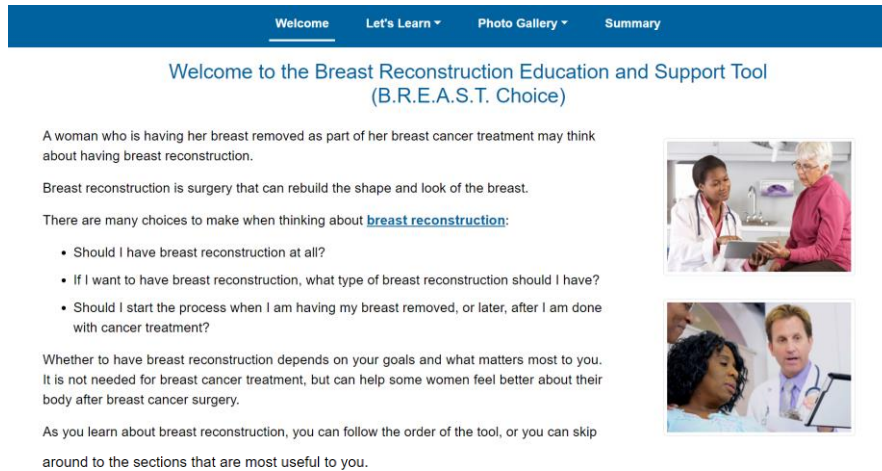




# Implementing Decision Support into Care: A Qualitative Study About A Post-Mastectomy Breast Reconstruction Tool

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**BREASTChoice is a web-based tool that helps women learn about breast reconstruction. It gives them a personal risk and helps them think about what choices to discuss with their doctor. Here is what the home page looks like:**



**We interviewed 35 patients, clinicians, and informatics experts to get feedback about BREASTChoice. Here are some sample quotes from the interviews:**

Patient #152 said: *“You get more information [from BREASTChoice]...I remember when I was making my decisions., I just talked to my surgeon and my plastic surgeon, in hindsight, I didn’t have maybe a full picture of all of my range of choices...it would’ve been nicer to have had a little bit more information.”*

Clinician #131 said: *“[The personalized risk] would be good because then they [clinicians] can explain further why these are higher risk... they’ll be there to reiterate...the risk factors.”*

Clinician #129 said: *“It gives the patient a realistic outline of pros and cons...and... takes away the overwhelming information that they may seek if they were Googling this information. It’s just giving a very straightforward, ‘This is your pro. This is your con.’”*

## Key Take-Aways and Other Feedback to About BREASTChoice:

- Patients, clinicians, and informatics experts found BREASTChoice useful.
- They liked that it gave patients helpful information, including about their personal risks.
- BREASTChoice could support shared decision-making, improve workflow, and might save time during care visits.
- Some were not sure of the best time to have patients complete the tool. It can depend on the clinic and patient.
- Some suggested paying close attention to data needs and costs when getting data from the EHR.

**Thank  
you**

- We are testing how BREASTChoice works compared to a standard website in a larger study
- We are conducting this larger study in St Louis, MO and Columbus, OH.
- We will keep you updated on the progress. Thank you again for your time and input!



# Sample Screenshots from BREASTChoice

## Should I have breast reconstruction?

Women of any age, race, or body type can consider [breast reconstruction](#). But, it is not right for everyone. Below you can learn more about the pros and cons of breast reconstruction.

Pros of Breast Reconstruction	Cons of Breast Reconstruction
Your breasts might look more balanced when wearing a bra, swimsuit, or clothes.	Whether in clothes or not, a reconstructed breast is not a perfect match for a natural breast.
You regain breast shape without having to wear a breast form (prosthesis).	It often involves longer surgery and more than one surgery.
It might help you feel more comfortable with your body and "feel like yourself" again after your breast is removed.	After each surgery, there is a chance of an infection, swelling, pain, poor wound healing, or loss of blood to the tissue. Some of these can be treated with pills or creams. Others may need to be treated with more surgery.

Keep in mind breast reconstruction has little or no effect on finding breast cancer in the future. It also has little or no effect on the chance of breast cancer coming back in the future.

Many pages show the pros and cons of reconstruction or reconstruction options in side-by-side tables to make it easier to compare options.

The risk prediction page shows risk factors pulled from the electronic health record. Women can update their risk factors when they use the tool. The graph will change based on each patient's risk factors.

## Your Risk from Having Breast Reconstruction Surgery

[Breast reconstruction](#) can help some women feel better about their body after their breast is removed. It can also increase the chance of having a major wound infection, wound opening, or tissue damage. This chance is higher if women start the process at the time their breast is removed for cancer, compared to delaying reconstruction. With no risk factors, 1-2 out of 100 women have a major wound infection, wound opening, or tissue damage after a mastectomy alone. With no risk factors, 7 out of 100 women have a major wound infection, wound opening, or tissue damage after a mastectomy plus immediate breast reconstruction.

To help you understand your own risks from breast reconstruction done at the time your breast is removed, we reviewed your current health. With the same risk factors you have, **7** out of 100 women have a major wound infection, wound opening, or tissue damage.

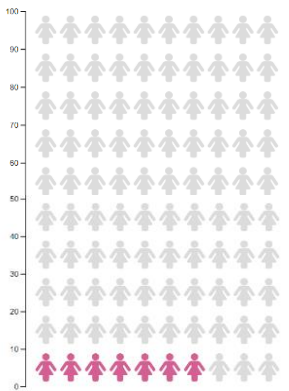
### What does my risk mean?

Your risk shows the chance of having a major wound opening, wound infection or tissue damage compared to a person who has no risk factors. The risk estimate comes from looking at thousands of women and their outcomes from breast reconstruction. It's just an estimate. No one knows who will or will not have one of these outcomes. Talk to your doctor or nurse if you want to learn ways to lower your risk.

This information about risk comes from data in your health record. Please click [here](#) to review and check your health data that make up this risk. Please answer all of these questions if some are missing, so we can give you a good estimate of your risk.

[Review and check your health data that make up this risk.](#)

### Your Chance of Wound Infection, Wound Opening, or Tissue Damage after Breast Reconstruction



7 out of 100 women have these outcomes after breast reconstruction, even with no risk factors.

7 out of 100 women with the same risk factors as you have these outcomes after breast reconstruction.

## Summary

Last updated on 2021-03-16 15:12:04.835205

Here is a summary of what you told us about your choice about whether to have [breast reconstruction](#), what type to have, and when to have it.

### Your risk:

With the risk factors you have, your chance of having a major wound infection, wound opening, or tissue damage after breast reconstruction is about **7%**. With no risk factors, a woman's chance of having any of these outcomes after breast reconstruction is about 7%. The estimate comes from looking at thousands of women and their outcomes from breast reconstruction.

Talk to your doctor about what this means and how it might affect your choice.

### Your preferences:

Based on [your risk](#) and what matters most to you, you are leaning toward having reconstruction.

You said that to **have your chest look natural when wearing clothes, to use your own tissues to create a breast and to lower your chances of side effects from reconstruction** were the most important to you when thinking about whether to have reconstruction.

BREASTChoice includes education about reconstruction, a photo gallery with different reconstruction choices across diverse women, and a summary of women's personal risk and preferences after going through the tool.