

## Faculty

### Elmhurst Hospital

Azriel Benaroya, MD

### University of Brno

Lubos Hrazdira, MD, PhD

### R&D for Kreiztechnique &GE

Jaroslav Satrapa, PhD

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**VENUE: Elmhurst Hospital Center**  
79-01 Broadway, Elmhurst, NY, 11364  
Conference Room E6-- 11  
**Parking:** Elmhurst Hospital Garage at  
43<sup>rd</sup> Ave X 78<sup>th</sup> Street

## PRINCIPLES OF 3D ULTRASOUND AND BI-MODAL MUSCULOSKELETAL ULTRASOUND WORKSHOP

Elmhurst Hospital Center  
The Mount Sinai Hospital  
Department of Orthopaedics

May 21<sup>st</sup>, 2006  
8:00AM – 5:30PM

## 3D Ultrasound: Basic Concepts

**Lubos Hrazdira, MD**  
**Jaroslav Satrapa, PhD**

7:30 – 8:00AM Registration

8:00–8:20AM History: from US quality control to 3D US

8:20–8:40AM Principles of 3D in Ultrasound

8:40–9:00AM Attributes of 3D Ultrasound

9:00–9:20AM Advantages of 3D Ultrasound

9:20-10:00AM Spatial Reconstruction of the Sonographic Images

10:00–10:30AM Free-hand acquisition  
vs.  
automated image acquisition

10:30–10:45AM Current application of the TCC

10:45 –11:15AM Demonstration of clinical cases and hands-on training

## Musculoskeletal Ultrasound Workshop

11:15–11:30PM Concepts of MSUS:  
**Lubos Hrazdira, MD**

11:30 –12:00PM MSUS in daily clinical practice:  
*Rheumatology, Orthopedics,  
Oncology and Sports Medicine*  
**Lubos Hrazdira, MD**

**LUNCH: 12:00 – 12:30**

12:30 – 1:00PM Soft tissues: imaging of pathological structures  
**Lubos Hrazdira, MD**

1:00 – 1:20PM Bone structures ultrasonography: an algorithm of the examination of the musculoskeletal system  
**Lubos Hrazdira, MD**

1:30–2:00PM Joint ultrasonography: a review of shoulder, elbow, wrist, hand hip, knee, foot and ankle US  
**Lubos Hrazdira, MD**

2:00 – 2:30PM Forced positions of US of the shoulder, knee, and ankle; Use of the “EXK-250 ankle distractor for assessment of ankle stability under US imaging  
**Lubos Hrazdira, MD**

2:30-3:00PM Invasive ultrasound techniques  
**Lubos Hrazdira, MD**

12:30 – 1:00PM Lunch

## Hans-on Workshops

**Lubos Hrazdira, MD**  
**Jaroslav Satrapa, PhD**  
**Azriel Benaroya, MD**

### 3D US workshop

Jaroslav Satrapa, PhD

12:30–5:30PM Q & A; demonstration of 3D US applications using TCC software-hardware package:Image acquisition and 3D image rendering: hands-on sessions.

### MSUS diagnostic workshop

**Lubos Hrazdira, MD**

3:00 –5:30PM MSUS workshop – hands-on training on examination of the musculoskeletal system

### MSUS invasive workshop

**Azriel Benaroya, MD**

2:30–5:30PM FB localization; aspiration and injection techniques under US guidance:  
Invasive MSUS techniques



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# MOUNT SINAI SERVICES

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Elmhurst Hospital Center

79-01 Broadway, Elmhurst, N.Y. 11373

May 24, 2006

Lubos Hrazdira, M.D.  
Department of Orthopaedics  
University of Hospital Brno  
Pekarska 53  
656091 Brno. Czech Republic

Dear Dr. Hrazdira:

On behalf of the faculty and residents of the Department of Rehabilitation Medicine, we would like to express our appreciation for your presentation and workshop on the use of ultrasound in musculoskeletal and other disorders.

With these presentations serving as a starting point, the staff is anxious to develop experience and eventually expertise in the use of these techniques and to incorporate them into their practice.

The staff considers themselves fortunate to have been introduced to this subject by an individual with your level of experience and knowledge

Sincerely,



Jerry Weissman, MD  
Associate Professor of Rehabilitation Medicine  
Mount Sinai School of Medicine

JW:cr



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# MOUNT SINAI SERVICES

OF THE MOUNT SINAI SCHOOL OF MEDICINE

Elmhurst Hospital Center • 79-01 Broadway, Elmhurst, N.Y. 11373

May 25, 2006

**Lubos Hrazdira, MD, PhD**

Dear Dr. Hrazdira,

Thank you for participating in the Elmhurst 3-D Ultrasound Symposium on May 21, 2006. The event was a phenomenal success, and we would like to thank you for taking time out of your busy schedule to attend and lecture at the event.

The conference was well attended, with 15 registered participants. It was very informative to hear different perspectives on the various topics, and we hope that this fostered discussion and learning among our colleagues. The course evaluations were very positive, and the participants said that they would welcome a repeat of the series at a later date.

With much gratitude,

Azriel Benaroya, MD  
Department of Orthopedics

Edward Yang, MD  
Director, Department of Orthopaedics