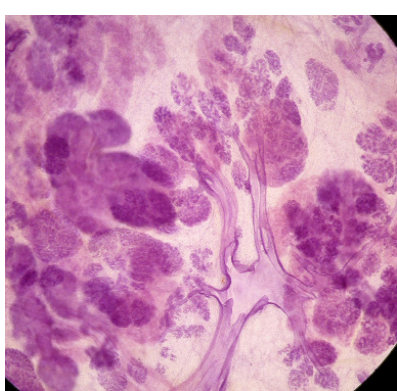
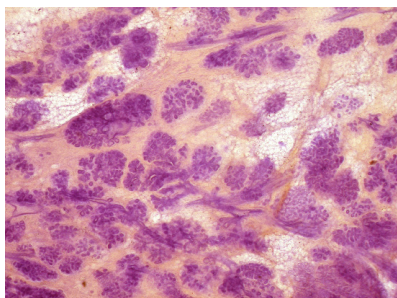
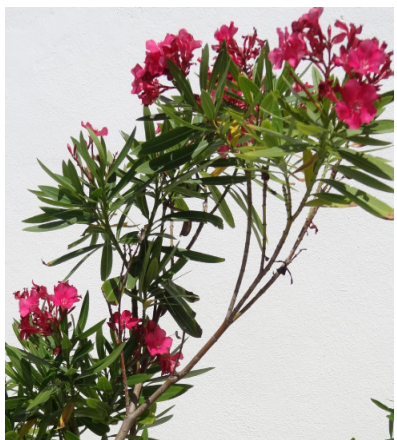




3D image of the breast tissue



The normal
TDLUs have
bud-like acini



TOMOSYNTHESIS:

**Didactic lectures and
hands-on practice with
immediate feedback**



Mammography Education, Inc.

2014

BREAST SEMINAR SERIES

LÁSZLÓ TABÁR, M.D., F.A.C.R (Hon) Course Director

Professor emeritus of Radiology

and

STAMATIA DESTOUNIS, M.D., F.A.C.R.

**Hands-on Breast Screening Course (3 days),
combined with Tomosynthesis course (1 day)**

Sept 15 - 18

Scottsdale, AZ

Plaza Hotel, 7200 N. Scottsdale Rd

Designed for:

**Radiologists • Surgeons • Pathologists
Oncologists • Radiology Technologists**

Implications of mammography, MRI, breast ultrasound and interventional
methods in radiological and surgical practice

This course provides extensive knowledge about diagnostic breast
imaging, differential diagnosis of breast diseases, surgical management
and newest diagnostic technologies.

29 HOURS OF CATEGORY I CME CREDITS



2014

MEI's BREAST SEMINAR SERIES
Hands-on tomosynthesis course

László Tabár, M.D., F.A.C.R.(Hon)
*Professor emeritus of Radiology,
Course Director*

FACULTY MEMBERS



László Tabár, M.D., F.A.C.R. (Hon). Stamatia Destounis, M.D., F.A.C.R.
Course Director

*Professor emeritus of Radiology,
Department of Mammography,
Central Hospital, Falun, Sweden*

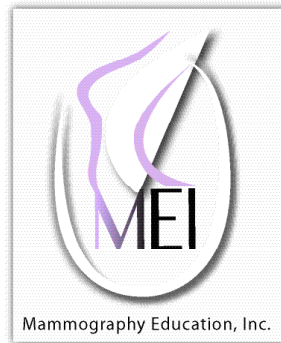
*Elizabeth Wende Breast Care, LLC
Clinical Associate Professor of Radiology
University of Rochester School of
Medicine and Dentistry*



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MEI's BREAST SEMINAR SERIES
Hands-on tomosynthesis course

László Tabár, M.D., F.A.C.R.(Hon)
*Professor emeritus of Radiology,
Course Director*



Mammography Education, Inc. is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians. Mammography Education, Inc. designed these medical education activities for a maximum of **29 credit hours in Category I** of the Physicians' Recognition Award of the American Medical Association, **8 hours Tomosynthesis CME credit** included.

Each physician should claim only those hours of credit that he / she actually spent in the educational activity.

CREDITS

We would like to thank the sponsors for their support of the teaching seminars of Mammography Education, Inc (list of vendors will be presented at the beginning of the course)



Images from the non-profit Tabar Foundation for Research and Education for Breast Cancer

www.tabarfoundation.org



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MEI's BREAST SEMINAR SERIES
Hands-on tomosynthesis course

László Tabár, M.D., F.A.C.R.(Hon)
*Professor emeritus of Radiology,
Course Director*

1st day

Morning lectures between 8:30 AM and 12:00 PM

8:30 INTRODUCTION FOLLOWED BY DIDACTIC LECTURES COVERING:

THE HISTORY OF DIGITAL BREAST TOMOSYNTHESIS - [Stamatia Destounis, M.D., F.A.C.R.](#):

- The early technology
- Physics
- Radiation dose

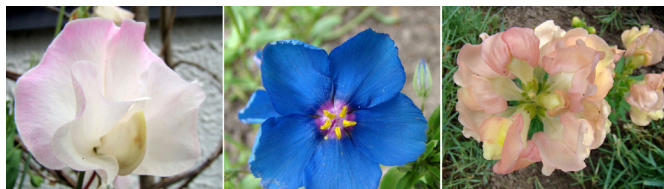


Discussion

Break at 10:00 AM

EARLY RESEARCH STUDIES:

- Two-view DBT versus one-view
- Synthesized 2D tomosynthesis
- Tomo CAD



Break at 11:00 AM

Discussion

INITIAL EXPERIENCE WITH DIGITAL BREAST TOMOSYNTHESIS AT EWBC

- Our research studies
- IT issues
- Physician and technologist training
- Initial implementation: protocols, image interpretation, room specifications
- Costs, billing considerations



Discussion

Lunch 12:00 - 1:00 PM

IV



2014

MEI's BREAST SEMINAR SERIES
Hands-on tomosynthesis course

László Tabár, M.D., F.A.C.R.(Hon)
*Professor emeritus of Radiology,
Course Director*

1st DAY Hands-on tomosynthesis cases 1:00 PM - 5:30 PM

1:15 - 2:15 **GROUP 1** HANDS ON TOMOSYNTHESIS CASES.

1:15 - 2:15 **GROUP 2:** DIGITAL BREAST TOMOSYNTHESIS: WHERE DO WE STAND NOW?
LATEST RESEARCH WITH CASE EXAMPLES. Faculty-audience interaction

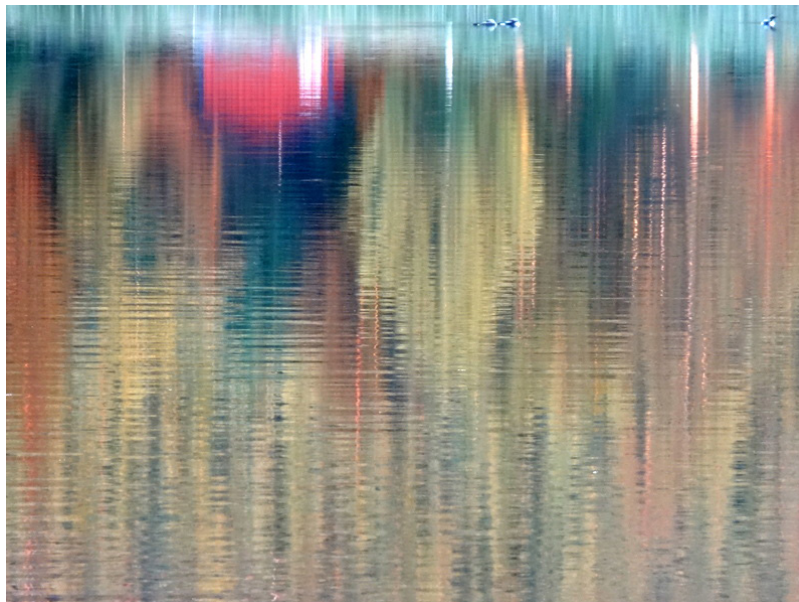
Break 2:15 - 2:30 PM

2:30 - 3:30 **GROUP 2** HANDS ON TOMOSYNTHESIS CASES.

2:30 - 3:30 **GROUP 1:** DIGITAL BREAST TOMOSYNTHESIS: WHERE DO WE STAND NOW?
LATEST RESEARCH WITH CASE EXAMPLES. Faculty-audience interaction

Break 3:30 - 3:45 PM

3:45 - 5:30 **GROUPS 1 & 2:** DISCUSSION OF THE TOMOSYNTHESIS CASES. QUESTION AND
ANSWER SESSION.



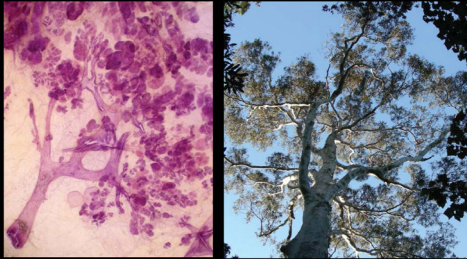


2014

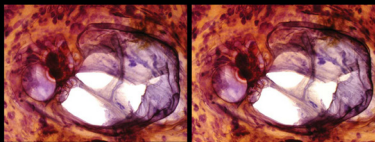
MEI's BREAST SEMINAR SERIES
Hands-on breast screening course

László Tabár, M.D., F.A.C.R.(Hon)
Professor emeritus of Radiology,
Course Director

László Tabár, MD
Tibor Tot, MD, Peter B. Dean, MD



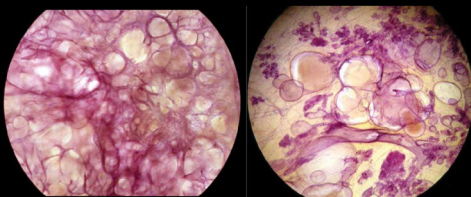
Understanding the Breast in Health and Disease



In 3D

www.amazon.com

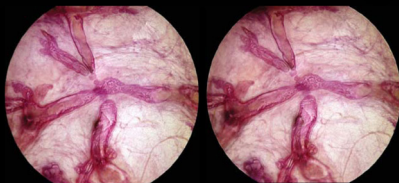
László Tabár, MD,
Tibor Tot, MD, Peter B. Dean, MD,
Miklós Tarján, MD



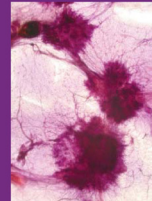
cysts in a prostate

breast cysts

Prostate and Breast: Brother and Sister Organs



In 3D

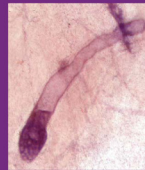


Multifocal breast cancer



Sea urchins

In 3D



In situ ductal carcinoma

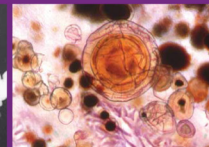


Banana flower

The basic structural elements of the female breasts are illustrated here in true 3-dimensional (3D) images and described in this Volume I by three breast cancer experts with decades of experience in the diagnosis of breast diseases. These images provide the best way to understand the great variability of the normal breast structure and the changes brought about by benign and malignant diseases.



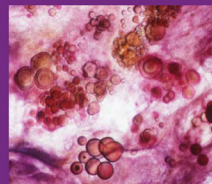
Prostate calcifications



Laminated calcifications
in the prostate



In 3D

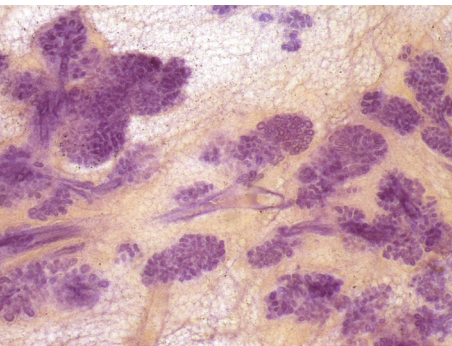


Laminated calcifications in
the breast

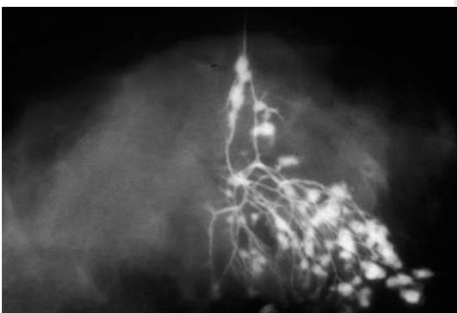


Rowan berries

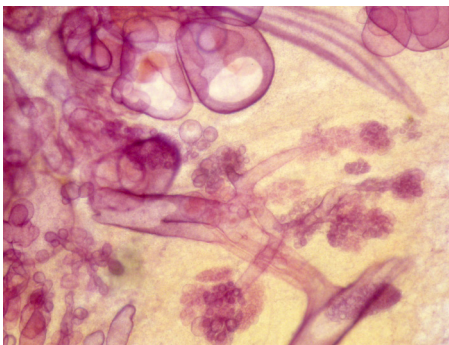
Even as the risk of getting prostate and breast cancer is rising, early detection through screening and treatment in an early stage are significantly lowering the risk of dying from these diseases. This series of 3D books aims to empower both men and women with knowledge about their health. Although all of us are at risk of developing cancer or less serious problems in one or the other of these two organs, education will help us seek the benefits provided by modern health care and expect excellence from health care providers.



3D image of the breast tissue



Galactography of a lobe



Fibrocystic change

240 screening cases

Mammography Education, Inc.

2014

Hands-on Breast Screening Course

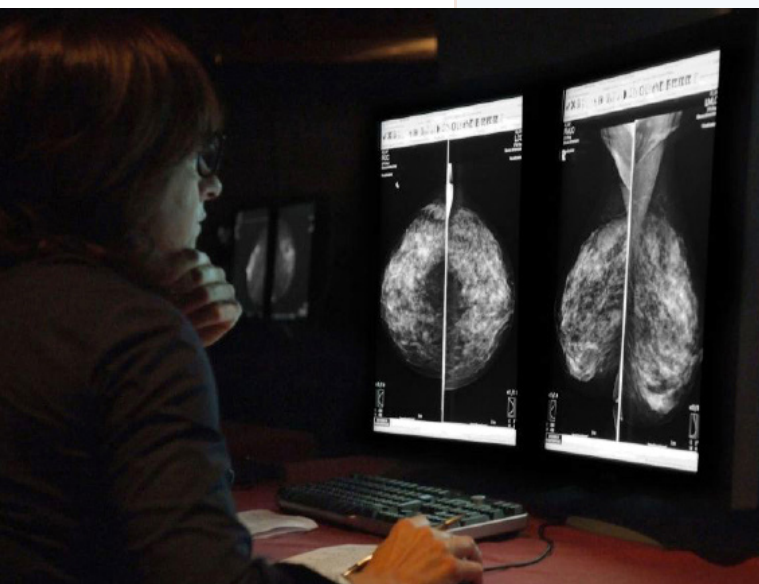
- * **Screening of 240 full field digital mammography cases.**
- * **Reading a mixture of normals and proven abnormalities at high resolution viewing stations.**
- * **Feedback and discussion of every case by the Faculty.**
- * **How to minimize call-back rates without missing cancers.**
- * **Description of further workup of all abnormalities - guidance to reach the correct diagnosis.**

September 16-18, 2014

Scottsdale, Arizona

Scottsdale Plaza Hotel

7200 N. Scottsdale Road



LÁSZLÓ TABÁR, M.D., F.A.C.R (Hon)

Course Director

Professor emeritus of Radiology

This course teaches how to find breast cancer in its early stages and differential diagnosis of breast diseases using the multimodality approach

21 Category I CME credit hours.

Fulfills MQSA interpretation requirement



2014

MEI's BREAST SEMINAR SERIES
Hands-on breast screening course

László Tabár, M.D., F.A.C.R. (Hon)
*Professor emeritus of Radiology,
Course Director*

Course Overview:

- * This Hand-on Breast Imaging course, led by László Tabár, MD, FACR, (Hon) will offer radiologists **240 full field digital mammography cases for screening.**
- * Normals will be mixed with proven abnormal cases.
- * Reading will take place at high resolution work stations.
- * During the course the attendees will progressively improve their interpretive expertise, as they learn the full spectrum of normal breast images, with all findings explained with the help of 3-dimensional histology images.
- * These skills will lead to fewer call-backs and greater confidence in reading large number of mammograms.
- * Feedback and discussion of every case by the Faculty after every reading session.
- * Special emphasis will be placed on finding early phase breast cancers.
- * All abnormal cases are fully worked up and the complete imaging workup will be presented in detail, including ultrasound, MRI and large section histopathology.
- * **Attendees will receive a unique present, a pdf copy of Dr. Tabar's PowerPoint presentation of each positive case, including full explanation, mammographic workup/hand-held US, 3D automated US images and breast MRI with large section histologic confirmation.**



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MEI's BREAST SEMINAR SERIES
Hands-on breast screening course

László Tabár, M.D., F.A.C.R. (Hon)
*Professor emeritus of Radiology,
Course Director*

This course fulfills the following MQSA and ACR accreditation requirements:

- Interpretation/multireading of at least 240 mammograms under direct supervision of a qualified interpreting physician.
- Initial qualifications for Full Field Digital mammography (FFDM) under MQSA
- Instruction in the interpretation of mammograms and education in basic breast anatomy, pathology, physiology.

Program Objectives:

1. Learn the full spectrum of normal mammograms through detailed explanation of the mammographic images.
2. Progressive improvement of the attendees' interpretive expertise.
3. Increase confidence in reading large numbers of full field digital mammograms at lower call-back rates.
4. Improve skills in detecting early phase breast cancer at digital mammography screening.
5. Greater proficiency in working up screen-detected findings.
6. Appreciate the clinical relevance of unifocal/multifocal/diffusely infiltrating breast cancers.
7. Emphasize the importance of multimodality approach to workup cases in a multidisciplinary environment.

Attendees interpreting 240 digital mammography examinations will receive a **Certificate** confirming the actual number of mammographic examinations read under the direct supervision of an interpreting physician, which will count towards meeting the physician interpretive requirements for MQSA qualification and certification maintenance.



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MEI's BREAST SEMINAR SERIES
Hands-on breast screening course

László Tabár, M.D., F.A.C.R. (Hon)
*Professor emeritus of Radiology,
Course Director*

FACULTY



László Tabár, M.D., F.A.C.R. (Hon).

Course Director

*Professor emeritus of Radiology,
University of Uppsala School of Medicine,
Sweden*

*Department of Mammography,
Falun Central Hospital, Falun, Sweden*



Images from the non-profit Tabar Foundation for Research and Education for Breast Cancer

www.tabarfoundation.org



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CREDITS

We would like to thank CareStream Health for providing the viewing stations and the engineering expertise at this teaching seminar. and BARCO for providing the monitors to the viewing stations.





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MEI's BREAST SEMINAR SERIES
Hands-on breast screening course

László Tabár, M.D., F.A.C.R. (Hon)
*Professor emeritus of Radiology,
Course Director*

1st DAY

Lectures between 8:40 AM and 12:00 PM for all attendees

8:30 INTRODUCTION

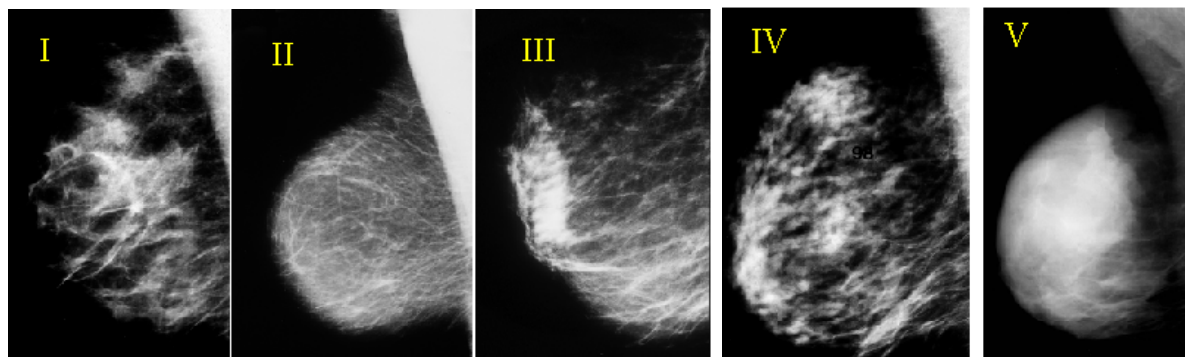
8:40 DIDACTIC LECTURES COVERING: HOW TO READ A MAMMOGRAM? THE BASIS FOR EFFICIENT INTERPRETATION OF THE MAMMOGRAPHIC IMAGE

- Correlative 3-dimensional, subgross anatomy and mammography of the normal breast
- How to read a mammogram, how to interpret every nodular and linear density we see on the image.

Breaks at 10:00 AM and at 11:15 AM

MAMMOGRAPHIC PARENCHYMAL PATTERNS

- Practical implication, problems and solutions. Mammographic patterns and the risk of developing breast cancer. Understanding the mammograms of dense breasts.



HOW TO FIND THE INVASIVE BREAST CANCER WHEN IT IS STILL SMALL. SCREENING COMBINED WITH AN ANALYTICAL APPROACH FOR THE DIFFERENTIAL DIAGNOSIS OF STELLATE/SPICULATED AND CIRCULAR/OVAL-SHAPED LESIONS

- A systematic method for viewing mammograms.
- Areas on the mammogram where most breast cancers will be found
- Viewing "difficult to read" mammograms and viewing relatively easy-to-read cases

THE PROBLEM OF VIEWING THE MAMMOGRAMS OF WOMEN WITH DENSE BREASTS. DEMONSTRATION OF A POTENTIAL SOLUTION

Lunch 12:00 PM - 1:00 PM



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MEI's BREAST SEMINAR SERIES
Hands-on breast screening course

László Tabár, M.D., F.A.C.R. (Hon)
*Professor emeritus of Radiology,
Course Director*

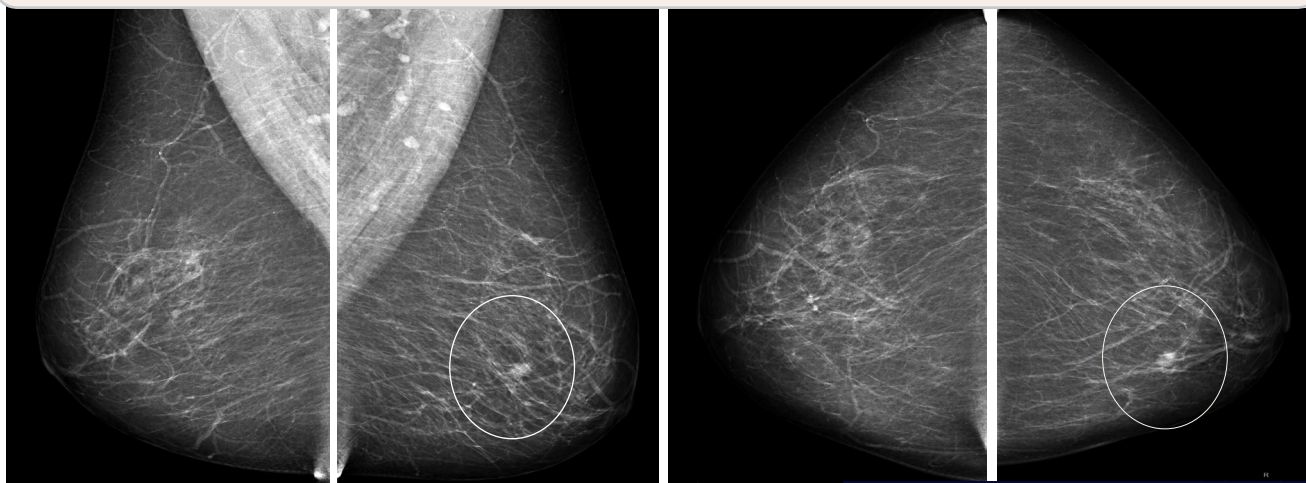
1st DAY

Hands-on screening *and* didactic lecture series 1:00 PM - 5:30 PM

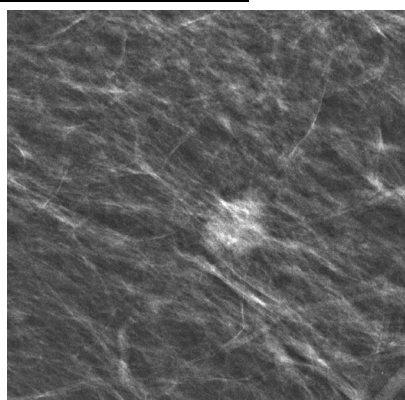
1:00 - 2:15 **GROUP 1** HANDS ON SCREENING. *SESSION 1.*

1:00 - 2:15 **GROUP 2:** DEMONSTRATION AND DISCUSSION OF "COMPLEX CASES".

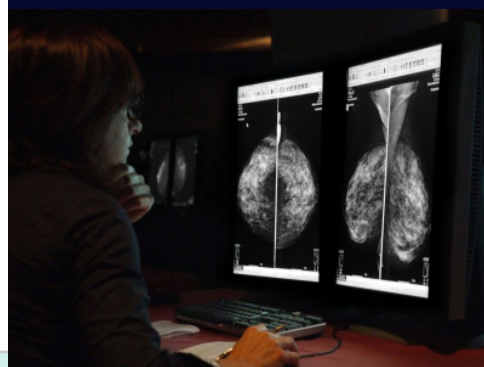
Faculty-audience interaction



Breaks: 2:15 - 2:30 PM
and 3:45 - 4:00 PM



Hands-on training in screening



2:30 - 3:45 **GROUP 2** HANDS ON SCREENING. *SESSION 1*

2:30 - 3:45 **GROUP 1:** DEMONSTRATION AND DISCUSSION OF "COMPLEX CASES". Faculty-audience interaction

4:00 - 5:30 **GROUPS 1 & 2:** DISCUSSION OF THE SCREENING CASES FROM *SESSION 1* AND THE LECTURES OF THE AFTERNOON SESSION.

5:30 PM End of Day



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MEI's BREAST SEMINAR SERIES
Hands-on breast screening course

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*Professor emeritus of Radiology,
Course Director*

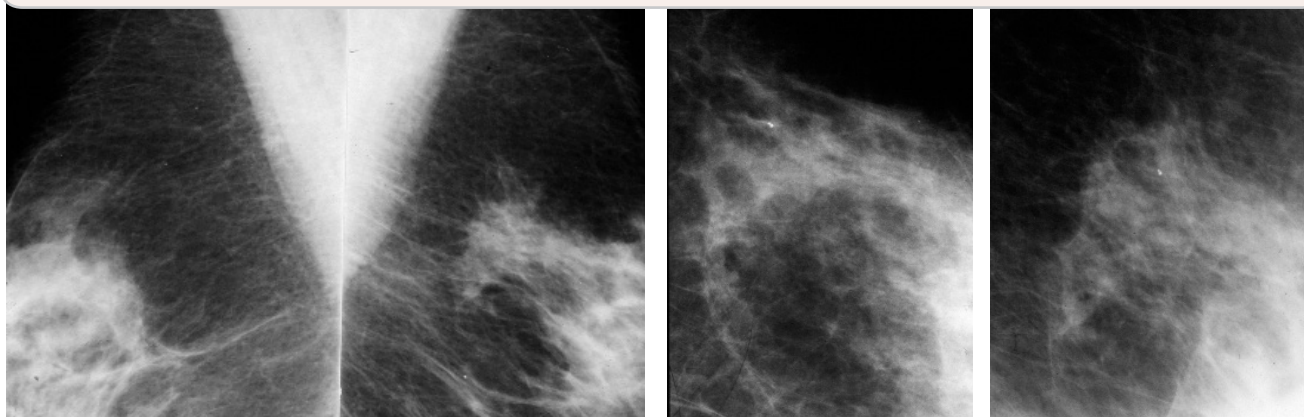
2nd DAY

Hands-on screening and didactic lecture series 8:00 AM - 12:00 PM

8:00 - 9:15 GROUP 1 HANDS ON SCREENING WITH MAMMOGRAPHY. SESSION 2.

8:00 - 9:15 GROUP 2: DIDACTIC LECTURE SERIES COVERING THE FOLLOWING TOPICS:

THE NEW ERA IN THE DIAGNOSIS AND TREATMENT OF BREAST CANCER. [The issue of uni-multifocality.](#) [Clinical implications.](#)



Break

9:15 - 9:30 AM

9:30 - 10:45 GROUP 2 HANDS ON SCREENING WITH MAMMOGRAPHY. SESSION 2.

9:30 - 10:45 GROUP 1: DIDACTIC LECTURE SERIES COVERING THE FOLLOWING TOPICS:

THE NEW ERA IN THE DIAGNOSIS AND TREATMENT OF BREAST CANCER. [The issue of uni-multifocality.](#) [Clinical implications.](#)

11:00 - 12:00 GROUPS 1& 2: DISCUSSION OF THE SCREENING CASES OF SESSION 2 AND LECTURES OF THE MORNING SESSION.

Lunch 12:00 PM - 1:00 PM



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MEI's BREAST SEMINAR SERIES
Hands-on breast screening course

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*Professor emeritus of Radiology,
Course Director*

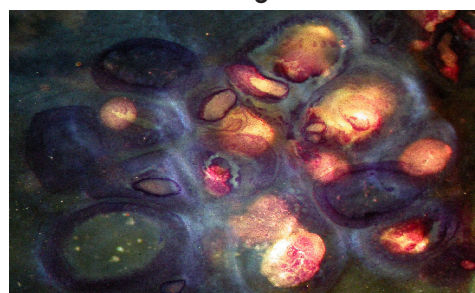
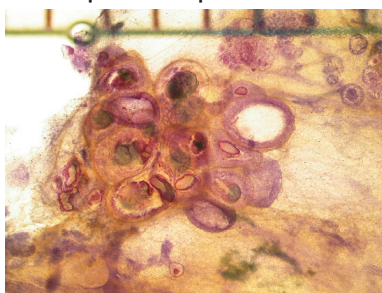
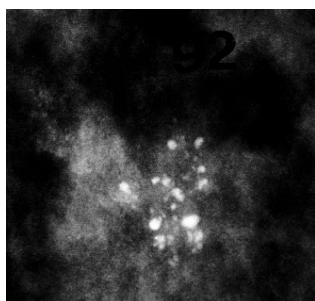
2nd DAY

Hands-on screening and didactic lecture series 1:00 PM - 5:00 PM

1:00 - 2:15 GROUP 1 HANDS ON SCREENING WITH MAMMOGRAPHY. SESSION 3.

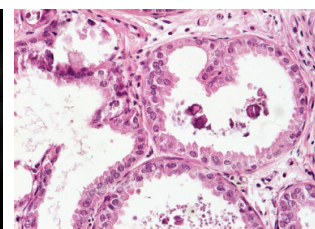
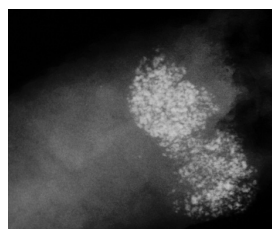
1:00 - 2:15 GROUP 2: DIDACTIC LECTURE SERIES COVERING THE FOLLOWING TOPICS:
SCHEME FOR THE ANALYSIS OF MAMMOGRAPHIC CALCIFICATIONS PART I.

Grade 2 cancer *in situ*: Mammographic / 3-D histologic / MRI correlation of cases with crushed stone-like/pleomorphic calcifications on the mammogram.



**Breaks: 2:15 - 2:30 PM
and 3:45 - 4:00 PM**

Mammographic-histologic correlation of powdery/cotton ball-like calcifications



2:30 - 3:45 GROUP 2 HANDS ON SCREENING WITH MAMMOGRAPHY. SESSION 3.

2:30 - 3:45 GROUP 1: DIDACTIC LECTURE SERIES COVERING THE FOLLOWING TOPICS:
SCHEME FOR THE ANALYSIS OF MAMMOGRAPHIC CALCIFICATIONS PART I.

**4:00 - 5:00 GROUPS 1& 2: DISCUSSION OF THE SCREENING CASES OF SESSION 3 AND
LECTURES OF THE MORNING SESSION**

End of Day 2



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MEI's BREAST SEMINAR SERIES
Hands-on breast screening course

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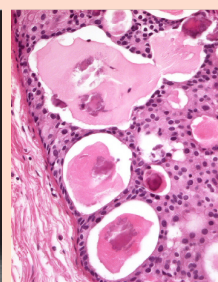
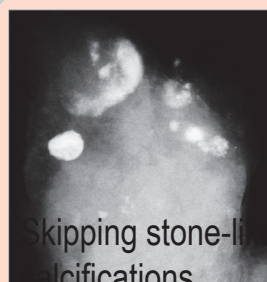
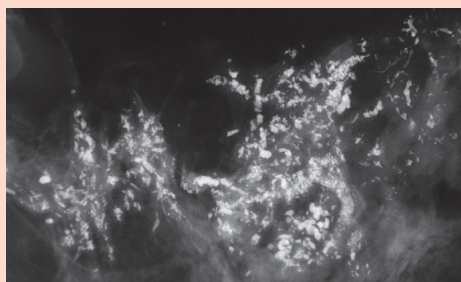
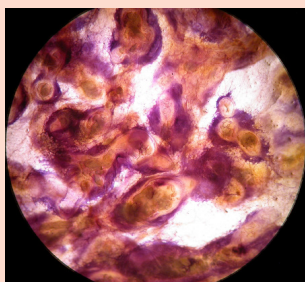
3rd DAY

Hands-on screening and didactic lecture series 8:00 AM- 12:00 PM

8:00 - 9:15 GROUP 1 HANDS ON SCREENING WITH MAMMOGRAPHY. SESSION 4.

8:00 - 9:15 GROUP 2: DIDACTIC LECTURE SERIES COVERING THE FOLLOWING TOPICS:

SCHEME FOR THE ANALYSIS OF MAMMOGRAPHIC CALCIFICATIONS
PART II



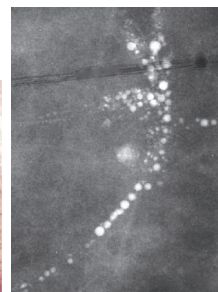
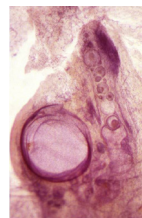
Fragmented and dotted casting type calcifications

• **Malignant type calcifications originating in the major ducts**

- a) Fragmented casting type calcifications
- b) Dotted casting type calcifications
- c) Skipping stone-like calcifications
- d) Pearl necklace-like calcifications

Break

9:15 - 9:30 AM



Pearl necklace-like
calcifications

9:30 - 10:45 GROUP 2 HANDS ON SCREENING WITH MAMMOGRAPHY. SESSION 4

9:30 - 10:45 GROUP 1: DIDACTIC LECTURE SERIES COVERING THE FOLLOWING TOPICS:

SCHEME FOR THE ANALYSIS OF MAMMOGRAPHIC CALCIFICATIONS PART II

**11:00 - 12:00 GROUPS 1& 2: EVALUATION AND DISCUSSION OF THE SCREENING CASES
OF SESSION 4 AND LECTURES OF THE MORNING SESSION.**

Lunch 12:00 PM - 1:00 PM



2014

MEI's BREAST SEMINAR SERIES
Hands-on breast screening course

László Tabár, M.D., F.A.C.R. (Hon)
*Professor emeritus of Radiology,
Course Director*

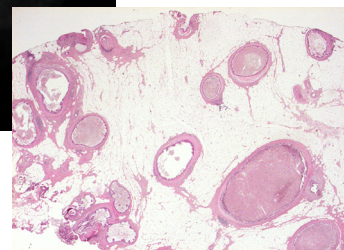
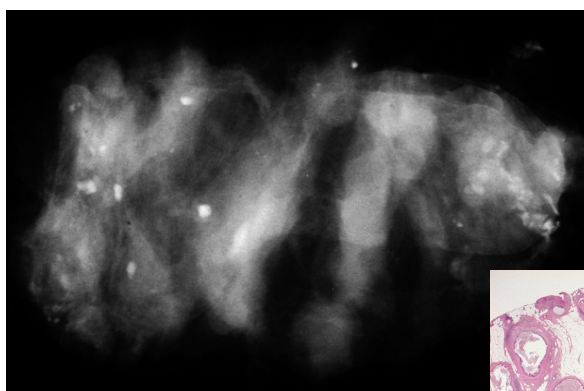
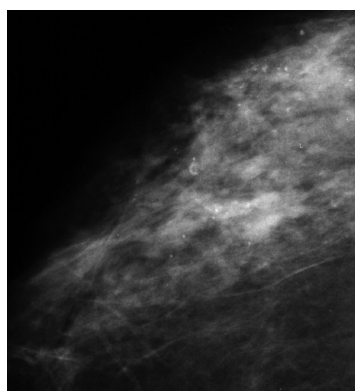
3rd DAY

Hands-on screening and didactic lecture series 1:00 PM - 4:00 PM

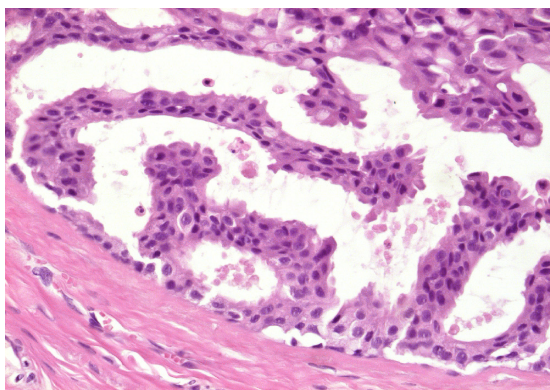
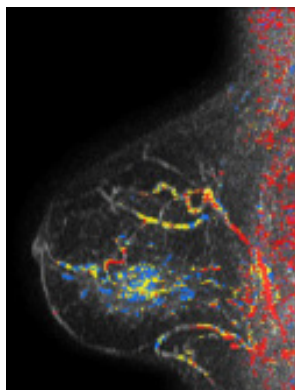
1:00 - 2:15 GROUP 1. HANDS ON SCREENING WITH MAMMOGRAPHY. *SESSION 5.*

1:00 - 2:15 GROUP 2. DIDACTIC LECTURE SERIES COVERING THE FOLLOWING TOPICS:

SCHEME FOR THE ANALYSIS OF MAMMOGRAPHIC CALCIFICATIONS **PART III:** Practice of calcification analysis



Imaging-histologic correlation of skipping stone-like calcifications



Break 2:15 - 2:30 PM

2:30 - 3:45 GROUP 2 HANDS ON SCREENING WITH MAMMOGRAPHY. *SESSION 5.*

2:45 - 3:45 GROUP 1. DIDACTIC LECTURE SERIES COVERING THE FOLLOWING TOPICS:

SCHEME FOR THE ANALYSIS OF MAMMOGRAPHIC CALCIFICATIONS **PART III:**
Practice of calcification analysis

4:00 - 5:00 GROUPS 1& 2: DISCUSSION OF THE SCREENING CASES OF *SESSION 5* AND
LECTURES OF THE MORNING SESSION

DISCUSSION. 5:00 PM End of Course



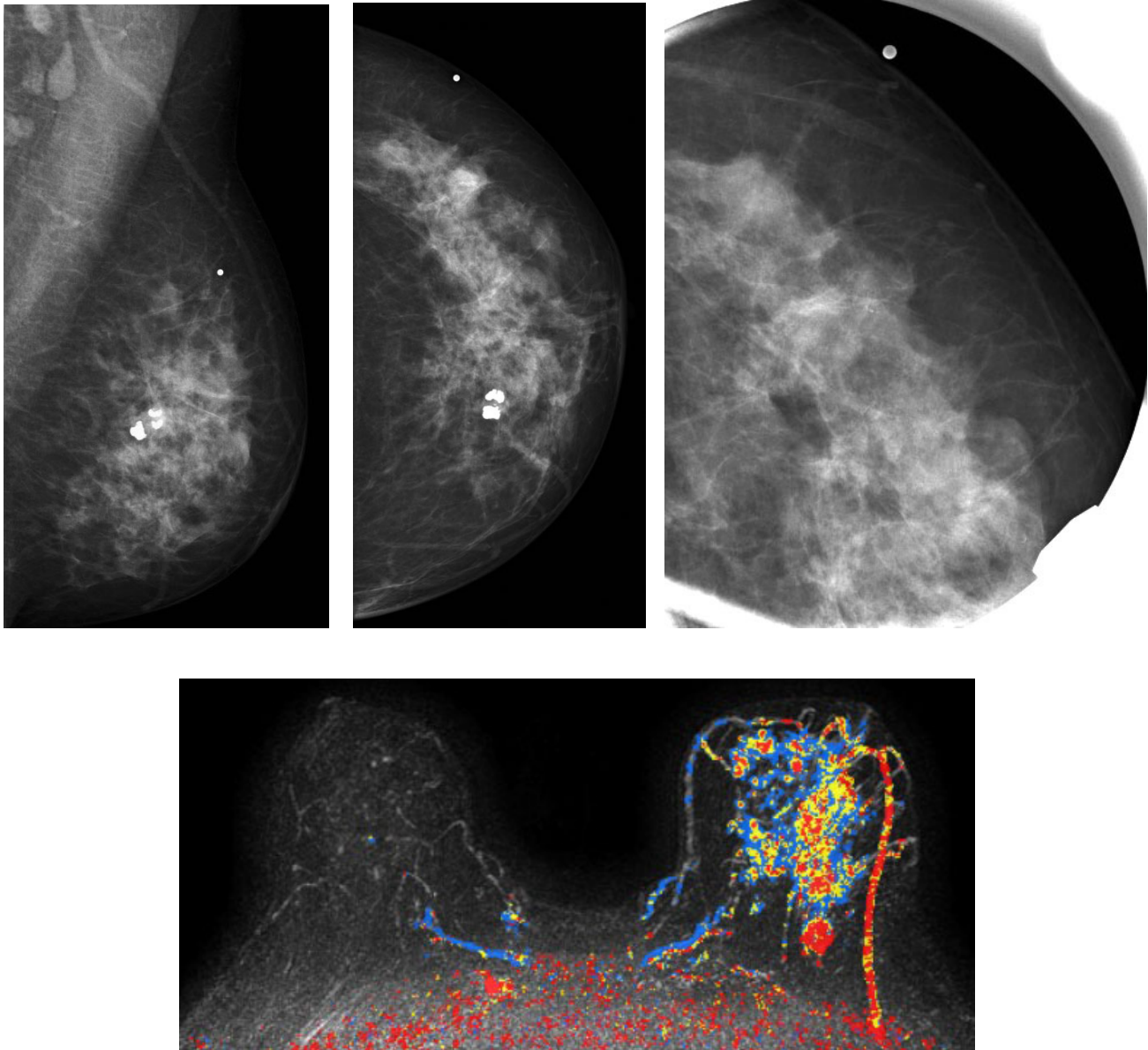
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MEI's BREAST SEMINAR SERIES
Hands-on breast screening course

László Tabár, M.D., F.A.C.R. (Hon)
*Professor emeritus of Radiology,
Course Director*

DISCUSSION OF COMPLEX CASES. THE VALUE OF USING THE MULTIMODALITY
APPROACH IN THE WORKUP OF COMPLEX CASES

Example:



Example: Multifocal invasive and *in situ* carcinoma.



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For more information and
registration please contact:

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CAVE CREEK, AZ 85331, USA

Phone: (480) 419 0227

Fax: (480) 419 0219

e-mail: info@mammographyed.com

Internet: www.mammographyed.com

Hotel room booking directly with the hotel



Hands-on training in screening

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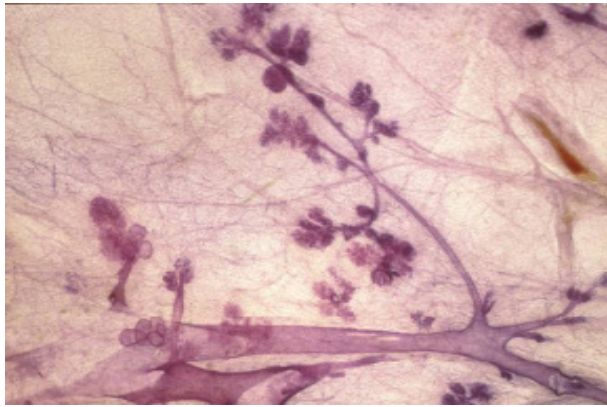
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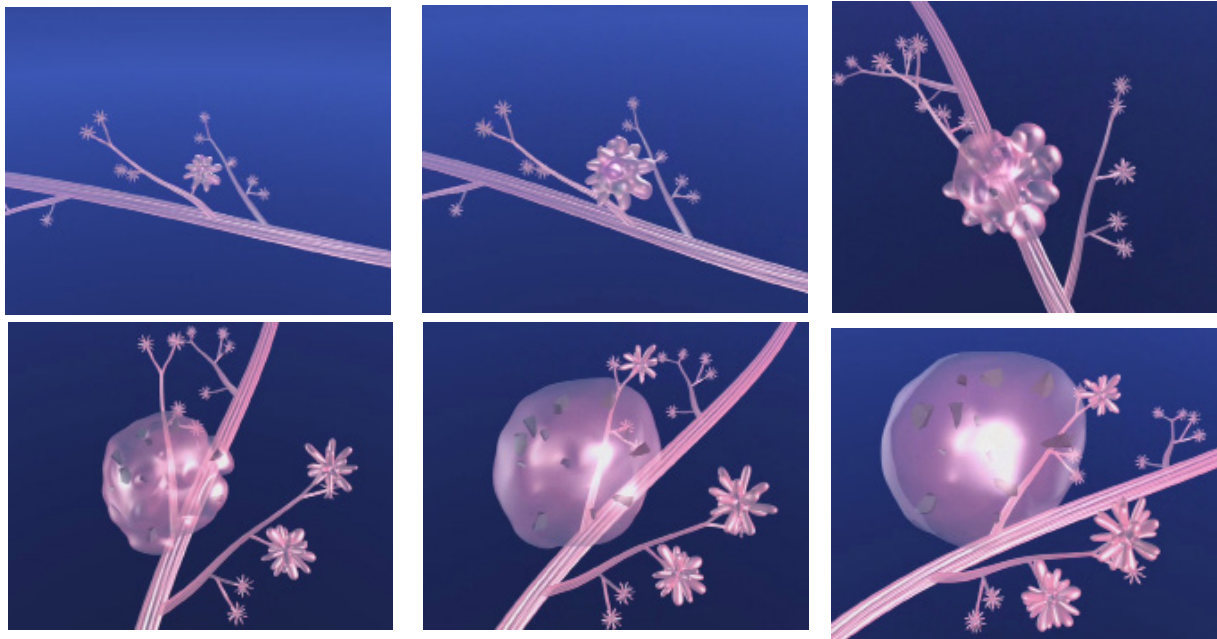
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3-D histologic image of TDLUs



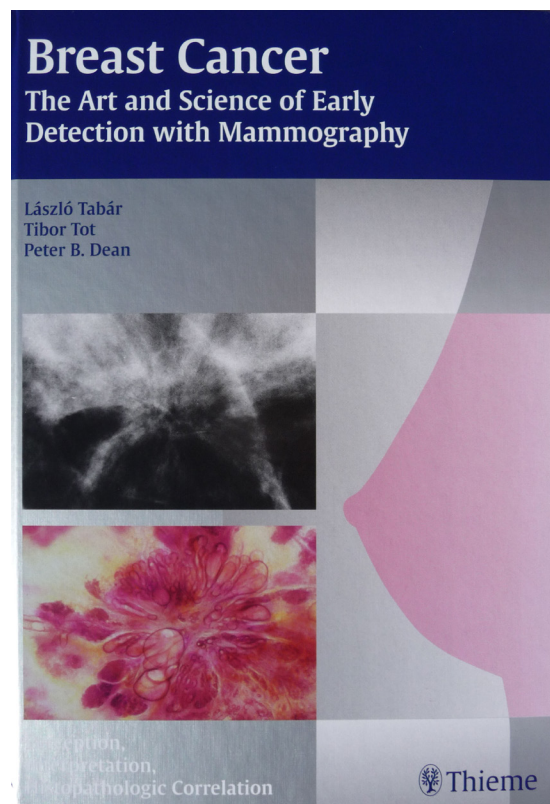
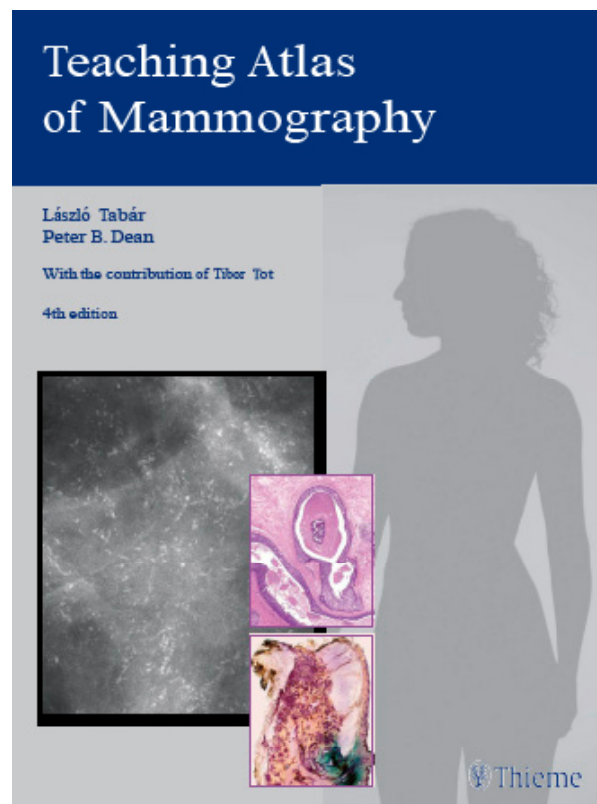
Computer simulation images of the development of Grade 2 *in situ* carcinoma within the TDLU. The lobule becomes gradually distended and deformed. Calcifications are formed within the necrotic debris and are seen on the mammogram as **crushed stone-like calcifications**.



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