

# Breast Cancer<sup>®</sup>

U P D A T E

An Audio Review Journal for Surgeons  
Bridging the Gap between Research and Patient Care

**FACULTY INTERVIEWS**

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Charles E Geyer Jr, MD

**EDITOR**

Neil Love, MD

This activity provides Category 1 CME that may be used as self-assessment credit toward Part 2 of the American Board of Surgery MOC Program.



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# *Breast Cancer Update for Surgeons*

## A Continuing Medical Education Audio Series

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### OVERVIEW OF ACTIVITY

Historically, surgery has been the primary mode of treatment for early breast cancer. The complexity of the diagnostic, surgical and medical management of this disease, however, has escalated because of numerous advances in novel technologies and available adjunctive therapies. Hence, the multifaceted treatment of breast cancer now requires the input of an interdisciplinary group of expert care providers, and this paradigm shift has created the challenge of ensuring that knowledge of major clinical advances in local and systemic therapy is effectively disseminated among all members of the cross-functional team. To bridge the gap between research and patient care, *Breast Cancer Update for Surgeons* uses one-on-one interviews with leading breast cancer investigators to efficiently distill the latest research developments so they may be incorporated into clinical practice as appropriate. By providing access to cutting-edge data and expert perspectives, this CME program assists breast surgeons in the formulation of up-to-date clinical management strategies.

### LEARNING OBJECTIVES

- Appreciate the information provided by genomic platforms to assess risk and individualize therapy for patients with ductal carcinoma in situ and early breast cancer.
- Develop an evidence-based approach to the management of the axilla in patients with localized breast cancer and a positive sentinel lymph node biopsy.
- Individualize the selection of evidence-based neoadjuvant and adjuvant chemobiologic regimens for patients with HER2-positive early breast cancer.
- Consider which patients may be appropriate candidates for intraoperative radiation therapy, and compare the efficacy and cosmetic outcomes of this approach to those of whole-breast radiation therapy.
- Counsel appropriately selected patients with breast cancer about participation in ongoing clinical trials.

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## CME INFORMATION

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**FACULTY** — The following faculty (and their spouses/partners) reported relevant conflicts of interest, which have been resolved through a conflict of interest resolution process: **Dr Willey** — Speakers Bureau: Genentech BioOncology, Invuity Inc, Medtronic Inc, Pacira Pharmaceuticals Inc. **Dr Geyer** — Consulting Agreements: Celgene Corporation, Noveome Biotherapeutics; Contracted Research: AstraZeneca Pharmaceuticals LP, Merck.

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## Interview with Shawna C Willey, MD

### Tracks 1-15

- |                |  |                 |  |
|----------------|--|-----------------|--|
| <b>Track 1</b> | <b>Case:</b> A 58-year-old woman with ER/PR-positive ductal carcinoma in situ (DCIS), lobular carcinoma in situ and columnar cell changes desires a good cosmetic outcome in her breasts | <b>Track 10</b> | Utility of genomic assays in the neoadjuvant setting   |
| <b>Track 2</b> | Role of the DCIS Recurrence Risk Score in patients being considered for radiation therapy (RT)   | <b>Track 11</b> | Alliance A11202 and NSABP-B-51 Phase III studies of axillary treatment after neoadjuvant chemotherapy for patients with node-positive versus node-negative disease                         |
| <b>Track 3</b> | Use of the DCIS Recurrence Risk Score in clinical practice   | <b>Track 12</b> | Novel strategies for high-risk HER2-positive breast cancer: Addition of pertuzumab to adjuvant chemotherapy/trastuzumab and postadjuvant neratinib   |
| <b>Track 4</b> | Patient selection for intraoperative RT (IORT)   | <b>Track 13</b> | <b>Case:</b> A 37-year-old woman with B-cup breasts has a 5.5-cm, strongly ER/PR-positive, HER2-negative, node-negative breast cancer and a 21-gene signature Recurrence Score® (RS) of 16 |
| <b>Track 5</b> | Cosmetic outcomes with IORT  | <b>Track 14</b> | Use of genomic assays for patients with node-positive breast cancer  |
| <b>Track 6</b> | Controversy surrounding the efficacy of IORT versus whole-breast irradiation   | <b>Track 15</b> | Mastectomy and re-excision rates in relation to adoption of a consensus guideline on surgical margins  |
| <b>Track 7</b> | External beam partial-breast irradiation   |                 |  |
| <b>Track 8</b> | <b>Case:</b> A 57-year-old woman with a 1.5-cm, ER/PR-positive, HER2-positive, node-positive breast cancer receives neoadjuvant chemotherapy, trastuzumab and pertuzumab                 |                 |  |
| <b>Track 9</b> | Axillary node management after neoadjuvant chemotherapy  |                 |  |

## Interview with Charles E Geyer Jr, MD

### Tracks 1-9

- |                |   |                |   |
|----------------|---|----------------|---|
| <b>Track 1</b> | <b>Case:</b> A 69-year-old woman with a 1-cm, strongly ER-positive, HER2-negative breast cancer has a 2.4-cm positive axillary node             | <b>Track 6</b> | Use of genomic assays to guide treatment decision-making for patients with ER-positive, HER2-negative breast cancer   |
| <b>Track 2</b> | Neoadjuvant therapy for patients with node-positive, HER2-positive or triple-negative breast cancer and a tumor size of 2 centimeters or larger | <b>Track 7</b> | RxPONDER study of adjuvant endocrine therapy with or without chemotherapy for patients with hormone receptor-positive, HER2-negative invasive breast cancer, 1 to 3 positive nodes and an RS of 25 or lower |
| <b>Track 3</b> | Management of the axilla in patients with node-negative or node-positive disease after neoadjuvant therapy                                      | <b>Track 8</b> | Overview of breast cancer genomic assays  |
| <b>Track 4</b> | Neoadjuvant endocrine therapy for strongly ER-positive breast cancer  | <b>Track 9</b> | Using genomic assays to predict benefit from extended adjuvant endocrine therapy  |
| <b>Track 5</b> | Use of the 21-gene signature assay to choose neoadjuvant endocrine therapy or chemotherapy for patients with ER-positive breast cancer          |                |   |

## Video Program

View the corresponding video interviews with (from left) Drs Willey and Geyer by Dr Love at [www.ResearchToPractice.com/BCUS217/Video](http://www.ResearchToPractice.com/BCUS217/Video)



### QUESTIONS ADDRESSED BY THE FACULTY INCLUDE:

- ▶ In patients with DCIS, does radiation therapy compromise cosmetic outcome?
- ▶ How, if at all, do you use the DCIS Recurrence Risk Score in practice?
- ▶ Can you provide an update on intraoperative radiation therapy?
- ▶ Does a belief exist in the community that intraoperative radiation therapy may not be as effective as whole breast irradiation?
- ▶ How do you approach the use of genomic assays in patients with node-positive breast cancer?
- ▶ Would you comment on nipple-sparing mastectomy and how you incorporate it into your practice?
- ▶ Would you comment on the issue of contralateral prophylactic mastectomies?
- ▶ How do you typically approach patients with clinically gross axillary node involvement in terms of neoadjuvant chemotherapy?
- ▶ Do genomic assays have a role in deciding whether to administer neoadjuvant endocrine therapy?
- ▶ Would you comment on Dr Harry Bear's study using the 21-gene signature assay to choose neoadjuvant endocrine therapy or chemotherapy for patients with ER-positive breast cancer?

### Have Questions or Cases You Would Like Us to Pose to the Faculty?



Submit them to us via Facebook or Twitter and we will do our best to get them answered for you

 [Facebook.com/ResearchToPractice](https://www.facebook.com/ResearchToPractice) or  [Twitter @DrNeilLove](https://twitter.com/DrNeilLove)

## SELECT PUBLICATIONS

**A phase III, randomized clinical trial of standard adjuvant endocrine therapy +/- chemotherapy in patients with 1-3 positive nodes, hormone receptor-positive and HER2-negative breast cancer with Recurrence Score (RS) of 25 or less. RxPONDER: A clinical trial Rx for positive node, endocrine responsive breast cancer. NCT01272037**

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Boughey JC et al. Contralateral prophylactic mastectomy (CPM) consensus statement from the American Society of Breast Surgeons: Data on CPM outcomes and risks. *Ann Surg Oncol* 2016;23(10):3100-5.

Cardoso F et al. 70-gene signature as an aid to treatment decisions in early-stage breast cancer. *N Engl J Med* 2016;375(8):717-29.

Caudle AS et al. Use of sentinel lymph node dissection after neoadjuvant chemotherapy in patients with node-positive breast cancer at diagnosis: Practice patterns of American Society of Breast Surgeons members. *Ann Surg Oncol* 2017;[Epub ahead of print].

Chan A et al. Neratinib after trastuzumab-based adjuvant therapy in patients with HER2-positive breast cancer (ExteNET): A multicentre, randomised, double-blind, placebo-controlled, phase 3 trial. *Lancet Oncol* 2016;17(3):367-77.

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Mamounas EP et al. A randomized, double-blinded, placebo-controlled clinical trial of extended adjuvant endocrine therapy (tx) with letrozole (L) in postmenopausal women with hormone-receptor (+) breast cancer (BC) who have completed previous adjuvant tx with an aromatase inhibitor (AI): Results from NRG Oncology/NS. San Antonio Breast Cancer Symposium 2016; **Abstract S1-05**.

Morrow M et al. Mastectomy rates in relation to adoption of a margin guideline. *Proc ASCO* 2017; **Abstract 508**.

Pilewskie M, Morrow M. Axillary nodal management following neoadjuvant chemotherapy: A review. *JAMA Oncol* 2017;3(4):549-55.

**Program for the assessment of clinical cancer tests (PACCT-1): Trial assigning individualized options for treatment: The TAILORx trial. NCT00310180**

Roberts MC et al. Breast cancer-specific survival in patients with lymph node-positive hormone receptor-positive invasive breast cancer and Oncotype DX Recurrence Score results in the SEER database. *Breast Cancer Res Treat* 2017;163(2):303-10.

Sgroi DC et al. Prediction of late distant recurrence in patients with oestrogen-receptor-positive breast cancer: A prospective comparison of the breast-cancer index (BCI) assay, 21-gene Recurrence Score, and IHC4 in the TransATAC study population. *Lancet Oncol* 2013;14(11):1067-76.

Solin LJ et al. A multigene expression assay to predict local recurrence risk for ductal carcinoma in situ of the breast. *J Natl Cancer Inst* 2013;105(10):701-10.

Sparano JA et al. Prospective validation of a 21-gene expression assay in breast cancer. *N Engl J Med* 2015;373(21):2005-14.

Vaidya JS et al; TARGIT trialists' group. Risk-adapted targeted intraoperative radiotherapy versus whole-breast radiotherapy for breast cancer: 5-year results for local control and overall survival from the TARGIT-A randomised trial. *Lancet* 2014;383(9917):603-13.

Veronesi U et al. Intraoperative radiotherapy versus external radiotherapy for early breast cancer (ELIOT): A randomised controlled equivalence trial. *Lancet Oncol* 2013;14(13):1269-77.

von Minckwitz G et al; APHINITY Steering Committee and Investigators. Adjuvant pertuzumab and trastuzumab in early HER2-positive breast cancer. *N Engl J Med* 2017;377(2):122-31.

## QUESTIONS (PLEASE CIRCLE ANSWER):

- Which of the following risks is quantified by the DCIS Recurrence Risk Score?
  - Risk of ipsilateral invasive breast cancer
  - Risk of DCIS local recurrence
  - Both a and b
- Which of the following patients meet the eligibility criteria for receiving IORT?
  - A patient with ER/PR-positive, HER2-negative, node-positive DCIS
  - A patient with ER/PR-positive, HER2-negative, node-negative IDC
  - Both a and b
- During IORT, approximately how far outside the tumor cavity does the radiation effect occur?
  - One centimeter
  - Two to 3 centimeters
  - Four to 5 centimeters
- The Alliance A11202 Phase III trial is evaluating the role of axillary lymph node dissection versus no axillary lymph node dissection after neoadjuvant chemotherapy for patients with sentinel lymph node-positive disease.
  - True
  - False
- Advantages of IORT as compared to whole-breast irradiation include \_\_\_\_\_.
  - Improved cosmetic outcomes
  - The fact that it is performed immediately after surgery (approximate 20-minute to 1-hour procedure time) rather than requiring multiple postoperative visits to the clinic
  - Both a and b
  - Neither a nor b
- The goal of the MINDACT trial, for which initial results were recently published, was to evaluate the benefit of genomic profiling with the \_\_\_\_\_ in addition to standard clinical-pathological criteria for identifying patients with early breast cancer and 0 to 3 positive lymph nodes who might safely forgo chemotherapy without compromising outcome.
  - PAM50 assay
  - 70-gene signature
  - 21-gene signature
- Which of the following outcomes has been observed since the publication of the 2014 SSO-ASTRO consensus guidelines endorsing “no ink on tumor”?
  - Fewer re-excisions after lumpectomy
  - Fewer mastectomies
  - Both a and b
- A study published by Bear and colleagues that randomly assigned patients with hormone receptor-positive, HER2-negative breast cancer and an intermediate 21-gene RS to neoadjuvant chemotherapy or neoadjuvant endocrine therapy demonstrated a higher pathologic complete response rate in favor of endocrine therapy.
  - True
  - False
- Which of the following categories reflects the mechanism of action of neratinib?
  - Antibody-drug conjugate
  - Anti-PD-1/PD-L1 antibody
  - Tyrosine kinase inhibitor
- A logistical challenge to using the 70-gene signature assay is that it continues to require only fresh frozen tissues.
  - True
  - False



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**PART 1 — Please tell us about your experience with this educational activity**

**How would you characterize your level of knowledge on the following topics?**

	4 = Excellent    3 = Good    2 = Adequate    1 = Suboptimal							
	BEFORE		AFTER					
Design and objectives of the ongoing Phase III Alliance A11202 and NSABP-B-51 studies evaluating axillary treatment for patients after neoadjuvant chemotherapy	4	3	2	1	4	3	2	1
Information provided by different gene signature assays regarding the risk of recurrent DCIS and invasive breast cancer	4	3	2	1	4	3	2	1
Diverse role of genomic assays in guiding treatment decision-making in the neoadjuvant, adjuvant and locoregionally recurrent settings	4	3	2	1	4	3	2	1
RxPONDER: A Phase III trial of adjuvant endocrine therapy with or without chemotherapy for patients with node-positive invasive breast cancer and an RS of 25 or lower	4	3	2	1	4	3	2	1

**Practice Setting:**

- Academic center/medical school     Community cancer center/hospital     Group practice  
 Solo practice     Government (eg, VA)     Other (please specify).....

**Approximately how many new patients with breast cancer do you see per year?** ..... patients

**Was the activity evidence based, fair, balanced and free from commercial bias?**

- Yes     No

If no, please explain: .....

**Please identify how you will change your practice as a result of completing this activity (select all that apply).**

- This activity validated my current practice  
 Create/revise protocols, policies and/or procedures  
 Change the management and/or treatment of my patients  
 Other (please explain): .....

**If you intend to implement any changes in your practice, please provide 1 or more examples:**

.....

.....

.....

**The content of this activity matched my current (or potential) scope of practice.**

- Yes     No

If no, please explain: .....

**Please respond to the following learning objectives (LOs) by circling the appropriate selection:**

4 = Yes    3 = Will consider    2 = No    1 = Already doing    N/M = LO not met    N/A = Not applicable

**As a result of this activity, I will be able to:**

- Appreciate the information provided by genomic platforms to assess risk and individualize therapy for patients with ductal carcinoma in situ and early breast cancer. .... 4 3 2 1 N/M N/A
- Develop an evidence-based approach to the management of the axilla in patients with localized breast cancer and a positive sentinel lymph node biopsy. .... 4 3 2 1 N/M N/A
- Individualize the selection of evidence-based neoadjuvant and adjuvant chemobiologic regimens for patients with HER2-positive early breast cancer. .... 4 3 2 1 N/M N/A

**EDUCATIONAL ASSESSMENT AND CREDIT FORM (continued)**

**As a result of this activity, I will be able to:**

- Consider which patients may be appropriate candidates for intraoperative radiation therapy, and compare the efficacy and cosmetic outcomes of this approach to those of whole-breast radiation therapy. . . . . 4 3 2 1 N/M N/A
- Counsel appropriately selected patients with breast cancer about participation in ongoing clinical trials. . . . . 4 3 2 1 N/M N/A

**Please describe any clinical situations that you find difficult to manage or resolve that you would like to see addressed in future educational activities:**

.....

.....

.....

**Would you recommend this activity to a colleague?**

Yes       No      If no, please explain: .....

.....

**Additional comments about this activity:**

.....

.....

.....

<b>PART 2 — Please tell us about the faculty and editor for this educational activity</b>												
	4 = Excellent			3 = Good			2 = Adequate			1 = Suboptimal		
<b>Faculty</b>	<b>Knowledge of subject matter</b>						<b>Effectiveness as an educator</b>					
Shawna C Willey, MD	4	3	2	1	4	3	2	1	4	3	2	1
Charles E Geyer Jr, MD	4	3	2	1	4	3	2	1	4	3	2	1
<b>Editor</b>	<b>Knowledge of subject matter</b>						<b>Effectiveness as an educator</b>					
Neil Love, MD	4	3	2	1	4	3	2	1	4	3	2	1

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