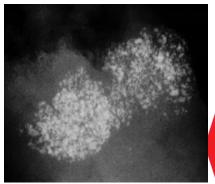


3D image of sclerosing adenosis



Mammogram of sclerosing adenosis



Mammography Education, Inc.



2020

BREAST SEMINAR SERIES

Faculty

LÁSZLÓ TABÁR, MD, FACR (Hon) Course Director *Professor emeritus of Radiology*

Detection and Diagnosis of Breast Diseases
Using the Multimodality Approach

A FULLY INTERACTIVE, UNIQUE LEARNING EXPERIENCE

NEW course design

June 25 - July 5, 2020

River Cruise

21 Category I CME credit hours

Designed for:

Radiologists • Surgeons • Pathologists Gynecologists • Radiology Technologists

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

László Tabár, MD, FACR (Hon)
Course Director

Detection and Diagnosis of Breast Diseases
Using the Multimodality Approach. An interactive course.

FACULTY



László Tabár, MD, FACR (Hon). Course Director

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





Photographs from the collection of the non-profit Tabar Foundation dedicated to Research and Education for Breast Cancer, Visit: tabarfoundation.org



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Course Director

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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 **21 credit hours inCategory 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.

NEW COURSE DESIGN

- * The lectures on each major subject will be followed by **interactive screening sessions** consisting of a mixture of normal and early cancer cases presented on the large screen exactly as they appear on a viewing station at screening. Using a specially provided polling program downloaded to each participant's smartphone or tablet, the attendees will be asked to vote anonymously on each case. The aggreate results will appear instantly for discussion and evaluation. This new course design gives immediate feedback demonstrating the effectiveness of various screening methods.
- * During the course the attendees will progressively **improve their interpretive expertise**, as they learn the full spectrum of normal breast images, with all important findings explained with the help of 3-dimensional histology images.
- * These skills will lead to **fewer call-backs** and greater confidence in reading a large number of mammograms.
- * Immediate feedback and discussion of every case throughout 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.

CREDITS

We would like to thank Mádai & Társai Kft. for organizing the cruise and the tours.



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Course Director

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Using the Multimodality Approach. An interactive course.

Day 1 June 25, the day of arrival, transfers, check into the hotel

We are staying at Hotel Bayerischer Hof





Guided tour in the center of Munich.







Get together dinner



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Course Director

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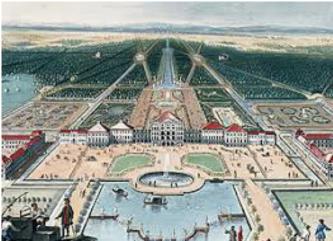
Day 2 June 26, the day of excursion to Nymphenburg Castle, Andechs Monastery, etc.

Breakfast at Hotel Bayerischer Hof 6:00-9:30

TRANSFER TO NYMPHENBURG CASTLE









Enjoy visiting the museums or walking in the park







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Day 2 June 26, the day of excursions to Nymphenburg Castle, Andechs Monastery, etc.

Departure to Andechs Monastery

Bavarian countryside sighyseeing enroute













Lunch at Klostergasthof Andechs



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Day 2 June 26. Return to the Hotel. Leisure time.

Dinner at Spatenhaus an der Oper











Overnight at Hotel Bayerischer Hof



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Course Director

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Using the Multimodality Approach. An interactive course.

Day 3 June 27, the day of excursion to Castle Neuschwanstein, etc.

Breakfast at Hotel Bayerischer Hof 6:00-7:30

TRANSFER TO NEUSCHWANSTEIN







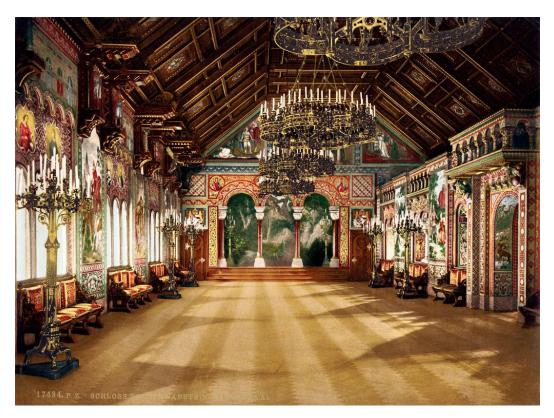






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Course Director

Day 3 June 27, the day of excursion to Castle Neuschwanstein, etc.













2020

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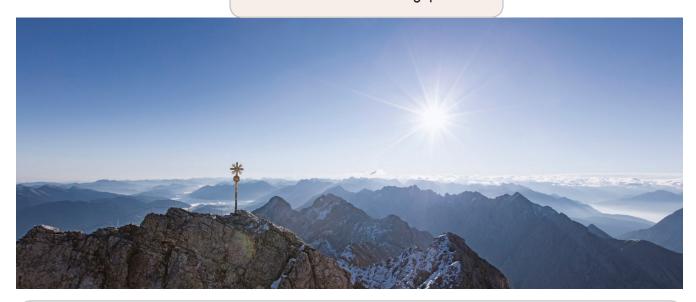
BREAST SEMINAR SERIES of MEI

Detection and Diagnosis of Breast Disease
Using the Multimodality Approach. An intera **Detection and Diagnosis of Breast Diseases** Using the Multimodality Approach. An interactive course.

Day 3 June 27, the day of excursion to Zugspitze



Lunch with view at Zugspitze



Drive to Munich. Transfer to dinner. Return transfer to hotel. Overnight at Hotel Bayerischer Hof.

László Tabár, MD, FACR (Hon) Course Director

Detection and Diagnosis of Breast Diseases Using the Multimodality Approach. An interactive course.

Day 4 June 28, the 1st day of Course for the physicians, cooking class for spouses,

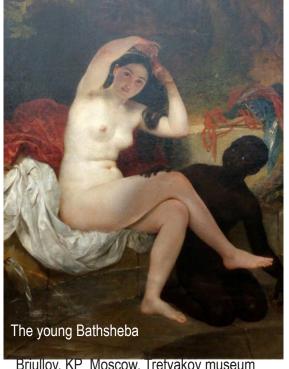
Breakfast at Hotel Bayerischer Hof 6:00-9:00

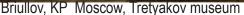
9:00 AM INTRODUCTION FOLLOWED BY DIDACTIC LECTURES COVERING:

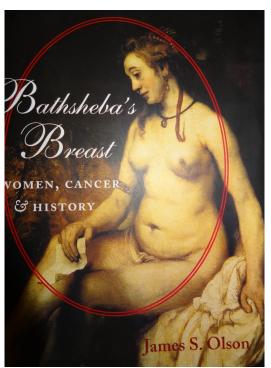
A NEW ERA in the DIAGNOSIS and TREATMENT of BREAST CANCER. A historical perspective.











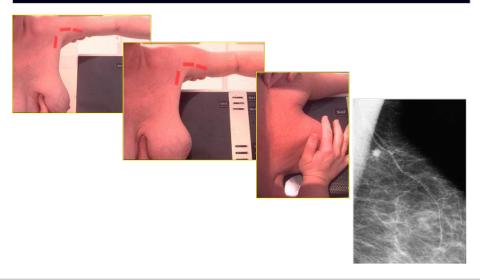


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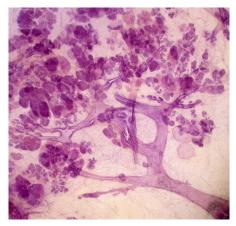
Detection and Diagnosis of Breast Diseases
Using the Multimodality Approach. An interactive course.

Day 4 June 28, the 1st day of Course for the physicians, cooking class for spouses,

A major technical development in the mid-70s: the invention of *low dose film-screen mammography* made it possible to find breast cancers in their non-palpable phase.



- THE MAGICAL ROLE OF LARGE FORMAT, SUBGROSS HISTOPATHOLOGY IN TRAINING
- Correlating 3-dimensional, subgross anatomy with mammography of the normal breast results in increased confidence in reading a mammogram and finding small abnormalities. Special training in large format thin and thick section (stereoscopic) histopathologic correlation enables the radiologist to account for every linear and nodular density on the mammogram.





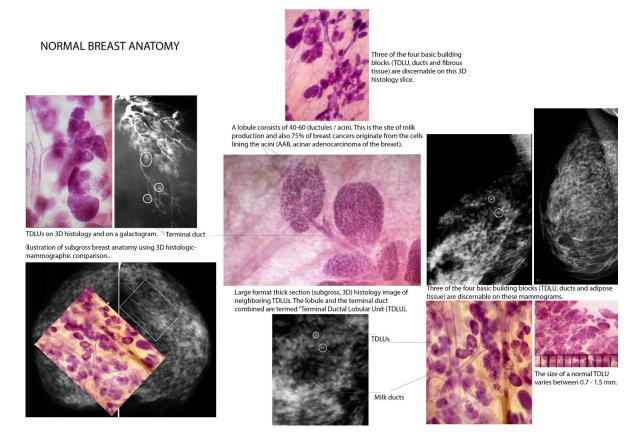
MEI DAMMOGRAPATA

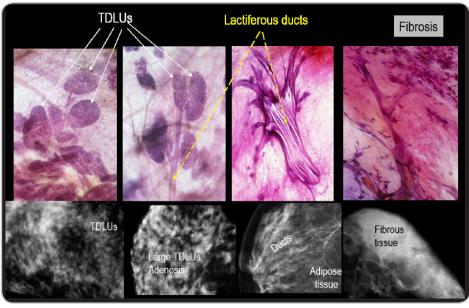
2020 BREAST SEMINAR SERIES of MEI

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Course Director

Detection and Diagnosis of Breast Diseases
Using the Multimodality Approach. An interactive course.

Day 4 June 28, the 1st day of Course for the physicians, cooking class for spouses,





The breast, unlike any other organ, has five structurally different mammographic parenchymal patterns.

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Day 4 June 28. Afternoon. Lunch. Departure to Passau. Boarding the cruise-ship.

1:00 PM Lunch at Hotel Bayerischer Hof

4:00 PM Bus ride to Passau

6:30 PM Arrival and board the Cruise-ship

Please place these url-s into your browser and watch:

https://www.youtube.com/watch?v=jza4oswuLOw

https://www.youtube.com/watch?v=8iUPPAc0ONw

https://www.vikingrivercruises.co.uk/ships/index.html



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2020 BREAST SEMINAR SERIES of MEI

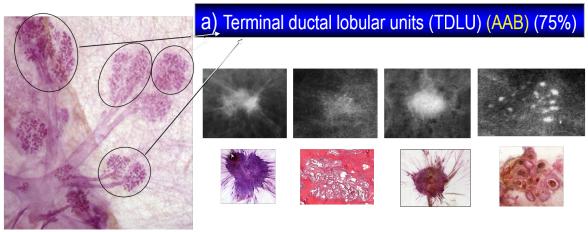
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Detection and Diagnosis of Breast Diseases
Using the Multimodality Approach. An interactive course.

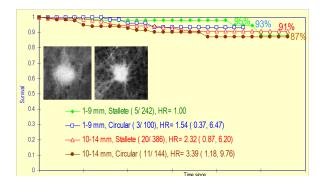
Day 5 - 11th. CME hours. During the cruise we are going to find the time and place to provide all the CME hrs MEI promised to the attendees. These sessions will include formal lectures, informal discussions, interactive sessions using entirely new and exciting computer programs for self-test after screening the anonymised mammograms of asymptomatic women. A new feature of the course is the interactive histopathologic-imaging correlation. Each session will include detailed explanation of the imaging findings supported by large format thin and thick section histopathology images as well as long-term follow-up data.

* ALGORITHM FOR CLASSIFYING BREAST DISEASES ACCORDING TO THEIR SITE OF ORIGIN

We use a classification system which is based on the apparent anatomic site of origin of breast cancer since the long-term patient outcome appears to be largely determined by the site of origin of breast cancer.



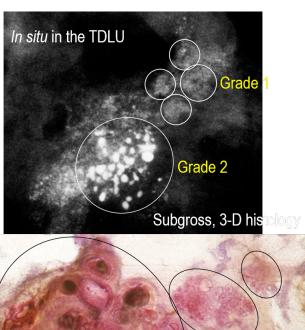
with no associated calcifications on the mammogram. Women 40-69 yrs old, diagnosed in Dalarna county, Sweden between 1977-2006





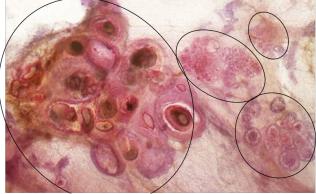
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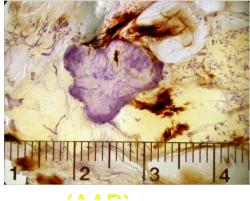
Detection and Diagnosis of Breast Diseases Using the Multimodality Approach. An interactive course.



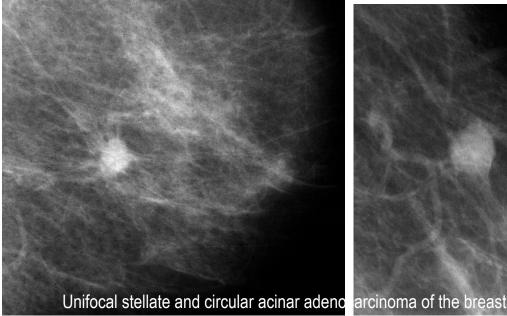


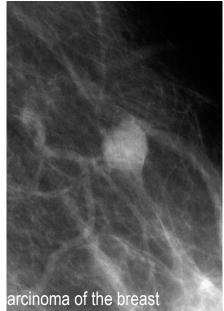






Garde 1 and 2 carcinoma in situ in the TDLU, not DCIS. The subsequent invasive carcinoma is either a stellate or circular tumor mass (not invasive "ductal" carcinoma), well demonstrable on the mammogram.



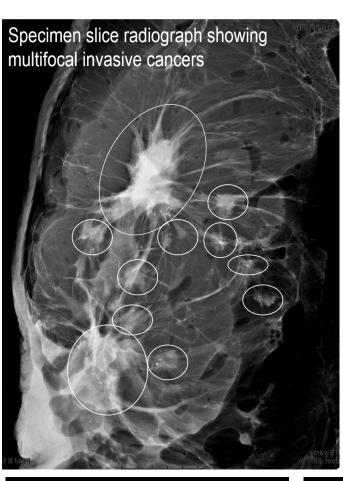


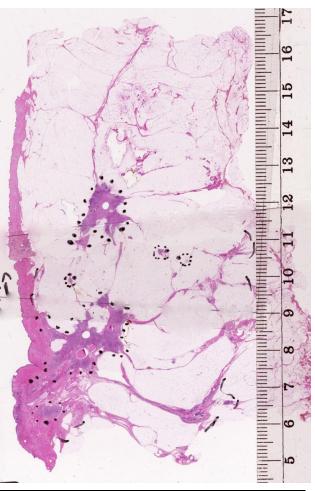


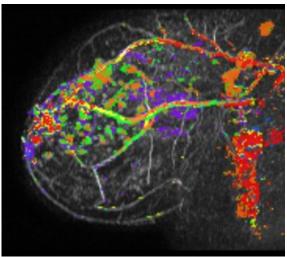
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Multifocal acinar adenocarcinoma of the breast











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Detection and Diagnosis of Breast Diseases
Using the Multimodality Approach. An interactive course.

June 29. Visiting PASSAU. Where the three rivers (IIz, Inn and Danube confluence) the kelts have built Passau 2,000 years ago. The city has elegant coloured buildings and graceful archades.







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June 30. Visiting LINZ. A first century Roman Castle settlement, Linz is today the provincial capital of Upper Austria.



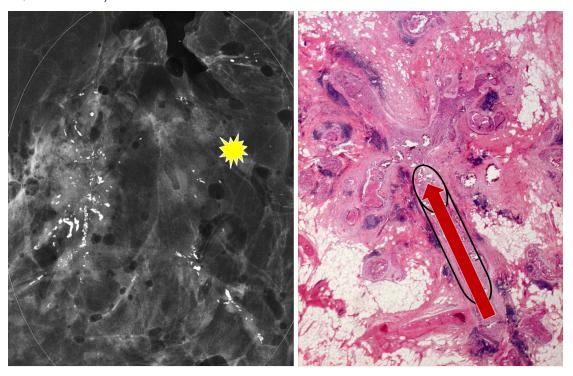




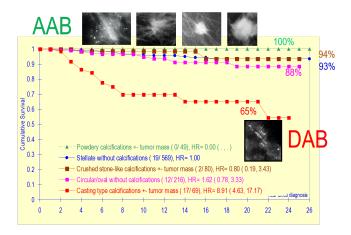
László Tabár, MD, FACR (Hon) Course Director

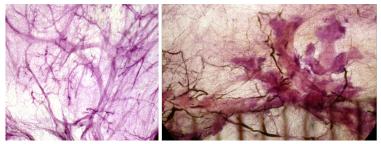
Detection and Diagnosis of Breast Diseases
Using the Multimodality Approach. An interactive course.

Diffuse breast canceer originating from the major lactiferous ducts (DAB) (duct forming invasive carcinoma, not "DCIS")



Cumulative survival of women aged 40-69 years with 1-14 mm invasive preast cancers by mammographic tumor features. Dalarna county, Sweden.





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Detection and Diagnosis of Breast Diseases Using the Multimodality Approach. An interactive course.

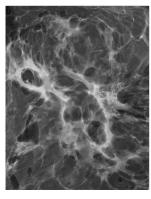
Course Director

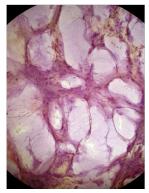
Diffusely invasive breast cancer of mesenchymal origin (a k a invasive lobular).

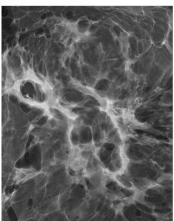
Long-term patient outcome appears to be largely determined by the site of origin of breast cancer.

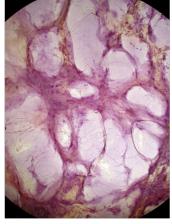


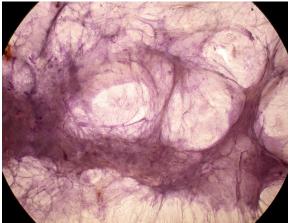
c) Mesenchyme (MET) (5 %)



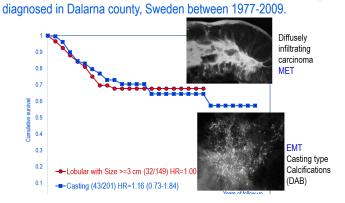








Mammographic-subgross histopathologic correlation of diffusely infiltrating breast cancer of mesenchymal origin.



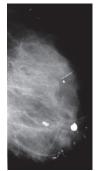
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Course Director

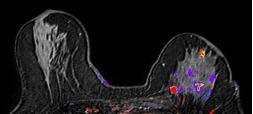
Detection and Diagnosis of Breast Diseases
Using the Multimodality Approach. An interactive course.

Continuation of the CME hours.

ANALYSIS of MALIGNANT LESIONS PRESENTING as RADIATING STRUCTUREs on the mammogram. Clinical presentation, mammographic appearance and outcome, cont.

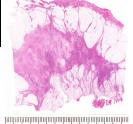
2) Diffusely infiltrating breast cancer of mesenchymal origin: the most deceptive and frequently missed cancer of the breast. The value of ultrasound and MRI in finding and diagnosing this spider's web-like malignancy. Case demonstrations, large section histopathologic-imaging correlation. Long-term outcome.

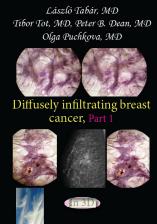




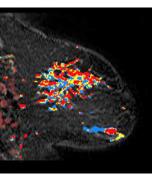
Example 1. Multimodality workup of a huge diffusely infiltrating breast malignancy of mesenchymal origin.

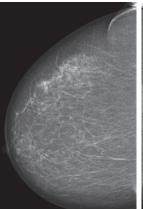






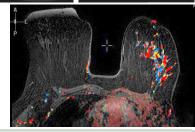








Example 2. Diffusely infiltrating (spider's web-like) carcinoma of mesenchyal origin in the upper half of the breast and a shperical, round lesion, originating from the TDLU (AAB) is seen in the lower portion of the left breast.



Interactive session for detecting architectural distortion on the mammogram.



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Course Director

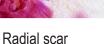
Detection and Diagnosis of Breast Diseases
Using the Multimodality Approach. An interactive course.

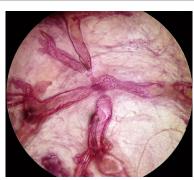
Continuation of the CME hours.

ASYMMETRIC DENSITIES ON THE MAMMOGRAM

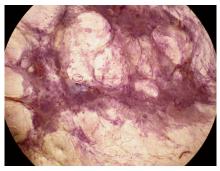
- Didactic workup of non-specific asymmetric densities without architectural distortion
- Didactic workup of non-specific asymmetric densities with architectural distortion
- A suggested algorithm for the workup of lesions with architectural distortion.







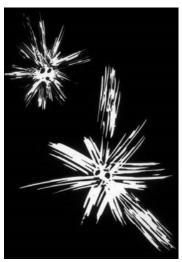
Neoductgenesis (DAB)

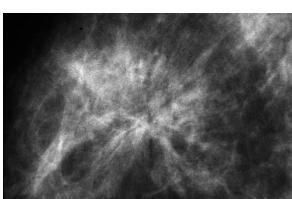


Diffusely infiltrating cancer of mesenchymal origin

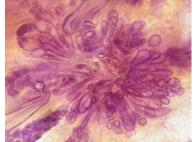
ANALYSIS of BENIGN RADIATING STRUCTURES on the mammogram, originating in the ducts:

Radial scar / sclerosing ductal hyperplasia











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Course Director

July 1. Scenic Cruising through Wachau Valley in the morning and Krems in the afternoon.



Wachau Valley



Krems



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Course Director

July 2. The capital of Austria has green parks, theatres, gracious boulevards.







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Detection and Diagnosis of Breast Diseases

Course Director

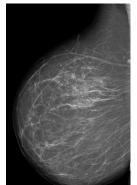
Using the Multimodality Approach. An interactive course.

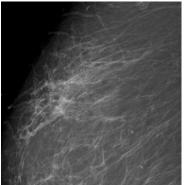
Continuation of the CME hours.

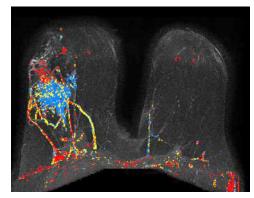
ANALYSIS of MALIGNANT LESIONS PRESENTED as non-calcified RADIATING STRUCTURES on the mammogram. Clinical presentation, mammographic appearance and outcome.

- Duct forming invasive carcinoma / Neoductgenesis cases presenting on the mammogram as architectural distortion. The role of MRI in diagnosing diffuse breast cancer.

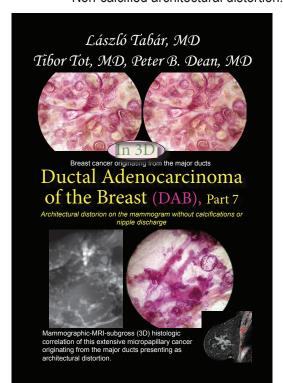
Interactive session for detecting architectural distortion on the mammogram.

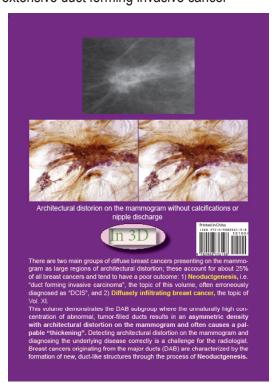






Non-calcified architectural distortion: extensive duct forming invasive cancer





MEI . 2020 BREAST SEMINAR SERIES of MEI

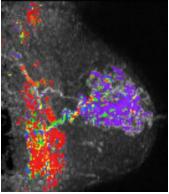
László Tabár, MD, FACR (Hon)
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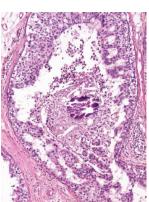
Continuation of the CME hours. During the cruise we are going to provide all the CME hrs MEI promised to the attendees. The topics are outlined on each page. Each session will include detailed explanation of the imaging findings supported by large format thin and thick section histopathology images as well as long-term follow-up data.

- HOW TO FIND THE INVASIVE BREAST CANCER WHEN IT IS STILL SMALL. Malignant stellate and circular/oval-shaped lesions originating from the TDLUs (AAB): clinical presentation, histology, mammographic MRI ultrasound appearance and outcome.
- A systematic method for viewing mammograms.
- Interactive screening session: each participant will assess a mixture of normal and early cancer cases, and vote anonymously using a smartphone or tablet. The combined results will appear instantly for discussion. and evaluation.
- * All abnormal cases are fully worked up and the complete imaging workup will be presented in detail, including ultrasound, MRI and large section histopathology.









Example: Combination of multifocal invasive AAB and *duct forming invasive carcinoma (DAB)*, where the extensive micropapillary cancer originating from the major ducts was well demonstrated by skipping stone-like calcifications on the mammograms and confirmed by breast MRI.



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Course Director

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Continuation of the CME hours.

INTERACTIVE LECTURE SERIES WILL COVER THE FOLLOWING TOPICS.

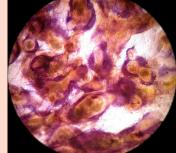
ALGORITHM FOR CLASSIFYING BREAST DISEASES ACCORDING TO THEIR SITE OF ORIGIN

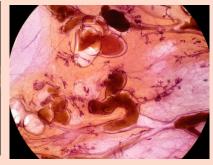
Breast diseases originating in the major ducts

- Benign type calcifications originating in the major ducts
 a) Secretory disease type calcifications
- Malignant type calcifications originating in the major ducts
- Interactive calcification analysis.

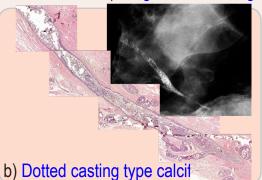




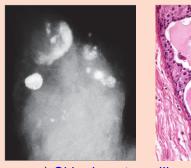


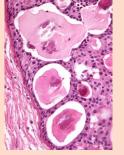


a) Fragmented casting type calcifications.



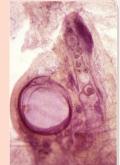
- * Four different malignant type calcifications developing in the major ducts: a) fragmented casting type b) dotted casting type c) skipping stone-like d) pearl necklace-like.
- * The concept of **neoductgenesis**. Long-term follow-up results. New aspects, correct terminology.
- * The role of breast MRI examination in demonstrating the extent of Gr 3 in situ carcinoma.
- * Mammographic/3D histologic correlation helping to explain the underlying pathophysiology and outcome.





c) Skipping stone-like calcifications





d) Pearl necklace-like calcifica-



László Tabár, MD, FACR (Hon)

Course Director

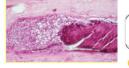
Detection and Diagnosis of Breast Diseases
Using the Multimodality Approach. An interactive course.

Continuation of the CME hours.

MALIGNANT: lecrosis, no fluid

Ca++ in necrosis

UT: Ductal Origin Ca++ on the mammogram



MALIGNANT: Necrosis, no fluid

Ca++ in necrosis

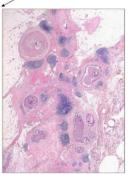
Ductal Origin Ca++ on the mammogram

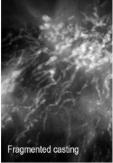


Type 1
FRAGMENTED
CASTING
solid bars)

Diffuse, lobar lisease

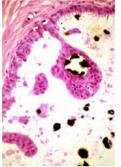
Grade III solid cell proliferation

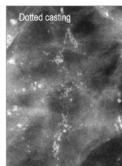


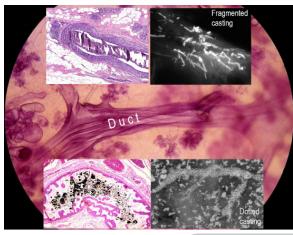


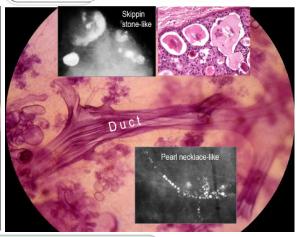


- -Diffuse, lobar disease
- Grade III
- -micropapillary cell proliferation









Interactive calcification analysis.

MALIGNANT: No necrosis, fluid

Ca++ in proteinaceous fluid

Ductal Origin Ca++ on the mammogram



MALIGNANT: No necrosis, fluid

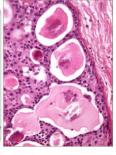
Ca++ in proteinaceous fluid Ductal Origin Ca++ on the mammogram

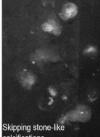


Type 3
"DISCOID"
(skipping stone-like)

- -Diffuse lobar disease
- -Grade II

-Micropapillary or/and cribriform

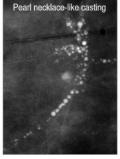




Type 4
"PEARL NECKLACE"

- -large psammoma body-like calcifications within ducts
- -Grade I or/and 2
- Micropapillary, cribriform.







2020

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BREAST SEMINAR SERIES of MEI

Detection and Diagnosis of Breast Disease

Using the Multimodality Approach. An intera Detection and Diagnosis of Breast Diseases Using the Multimodality Approach. An interactive course.

July 2. The capital of Austria has green parks, theatres, gracious boulevards.







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July 3. Bratislava, the capital of Slovakia has an enormous castle 300 feet above the Danube. It also has baroque city palaces (morning), Scenic cruising the Danube bend in the afternoon.











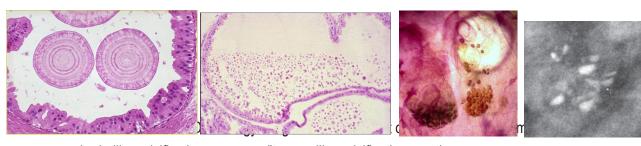
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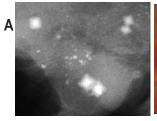
ALGORITHM FOR CLASSIFYING BREAST DISEASES ACCORDING TO THEIR SITE OF ORIGIN

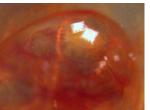
- Benign breast diseases originating in the TDLU and associated with calcifications on the mammogram
 - **Fibrocystic change. Fibroadenoma. Different types of adenosis.** Understanding pathophysiology leading to calcified and non-calcified hyperplastic breast changes.

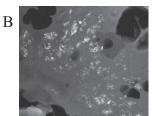


body-like calcifications, seen as "teacup-like calcifications on the mammogram.

- Detailed analysis of calcifications associated with hyperplastic breast changes: Weddellites (A), powdery calcifications (B), cluster skipping stone-like calcifications on the mammogram.



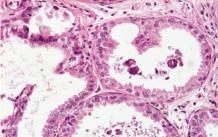






The morphologic analysis of calcifications representing a less aggressive carcinoma:
 Grade 1 / well differentiated CIS





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

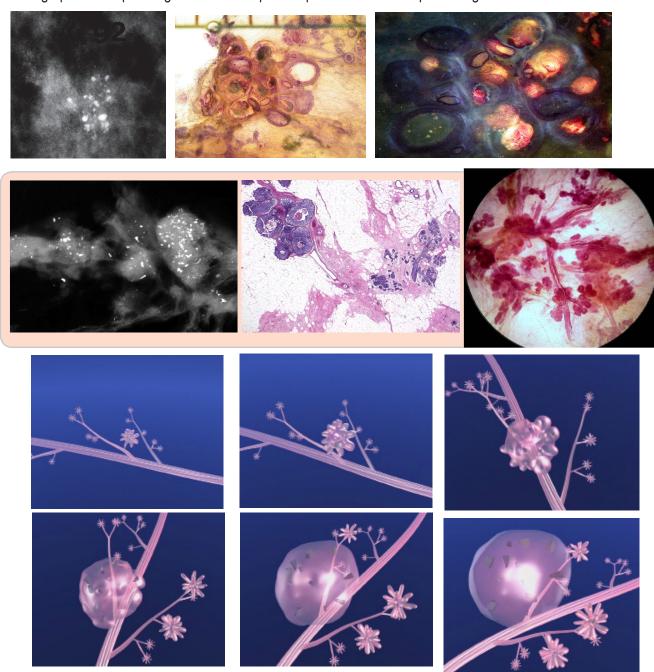


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Mammographic / histopathologic correlation of pleomorphic calcifications representing Gr 2 CIS within the TDLU



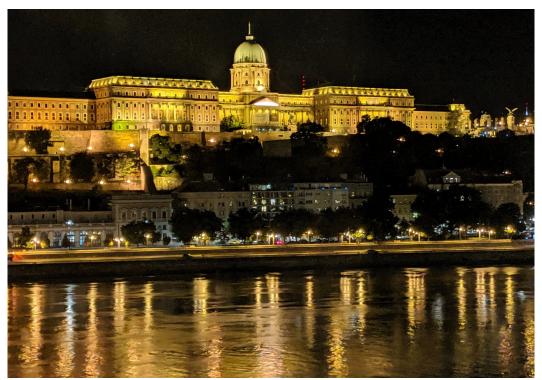
Computer simulation images of the development of Grade 2 *in situ* carcinoma within the TDLU. The lobule becomes gradually distended and deformed. Calcifications are formed within the necrotic debris and are seen on the mammogram as **crushed stone-like calcifications**.



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July 4. Budapest, the capital of Hungary, aptly called Paris of the East for its beautiful evening illumination and reflected lights in the Danube's waters.



The Royal Palace



The Chain Bridge, Matias church and the Fishermen's Bastion

MEI . JAINOGRAPA

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July 4. Budapest, the capital of Hungary, aptly called Paris of the East for its beautiful buildings.



River Duna (Danube) with numerous bridges connecting the two cities, Buda and Pest. The name Budapest came after the first bridge was built in the second half of the 1800s.

The Parliament House is seen on the right side of the river.



Budapest by night

July 5. Check out after breakfast. Transfers to the airport.



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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

Fax: (480) 419 0219

e-mail: info@mammographyed.com

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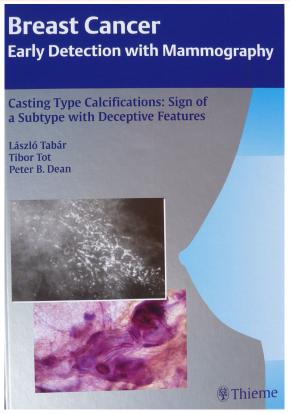
A photograph from the collection of the non-profit Tabar Foundation dedicated to Research and Education for Breast Cancer

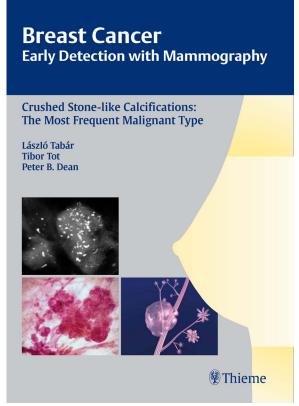


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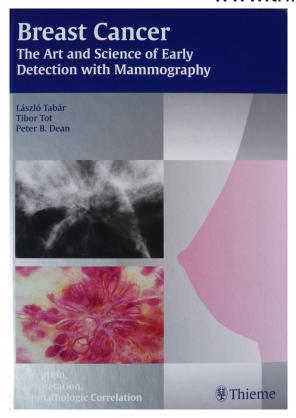
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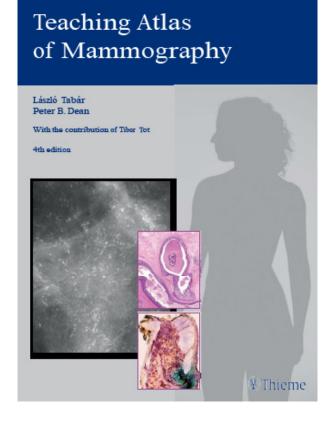
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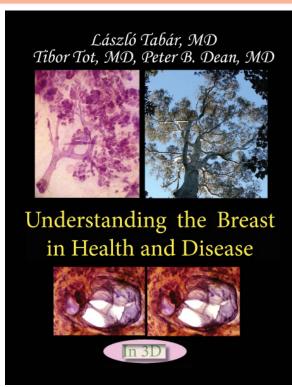


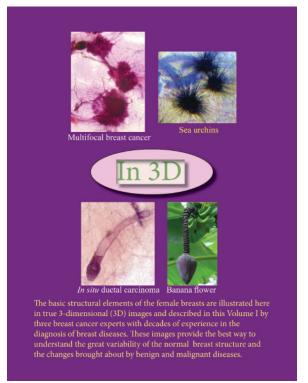




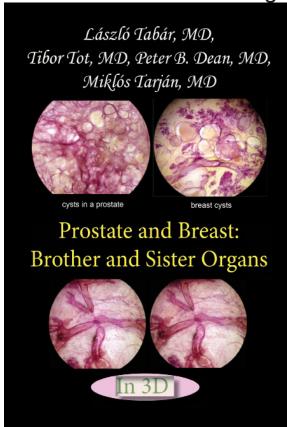
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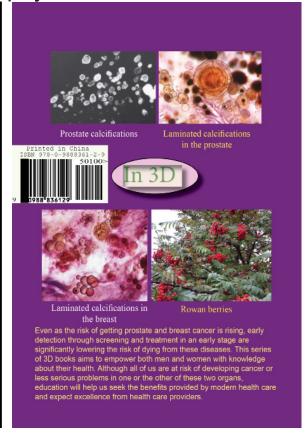
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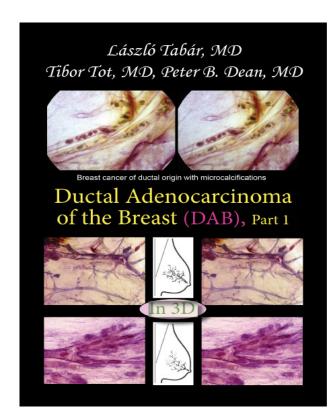
www.mammographyed.com



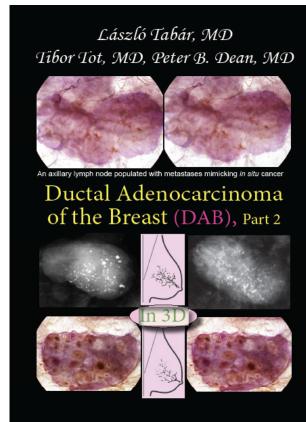


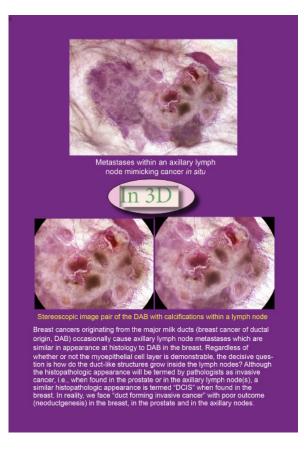


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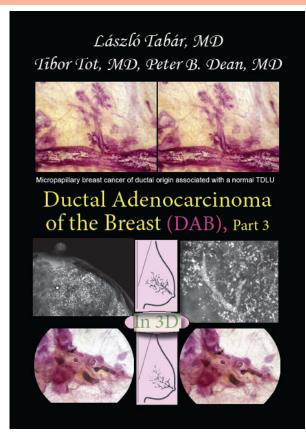




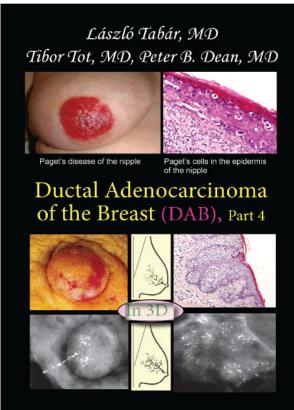


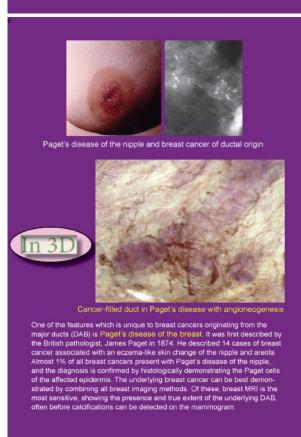


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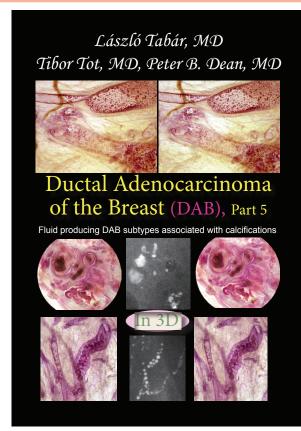


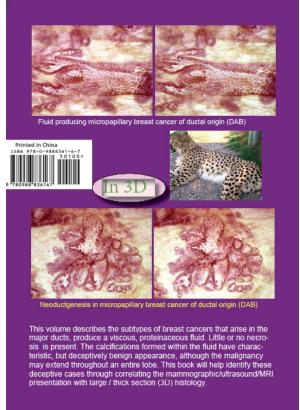


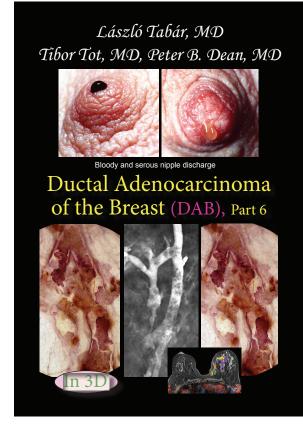




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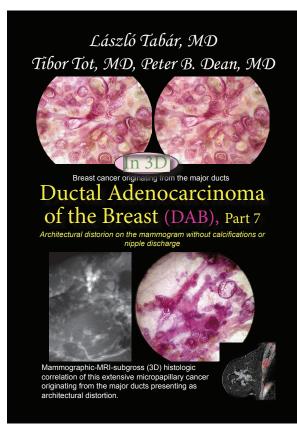


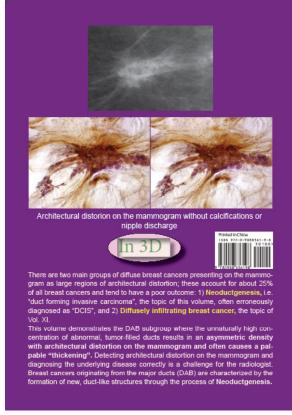


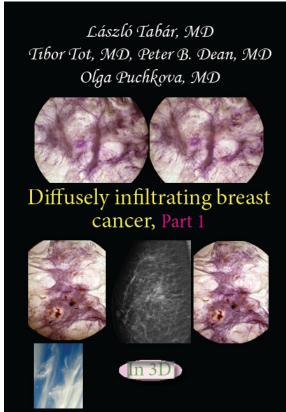


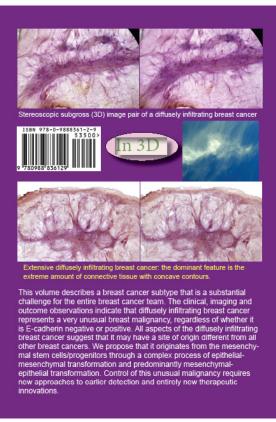


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The mission of the Tabar Foundation is to support research and education to fight against breast cancer. Dr. Tabar's own photographs are now available as high-quality prints. All proceeds from your tax-deductible purchase will support young physicians who are learning how to detect breast cancer when it is still curable. Visit: tabarfoundation.org

