Table of Contents

Overview .................................................................................................................................................. 2
  Program Purpose .............................................................................................................................. 3
  Program Elements ......................................................................................................................... 4
Curriculum .............................................................................................................................................. 4
  Accreditation ..................................................................................................................................... 4
  Accessing MBP Online Courses .................................................................................................... 4
  Online Instructions .......................................................................................................................... 5
  Technical Requirements .................................................................................................................. 5
  MBP Online Courses ........................................................................................................................ 5
  Faculty-Led Program: Live Virtual Workshop ................................................................................ 8
  Live Virtual Workshop Agenda ........................................................................................................ 9
Program Registration ......................................................................................................................... 10
  How to Register .............................................................................................................................. 10
  Registration Fee .............................................................................................................................. 11
  Additional Participation Information ............................................................................................... 11
  Questions ......................................................................................................................................... 11
Overview
Congratulations on your desire to find out more about the Multidisciplinary Breast Pathology (MBP) Program. This manual will address your questions regarding program eligibility, design, and requirements for obtaining your MBP certificate of completion.

We created the MBP Program for pathologists with intermediate or higher skill level in breast pathology. As a result of completing the program, qualified participants should be able to:

1. Understand the implications of findings from the major breast imaging modalities and correlate these findings with clinical and histologic information in order to provide appropriate recommendations for patient management and additional diagnostic steps when needed.
2. Explain and implement best practices in breast pathology: specimen handling, assay criteria and selection, process management, and remediation of test performance issues in support of optimum patient care.
3. Evaluate and interpret breast predictive factors test results following the ASCO-CAP guidelines for cases representing all levels of complexity, integrating the test results with clinical and morphologic findings.
4. Explain breast cancer treatment options and their associated toxicities, cost implications, and efficacy as indicated by test results.
5. Explain the goals of breast surgery and describe the different types of surgery.

To participate in the program, you must have a user ID and password for the CAP website. To register/make payment for the program, log into the website cap.org, click Education, and enter MBP into the search box.

Read on to learn how the program provides you with the opportunity to learn the new skills and knowledge required to provide excellent patient care!

Important Note: The MBP Program is a learning activity. Completion of this program alone does not necessarily indicate competence. The CAP does not endorse guarantee, or warrant, and expressly disclaims any and all liability for the job performance of physicians participating in this program.
Program Purpose
The CAP is the leading organization of board-certified pathologists, serving patients, pathologists, and the public by fostering and advocating excellence in the practice of pathology and laboratory medicine. We seek to create new and enhanced roles for the pathologist over the next generation, as well as greater recognition for pathologists as physicians actively involved in the patient care team. The MBP Program directly contributes to our vision of transforming the role of the pathologist as a leading health care provider in a practical, coordinated, and systematic manner.

The program facilitates successful patient management treatment of breast cancer patients by ensuring pathologists maximize their role on the patient care team. This not only requires the integration of pathologic findings with the entire clinical picture, but it also requires an understanding of the treatment implications of these results and participation in an active dialogue with multidisciplinary team members to support patient management throughout the entire treatment process. The program focuses on providing and equipping pathologists with practical skills, tools, and techniques that they can implement in their laboratories to ensure more effective results for patients as well as to comply with the ASCO-CAP guidelines. Additional constituencies benefit from the program as well:

**Laboratories and pathology departments/groups** – It is anticipated that some laboratories and pathology groups will directly purchase the program on behalf of an employed/contracted pathologist. Laboratories and pathology groups who do so will benefit from having increased confidence in the oversight of their breast clinical management, including imaging and treatment, and from increasing the visibility of these programs to others.

**Referring clinicians, tumor boards, and multidisciplinary health care teams** – The availability of one or more pathologists who have completed the MBP program is a key factor in assuring other health care providers that these pathologists have a comprehensive understanding of breast cancer management.

**Most importantly, the patients** – Likewise, the availability of one or more pathologists who have completed the program in the health care setting provides patients assurance that their test results are accurate. Given test accuracy, patients can feel confident that the diagnosis as well as the clinician's treatment decisions will also be accurate and cost-effective.
Program Elements
The CAP designed the MBP Program for pathologists with intermediate or higher skill level in breast pathology. Participants who will most benefit from the breast pathology program include pathologists who have reviewed cases, attended tumor boards, and participated in multidisciplinary conferences. Learning programs are most effective when targeted to a particular experience base. Setting prerequisites is a common method for targeting education programs.

The curriculum consists of six self-paced online courses followed by a faculty-led live virtual workshop (22.50 total CME credits: 10.50 for online courses; 12.00 for the workshop).

- The online portion of the program consists of six courses offering a total of 10.50 CME credits. The online courses should be completed prior to attending the workshop.
- The live virtual workshop offering a total of 12.00 CME credits is an educational experience delivered across three consecutive workdays and led by a team of expert multidisciplinary faculty.
- Please refer to the curriculum section of this document for information about each online course and for details about the live virtual workshop.

Participants who successfully complete all MBP Program elements by the stated deadline will receive a certificate of completion.

Curriculum
The curriculum focuses on providing pathologists with the knowledge and skills needed to be a vital member of the patient care team. It is organized and summarized below by two delivery modalities: online and faculty led. For activity sequence, please refer to the agenda section.

Accreditation
The College of American Pathologists (CAP) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Accessing MBP Online Courses
You will be registered automatically into the online courses, and you will receive an email with instructions on how to access them. Descriptions for each online activity can be found below.

- Diagnosing and Classifying Hyperplasia, Atypical Hyperplasia, and Low-Grade DCIS
- Understanding Breast Imaging Terminology
- Diagnosing Breast Lesions
- 2018 HER2 Focused Update
- Invasive Breast Cancer and Risk of Recurrence Testing
- Getting Your Message Across: Effective Communication Strategies for Breast Pathologists
Online Instructions
Participants must establish a CAP web account in order to access and complete the online courses. If you do not have an individual web account, go to cap.org, then select log in and complete and submit the requested information.

Once your account has been established, follow the instructions below to access the online courses.

1. Go to cap.org and click on log in on the upper right-hand corner and log in with your user ID and password.
2. Click on Education and then click Activities in Progress.
3. Click the title of the activity you would like to access.
4. On the Overview tab, read the information and then select the Take Course tab and click on the Take Course button to launch the course.

Technical Requirements
The CAP recommends the following for the best experience: https://www.cap.org/browser-and-operating-system-requirements.

- Browser version: Edge, Firefox, Chrome, Safari.
- Pop-up blockers must be turned off to complete CAP activities.

MBP Online Courses

| Diagnosing and Classifying Hyperplasia, Atypical Hyperplasia, and Low-Grade DCIS |
| Credits: 1.25 CME |
| CC Categories: Medical Knowledge, Patient Care |
| Breast cancer is a morphologically and clinically diverse disease. The successful treatment for the patient relies on an accurate diagnosis of the morphological changes. In this activity, you will learn to distinguish usual ductal hyperplasia from atypical ductal hyperplasia and low-grade ductal carcinoma in situ, as well as flat epithelial atypia from various columnar cell lesions. You will also learn the clinical significance and the current management of these diagnoses. |
| Objectives |
| - Distinguish usual ductal hyperplasia from atypical ductal hyperplasia and low-grade ductal carcinoma in situ. |
| - Distinguish flat epithelial atypia from various columnar cell lesions. |

| Understanding Breast Imaging Terminology |
| Credits: 1.75 CME |
| CC Categories: Medical Knowledge, Patient Care |
| Correlating the histologic and radiographic findings is essential to ensure that the abnormality identified by imaging studies has been properly evaluated. This activity will focus on common breast imaging terminology and the application of mammography, ultrasound, and MRI imaging modalities used in evaluating breast lesions. Faculty will reference imaging studies of the most common breast abnormalities throughout the activity. You will also have the opportunity to complete review questions to check your understanding of the material. |
| Objectives |
| - Understand common terminology associated with major imaging modalities (mammography, ultrasound, and MRI). |
| - Recognize BI-RADS® classification and nomenclature. |
Diagnosing Breast Lesions

Credits: 1.25 CME

CC Categories: Medical Knowledge, Patient Care
IHC studies are increasingly being used to aid in the diagnostic evaluation of breast lesions. The activity will emphasize potential pitfalls in interpretation and will discuss both common as well as less recognized (but often more challenging) sources of diagnostic error. You will learn correlative morphological features to help you interpret confusing or indeterminate IHC results. You will also gain an understanding of the appropriate settings in which these IHC studies may be diagnostically helpful and an appreciation of their uses and limitations in daily practice.

Objectives
- Interpret commonly used IHC studies.
- Recognize potential interpretative pitfalls.
- Utilize correlative morphologic features.

2018 HER2 Focused Update

Credits: 1.25 CME

CC Categories: Medical Knowledge, Patient Care
In 2018 the American Society of Clinical Oncology and the CAP developed a focused update on human epidermal growth factor receptor 2 (HER2) testing in breast cancer. The focused update endorses the 2013 HER2 testing guidelines while addressing outstanding questions related to HER2 testing. It focuses on specific clinical topics that have been raised by the clinical community and in the literature since the publication of the 2013 guidelines. This activity addresses each of the clinical questions and includes clinical case studies that illustrate the practical application of what has been proposed in this update.

Objectives
- Describe the purpose of the 2018 HER2 focused update.
- State the most appropriate definition for IHC2 positive (IHC equivocal).
- Clarify if HER2 testing must be repeated on a surgical specimen if initially negative test on core biopsy.
- Explain if invasive cancers with a HER2/chromosome enumeration probe 17 (CEP17) ratio of ≥2 but an average HER2 copy number of <4.0 signals per cell should be considered ISH positive.
- Explain if invasive cancers with an average HER2 copy number of ≥6.0 signals per cell but a HER2/CEP17 ratio of <2.0 should be considered ISH positive.
- Explain the appropriate diagnostic workup for invasive cancers with an average HER2 copy number ≥4.0 but <6.0 signals per cell and an HER2/CEP17 ratio <2.0 and initially deemed to have an equivocal HER2 ISH test result.
Invasive Breast Cancer and Risk of Recurrence Testing

Credits: 1.50 CME

CC Categories: Medical Knowledge, Patient Care
Genomic testing for breast cancer recurrence risk has become an important part of clinical breast cancer care. This activity provides an overview of risk of recurrence testing used in the diagnosis and treatment of invasive breast cancer. Statistics on cancer recurrence and clinical outcomes with chemotherapy, including data from the TAILORx trial, are reviewed. The activity also provides the value and benefits of risk of recurrence testing, as well as how to determine which patients are good candidates for this testing. The different types of multigene assays and distinctions between them are reviewed, as well as an overview of IHC and protein profiling of cancer. The activity includes the American Society of Clinical Oncology and National Comprehensive Cancer Network clinical practice guidelines for use of biomarkers to guide decisions on adjuvant systemic therapy for women with invasive breast cancer and discusses the issues and concerns that continue to exist around risk of recurrence testing.

Objectives
• Define risk of recurrence testing.
• Describe the value and benefits of risk of recurrence testing.
• Identify several of the commercial multigene assays available and some distinctions between them.
• Explain which patients are good candidates for risk of recurrence testing and how to make this determination.
• Explain when and how the application of selective antibody panels and routine IHC can be used to predict clinical behavior and outcomes in subsets of breast cancer patients.
• Identify the clinical practice guidelines for use of biomarkers to guide decisions on adjuvant systemic therapy for women with invasive breast cancer.
• Explain some of the current issues and concerns surrounding risk of recurrence testing for breast cancer patients.

Getting Your Message Across: Effective Communication Strategies for Breast Pathologists

Credits: 3.50 CME

CC Categories: Medical Knowledge, Patient Care, Interpersonal and Communication Skills
This activity provides a solid introduction to the basics of interpersonal communication and consists of the following high-level topics: communication basics, speaking, listening, collaborating, and adapting. Models and elements of communication and feedback are examined. Strategies for building and maintaining rapport and resolving conflicts through effective communication are reviewed, including techniques for communicating with credibility, listening to others, disclosing errors, consulting clinical colleagues, and dealing with difficult conversations. Throughout the activity, interactive scenarios provide realistic practice for implementing key characteristics of effective communication.

Objectives
• Identify the key communication roles played by the laboratory director.
• Listen actively to what others are saying to ensure complete understanding of the situation.
• Use clear, direct language to establish credibility and state your point of view.
• Apply communication strategies to effectively collaborate, influence, and manage resistance from others.
• Adapt your communication strategy to the needs of the audience and the situation.
Faculty-Led Program: Live Virtual Workshop

Length: Workshop delivered across three consecutive workdays and preceded by six online courses
Credits: 12.00 CME
CC Categories: Medical Knowledge, Patient Care

Objectives

- Understand the implications of findings from the major breast imaging modalities and correlate these findings with clinical and histologic information in order to provide appropriate recommendations for patient management and additional diagnostic steps when needed.
- Explain and implement best practices in breast pathology: specimen handling, assay criteria and selection, process management, and remediation of test performance issues in support of optimum patient care.
- Evaluate and interpret breast predictive factors test results following the ASCO-CAP guidelines for cases representing all levels of complexity, integrating the test results with clinical and morphologic findings.
- Explain breast cancer treatment options and their associated toxicities, cost implications, and efficacy as indicated by test results.
- Explain the goals of breast surgery and describe the different types of surgery.

The workshop includes opportunities to learn about strategies needed by breast pathologists for handling difficult cases and to receive feedback from expert faculty. Topics include the following:

Multidisciplinary Breast Pathology: The Oncologist’s Viewpoint
You hear directly from an oncologist about how breast predictive factors are used to guide treatment decisions and why pathologists are important to the process.

ER PgR and HER2 Overview and Molecular Analysis
Breast cancer is a morphologically and clinically diverse disease. ER/PgR and HER2 are known breast cancer markers that are used to identify subsets of patients for targeted therapy. This approach to clinical management requires an accurate assessment of these markers to help ensure that the most appropriate patients are treated. In this session, faculty explore the therapeutic implications of accurate testing on breast cancer care. Molecular analysis, including genomic testing for recurrence risk and the Magee Equation, are also discussed.

A Discussion of Challenging Cases
In this presentation, pathology and oncology faculty review a variety of real patient cases, covering a variety of breast cancer clinical scenarios, and discuss next steps for each case.

Breast Radiology-Pathology Correlation: The Radiologist’s Perspective
In this presentation, you will hear directly from a radiologist about different breast imaging modalities and options for biopsy and localization, as well as recommendations for management of lesions diagnosed on core needle biopsy. Additionally, factors of imaging and pathology reports which are important for surgical planning will be reviewed. This presentation will also give you some ideas for enhancing communication between your lab and radiologist as well as other members of the multidisciplinary patient care team moving forward.
Multidisciplinary Breast Pathology: The Surgeon’s Perspective
In this presentation, you’ll gain a better understanding of breast conserving surgery (BCS) and breast conserving therapy (BCT) and learn how to apply the rationale and clinical goals of BCS and BCT to your pathologic evaluation of breast specimens. You will also learn how to identify eligible patients, the best approach for specimen handling, and effective methods of margin evaluation. Our faculty expert, a seasoned breast surgeon, will also review realistic breast cancer scenarios and share the surgeon’s perspective of breast cancer diagnosis and treatment. You’ll also hear common issues or questions that arise for the surgeon when receiving and interpreting pathology reports, and how to enhance communication with the surgeon when interpreting and evaluating core needle breast biopsies, incisional and excisional biopsies, lumpectomy, mastectomy, lymph nodes, or other breast specimens. The importance of communication between pathologist and surgeon in evaluating adequacy of lumpectomy for breast cancer will also be discussed.

Live Virtual Workshop Agenda
Prior to attending the workshop, participants should complete all six online courses. Participants should also attend every workshop presentation. Completion of all CME program elements is a requirement to obtain the certificate of completion.

The workshop is delivered across three consecutive workdays. The agenda is provided below.

**Important Note:** All times listed are US central time zone.
## 2024 MBP Virtual Workshop – Program Schedule

<table>
<thead>
<tr>
<th>Day 1 Mon, October 7</th>
<th>Day 2 Tues, October 8</th>
<th>Day 3 Wed, October 9</th>
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<td>12:00-12:30 PM</td>
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<td>Program Welcome</td>
<td>Notes to start the day</td>
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<td>Dr. Turner</td>
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<td>12:30-2:00 PM</td>
<td>12:00-1:00 PM</td>
<td>12:00-1:00 PM</td>
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<tr>
<td>Oncologist's Perspective</td>
<td>Molecular</td>
<td>Surgeon’s Perspective</td>
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<tr>
<td>Dr. Bloom</td>
<td>Dr. Turner</td>
<td>Dr. Kansal</td>
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<td>2:00-2:15 PM</td>
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<td>2:15-3:45 PM</td>
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<tr>
<td>ER PgR HER2 Interpretation</td>
<td>Molecular (cont'd)</td>
<td>Challenging Cases/Tumor Board</td>
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<td>Dr. Zhang</td>
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<td>3:45-4:00 PM</td>
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<td>4:00-5:00 PM</td>
<td>2:30-4:00 PM</td>
<td>3:00-4:00 PM</td>
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<tr>
<td>ER PgR HER2 Interpretation (cont'd)</td>
<td>Radiologist’s Perspective</td>
<td>Q&amp;A and All-Panel Discussion</td>
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<td>Dr. Zhang</td>
<td>Dr. Brennan</td>
<td>Dr. Turner</td>
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<td>Dr. Kansal</td>
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<td>5:00 PM</td>
<td>4:00 PM</td>
<td>4:00-4:15 PM</td>
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<tr>
<td>Review Day 2 schedule</td>
<td>Review Day 3 schedule</td>
<td>Closing remarks</td>
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<td>CAP staff</td>
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<td>4 hours, 15 mins (including breaks)</td>
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### Program Registration

**How to Register**
To start the MBP Program registration process, click on the link provided on the previous page where you accessed this manual, to submit your credit card payment.

To pay with a check, print a copy of the activity description page and send it with your check to the address below. You will be notified when your payment has been processed and you have been registered into the activity.

College of American Pathologists  
CAP Learning, MBP Program  
325 Waukegan Road  
Northfield, IL 60093-2750

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**Registration Fee**
Fee includes all online activities and the virtual workshop. The current fee for the program is located on the registration page. CAP members receive a discounted price to attend.

**Cancellation/Refund Policy**
If you need to cancel your registration, please notify the Learning Division as soon as possible. Cancellation and refund requests must be submitted via email to: education@cap.org. The CAP will refund the registration fee less a $100.00 processing fee and the cost of any online activity that is in progress. The CAP reserves the right to cancel any program without prior notice for insufficient preregistration or for any other reason. The CAP is not responsible for any other losses incurred as a result of cancellation.

**Additional Participation Information**

**Program Completion**
Participants need to successfully complete the virtual workshop and submit an online evaluation in order to claim credit. CME credit for the online courses is claimed upon completion of each individual course.

**Notification of Requirements Completion**
If you wish to receive a certificate of completion for this program, then you must claim credit for both the virtual workshop and the six online courses by December 8, 2024. Once notified of completion, your certificate is sent within four to six weeks.

**Questions**
Please contact:
- College of American Pathologists
- CAP Learning, MBP Program
- 325 Waukegan Road
- Northfield, IL 60093
- Tel: 800 323-4040 option 1
- Fax: 847 832-8006
- Email: education@cap.org

Find additional information on this and other Immersive Learning Programs at [https://education.cap.org/offerings](https://education.cap.org/offerings)