

3D image of the breast tissue





10 mm invasive breast cancer



Sea urchin

NEW course design

Mammography Education, Inc. and MedEvents

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

AN INTERACTIVE, UNIQUE LEARNING EXPERIENCE

May 13-15th, **2020**.

Golden Tulip Ana Dome Hotel 129 Observatorului St. Cluj-Napoca - Romania

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).

Lecturer

Professor emeritus of Radiology,

Department of Mammography

Falun, Sweden





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

Detection and Diagnosis of Breast Diseases
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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 hand-held and automated breast ultrasound (ABUS), MRI and large section histopathology.
- * Emphasis will be placed on classifying breast cancers according to their site of origin correlated to several decades long patient outcome.







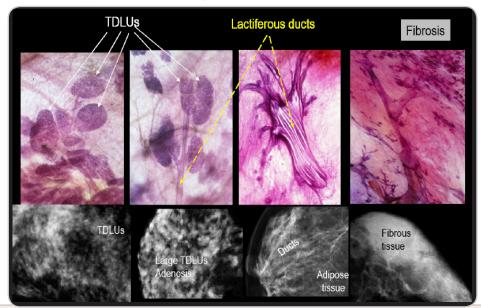
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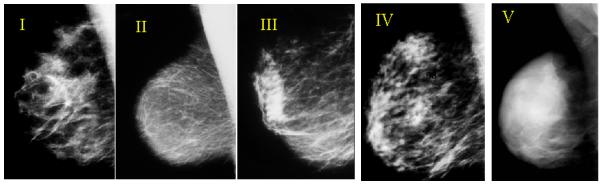
Day 1 Morning lectures between 8:30 AM and 12:00 PM. Break: 10:30 AM

9:00 AM INTRODUCTION FOLLOWED BY DIDACTIC LECTURES COVERING:

- A NEW ERA in the DIAGNOSIS and TREATMENT of BREAST CANCER. A SHORT HISTORY.
- HOW TO READ A MAMMOGRAM. THE BASIS FOR SKILLFUL AND EFFICIENT INTERPRETATION OF THE MAMMOGRAPHIC IMAGE
- 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 (3D) histopathologic correlation enables the radiologist to account for every linear and nodular density on the mammogram.



The breast, unlike any other organ, has **five structurally different mammographic parenchymal** patterns. These images show the basic building blocks of the normal breast structure.



12:00 PM - 1:00 PM Lunch

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

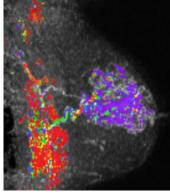
Day 1 Afternoon lectures: 1:00 PM and 5:00 PM. Breaks at 2:30 and 3:30 PM

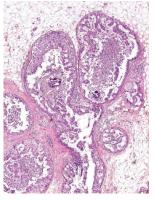
1:00 PM ALGORITHM FOR CLASSIFYING BREAST DISEASES ACCORDING TO THEIR SITE OF ORIGIN

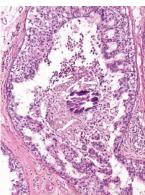
HOW TO FIND THE INVASIVE BREAST CANCER WHEN IT IS STILL SMALL. Malignant stellate and circular/oval-shaped lesions originating from the TDLUs (AAB): clinical presentation, histology, mammographic - MRI - ultrasound appearance and outcome.

- A systematic method for viewing mammograms. Areas on the mammogram where
 most breast cancers will be found. Viewing dense breasts. Viewing relatively easyto-read breasts.
 - The role of hand-held ultrasound / 3D automated ultrasound / MRI in the detection and workup of the findings. **The multimodality approach.**
 - Interactive screening session: Using what has just been taught, 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: Multifocal invasive AAB and DAB (neoductgenesis) case, where the extensive micropapillary cancer originating from the major ducts was well demonstrated on breast MRI.

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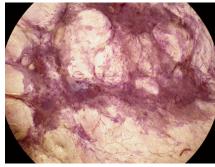
Day 2 Morning lectures between 8:30 AM and 12:00 PM. Breaks:10:00 AM, 11:00 AM

8:30 AM 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.







Radial scar

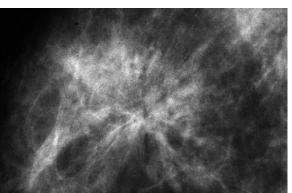
Neoductgenesis (DAB)

Diffusely infiltrating cancer of mesenchymal origin

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

Radial scar / sclerosing ductal hyperplasia







12:00 PM - 1:00 PM Lunch

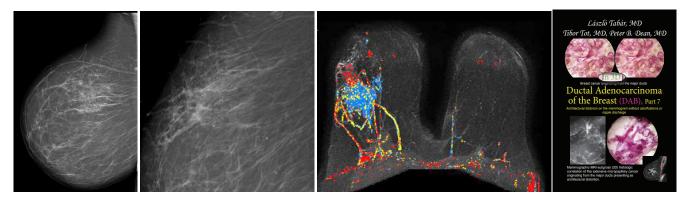
Detection and Diagnosis of Breast Diseases Using the Multimodality Approach. An interactive course.

Day 2 Afternoon lectures: 1:00 PM - 4:30 PM. **Breaks: 2:30 PM and 3:30 PM**

1:00 PM ANALYSIS of MALIGNANT LESIONS PRESENTED as non-calcified RADIATING STRUCTURES on the mammogram. Clinical presentation, mammographic appearance and outcome.

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

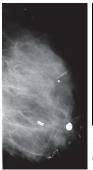
Interactive session for detecting architectural distortion on the mammogram.

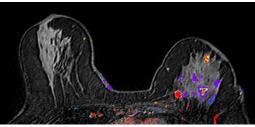


Non-calcified architectural distortion: extensive duct forming invasive cancer

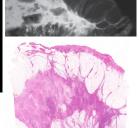
2) ANALYSIS of MALIGNANT LESIONS PRESENTING as RADIATING STRUCTUREs on the mammogram. Clinical presentation, mammographic appearance and outcome, cont.

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.



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László Tabár, MD Tibor Tot, MD, Peter B. Dean, MD Olga Puchkova, MD Diffusely infiltrating breast cancer, Part

4:30 PM. End of Day 2.

László Tabár, MD, FACR (Hon)
Course Director

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Day 3 Morning lectures: 8:00 AM and 12:00 PM. Breaks at 9:30 and 11:00 AM

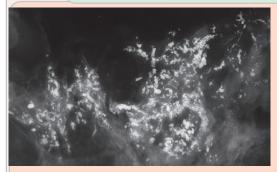
8:00 AM INTERACTIVE LECTURE SERIES WILL COVER THE FOLLOWING TOPICS.

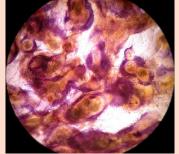
ALGORITHM FOR CLASSIFYING BREAST DISEASES ACCORDING TO THEIR SITE OF ORIGIN

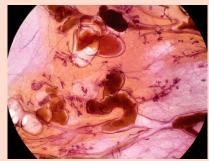
Breast diseases originating in the major ducts

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

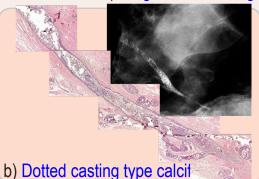






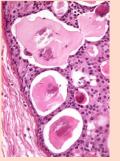


a) Fragmented casting type calcifications.



- * 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-

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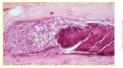
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Day 3 Morning lectures continuation.



Ductal Origin Ca++ on the mammogram



MALIGNANT: Necrosis, no fluid Ca++ in necrosis **Ductal Origin** Ca++ on the mammogram



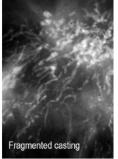
Ca++ in necrosis Type 1

RAGMENTED CASTING solid bars)

Diffuse, lobar lisease

Grade III solid cell proliferation



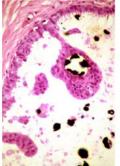


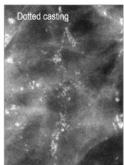
Type 2 DOTTED **CASTING-TYPE** (snakeskin-like)

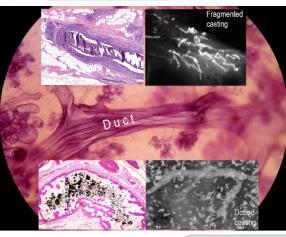
-Diffuse, lobar disease

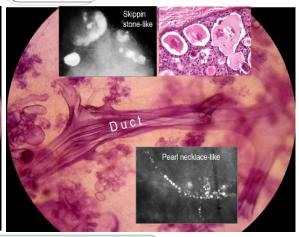
- Grade III

-micropapillary cell proliferation









Interactive calcification analysis.

MALIGNANT: No necrosis, fluid

Ca++ in

proteinaceous fluid





MALIGNANT: No necrosis, fluid

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

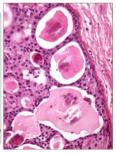


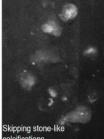
Type 3 "DISCOID" (skipping stone-like)

-Diffuse lobar disease

-Grade II

-Micropapillary or/and cribriform





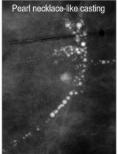
proteinaceous fluid Type 4 "PEARL NECKLACE"

-large psammoma body-like calcifications within ducts

-Grade I or/and 2

- Micropapillary, cribriform.





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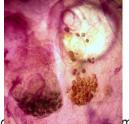
Day 3 Afternoon lectures: 1:00 PM - 4:30 PM. Break at 3:30 PM

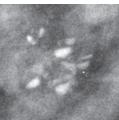
1:00 PM ALGORITHM FOR CLASSIFYING BREAST DISEASES ACCORDING TO THEIR SITE OF ORIGIN

- 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.



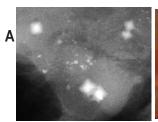


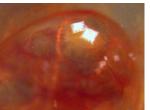




body-like calcifications, seen as "teacup-like calcifications on the mammogram.

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



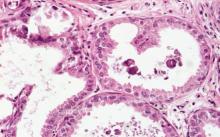






The morphologic analysis of calcifications representing a less aggressive carcinoma:
 Grade 1 / well differentiated CIS





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

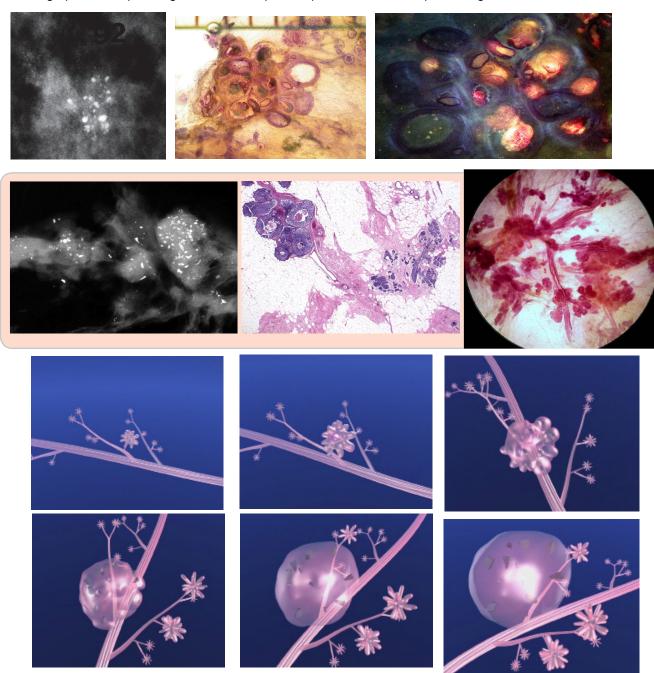
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Mammographic / histopathologic correlation of pleomorphic calcifications representing Gr 2 CIS within the TDLU



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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For more information and registration please contact:

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Fax: +40 364 108 990

e-mail: breastdiseases@medevents.ro

Internet: http://breastdiseases.medevents.ro/

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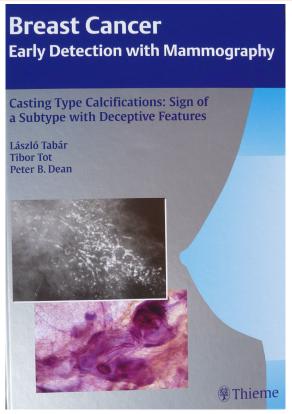


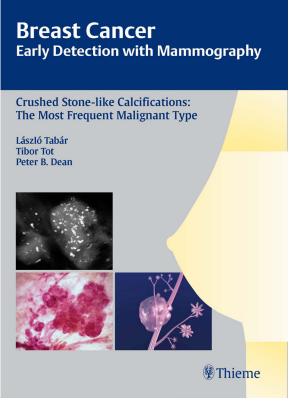
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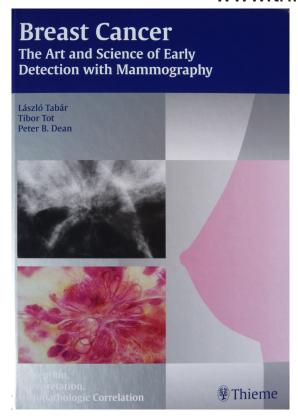
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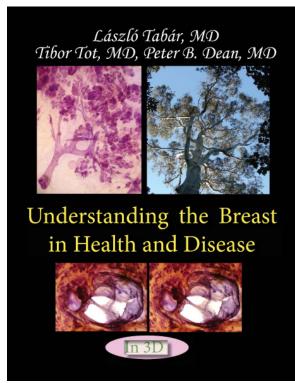
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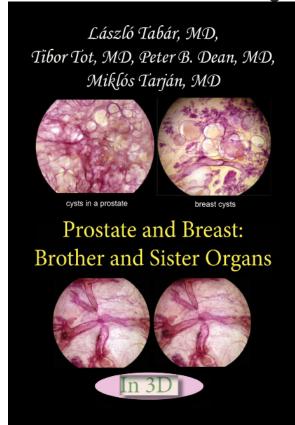
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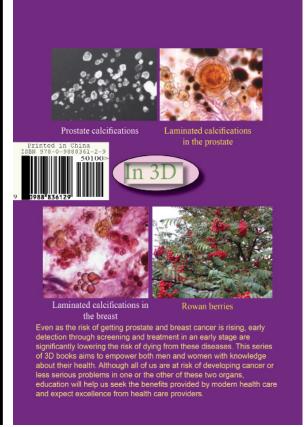
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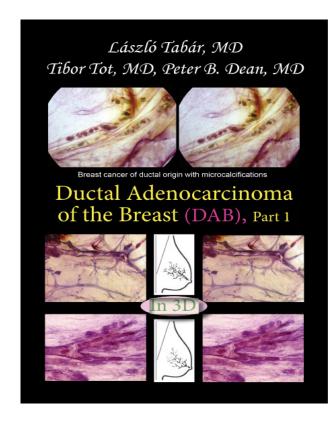


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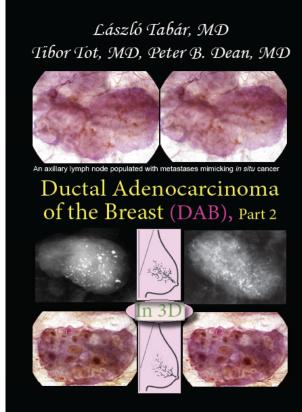


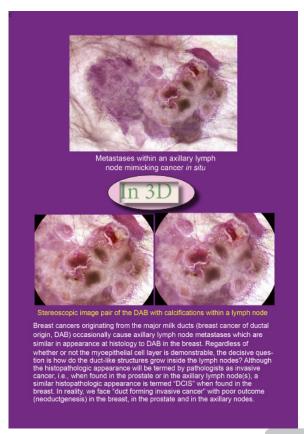


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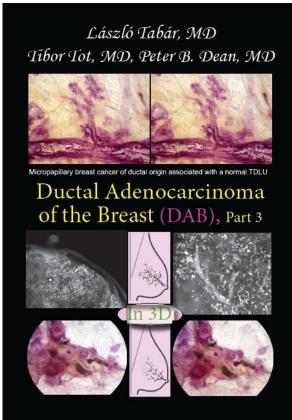




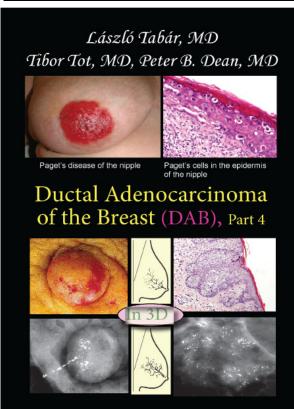




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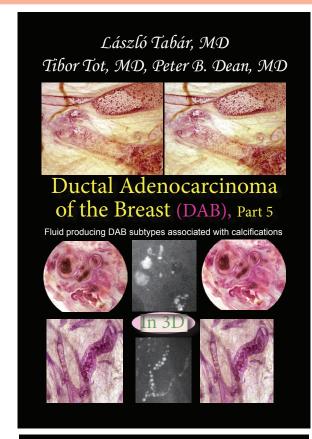


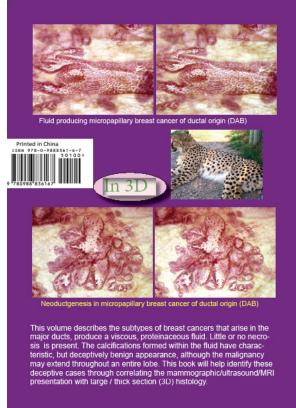


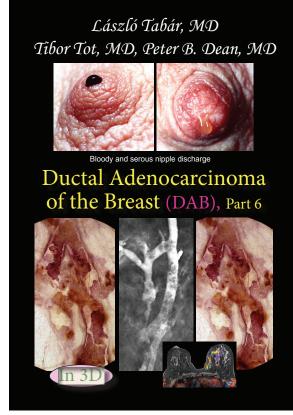




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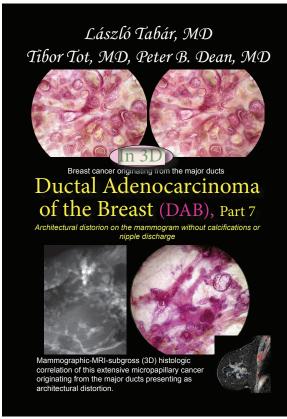


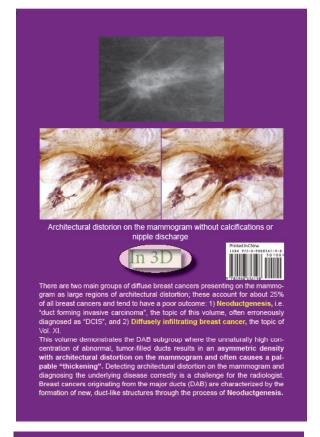


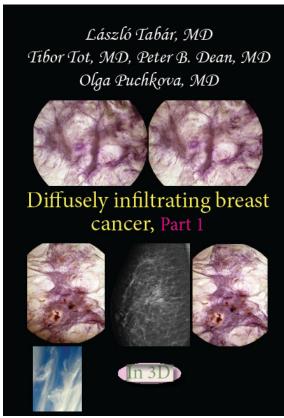


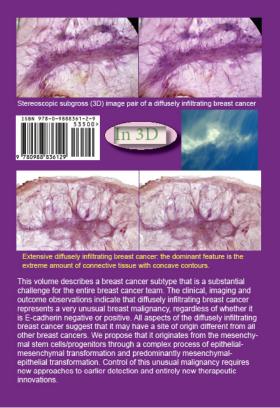


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The mission of the Tabar Foundation is to support research and education to fight against breast cancer. Dr. Tabar's own photographs are now available as high-quality prints. All proceeds from your tax-deductible purchase will support young physicians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



