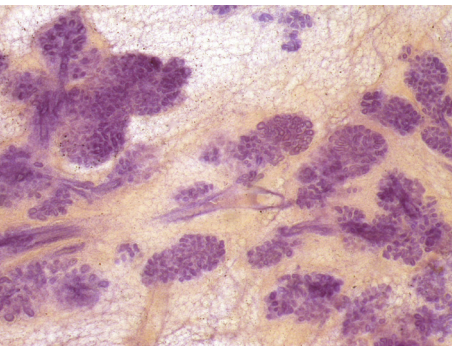
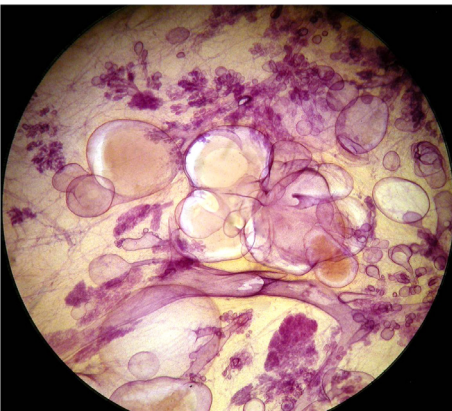
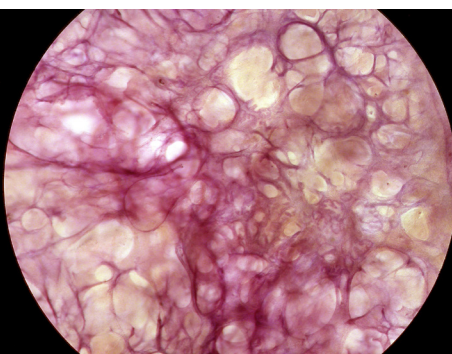




3D image of normal breast tissue



Fibrocystic change of the breast



Numerous cysts in the prostate

Designed for:
Radiologists,
Urologists

Mammography Education, Inc.

2014

Hands-on Prostate MRI Course **Multi-parametric MRI of the Prostate**

by

Professor Dr. JELLE BARENTZ
Course Director

- * **Learning to optimize the quality of prostate MRI images**
- * **Reading a mixture of normals and proven abnormalities at high resolution viewing stations**
- * **Feedback and discussion of every case by the Faculty**
- * **Learning the technique of in-bore MRI-guided biopsy of PIRADS 4-5 lesions**

Oct 27- 29, 2014

Scottsdale, Arizona

Scottsdale Plaza Hotel

7200 N. Scottsdale Road

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

This course provides extensive knowledge about diagnostic prostate imaging through personalized training in order to optimize the quality of prostate MRI images and perform structured PIRADS reading. The main focus will be on prostate MRI reading. In addition, the technique of in-bore MRI-guided biopsy of PIRADS 4-5 lesions will be demonstrated as well as MR-guided therapy will be discussed.



2014

MEI's CME SEMINAR SERIES

Hands-on prostate MRI teaching course

Professor Dr. Jelle Barentsz

Course Director

László Tabár, MD, FACR (Hon)

Course Organizer

Course Overview:

- * This Hand-on Prostate Imaging course, led by Prof. Dr. Jelle Barentsz and his team members, will offer radiologists at least 30 full field digital prostate multi-parametric MRI cases for screening, using the PIRADS scoring system.
- * Normal cases will be mixed with proven abnormal cases.
- * Some of the abnormal cases will be easy to read, others will be challenging.
- * Reading will take place at high resolution work stations.
- * During the course the attendees will progressively improve their interpretive expertise, as they learn the full spectrum of normal prostate images, with all findings explained by histopathologic outcome.
- * These skills will lead to fewer call-backs and greater confidence in reading large numbers of prostate MRI's.
- * Feedback and discussion of every case by the Faculty after every reading session.
- * Special emphasis will be placed on early detection of intermediate to high grade prostate cancers.
- * Correlative 3D histology images will reveal the similarity between the prostate and breast, "brother and sister organs".
- * Attendees will receive a unique present, a pdf copy of Prof. Barentsz's PowerPoint presentations and 5 representative cases, including full explanations and multi-parametric images with PIRADS scoring.



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MEI's CME SEMINAR SERIES
Hands-on prostate MRI teaching course

Professor Dr. Jelle Barentsz
Course Director
László Tabár, MD, FACR (Hon)
Course Organizer

Description of Radboud Prostate MR Reference Center in Nijmegen, The Netherlands (PMRC):

Prostate cancer is surpassing by the number of breast cancers diagnosed and due to an aging population has become a major health problem. Current diagnosis is suboptimal, inconvenient and imprecise. It can be improved with modern multi parametric MRI methods for detection, staging and biopsy of the prostate tumor(s). The PMRC has developed top-level expertise in the multi parametric MRI process of detection, staging and MR guided biopsies of prostate cancer. By doing so, a precise and accurate, simple and fast diagnosis of cancer can be made with subsequent minimal invasive image guided therapies. Our ambition is to treat prostate cancer effectively with only minimal side-effects.

Scientific research has shown that the specificity and sensitivity of the new method exceeds that of the standard techniques. Furthermore, a recent systematic review has shown that diagnostic MR guided biopsy of prostate tumors is accurate and safe. The PMRC has become a leader in the clinical use of these techniques and implemented them as a Center of Excellence (CoE), performing over 2,500 prostate MR-exams and >500 MR-guided biopsies per year. PMRC's ambition is to establish a network of CoE's all over the world and does this, as a reference center, by training other centers how to provide state of the art multi parametric prostate MRI techniques and diagnostics, thus ensuring quality management for the network as a whole.

Program Objectives:

1. Learn the full spectrum of multi-parametric Prostate MRI diagnosis through detailed explanation of selected cases.
2. Progressive improvement of the attendees' interpretive expertise with the PIRADS scoring system.
3. Increase confidence in reading large numbers of multi-parametric MRI's
4. Improve skills in early detection of intermediate to high grade prostate cancers.
5. Appreciate the clinical relevance of multi-parametric MRI.
6. Emphasize the importance of multimodality approach to workup cases in a multidisciplinary environment.



2014

MEI's CME SEMINAR SERIES

Hands-on prostate MRI teaching course

Professor Dr. Jelle Barentsz

Course Director

László Tabár, MD, FACR (Hon)

Course Organizer

FACULTY



Professor Dr. Jelle Barentsz

Course Director

Professor of Radiology, Chair of Radboud

Prostate MR Reference Center

Radboud University Medical Center, Nijmegen,

The Netherlands



László Tabár, MD., FACR (Hon).

Course Organizer

Professor emeritus of Radiology,

Department of Mammography,

Falun Central Hospital, Falun, Sweden



2014

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Hands-on prostate MRI teaching course

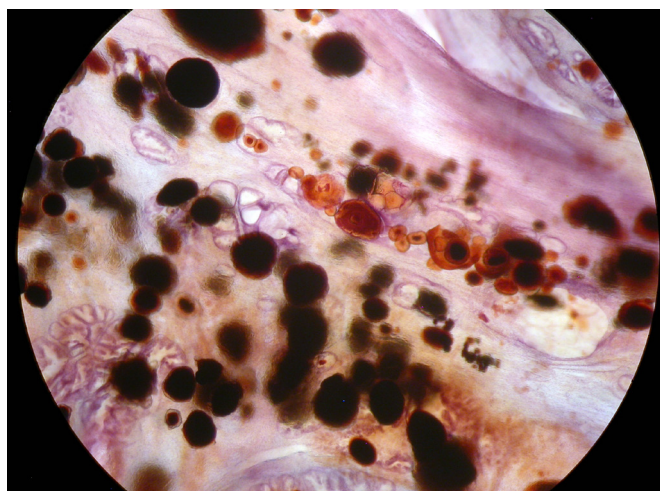
Professor Dr. Jelle Barentsz
Course Director
László Tabár, MD, FACR (Hon)
Course Organizer

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CREDITS

We would like to thank Invivo for providing the viewing stations and the engineering expertise at this teaching seminar.

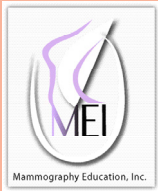


3D histology image of prostate calculi and amyloid bodies



Pomegranate





2014

MEI's CME SEMINAR SERIES
Hands-on prostate MRI teaching course

Professor Dr. Jelle Barentsz
Course Director
László Tabár, MD, FACR (Hon)
Course Organizer

1st DAY

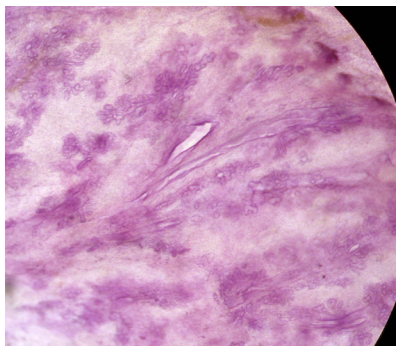
Lectures between 8:40 AM and 12:00 PM for all attendees

8:30 INTRODUCTION

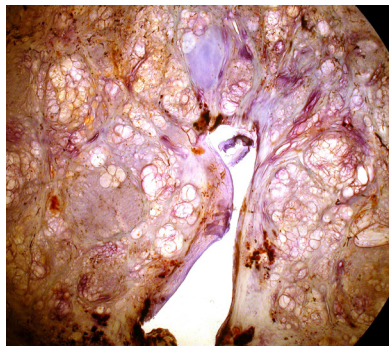
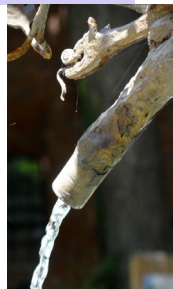
8:40 DIDACTIC LECTURES COVERING:

- "Prostate and breast: Brother and sister organs" - [L Tabar](#)
- Theory of Prostate MRI - [J Barentsz](#)

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



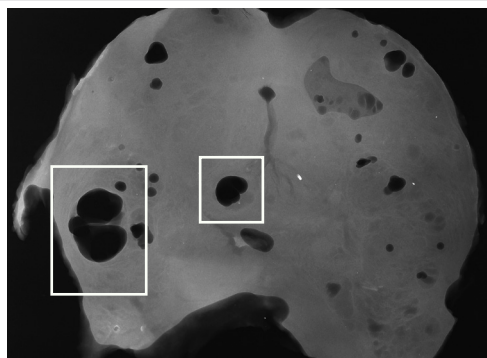
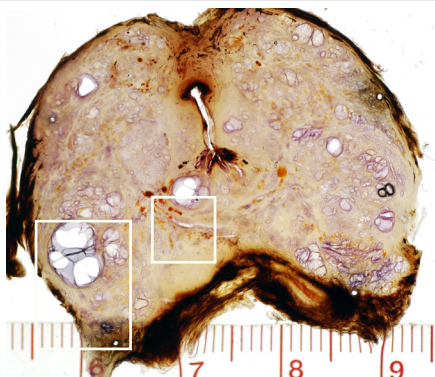
3D histology of normal prostate tissue



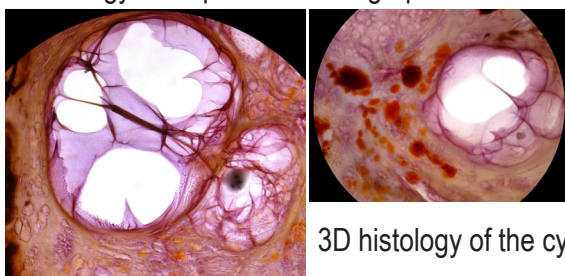
Benign prostate hyperplasia and cysts



- Introduction to ProCAD - [J Barentsz](#)



3D histology and specimen radiograph of a total prostatectomy specimen containing multiloculated cysts



3D histology of the cysts

Lunch 12:30 PM - 1:30 PM



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MEI's CME SEMINAR SERIES
Hands-on prostate MRI teaching course

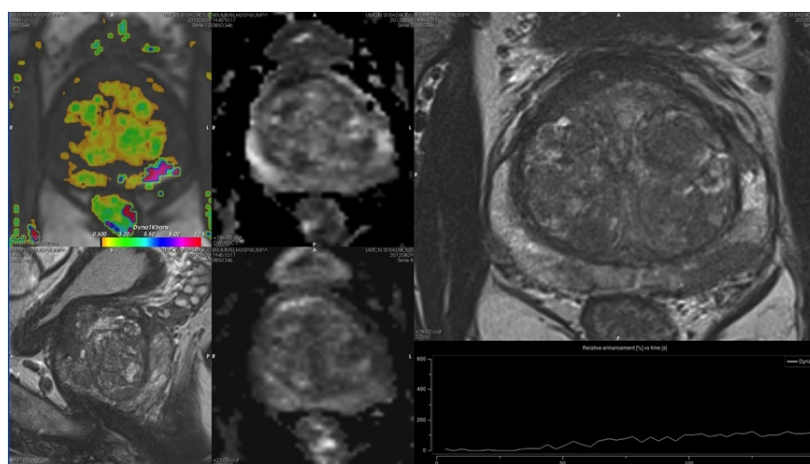
Professor Dr. Jelle Barentsz
Course Director
László Tabár, MD, FACR (Hon)
Course Organizer

1st DAY

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

1:30 - 2:15 **GROUP 1** HANDS ON SCREENING. *SESSION 1.*

1:30 - 2:15 **GROUP 2:** DEMONSTRATION AND DISCUSSION OF "COMPLEX CASES".
Faculty-audience interaction



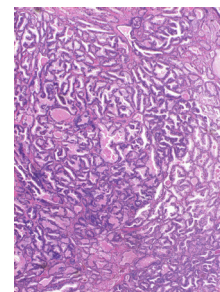
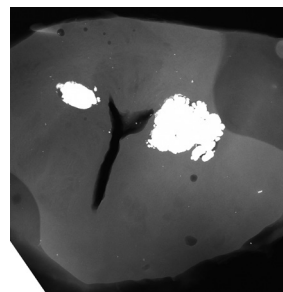
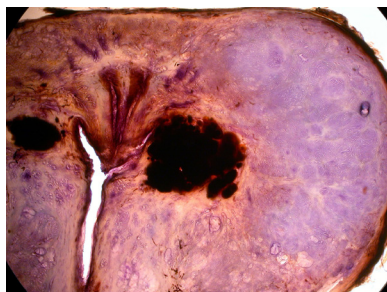
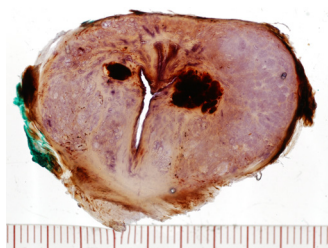
Breaks: 2:15 - 2:30 PM
and 3:45 - 4:00 PM

Hands-on training in screening

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

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

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



3D histology, specimen radiograph and conventional low power histology of this AAP

5:00 PM End of Day 1



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Hands-on prostate MRI teaching course

Professor Dr. Jelle Barentsz
Course Director
László Tabár, MD, FACR (Hon)
Course Organizer

2nd DAY

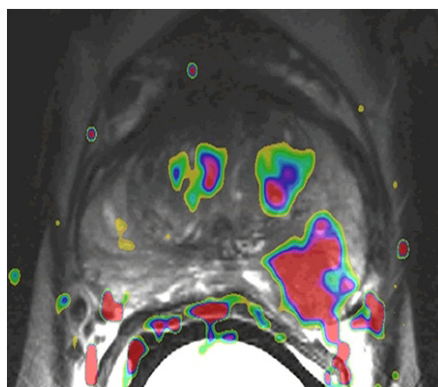
Hands-on screening and didactic lecture series 8:30 AM - 12:00 PM

8:30 - 9:30 GROUP 1 HANDS ON SCREENING. SESSION 2.

8:30 - 9:30 GROUP 2: DIDACTIC LECTURE SERIES COVERING THE FOLLOWING TOPICS:
DISCUSSION OF COMPLEX CASES. [Faculty-audience interaction.](#)

Breaks

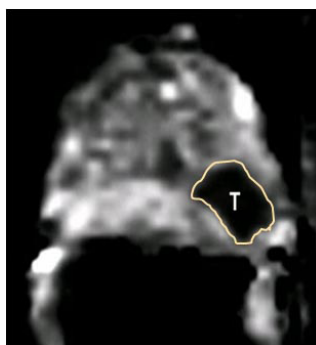
9:30 - 9:45 AM and
10:45 - 11:00 AM



Prostate DCE

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

9:45 - 10:45 GROUP 1: DIDACTIC LECTURE SERIES COVERING THE FOLLOWING TOPICS:
DISCUSSION OF COMPLEX CASES. [Faculty-audience interaction.](#)



Prostate DWI

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

Lunch 12:00 PM - 1:00 PM



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Hands-on prostate MRI teaching course

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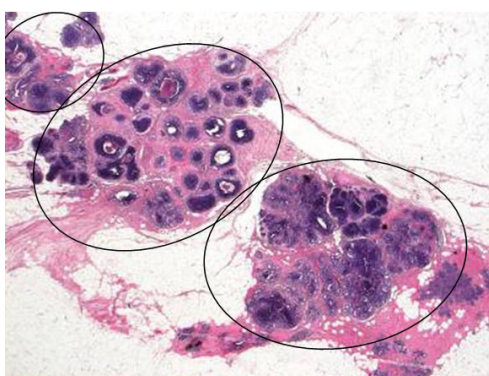
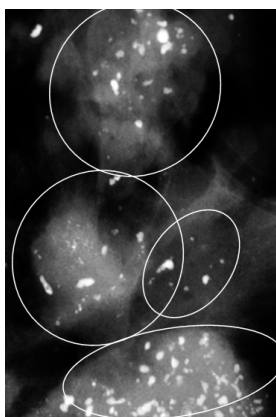
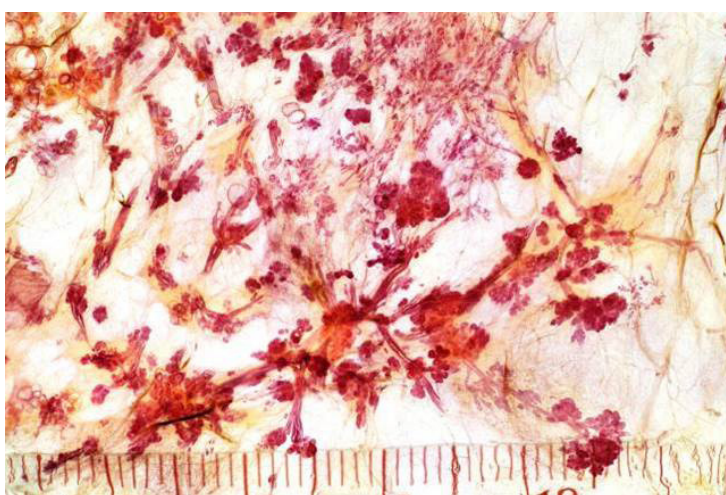
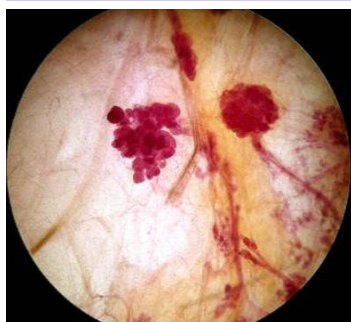
2nd DAY

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

1:00 - 2:00 **GROUP 1** HANDS ON SCREENING. SESSION 3.

1:00 - 2:00 **GROUP 2:** DIDACTIC LECTURE SERIES COVERING THE FOLLOWING TOPICS:
A proposal to unify the classification of prostate and breast cancers- [L Tabar](#)

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



In situ Anicar
Adenocarcinoma of
the Breast (AAB)
within the TDLU
(NOT DCIS!)

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

2:15 - 3:15 **GROUP 1:** DIDACTIC LECTURE SERIES COVERING THE FOLLOWING TOPICS:
A proposal to unify the classification of prostate and breast cancers- [L Tabar](#)

3:30 - 5:00 **GROUPS 1 & 2:** DISCUSSION OF THE SCREENING CASES OF SESSION 3 and
LECTURES OF THE MORNING SESSION

End of Day 2



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Hands-on prostate MRI teaching course

Professor Dr. Jelle Barentsz

Course Director

László Tabár, MD, FACR (Hon)

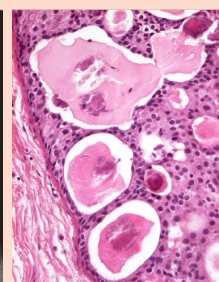
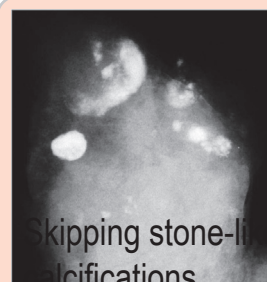
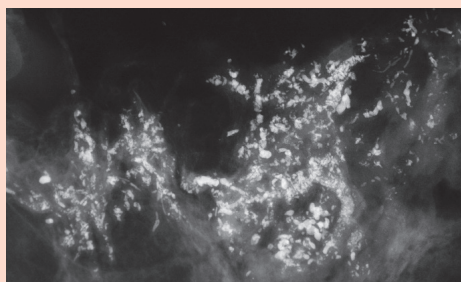
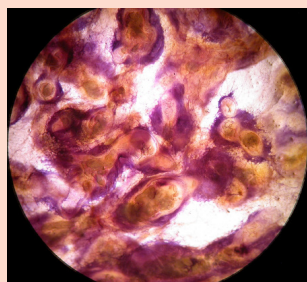
Course Organizer

3rd DAY

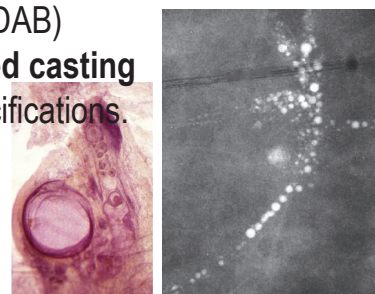
Hands-on screening and didactic lecture series 8:00 AM- 12:00 PM

8:30 - 9:30 GROUP 1 HANDS ON SCREENING. SESSION 4.

8:30 - 9:30 GROUP 2: DIDACTIC LECTURE SERIES COVERING THE FOLLOWING TOPICS:
DISCUSSION OF COMPLEX PROSTATE CANCER CASES. PART II.



The four different subtypes of Ductal Adenocarcinoma of the Breast (DAB) presenting calcifications on the mammogram: **Fragmented** and **dotted casting** type calcifications, **skipping stone-like** and **string of pearls-like** calcifications.



Pearl necklace-like calcifications

Breaks

9:30 - 9:45 AM and
10:45 - 11:00 AM

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

9:45 - 10:45 GROUP 2: DIDACTIC LECTURE SERIES COVERING THE FOLLOWING TOPICS:
DISCUSSION OF COMPLEX PROSTATE CANCER CASES. PART II.

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

Lunch 12:00 PM - 1:00 PM



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Hands-on prostate MRI teaching course

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

3rd DAY

MRI-guided prostate biopsy

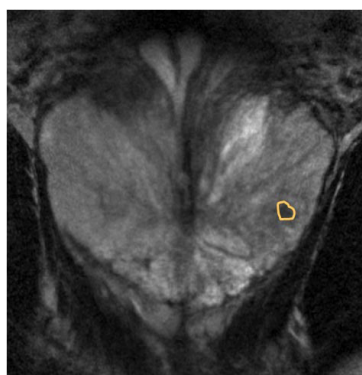
1:00 PM - 4:00 PM

1:00 - 4:00 MRI GUIDED PROSTATE BIOPSY OF PIRADS 4 - 5 LESIONS. - J Barentsz

MRI GUIDED THERAPY.- J Barentsz

Break

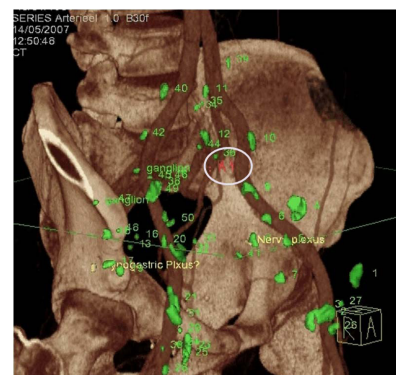
2:15 - 2:30 PM



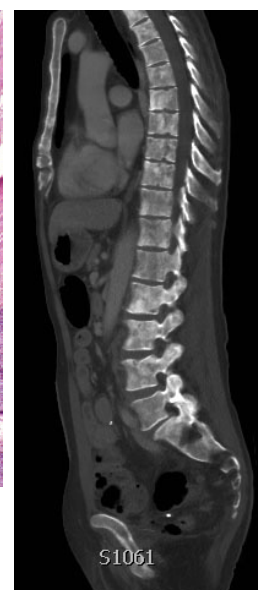
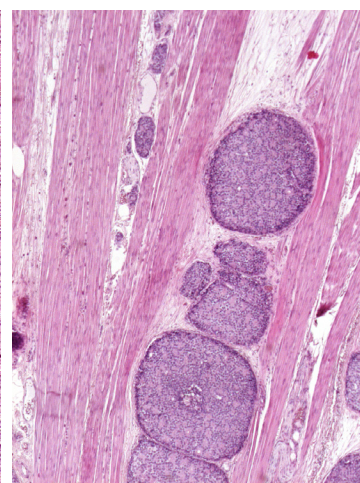
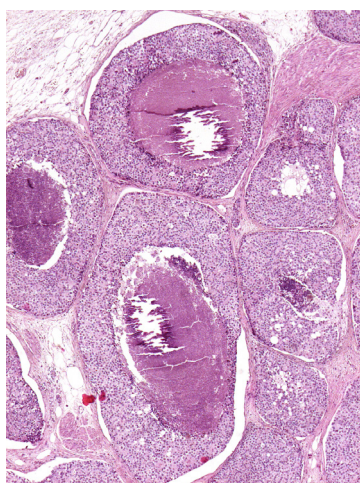
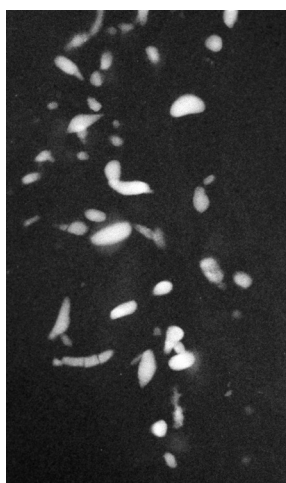
Prostate T2W



Professor Dr. Jelle Barentsz



Nano klier



Specimen radiograph and histology image of a ductal adenocarcinoma of the prostate (DAP). This fatal prostate cancer infiltrated the muscles of the urinary bladder and spread to the bones.

DISCUSSION. 4:00 PM End of Course



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MEI's CME SEMINAR SERIES
Hands-on prostate MRI teaching course

Professor Dr. Jelle Barentsz
Course Director
László Tabár, MD, FACR (Hon)
Course Organizer

For more information and
registration please contact:

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

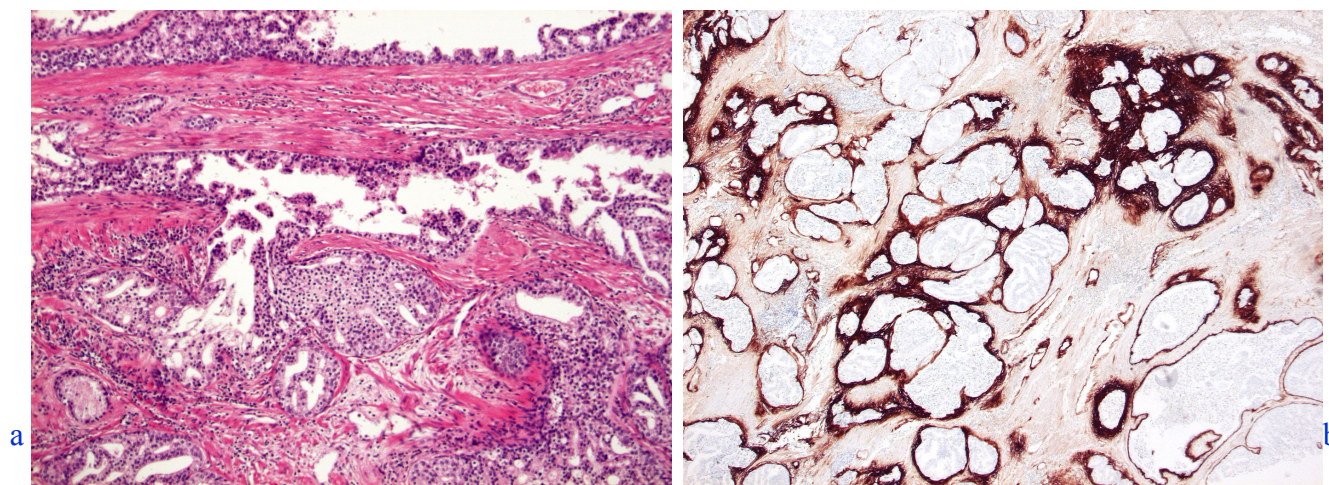
Phone: (480) 419 0227

Fax: (480) 419 0219

e-mail: info@mammographyed.com

Internet: www.mammographyed.com

Hotel room booking directly with the hotel



Conventional large section histology image (a) of a ductal adenocarcinoma of the prostate (DAP). Tenascin staining (b) confirms that the cancerous duct is the result of neoductgenesis.

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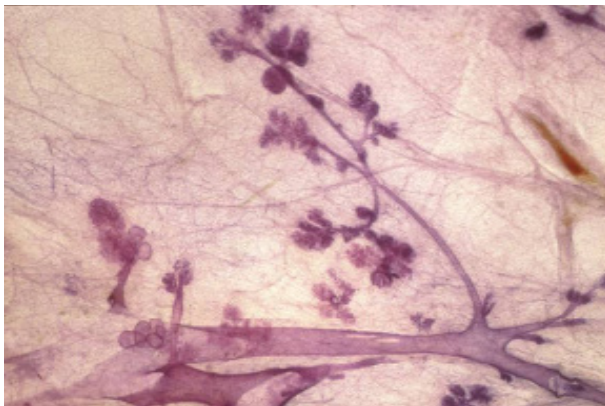
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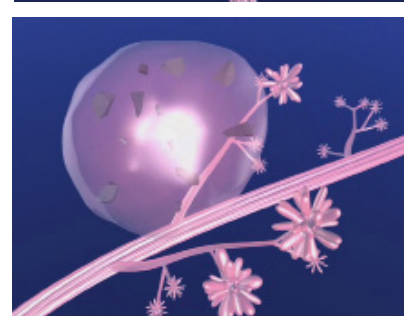
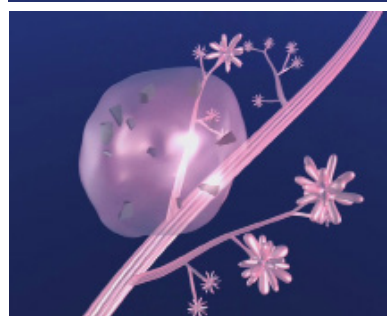
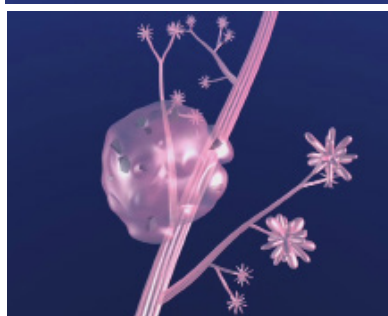
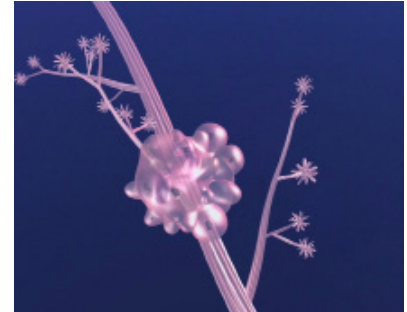
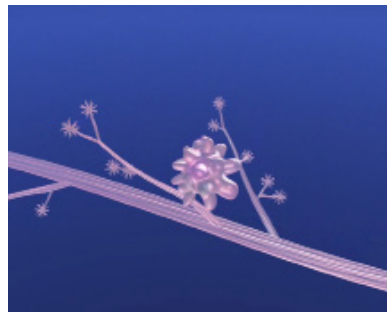
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3-D histologic image of TDLUs



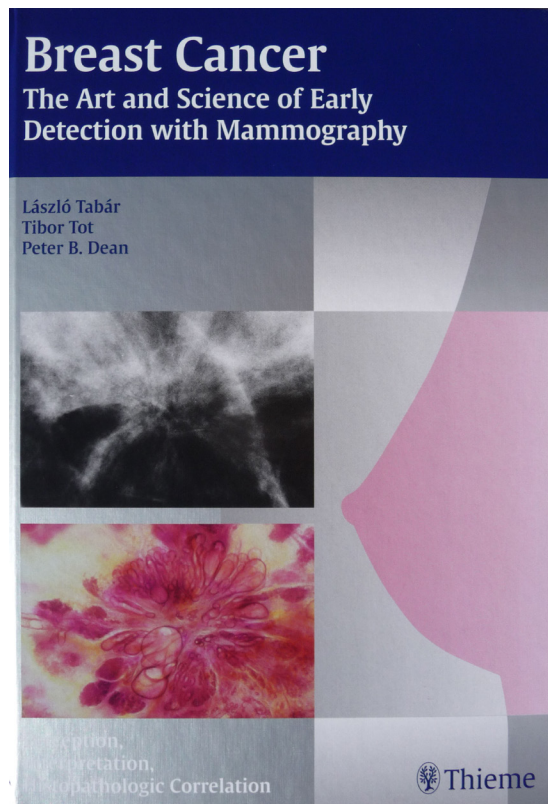
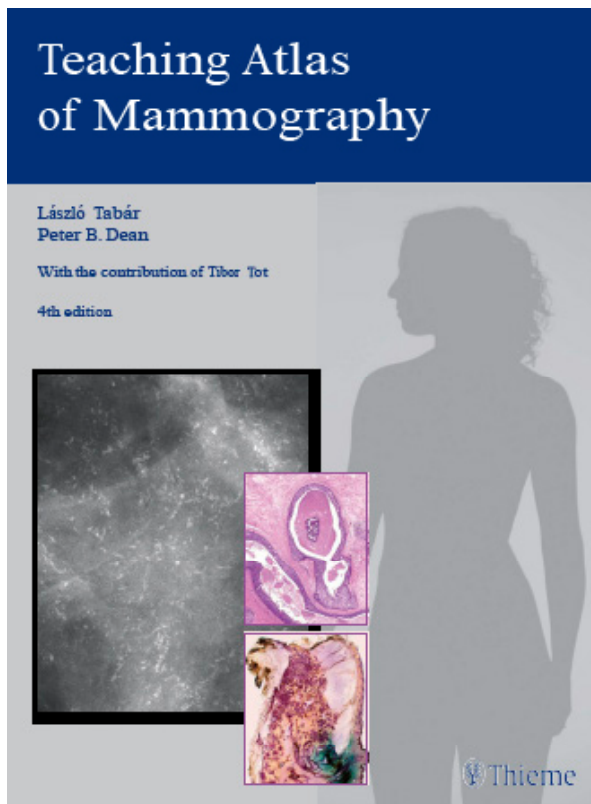
Computer simulation images of the development of Grade 2 *in situ* carcinoma within the TDLU. The lobule becomes gradually distended and deformed. Calcifications are formed within the necrotic debris and are seen on the mammogram as **crushed stone-like calcifications**.



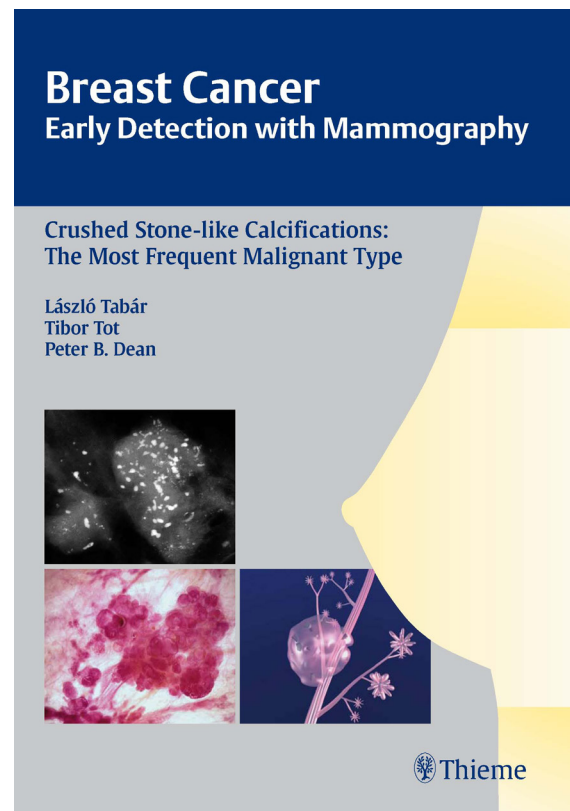
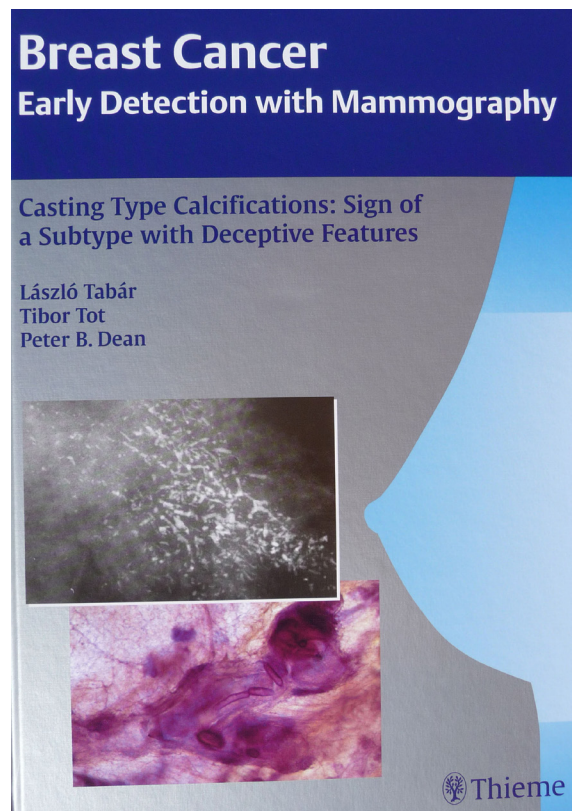
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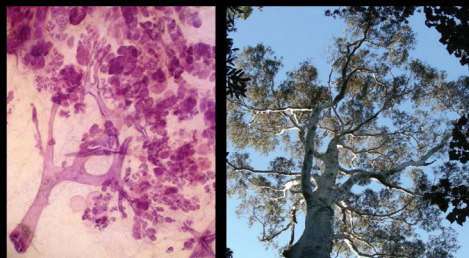


2014

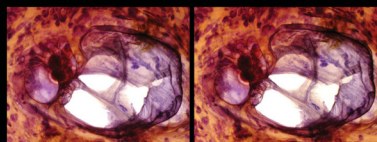
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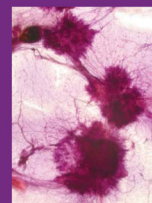
László Tabár, MD
Tibor Tot, MD, Peter B. Dean, MD



Understanding the Breast in Health and Disease



In 3D



Multifocal breast cancer



Sea urchins

In 3D



In situ ductal carcinoma

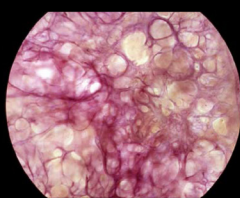


Banana flower

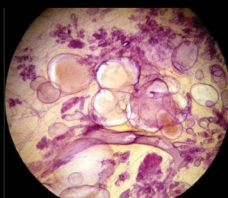
The basic structural elements of the female breasts are illustrated here in true 3-dimensional (3D) images and described in this Volume I by three breast cancer experts with decades of experience in the diagnosis of breast diseases. These images provide the best way to understand the great variability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

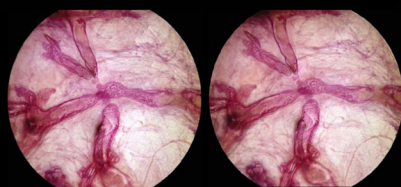


cysts in a prostate



breast cysts

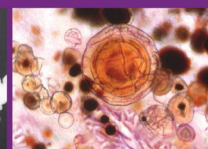
Prostate and Breast: Brother and Sister Organs



In 3D



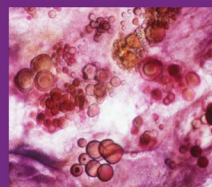
Prostate calcifications



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.