

# Assessing the Clinical Outcomes of a Multidisciplinary Breast Benign Concordance Conference

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## Background

- Historically, high-risk lesions have been surgically excised due to concern for concurrent cancer.<sup>1,2</sup>
- New data indicates many may be safely followed, but guidelines delineating which patients require surgery and which can be followed are lacking.<sup>3,4,5</sup>
- One strategy is for multidisciplinary meeting to review such cases and provide management recommendations.

## Objective

- To describe the clinical outcome of patients who had high risk breast lesions reviewed by the University of Kansas Cancer Center benign concordance conference (BCC).

## Methods

- Single institution retrospective chart review of patients with high risk lesions reviewed at BCC in 2014.
  - Concurrent or prior breast cancer patients excluded.
- 3 year follow-up imaging, clinical, and pathologic data was reviewed for missed cancers
- Data included demographics, diagnosis, recommendations from BCC, and clinical outcomes.

## Results – Demographics & Pathology Data (Table 1)

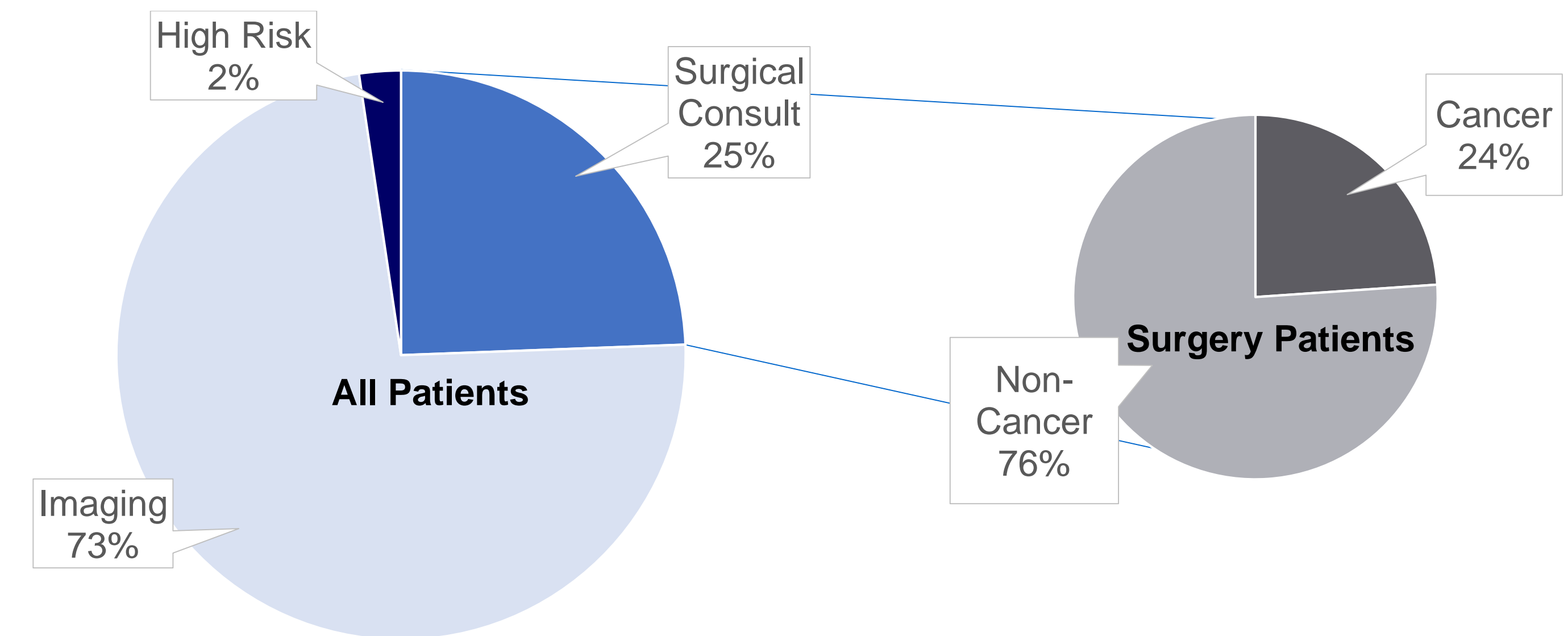
- 254 patients meeting inclusion/exclusion criteria were reviewed.
- Most had biopsy as result of abnormal mammogram (75.2%)
- Most biopsies were concordant (96.5%)

Table 1: Demographics & Pathology	Total Population (n=254)
Average Age +/- STD	53 +/- 12
<b>Gender</b>	
Female	250 (98.4%)
Male	4 (1.6%)
<b>Race</b>	
Asian	3 (1.2%)
African American	31 (12.2%)
Caucasian	208 (81.9%)
Unknown	12 (4.7%)
<b>Insurance</b>	
Medicare	80 (31.4%)
Medicaid	5 (2.0%)
Private	165 (65.0%)
Unknown	4 (1.6%)
<b>Family Hx BC</b>	
Yes	23 (9.0%)
No	100 (39.3%)
<b>Abnormal Breast Imaging</b>	
Mammogram	191 (75.2%)
Ultrasound	51 (20.0%)
MRI	12 (4.7%)
<b>Concordance</b>	
Concordant	245 (96.4%)
Discordant	4 (1.5%)
<b>Pathology</b>	
Atypia	14 (5.5%)
Papilloma	24 (9.4%)
LCIS	3 (1.2%)
Sclerosing Lesion	13 (5.1%)
Radial Scar	9 (3.5%)
Other *	187 (73.6%)

\*Other most commonly included fibrocystic change/ fibrous breast tissue/ stromal fibrosis (n=88), fibroadenoma (n=23), usual ductal hyperplasia (n=18).

## Results – BCC Recommendations & Surgical Pathology

- BCC recommendations were for imaging follow-up 74.4% (n=186); surgical consult 23.2% (n=58); and high risk referral 2.4% (n=6).



- Imaging follow-up included 3 mo. 4.3% (n=8); 6 mo. 51.1% (n=95); or annual 44.6% (n=83).
- Of 58 surgery referral patients, 79.3% (n=46) underwent surgical excision.
  - Upgrade to cancer occurred in 23.9% (n=11).

## Results – 3 year Follow-up

- In 3 year follow-up, two new cancers (1.1%) were diagnosed: one in the contralateral breast (17 months) and a second in the ipsilateral breast differing quadrant (27 months).
  - Both of these were diagnosed in imaging follow-up patients.
- No patients had missed cancers at the biopsy site as a result of BCC recommendation for imaging or high risk referral rather than surgical excision.

## Discussion

- Multidisciplinary conference approach to high risk lesions safely decreased unnecessary surgical referrals and operations while not missing any cancer diagnoses.
- Efforts to identify which patients required BCC discussion are underway to further streamline the multidisciplinary review process.
- Follow-up for multiple years of BCC to demonstrate outcomes over time is underway.
- Additional work considering cost analysis and implementation at other institutions would be beneficial going forward.

## References

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