

3D image of the breast tissue





3D image of fibrocystic change

8 Category I CME credit hours.

Mammography Education, Inc.



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

NEW course design *April 21-22, 2021* **WEBINAR**

Designed for:

Radiologists • Surgeons • Pathologists Gynecologists

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, Uppsala University, Sweden



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



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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 **8 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 **immediate feedback** and discussion.
- * During the course the attendees will progressively **improve their interpretive expertise**, as they learn all important findings explained with the help of large format thin section and 3-dimensional histology images.
- * These skills will lead to greater confidence in analyzing and interpreting microcalcifications on the mammogram.
- * 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.**



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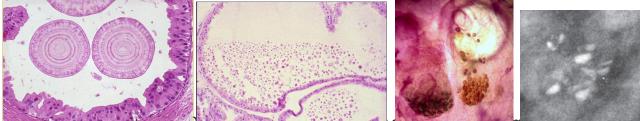
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Course Director

Day 1 5:00 PM - 9:00 PM

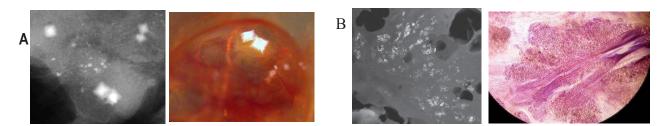
INTERACTIVE LECTURE SERIES WILL COVER THE FOLLOWING TOPICS. ALGORITHM FOR CLASSIFYING BREAST DISEASES ACCORDING TO THEIR SITE OF ORIGIN

- 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.

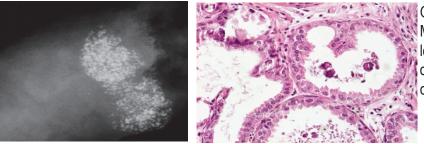


body-like calcifications, seen as "teacup-like calcifications on the mammogram.

- 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.



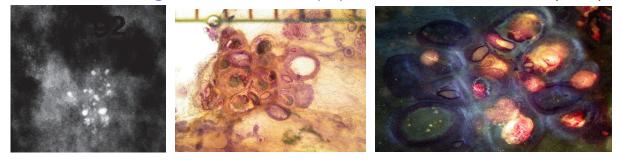
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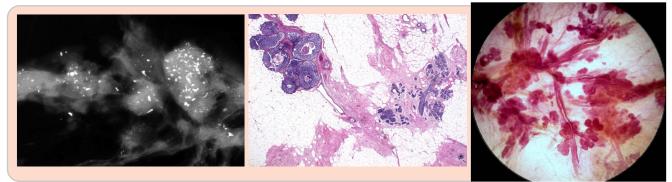
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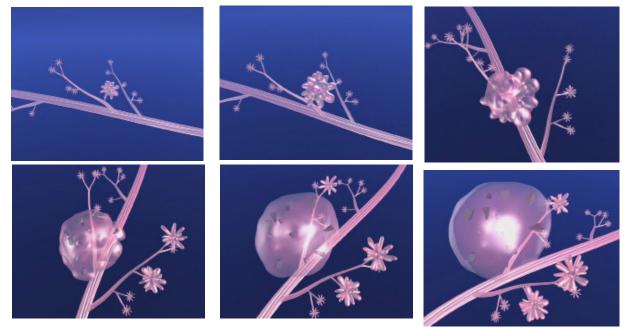
Day 2 5:00 PM - 9:00 PM

2021

Differential diagnosis: Fcch, FA, papilloma versus Gr 2 CIS (AAB)







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**.

V



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For more information and registration please contact:	
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Breast Cancer

Early Detection with Mammography

Casting Type Calcifications: Sign of a Subtype with Deceptive Features

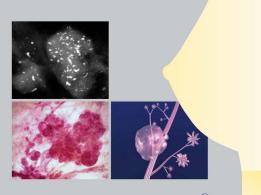
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Breast Cancer Early Detection with Mammography

Crushed Stone-like Calcifications: The Most Frequent Malignant Type

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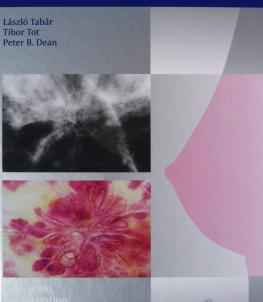
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Breast Cancer

The Art and Science of Early Detection with Mammography



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Teaching Atlas of Mammography



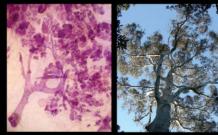


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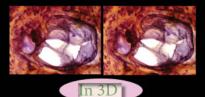
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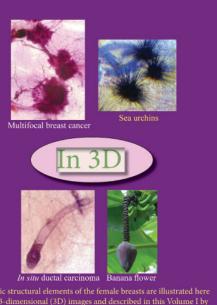
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Understanding the Breast in Health and Disease

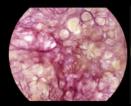




The basic structural elements of the temale breasts are illustrated here in true 3-dimensional (3D) images and described in this Volume I by three breast cancer experts with decades of experience in the diagnosis of breast diseases. These images provide the best way to understand the great variability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

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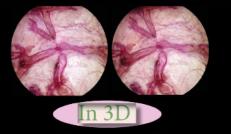
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cysts in a prostate

Prostate and Breast: Brother and Sister Organs





Prostate calcifications

Laminated calcifications in the prostate







Laminated calcifications in the breast

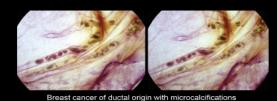
Even as the risk of getting prostate and breast cancer is rising, early detection through screening and treatment in an early stage are significantly lowering the risk of dying from these diseases. This series of 3D books aims to empower both men and women with knowledge about their health. Although 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.



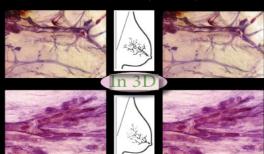
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Ductal Adenocarcinoma of the Breast (DAB), Part 1

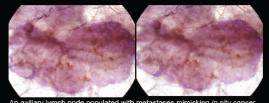




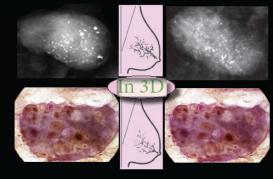


nammogram is a true representation of the structural changed by the genetic constellation of each breast cancer subly nammographic/RRI/ultrasound presentation of a particular to the nature and extent of the underlying disease process. ctly interpreted, can guide patient management and h the long-term outcome. This information is available at diagnosis, without the additional expense and time molecular and immunohistochemical analysis

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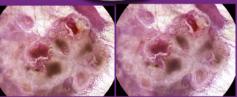
Ductal Adenocarcinoma of the Breast (DAB), Part 2





tastases within an axillary lymp node mimicking cancer in situ





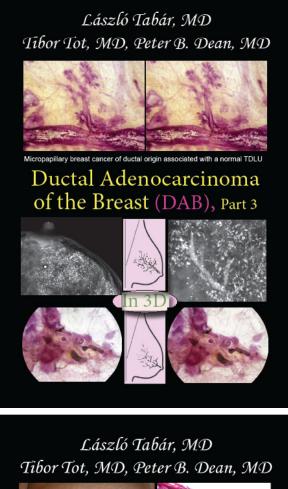
ast cancers originating from the major milk ducts (breast cancer of ducta igin, DAB) occasionally cause axillary lymph node metastases which are jin, DAB) occasionally cause axillary lymph node metastases which ari iliar in appearance at histology to DAB in the breast. Regardless of effert or not the myoepithelial cell layer is demonstrable, the decisive q is how do the duct-like structures grow inside the lymph nodes? Altho histopathologic appearance will be termed by pathologists as invasive iccer, i.e., when found in the prostate or in the axillary lymph node(s), a liar histopathologic appearance is termed "DCIS" when found in the ast. In reality, we face "duct forming invasive cancer" with poor outcom outcogenesis) in the breast, in the prostate and in the axillary nodes.



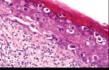
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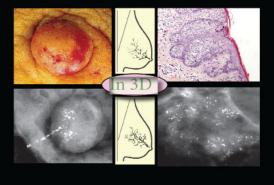


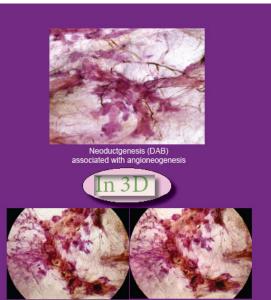


Paget's disease of the nipple

Paget's cells in the epidermis of the nipple

Ductal Adenocarcinoma of the Breast (DAB), Part 4





Breast cancers that originate in the major milk ducts (ductal adenocarcinoma of the breast, DAB) are diffuse and often extensive. The disease may occupy an entitle lobe from the nipple to the chest wall, and frequently extends close to the skin. For these reasons, breast conserving surgery and skin or nipple sparing mastectomy of DAB cases carry a higher risk of local/ regional/distant recurrence. In addition: 1) a considerable portion of the disease may lack calcifications, often occult for the imaging methods. 2) This subtype of breast cancer is less responsive to postoperative radiotherapy.



Paget's disease of the nipple and breast cancer of ductal origin





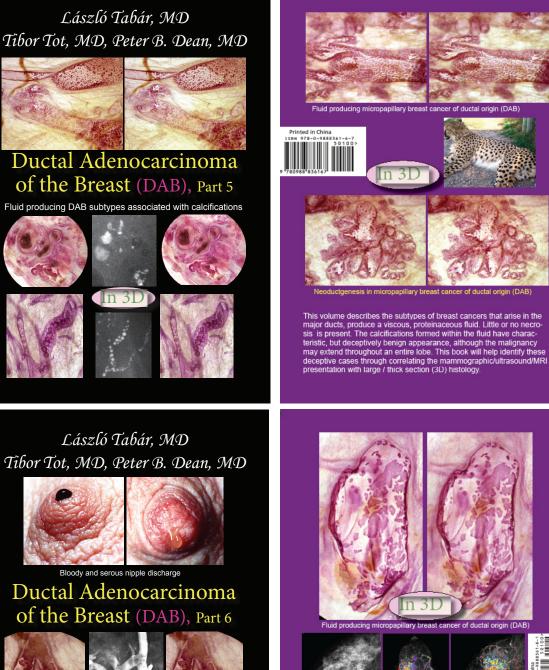
Cancer-filled duct in Paget's disease with angioneogenesis

One of the features which is unique to breast cancers originating from the major ducts (DAB) is **Paget's disease of the breast**. It was first described by the British pathologist, James Paget in 1874. He described 14 cases of breast cancer associated with an eczema-like skin change of the nipple and areola. Almost 1% of all breast cancers present with Paget's disease of the nipple, and the diagnosis is confirmed by histologically demonstrating the Paget cells of the affected epidermis. The underlying breast cancer can be best demonstrated by combining all breast imaging methods. Of these, breast MRI is the most sensitive, showing the presence and true extent of the underlying DAB, often before calcifications can be detected on the mammogram.

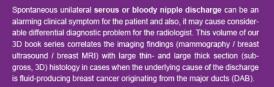


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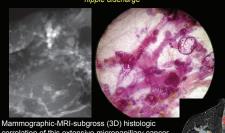
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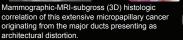
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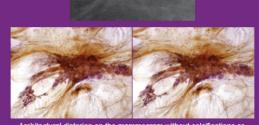


Breast cancer originating from the major ducts Ductal Adenocarcinoma of the Breast (DAB), Part 7 Architectural distorion on the mammogram without calcifications or

ninnle disch







Architectural distorion on the mammogram without calcifications or nipple discharge

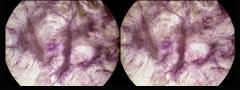




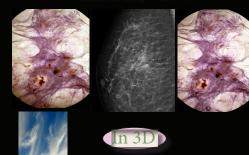
There are two main groups of diffuse breast cancers presenting on the mammogram as large regions of architectural distortion; these account for about 25% of all breast cancers and tend to have a poor outcome: 1) Neoductgenesis, i.e. "duct forming invasive carcinoma", the topic of this volume, often erroneously diagnosed as "DCIS", and 2) Diffusely infiltrating breast cancer, the topic of Vol. XI.

This volume demonstrates the DAB subgroup where the unnaturally high concentration of abnormal, tumor-filed ducts results in an asymmetric density with architectural distortion on the mammogram and often causes a palpable "thickening". Detecting architectural distortion on the mammogram and diagnosing the underlying disease correctly is a challenge for the radiologist. Breast cancers originating from the major ducts (DAB) are characterized by the formation of new, duct-like structures through the process of Neoductgenesis.

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Diffusely infiltrating breast cancer, Part 1





Extensive diffusely infiltrating breast cancer: the dominant feature is the extreme amount of connective tissue with concave contours.

This volume describes a breast cancer subtype that is a substantial challenge for the entire breast cancer team. The clinical, imaging and outcome observations indicate that diffusely infiltrating breast cancer represents a very unusual breast malignancy, regardless of whether it is E-cadherin negative or positive. All aspects of the diffusely infiltrating breast cancer suggest that it may have a site of origin different from all other breast cancers. We propose that it originates from the mesenchymal stem cells/progenitors through a complex process of epithelialmesenchymal transformation and predominantly mesenchymalepithelial transformation. Control of this unusual malignancy requires new approaches to earlier detection and entirely new therapeutic innovations.



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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

