Application of the 2015 ACS and ASBS Screening Mammography Guidelines: Risk Assessment is Critical for Women Ages 40-44

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2015 ACS and ASBS Screening Mammography Guidelines

- **Average risk (<15% lifetime risk of breast cancer)**
  - Begin mammography screening at age 45
- **Above average risk (≥15% lifetime risk or genetic risk)**
  - Begin mammography screening at age 40 or younger
- **≥20% lifetime risk**
  - Screening breast MRI
- **≥5% risk of mutation or meets NCCN guidelines**
  - Genetic testing

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Objective

- To determine how many women ages 40-44 would be eligible for screening mammograms, MRIs, and genetic testing under the new guidelines.
Methods

• IRB approved, retrospective review
• Patient-reported risk factors and family history of all new female patients seen in our breast surgery clinic
• Excluded: prior breast ca or known mutation
• Risk analysis performed
  – Risk Models: BRCAPRO, Myriad, Claus, Tyrer-Cuzick (version 7)
  – NCCN guidelines
Results Summary

- 6964 women ages ≥40 without breast cancer
  - 909 (13%) ages 40-44

- 46% with ≥15% lifetime risk
- 25% eligible for genetic testing

50% eligible for screening mammography at age 40
### Comparison of Risk

<table>
<thead>
<tr>
<th>Ages 40-44</th>
<th>Ages ≥45</th>
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<tbody>
<tr>
<td><strong>50%</strong></td>
<td><strong>69%</strong></td>
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<tr>
<td><strong>11%</strong></td>
<td><strong>4%</strong></td>
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<td><strong>7%</strong></td>
<td><strong>6%</strong></td>
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<td><strong>18%</strong></td>
<td><strong>11%</strong></td>
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<td><strong>14%</strong></td>
<td><strong>10%</strong></td>
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- MMG@40*
- MMG@40 +GT
- MMG@40 +MRI +GT*
- MMG@40 +MRI*

*p<0.05
Conclusions

- Using risk assessment
  - 50% of women ages 40-44 were eligible for screening mammography at age 40

- Many also qualify for MRI and/or for genetic testing

**Formal risk assessment is essential for women ages 40-44, to identify those who qualify for screening mammography, MRIs, and genetic testing.**