Controversies in Breast Cancer Screening Strategies

Facilitator: Mary Lou Smith, JD, MBA  
Research Advocacy Network

Panel:
Therese Bevers, MD, The University of Texas MD Anderson Cancer Center  
Representing: National Comprehensive Cancer Network

Kirsten Bibbins-Domingo, MD, PhD, MAS, University of California, San Francisco  
Representing: U.S. Preventive Services Task Force

Kevin Oeffinger, MD, Memorial Sloan Kettering Cancer Center  
Representing: American Cancer Society

Breast Cancer Screening Guidelines

§ The guidelines are similar in recognizing the benefit of screening mammography in breast cancer detection

§ They differ in recommendations especially for younger women (40-49)

§ The goal of this session is to understand the rationale behind each of these different recommendations
**Audience Polling Results**

In your practice, when do you recommend initiating mammographic screening in women with average-risk of developing breast cancer?

1. Before 40 years old
2. Between 40-44 years old
3. Between 45-49 years old
4. At 50 years old
5. After 50 years old

![Bar chart showing poll results]

- Before 40 years old: 65%
- Between 40-44 years old: 14%
- Between 45-49 years old: 11%
- At 50 years old: 7%
- After 50 years old: 2%

**Audience Polling Results**

At what interval(s) do you screen women ages 40-49 with mammography?

1. Annually
2. Bi-annually (every two years)
3. Mix of annually and bi-annually
4. None of the above

![Bar chart showing poll results]

- Annually: 68%
- Bi-annually: 22%
- Mix of annually and bi-annually: 7%
- None of the above: 3%
When do you talk about stopping screening?

1. When patient is older than 75 years old
2. It depends on the patient’s life expectancy
3. When the patient declines
4. It depends on all of the above factors

In your experience, how difficult is it to obtain coverage for breast cancer screening mammograms from insurance companies (i.e. payors)?

1. Not at all difficult
2. Not very difficult
3. Neutral/No comment
4. Somewhat difficult
5. Very difficult
Have you seen payors deny coverage for breast cancer screening mammograms?

1. Yes
2. No

If you answered YES:
Did the payors indicate that their decisions were based on any of the various approaches (e.g. Guidelines recommendations from NCCN, ACS, USPSTF, or other organization)?

1. Yes
2. No
Introductions

Mary Lou Smith, JD, MBA
Research Advocacy Network

Kirsten Bibbins-Domingo, MD, PhD, MAS
University of California, San Francisco
Representing: U.S. Preventive Services Task Force

Kevin Oeffinger, MD
Memorial Sloan Kettering Cancer Center
Representing: American Cancer Society

Therese Bevers, MD
The University of Texas MD Anderson Cancer Center
Representing: National Comprehensive Cancer Network

Breast Cancer Screening: U.S. Preventive Services Task Force Recommendations

Kirsten Bibbins-Domingo, PhD, MD
Chair, US Preventive Services Task Force

Professor of Medicine and of Epidemiology & Biostatistics
University of California, San Francisco
The U.S. Preventive Services Task Force (USPSTF)

- Independent panel of volunteer, non-federal experts (N=16)
- Makes recommendations on clinical preventive services offered in the primary care setting (screening tests, preventive medications, counseling)
- Members with expertise in primary care and in evidence-based medicine/research
  - Family Medicine, Obstetrics and Gynecology, Internal Medicine, Geriatrics, Nursing, Pediatrics, Behavioral Health, Health Systems
- Explicit process of evidence review with input from sub-specialists with content expertise and public throughout the recommendation development process

Basic USPSTF Methods for Developing Recommendations: The Letter Grades

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<tr>
<th>Certainty of Net Benefit</th>
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<tr>
<td>Substantial</td>
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USPSTF Grades

- **A**
  - All three grades are recommendations in favor of screening

- **B**
  - They differ by the level of certainty of the evidence and the magnitude of potential net benefit

- **C**
  - Not enough evidence to make a recommendation

- **I**
  - NOT a recommendation against screening – rather it’s a call for more research

USPSTF Breast Cancer Screening Recommendations for Women 50-74 years

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- The USPSTF recommends biennial screening mammography for women aged 50 to 74 years. **B recommendation.**
- The USPSTF concludes with **moderate certainty** that the **net benefit** of screening mammography in women aged 50 to 74 years is **moderate**.
USPSTF Breast Cancer Screening Recommendations for Women 40-49 years

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• The decision to start screening mammography in women prior to age 50 years should be an individual one. Women who place a higher value on the potential benefit than the potential harms may choose to begin biennial screening between the ages of 40 and 49 years. **C recommendation.**
  - The USPSTF concludes with *moderate certainty* that the net benefit of screening mammography in the general population of women aged 40 to 49 years, while *positive*, is *small*.
  - This is a **positive** recommendation—*not* a recommendation against screening

USPSTF Breast Cancer Screening Recommendations for Women 75 years and older

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• The current evidence is *insufficient* to assess the balance of benefits and harms of screening mammography in women age 75 years and older. **I statement.**
  - Not a recommendation for or against screening – a call for more research
  - In the absence of evidence, clinicians and patients must use clinical judgment to determine age to stop screening
American Cancer Society Breast Cancer Screening Guideline

Kevin C. Oeffinger, MD
Chair, Breast Cancer Screening Guideline Panel
American Cancer Society

NCCN 21st Annual Conference
April 2, 2016

Current ACS Guideline Development Process

Staff
Systematic Review Contractor
External Expert Advisors
Guideline Development Group & GDG Breast Sub-group

Oversight Group
(Reviews process and reports to MOC & Board)

MOC
ACS Board

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Grading Recommendation Statements

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<th>Table 1. Interpretation of Strong and Qualified Recommendations by Users of the Guidelinea</th>
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<tr>
<td><strong>Strong Recommendations</strong></td>
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<td>For clinicians</td>
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Adapted from the handbook for grading the quality of evidence and the strength of recommendations using the GRADE (Grades of Recommendation, Assessment, Development, and Evaluation) approach [updated October 2013].

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2015 ACS Breast Cancer Screening Guideline

S = Strong Recommendation  Q = Qualified Recommendation

1. **Women with an average risk of breast cancer should undergo regular screening mammography starting at age 45 years (S)**
   1a: Women who are ages 45 to 54 years should be screened annually (Q)
   1b: Women who are 55 years and older should transition to biennial screening or have the opportunity to continue screening annually (Q)
   1c: Women should have the opportunity to begin annual screening between the ages of 40 and 44 years (Q)

2. **Women should continue screening as long as their overall health is good and they have a life expectancy of 10 years or longer (Q)**

3. **The ACS does not recommend clinical breast examination for breast cancer screening among average-risk women at any age (Q)**
Therese Bevers, MD

The University of Texas

MD Anderson Cancer Center

National Comprehensive Cancer Network

- The National Comprehensive Cancer Network® (NCCN®) is an alliance of 26 of the leading academic cancer centers in the United States dedicated to improving the quality, effectiveness, and efficiency of cancer care provided to patients.
- Multidisciplinary panels that includes experts representing multiple specialties and centers
- NCCN panels address screening, diagnosis, treatment and management of benign and malignant breast disease
NCCN Categories of Evidence and Consensus

Category 1: Based upon high-level evidence, there is uniform NCCN consensus that the intervention is appropriate.

Category 2A: Based upon lower-level evidence, there is uniform NCCN consensus that the intervention is appropriate.

Category 2B: Based upon lower-level evidence, there is NCCN consensus that the intervention is appropriate.

Category 3: Based upon any level of evidence, there is major NCCN disagreement that the intervention is appropriate.

All recommendations are category 2A unless otherwise noted

Please visit NCCN.org for more information on the NCCN Guidelines Development Process.

Mammographic Screening

- NCCN recognizes that the primary purpose of screening women with average-risk for developing breast cancer is to decrease mortality and morbidity.
  - NCCN recommends annual screening beginning at age 40 after women are counseled regarding potential benefits, risks, and limitations of breast screening.
  - NCCN recommends consideration of severe comorbid conditions limiting life expectancy and whether therapeutic interventions are planned. Upper age not established.
Breast Cancer Screening Consensus Conference

Core Group: USPSTF, ACS, NCCN, the American College of Radiology, the American College of Surgeons, the American Academy of Family Physicians, the American College of Physicians, and American Congress of Obstetricians and Gynecologists

Stakeholders: Representatives from 22+ other organizations representing women’s health care providers, radiologists, patient advocate organizations, and allied women’s health professional communities, and patients

A recording of this session will be available at http://education.nccn.org by June 2016.