

2014

BREAST SEMINAR SERIES

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

*Professor emeritus of Radiology
and*

BRUCE PORTER, M.D., F.A.C.R.,

First Hill Diagnostic Imaging, Seattle, WA, USA

**Advanced Course on Multimodality Detection
and Diagnosis of Breast Diseases
with Emphasis on Breast MRI**

GOLD COAST, Australia, Nov 5 - 8, 2014

*Mercure Gold Coast Resort
64 Palm Meadows Drive
Carrara, Queensland 4211*

Designed for:

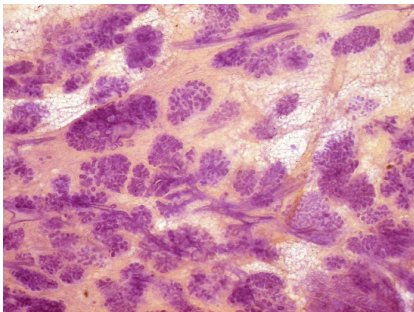
Radiologists

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

*This course provides extensive knowledge about diagnostic
breast imaging, differential diagnosis of breast diseases, impli-
cations for management and newest diagnostic technologies*

Four day course: **28** hours of Category I CME credits

3D image of the breast tissue



The normal TDLUs have
bud-like acini



NEW!

**10 credit hours of
breast MRI**



2014

BREAST SEMINAR SERIES of MEI
Multimodality Approach to Detection and Diagnosis
of Early Breast Cancer with Emphasis on breast MRI

László Tabár, MD., FACR.(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,
Department of Mammography, Sweden*



Bruce Porter, M.D., F.A.C.R.

Medical Director

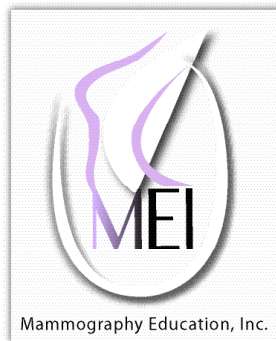
*First Hill Diagnostic Imaging
Swedish Medical Center
Seattle, Washington, USA*



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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 **28 credit hours in Category I** of the Physicians' Recognition Award of the American Medical Association. Each physician should claim only those hours of credit that he / she actually spent in the educational activity.

CREDITS

We would like to thank BARCO and SIEMENS 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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1st day Morning lectures between 8:30 AM and 12:00

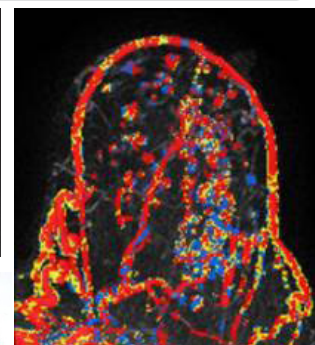
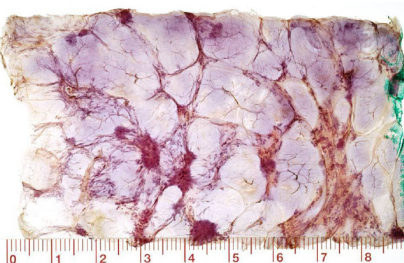
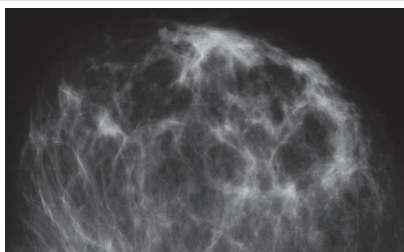
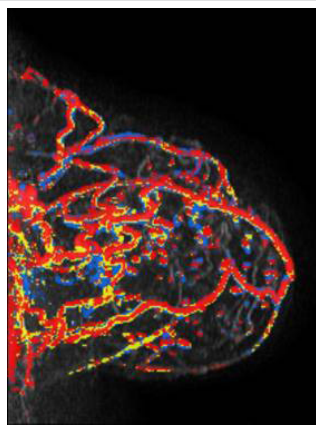
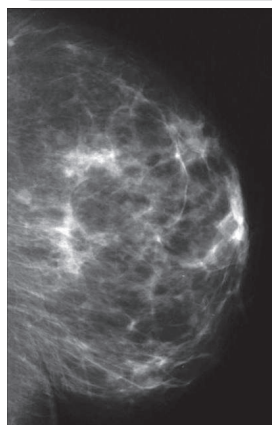
8:30 INTRODUCTION

8:45 CONTRAST-ENHANCED BREAST MRI: TECHNIQUE and FUNDAMENTAL PRINCIPLES- [Porter, B.](#)

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



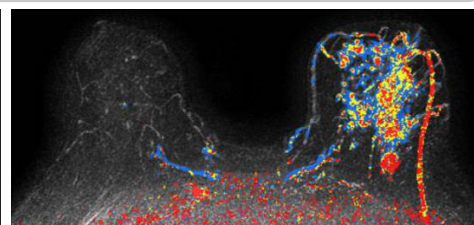
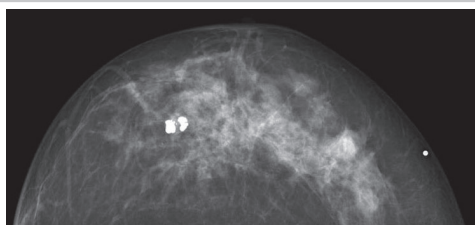
10:15 BREAST MR INTERPRETATION: DIFFERENTIATING BENIGN FROM MALIGNANT DISEASE
- [Porter, B.](#)



11:15 BREAST MRI READING TECHNIQUE with CASE REVIEW - [Porter, B.](#)

12:00 PM - 1:00 PM

Lunch





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1st day

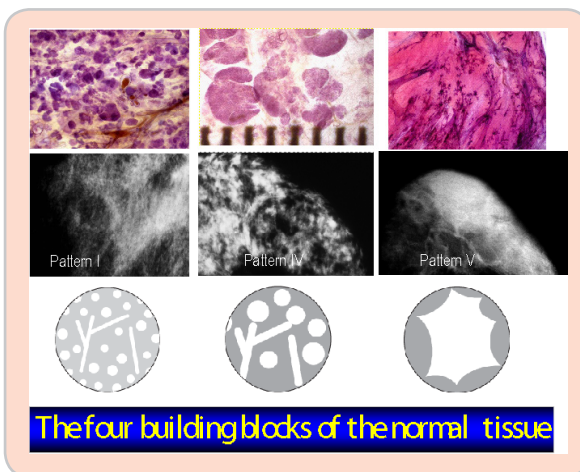
Afternoon lectures between 1:00 PM and 5:30 PM

1:00 A NEW ERA in the DIAGNOSIS and TREATMENT of BREAST CANCER.
THE ISSUE of UNI- and MULTIFOCALITY - CLINICAL IMPLICATIONS - [Tabar L](#)

THE BASIS FOR EFFICIENT INTERPRETATION OF THE MAMMOGRAPHIC IMAGE - [Tabar L](#)

- Correlative 3-dimensional, subgross anatomy and mammography of the normal breast
- **The problem:** The variable appearance of the normal mammogram.
- **The solution:** classification into structural subtypes, mammographic parenchymal patterns, based on 3D/subgross histologic-mammographic correlation.
- **Result:** Increased confidence in reading a mammogram and finding subtle perceptual abnormalities
- The dynamic change of mammographic patterns and its application in clinical practice

Breaks at 2:30
and
at 3:45 PM



MAMMOGRAPHIC PARENCHYMAL PATTERNS - [Tabar L](#),

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

4:00 BREAST MRI in WOMEN at HIGH RISK FOR BREAST CANCER: ROLE of MRI and
JUSTIFICATION FOR ANNUAL SURVEILLANCE - [Porter, B.](#)

5:30 End of Day 1



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2nd day

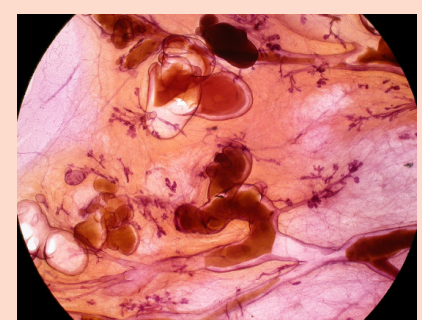
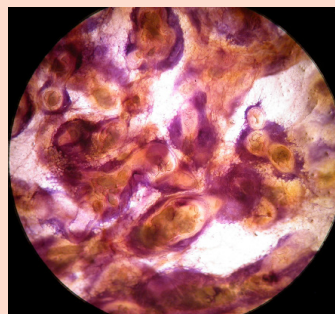
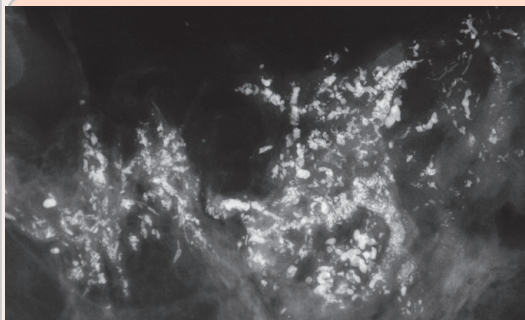
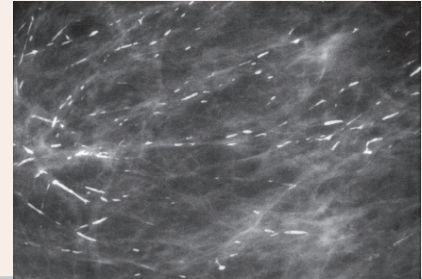
Morning lectures between 8:30 PM and 12:00 PM

8:30 INTERACTIVE LECTURE SERIES WILL COVER THE FOLLOWING TOPICS: - Tabar, L, Porter, B.

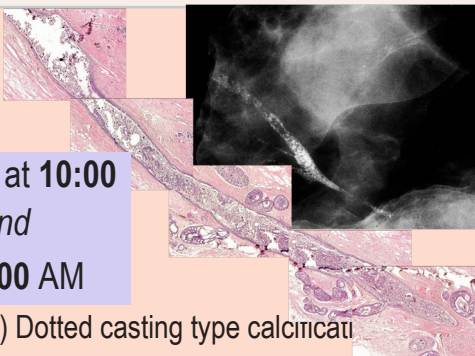
ALGORITHM FOR CLASSIFYING BREAST DISEASES ACCORDING TO THEIR SITE OF ORIGIN

Breast diseases originating in the major ducts

- **Benign type calcifications** originating in the major ducts
 - a) Secretory disease type calcifications
- **Malignant type calcifications** originating in the major ducts



a) Fragmented casting type calcifications



b) Dotted casting type calcifications

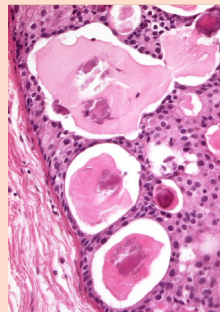
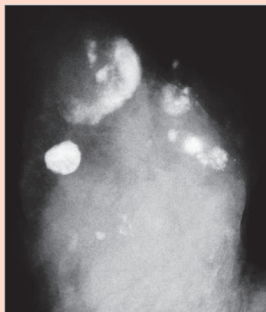
* **Four different malignant type calcifications** developing in the major ducts: a) fragmented casting type b) dotted casting type c) skipping stone-like d) pearl necklace-like.

* The concept of **neoductogenesis**. Long-term follow-up results. New aspects, correct terminology.

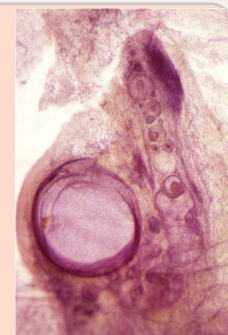
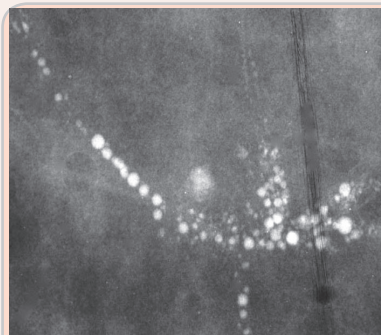
* The role of breast MRI examination in demonstrating the extent of Gr 3 in situ carcinoma.

* Mammographic/3D histologic correlation helping to explain the underlying pathophysiology and outcome.

Breaks at 10:00
and
at 11:00 AM



c) Skipping stone-like calcifications



d) Pearl necklace-like calcifications

4:30 End of Day 1



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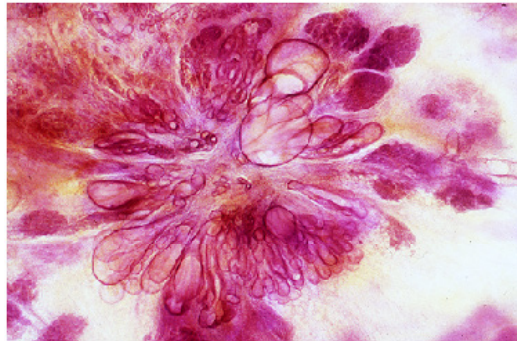
2nd DAY Afternoon lectures between 1:00 AM - 5:00 PM

1:00 ASYMMETRIC DENSITIES ON THE MAMMOGRAM - Tabar, L, Porter, B.

- Didactic workup of *non-specific asymmetric densities without architectural distortion*
- Didactic workup of *non-specific asymmetric densities with architectural distortion*

ANALYSIS of BENIGN RADIATING STRUCTURES on the mammogram, originating in the ducts

- **Radial scar.** A suggested algorithm for the workup of stellate lesions
- Indications and contraindications of using minimally invasive preoperative diagnostic techniques.

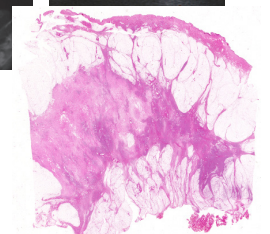
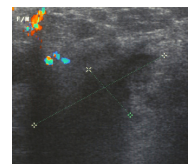
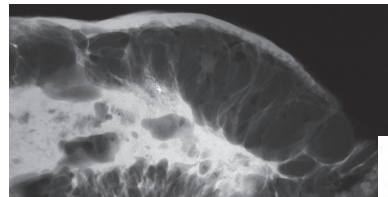
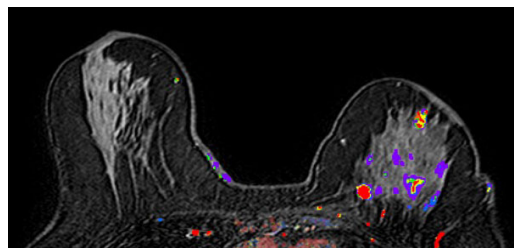
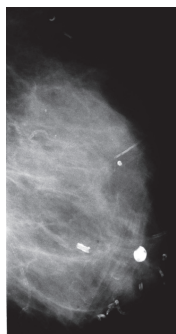


Radial scar

Breaks at 2:30
and
at 3:45 PM

ANALYSIS of MALIGNANT LESIONS PRESENTED as RADIATING STRUCTURES on the mammogram. Clinical presentation, mammographic appearance and outcome: Tabar, L, Porter, B.

- **Invasive lobular carcinoma:** the most deceptive and frequently missed cancer of the breast. The value of ultrasound and MRI in finding and diagnosis invasive lobular cancer subtypes and determination of disease extent. Case demonstrations
- **Neoductgenesis** cases presenting on the mammogram as architectural distortion
- A suggested algorithm for the workup of lesions with architectural distortion
- Indications and contraindications of using minimally invasive preoperative diagnostic techniques.



Multimodality workup of a huge invasive lobular carcinoma

5:00 End of Day 2



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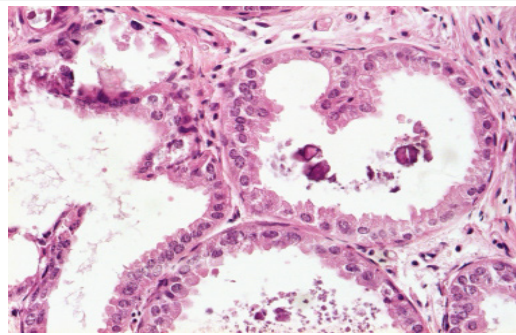
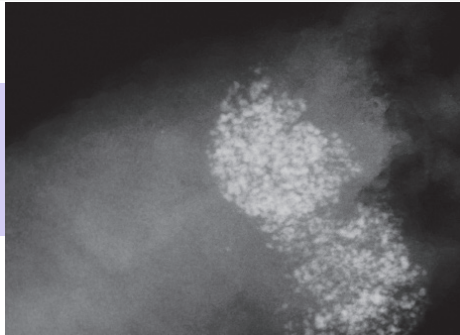
3rd DAY Morning lectures between 8:30 AM - 12:00 PM

8:00 THE DIDACTIC LECTURE SERIES WILL COVER THE FOLLOWING TOPICS:

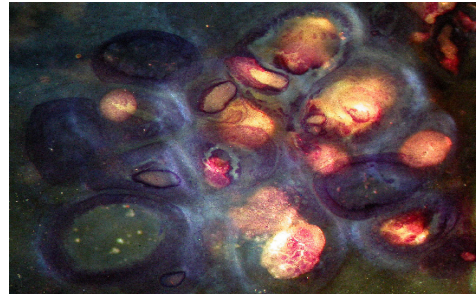
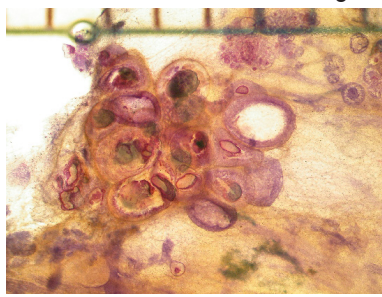
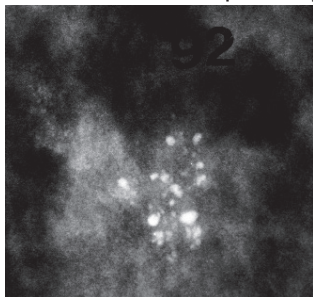
ALGORITHM FOR CLASSIFYING BREAST DISEASES ACCORDING TO THEIR SITE OF ORIGIN

- *Didactic workup of asymmetric densities caused by:*
 - **Normal breast tissue** / focal fibrosis/ **Hamartoma, Cowden disease** (multiple hamartoma syndrome). PASH.
- **Benign breast diseases originating in the TDLU** and associated with calcifications on the mammogram
 - **Fibrocystic change. Fibroadenoma. Different types of adenosis.** Understanding pathophysiology leading to calcified and non-calcified hyperplastic breast changes.
 - Detailed analysis of calcifications associated with hyperplastic breast changes Weddellites, powdery calcifications, pleomorphic calcifications on the mammogram.
- **Malignant breast diseases originating in the TDLU(s)** and associated with calcifications on the mammogram: - [Tabar, L.](#) [Porter, B.](#)

Breaks at 10:00
and
at 11:00 AM



1) Grade 1 *in situ* carcinoma: Mammographic / 3-D histologic / MRI correlation of cases with powdery calcifications on the mammogram



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

12:00 Lunch2

VIII



2014

BREAST SEMINAR SERIES of MEI
Multimodality Approach to Detection and Diagnosis
of Early Breast Cancer with Emphasis on breast MRI

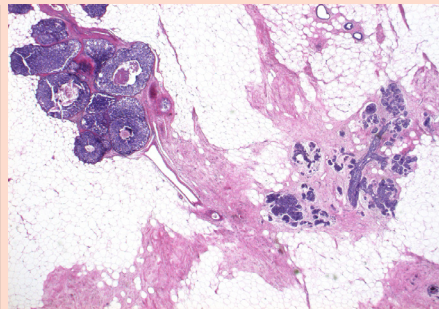
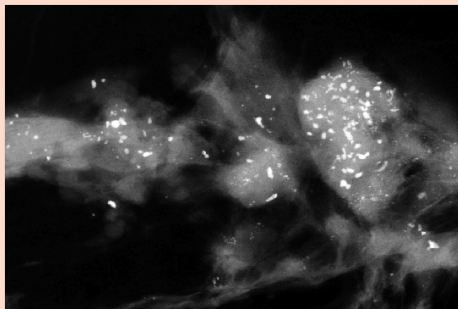
László Tabár, MD., FACR.(Hon)
Professor emeritus of Radiology
Course Director

3rd day

Afternoon lectures between 1:00 PM and 4:30 PM

1:00 THE DIDACTIC LECTURE SERIES WILL COVER THE FOLLOWING TOPICS:

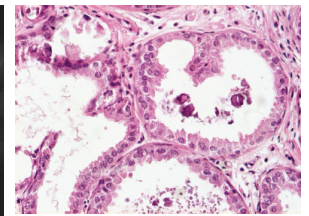
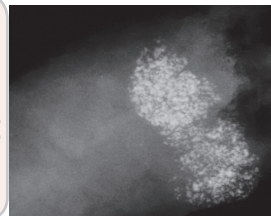
MAMMOGRAPHIC / 3-D HISTOLOGIC/ MRI CORRELATION of CASES with PLEOMORPHIC /
CRUSHED STONE LIKE CALCIFICATIONS - [Tabar, L.](#), [Porter, B.](#)



Mammographic / histologic correlation of pleomorphic calcifications

- The morphologic analysis of calcifications representing a less aggressive carcinoma:

well differentiated CIS



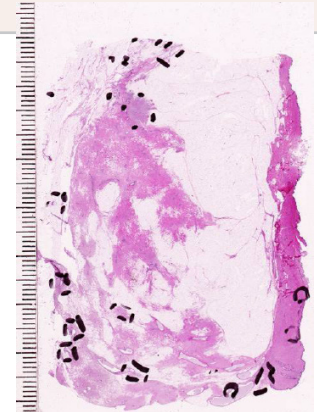
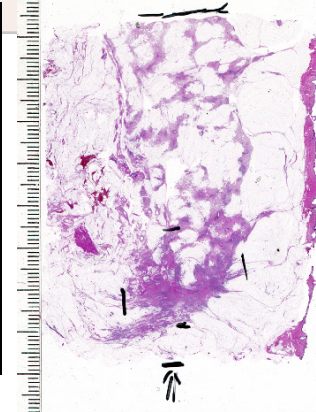
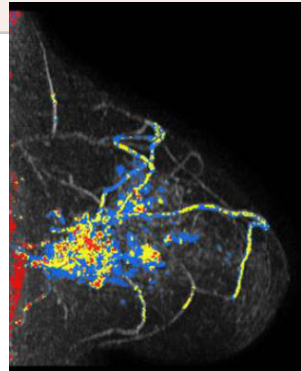
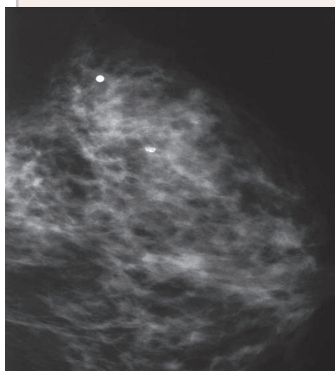
Breaks at 2:30

and

at 3:30 PM

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

3:45 MR FOR STAGING of BREAST CANCER - beyond the BREAST - [Porter, B.](#)



4:30 PM End of Day 3



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4th Day

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

8:00 THE DIDACTIC LECTURE SERIES WILL COVER THE FOLLOWING TOPICS:

HOW TO FIND THE INVASIVE BREAST CANCER WHEN IT IS STILL SMALL NON-PALPABLE LESIONS

- [Tabar L.](#)

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

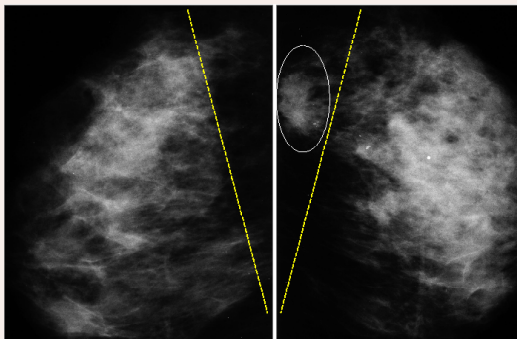
**Breaks at 9:30
and
at 10:30 AM**

PRACTICE IN PERCEPTION OF SUBTLE, NON-CALCIFIED CANCERS.

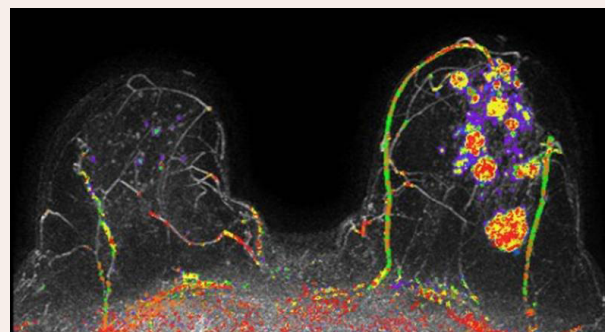
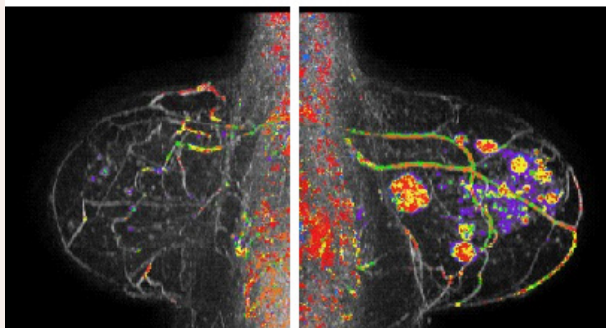
The role of hand-held ultrasound / 3D automated ultrasound / MRI in the detection and workup of the findings. The multimodality approach.- [Tabar L.](#), [Porter, B.](#)

- *Architectural distortion, parenchymal contour changes, imaging the postmastectomy patient*
- [Tabar L.](#), [Porter, B.](#)

PRACTICING MULTIMODALITY APPROACH IN SOLVING COMPLEX CASES - [Tabar L.](#), [Porter, B.](#)



Multifocal invasive and in situ carcinoma
on an area measuring 180X60 mm pN 4/9



End of the course



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For more information and
registration please contact:

Mammography Education, Inc.
4429 E. Spur Drive
CAVE CREEK, AZ 85331, USA

Phone: (480) 419 0227

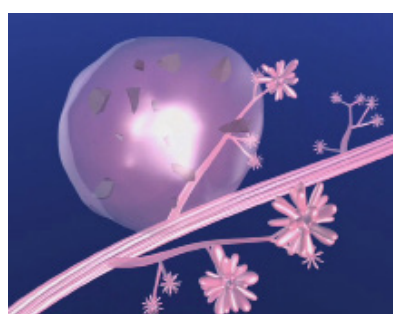
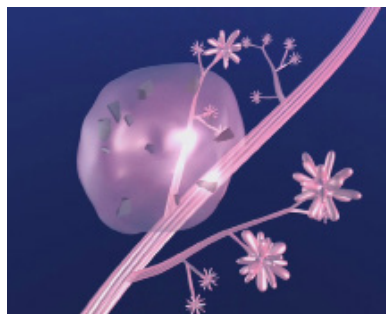
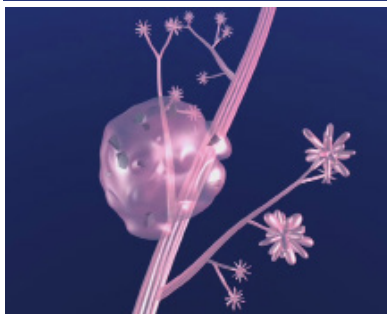
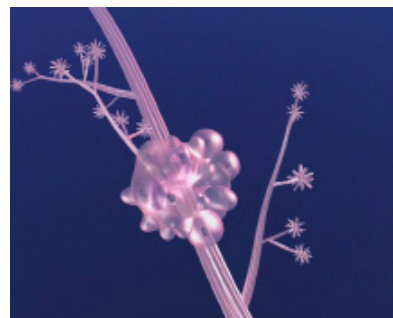
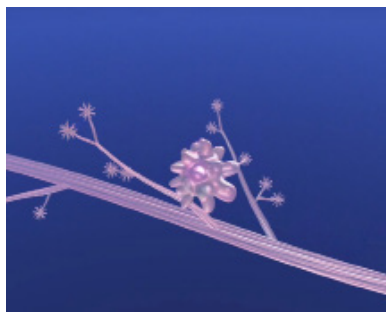
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Computer simulation images of the development of Grade 2 *in situ* carcinoma within the TDLU. The lobule becomes gradually distended and deformed. Calcifications are formed within the necrotic debris and are seen on the mammogram as **crushed stone-like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



2014

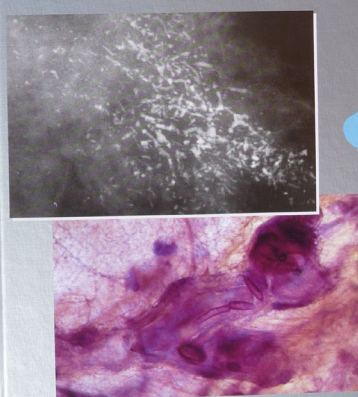
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Breast Cancer Early Detection with Mammography

Casting Type Calcifications: Sign of
a Subtype with Deceptive Features

László Tabár
Tibor Tot
Peter B. Dean

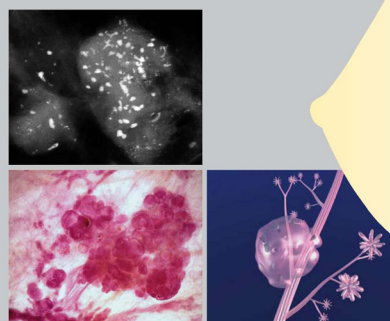


Thieme

Breast Cancer Early Detection with Mammography

Crushed Stone-like Calcifications:
The Most Frequent Malignant Type

László Tabár
Tibor Tot
Peter B. Dean



Thieme

www.thieme.com

Breast Cancer The Art and Science of Early Detection with Mammography

László Tabár
Tibor Tot
Peter B. Dean



Interpretation,
Correlation,
and Pathologic Correlation

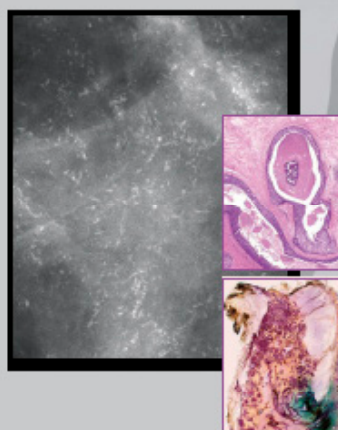
Thieme

Teaching Atlas of Mammography

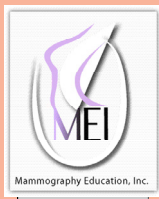
László Tabár
Peter B. Dean

With the contribution of Tibor Tot

4th edition



Thieme

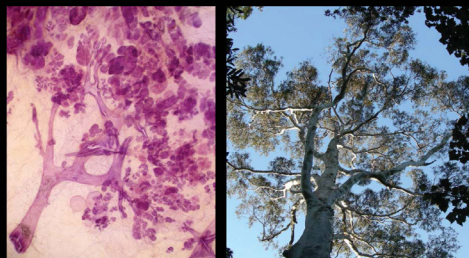


2014

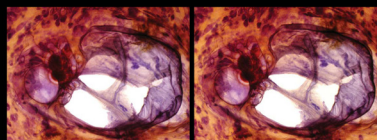
BREAST SEMINAR SERIES of MEI
Multimodality Approach to Detection and Diagnosis
of Early Breast Cancer with Emphasis on breast MRI

László Tabár, MD., FACR.(Hon)
Professor emeritus of Radiology
Course Director

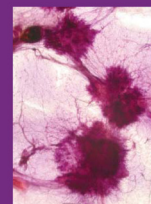
László Tabár, MD
Tibor Tot, MD, Peter B. Dean, MD



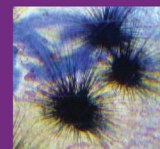
Understanding the Breast in Health and Disease



In 3D



Multifocal breast cancer



Sea urchins

In 3D



In situ ductal carcinoma

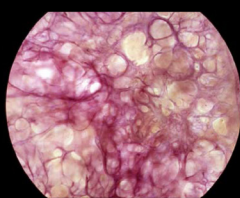


Banana flower

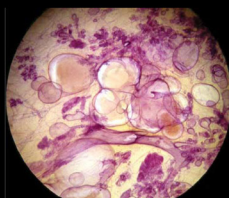
The basic structural elements of the female breasts are illustrated here in true 3-dimensional (3D) images and described in this Volume I by three breast cancer experts with decades of experience in the diagnosis of breast diseases. These images provide the best way to understand the great variability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

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

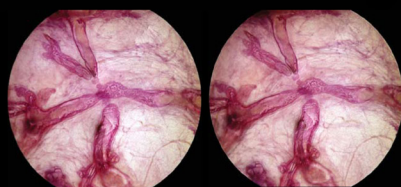


cysts in a prostate



breast cysts

Prostate and Breast: Brother and Sister Organs



In 3D



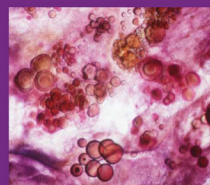
Prostate calcifications



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.