Breast Cancer®

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

FACULTY INTERVIEWS

Monica Morrow, MD Harold J Burstein, MD, PhD Kelly K Hunt, MD Lawrence J Solin, MD

EDITOR

Neil Love, MD

CONTENTS

2 Audio CDs













Breast Cancer Update for Surgeons

A Continuing Medical Education Audio Series

OVERVIEW OF ACTIVITY

Historically, surgery has been the primary mode of treatment for early breast cancer. The diagnostic, surgical and medical management of breast cancer, however, have escalated in complexity because of numerous advances in novel technologies and available adjunctive medical therapies. Hence, the multifaceted treatment of breast cancer now requires the input of an interdisciplinary group of expert care providers. This paradigm shift has created the challenge of ensuring that major clinical advances in local and systemic breast cancer therapy are 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 in the field so that they may be incorporated into clinical practice where 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

- Use case-based learning to aid in the formulation of individualized treatment strategies for patients with breast cancer
- Formulate an evidence-based approach to the surgical management of breast cancer in patients with a positive sentinel lymph node biopsy.
- Determine the utility of genomic assays in counseling patients with DCIS or ER-positive early breast cancer about their risk of recurrence and the potential benefits of radiation therapy or adjuvant chemotherapy, respectively.
- Evaluate the long-term outcomes associated with the use of radiation therapy following breast-conserving surgery for patients with pathologically confirmed node-negative or node-positive disease.
- Describe current disease management strategies and ongoing clinical trials comparing partial breast irradiation to standard or conventional whole breast radiation therapy.
- Identify appropriate patients for the use of magnetic resonance imaging and screening in the management of breast cancer.

ACCREDITATION STATEMENT

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This activity is supported by an educational grant from Genomic Health Inc.

Last review date: July 2012; Release date: July 2012; Expiration date: July 2013

FACULTY INTERVIEWS



3 Monica Morrow, MD

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Hamill Foundation Distinguished Professor of Surgery in Honor of Dr Richard G Martin Sr Chief, Surgical Breast Section, Department of Surgical Oncology The University of Texas MD Anderson Cancer Center Houston, Texas



4 Lawrence J Solin, MD

Chairman, Department of Radiation Oncology Albert Einstein Medical Center Philadelphia, Pennsylvania

- 5 SELECT PUBLICATIONS
- 6 POST-TEST
- 7 EDUCATIONAL ASSESSMENT AND CREDIT FORM

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EDITOR



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FACULTY — **Drs Morrow**, **Burstein** and **Hunt** had no real or apparent conflicts of interest to disclose. The following faculty (and their spouses/partners) reported real or apparent conflicts of interest, which have been resolved through a conflict of interest resolution process: **Dr Solin** — **Advisory Committee**: Genomic Health Inc.

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INTERVIEW



Monica Morrow, MD

Tracks 1-15

Dr Morrow is Anne Burnett Windfohr Chair of Clinical Oncology, Chief of Breast Service in the Department of Surgery at Memorial Sloan Kettering Cancer Center and Professor of Surgery at Weill Medical College of Cornell University in New York, New York.

- Track 1 ACOSOG-Z0011: A randomized trial of axillary lymph node dissection (ALND) in women with clinical T1-2NOMO breast cancer (BC) who have a positive sentinel lymph node (SLN)
- Track 2 Clinical application of the ACOSOG-Z0011 trial results
- Track 3 Adverse effects and complications of ALND versus SLN biopsy
- Track 4 Use of the Onco*type* DX® DCIS Score[™] to identify patients who will not benefit from radiation therapy (RT)
- Track 5 Second opinion: Preoperative magnetic resonance imaging (MRI) and surgical management of nonpalpable BC
- Track 6 Appropriate use of MRI screening for patients with known BRCA mutations or family history of BC
- Track 7 Second opinion: Impact of surgical margins on local recurrence in women with early-stage invasive BC treated with breast-conserving therapy (BCT)

- Track 8 Risk of local recurrence for patients with invasive breast cancer and DCIS who do not undergo RT
- Track 9 Clinical decision-making regarding surgery based on histopathologic grading
- Track 10 Case discussion: A 56-year-old woman with a 6-cm, T3N1, Grade III triplenegative invasive ductal carcinoma (IDC)
- Track 11 Use of MRI to plan breast-conserving surgery after neoadjuvant chemotherapy
- Track 12 Neoadjuvant treatment algorithm for patients who desire BCT
- Track 13 Case discussion: A 42-year-old woman with a 3-cm, Grade II, ER/PR-positive, HER2-negative, node-negative IDC and an Oncotype DX Recurrence Score® (RS) of 10
- Track 14 Applicability of the Oncotype DX assay
- Track 15 Case discussion: A 55-year-old postmenopausal woman undergoes lumpectomy for a Grade II, ER-positive, mixed. solid and cribriform DCIS



INTERVIEW

Harold J Burstein, MD, PhD

Tracks 1-12

Dr Burstein is Associate Professor of Medicine at Harvard Medical School and is affiliated with the Breast Oncology Center at Dana-Farber Cancer Institute in Boston. Massachusetts.

- Track 1 Case discussion: A 66-year-old woman who underwent treatment for node-positive BC in 1985 presents with ER-positive, HER2-negative recurrent disease 16 years later
- Track 2 Predictors of late recurrence after adjuvant endocrine therapy for BC
- Track 3 Multidisciplinary management of locoregional recurrence
- Track 4 Use of partial breast irradiation in clinical practice
- Track 5 Isolated skull metastases after long-term disease control with "pseudoadjuvant" chemotherapy
- **Track 6** Importance of rebiopsy at initial diagnosis of metastatic disease
- Track 7 BOLERO-2 results: Exemestane with or without everolimus in ER-positive locally

- advanced or metastatic BC refractory to nonsteroidal aromatase inhibitors (Als)
- Track 8 Case discussion: A 62-year-old woman with a 1.3-cm, Grade II, ER-positive, HER2-negative BC with an SLN metastasis and a RS of 27
- Track 9 Use of the Onco*type* DX assay in decision-making for patients with node-positive BC outside of a trial setting
- Track 10 Viewpoint on next-generation tests for making individualized treatment decisions in the neoadjuvant setting
- Track 11 Lack of available guidelines to determine patient selection for molecular profiling
- Track 12 Influence of Oncotype DX RS on the selection of chemotherapy for a patient with ER-positive BC and SLN metastases



INTERVIEW

Kelly K Hunt, MD

Tracks 1-14

Dr Hunt is Hamill Foundation Distinguished Professor of Surgery in Honor of Dr Richard G Martin Sr and Chief of the Surgical Breast Section in the Department of Surgical Oncology at The University of Texas MD Anderson Cancer Center in Houston, Texas.

- Track 1 Impact of lymphedema after ALND on quality of life
- Track 2 Treatment decision-making regarding ALND for patients with positive SLN biopsy
- Track 3 Perspective on the design and results of the ACOSOG-Z0011 trial
- Track 4 IBCSG 23-01: A Phase III trial evaluating ALND for patients with node-negative BC and micrometastases in the sentinel node
- Track 5 Results of Phase III trials evaluating the prognostic value of SLN micrometastases in predicting overall survival in BC
- Track 6 Second opinion: Decision-making regarding MRI use, necessity of ALND and decision-making regarding adjuvant chemotherapy
- Track 7 Surgical management of centrally located BC
- Track 8 Principles of oncoplastic surgery in the treatment of BC
- **Track 9** Applications and potential complications of nipple-sparing mastectomy

- Track 10 Case discussion: A 56-year-old woman with T3NO ER-positive, HER2-positive BC who receives neoadjuvant chemotherapy with concurrent trastuzumab and BCT and experiences a pathologic complete response
- Track 11 Case discussion: A 60-year-old woman with T2N0 ER-positive BC enrolls on the Phase III ACOSOG-Z1031 trial and receives neoadjuvant AI therapy → BCT
- Track 12 Case discussion: A 48-year-old woman with a 5-cm area of calcification biopsy proven to be DCIS who desires BCT
- Track 13 Case discussion: A 62-year-old postmenopausal woman with a 2.5-cm T2NO, ER-positive IDC who has an Oncotype DX RS of 6
- Track 14 Perspective on the Phase III SWOG-S1007 (RxPONDER) trial of adjuvant endocrine therapy with or without chemotherapy for patients with nodepositive BC and an Oncotype DX RS of 25 or lower



INTERVIEW

Lawrence J Solin, MD

Tracks 1-10

Dr Solin is Chairman in the Department of Radiation Oncology at the Albert Einstein Medical Center in Philadelphia, Pennsylvania.

- Track 1 Meta-analysis of 17 randomized trials on the effect of RT after BCT
- **Track 2** Decision-making regarding the use of RT for patients age 70 or older
- Track 3 Comparison between partial and whole breast irradiation
- Track 4 TARGIT: A Phase III trial comparing targeted intraoperative RT to conventional postoperative RT after BCT for patients with early-stage BC
- Track 5 Identification of patients who benefit from postmastectomy RT
- Track 6 Potential use of molecular profiling assays in the selection of locoregional therapies

- Track 7 Prospective validation of the Onco*type*DX DCIS Score in predicting risk of
 local recurrence after resection alone
 for DCIS
- Track 8 Current role of the Onco*type* DX DCIS Score as a tool for identifying the risk of BC recurrence
- Track 9 Emerging approaches to stratifying risk and individualizing treatment for patients with DCIS
- Track 10 Perspective on future studies evaluating the Oncotype DX DCIS Score

SELECT PUBLICATIONS

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Breast Cancer Update for Surgeons — Issue 1, 2012

QUESTIONS (PLEASE CIRCLE ANSWER):

- The Phase III ACOSOG-Z0011 trial randomly assigned patients with clinical T1-2NOMO breast cancer and a positive sentinel node to axillary lymph node dissection (ALND) versus no ALND.
 - a. True
 - b. False
- 2. Common complications associated with ALND include
 - a. Pain
 - b. Lymphedema
 - c. Prolonged postoperative drainage
 - d. Changes in sensation in the upper, inner arm
 - e. All of the above
- 3. The BOLERO-2 Phase III trial of exemestane with or without everolimus for postmeno-pausal women with disease refractory to nonsteroidal aromatase inhibitors demonstrated improvements in response rate and progression-free survival with the addition of everolimus to exemestane.
 - a. True
 - b. False
- The Oncotype DX DCIS Score was validated in the ECOG-E5194 study, which included only women with small foci of DCIS.
 - a. True
 - b. False

- 5. ACOSOG-Z1031 was a Phase III study in which ______ patients with ER-positive breast cancer were further selected on the basis of their Allred score before random assignment to 1 of 3 aromatase inhibitors __ exemestane, anastrozole or letrozole.
 - a. Postmenopausal
 - b. Premenopausal
- The Phase III SWOG-S1007 (RxPONDER) study randomly assigns patients with nodepositive, ER-positive, HER2-negative breast cancer and Oncotype DX Recurrence Scores of 25 or lower to adjuvant endocrine therapy with or without chemotherapy.
 - a. True
 - b. False
- 7. Which of the following toxicities was associated with the addition of everolimus to exemestane for patients with ER/PR-positive metastatic breast cancer refractory to nonsteroidal aromatase inhibitors in the BOLERO-2 trial?
 - a. Stomatitis
 - b. Pneumonitis
 - c. Dyspnea
 - d. All of the above
- The Phase III TARGIT trial compares targeted intraoperative radiation therapy to conventional postoperative radiation therapy after breast-conserving therapy for patients with early-stage breast cancer.
 - a. True
 - b. False

EDUCATIONAL ASSESSMENT AND CREDIT FORM

Breast Cancer Update for Surgeons — Issue 1, 2012

Research To Practice is committed to providing valuable continuing education for oncology clinicians, and your input is critical to helping us achieve this important goal. Please take the time to assess the activity you just completed, with the assurance that your answers and suggestions are strictly confidential.

PART 1 — Please tell us about your experience with this educational acti	vity	
How would you characterize your level of knowledge on the following topics?		
4 = Excellent $3 = Good$ 2	= Adequate	1 = Suboptimal
	BEFORE	AFTER
Prognostic value of sentinel lymph node micrometastases in predicting overall survival for patients with early-stage breast cancer — NSABP-B-32 and ACOSOG-Z0010 Phase III trials	4 3 2 1	4 3 2 1
SWOG-S1007 (RxPONDER) study: Adjuvant endocrine therapy with or without chemotherapy for patients with node-positive breast cancer and an Oncotype DX Recurrence Score of 25 or lower	4 3 2 1	4 3 2 1
Prospective validation study of the Onco <i>type</i> DX DCIS Score in predicting risk of local recurrence after resection alone for DCIS	4 3 2 1	4 3 2 1
TARGIT: A Phase III trial comparing targeted intraoperative radiation therapy to conventional postoperative radiation therapy after breast-conserving surgery in early-stage breast cancer	4 3 2 1	4 3 2 1
Was the activity evidence based, fair, balanced and free from commercial bia Yes No If no, please explain:	s?	
Please identify how you will change your practice as a result of completing th This activity validated my Create/revise protocols, policies and/or procedures Other (please explain):	Change the mar treatment of my	nagement and/or
If you intend to implement any changes in your practice, please provide 1 or	more examples:	
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The content of this activity matched my current (or potential) scope of practic Yes No If no, please explain:		
Please respond to the following learning objectives (LOs) by circling the appro		
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:		
Use case-based learning to aid in the formulation of individualized treatment strategies for patients with breast cancer.	4	3 2 1 N/M N/A
Formulate an evidence-based approach to the surgical management of breast cancer in patients with a positive sentinel lymph node biopsy	4	3 2 1 N/M N/A
 Determine the utility of genomic assays in counseling patients with DCIS or ER-positive early breast cancer about their risk of recurrence and the potential benefits of radiation therapy or adjuvant chemotherapy, respectively. 	4	2 2 1 NI/M NI//
Evaluate the long-term outcomes associated with the use of radiation therapy	4	5 Z I IN/IVI IN/F
following breast-conserving surgery for patients with pathologically confirmed node-negative or node-positive disease.	4	3 2 1 N/M N/A
Describe current disease management strategies and ongoing clinical trials comparing partial breast irradiation to standard or conventional whole breast radiation thereby.	4	2 2 1 NI/M NI/A
whole breast radiation therapy	4	o∠ i in/ivi in/#
and screening in the management of breast cancer	4	3 2 1 N/M N/A

EDUCATIONAL ASSESSMENT AND CREDIT FORM (continued)

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: As part of our ongoing, continuous quality-improvement effort, we conduct postactivity follow-up surveys to assess the impact of our educational interventions on professional practice. Please indicate your willingness to participate in such a survey. Yes. I am willing to participate in a follow-up survey. No, I am not willing to participate in a follow-up survey. PART 2 — Please tell us about the faculty and editor for this educational activity 4 = Excellent 3 = Good2 = Adequate1 = Suboptimal **Faculty** Knowledge of subject matter Effectiveness as an educator Monica Morrow, MD 3 2 1 1 Harold J Burstein, MD, PhD 3 4 3 2 1 4 3 2 1 Kelly K Hunt, MD Lawrence J Solin, MD 4 3 2 1 Λ 3 2 Editor Knowledge of subject matter Effectiveness as an educator Neil Love, MD 3 1 3 Please recommend additional faculty for future activities: Other comments about the faculty and editor for this activity: REQUEST FOR CREDIT — Please print clearly Name: Specialty: Specialty: Professional Designation: \square MD □ DO □ PharmD □ NP □ RN □ PA Other Street Address: Box/Suite: City, State, Zip: Telephone: Fax: Research To Practice designates this enduring material for a maximum of 2.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity. I certify my actual time spent to complete this educational activity to be hour(s). Signature: Date:

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Expiration date: July 2013 Estimated time to complete: 2.75 hours Last review date: July 2012 Release date: July 2012



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