Team Teaching: A Multidisciplinary Approach To Breast Imaging Education For Medical Students
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Disclosures

None of the authors of this presentation, nor any of their immediate family members, have a financial relationship with a commercial organization that may have a direct or indirect interest in the content.
OBJECTIVE

To integrate principles of interdisciplinary care into radiology education in order to:

• Optimize clinical management.
• Produce new generations of imagers who perform well within multispecialty care teams.
Traditional Model for Student Radiology Electives

- Exposure to didactic radiological lectures at their institution and/or specific radiology electives in their clinical years, usually not until their final year.

- Spend 1-4 weeks in an imaging subspecialty assigned to an attending or resident.

- Participate in daily attending- or resident-led didactic lectures on radiology-specific topics.
A New Model

- Interdisciplinary elective is based on a 360° approach that affords the student a view from the perspective of every specialty involved in the patient care team.

- Students follow patients through oncology (surgical, medical, and radiation), reconstructive surgery, pathology, as well as radiology.
Multidisciplinary Approach to Breast Cancer

Breast imaging

Medical oncology

Breast cancer screening protocols

Reconstructive surgery

Pathology

Radiation oncology

Interdepartmental tumor board conference

Breast surgery
# SAMPLE CURRICULUM (4-weeks)

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<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
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An Opportunity to Follow a Patient

- Breast lump
- Mammogram
- Ultrasound

- MRI
- Pathology report
- Image-guided Biopsy

- Surgery
- Chemotherapy regimen
- Radiation therapy
RESULTS

- Only seven programs nationwide offer an elective integrating radiological education within a multidisciplinary mode
  - Six are centered on breast cancer
  - Three, including this program, are hosted by the Radiology Department
4th year Multidisciplinary Student Electives*

- Multidisciplinary Approach to Breast Cancer: Imaging, Surgery, Oncology, Radiation, and Pathology, Radiology, Jacobi Medical Center, Albert Einstein College of Medicine, Bronx NY
- Multidisciplinary Approach to Breast Cancer, Radiology, Winthrop-University Hospital, Mineola, New York
- Mammography- An Interdisciplinary Approach, Department of Radiology, University of Texas Health Long School of Medicine, San Antonio, TX
- Multidisciplinary Approach to Pulmonary Disease, Radiology Department, Oregon Health and Science SOM, Portland, Oregon
- Breast Cancer: A Multidisciplinary Perspective (Department of Surgery) University of Florida COM Gainesville, Florida
- An Integrated Multidisciplinary Approach to Breast Cancer, Department of Surgery, Georgetown University SOM, Washington DC
- Multidisciplinary Breast Oncology, Department of Surgery, University of California Los Angeles, Los Angeles, California
- Multidisciplinary Outpatient Oncology, Department of Internal Medicine, Loyola University Stritch SOM, Chicago, Illinois
- Multidisciplinary Oncology in Radiation Oncology, Department of Internal Medicine, University of Rochester

*Visiting Student Application Service of AAMC, as of 2016
CONCLUSIONS

• Medical students learn to appreciate the integral and interconnected role that each specialty plays to provide optimal patient care.

• Radiology students become more engaged in an active learning environment to not only learn radiology practice, but also the way radiology is utilized and interpreted throughout the clinical spectrum.
CONCLUSIONS (cont.)

- Medical students better understand how imaging is needed, ordered, interpreted, and utilized in diverse clinical settings.
- Students appreciate the interrelated role of each specialty in optimizing breast care.
- Students pursuing radiology careers better understand the role of the radiologist in coordinating or contributing to a multidisciplinary team.
Our breast-related elective implements an interdisciplinary educational approach to the most common cancer among women.

This approach offers a truly unique opportunity for a student or rising radiology resident to assimilate tools of multidisciplinary care.