

**4th Biannual Ultrasound Guided Regional Anesthesia Workshop,  
MD Anderson Cancer Center, Houston, Texas, USA  
July 28th & 29th, 2007**

**Saturday, 28<sup>th</sup> July 2007**

07:30 AM	08:00 AM	Breakfast
08:00 AM	09:00 AM	History of Regional Anesthesia
09:00 AM	10:00 AM	Basics of Ultrasound Physics and Practical Aspects of Using Ultrasound Machine & Image Recognition
10:00 AM	10:15 AM	Coffee & Snack Break
10:15 AM	12:30 PM	Multiple Screen Multimedia Presentations for Upper Limb: Demonstration of Upper Limb Cadaver Anatomy Review of Upper Limb Nerve Blocks Demonstration of Surface Land Marks & Ultrasound Technique & Images Upper Limb Nerves on Human Volunteer
12:30 PM	01:30 PM	Lunch
01:30 PM	03:30 PM	Multiple Screen Multimedia Presentations for Lower Limb: Demonstration of Lower Limb Cadaver Anatomy Review of Lower Limb Nerve Blocks Demonstration of Surface Land Marks & Ultrasound Technique & Images Lower Limb Nerves on Human Volunteer
03:30 PM	05:00 PM	Demonstration of Ultrasound Guided Rescue Blocks on Human Volunteer (Rectus Sheath Block, Transverse Abdominal Block, Intercostal Block Para-vertebral Block, Localization of Epidural Space)
05:00 PM	05:30 PM	Panel Discussion
05:00 PM		Adjourn

**Sunday, 29<sup>th</sup> July 2007**

07:30 AM	08:00 AM	Breakfast
08:00 AM	08:45 AM	Stimulating Catheters & Tunneling
08:45 AM	09:30 AM	Assessment of Block, Optimization of Post-op Pain Control
09:30 AM	10:15 AM	Complications of Regional Anesthesia
10:15 AM	10:30 AM	Snack & Coffee Break
10:30 AM	04:30 PM	Hands On Sessions in Small Groups (Divide in to Batch A & B) Human Volunteer Stations: Hands On Practice of Ultrasound Guided Regional Anesthesia (Before Lunch: Batch A) (After Lunch: Batch B)  Anesthetized Pigs: Hands On Practice Stimulating Catheters, Ultrasound Guided Localization of Nerves, Vascular access, Tunneling Technique, Ultrasound Guided Identification of Intercostal Space, Peritoneum & Pleura, Hydro dissection (Before Lunch: Batch B) (After Lunch: Batch A)
01:00 PM	02:00 PM	Lunch (Hickey Auditorium)
04:30 PM	05:00 PM	Panel Discussion

**Adjourn at 5 PM**

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Look in Up-coming Workshops Section in Our Department Website:  
<http://www.mdanderson.org/departments/anesthesia/>

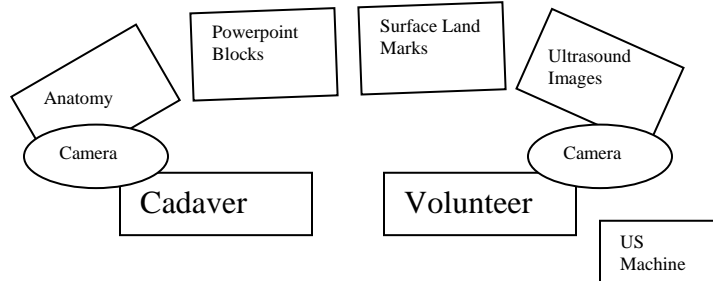
**Organizers:**  
Dr. David L Brown  
Dr. Krishna Boddu  
Dr. Vijay Gottumukkala

# Teaching Structure for Multiple Screen Multimedia Presentations for Upper Limb: Drs. Grasu, Koyyalagunta, Gadsden

Saturday 28<sup>th</sup> July 2007

10:15 AM      12:30 PM      **Multiple Screen Multimedia Presentations for Upper Limb:  
Demonstration of Upper Limb Cadaver Anatomy  
Review of Upper Limb Nerve Blocks  
Demonstration of Surface Land Marks &  
Ultrasound Technique & Images Upper Limb Nerves on Human Volunteer**

**Stage arrangement: There will be four projectors and four screens as shown below.**



**Dr. Grasu (total 60 min presentation). Dr. Grasu will give an over view on formation of Bracheal Plexus, relations and course of the nerves in the neck, periclavicular area and in upper arm with a focus on applied aspects of anatomy along with power point presentation of the conventional upper limb blocks. It will be coordinated anatomy and power point presentation of conventional blocks to provide better understanding.**

**On completion of anatomy and blocks over view session, Dr. Grasu will help to coordinate cadaver anatomy demonstration with Dr. Gadsden (75 min) who will be teaching surface land marks and ultrasound localization of upper limb blocks on human volunteer appropriately referring back to cadaver anatomy as and when it is required for participants to get good understanding about the upper limb blocks.**

**Dr. Koyyalagunta will be working with Dr. Gadsden in this session by helping him with ultrasound machine, probes, human volunteer etc.**

**In this session, the following blocks will be covered:**

- Interscaline
- Periclavicular (both supra and infra clavicular)
- Axillary Plexus
- Blocks at Elbow
- Wrist Block (if time permits)

**All the three instructors of this session will be communicating with each other either over phone or by having a teleconference to come up with a plan that makes this multi screen multi tutor teaching a best learning experience to our workshop participants.**

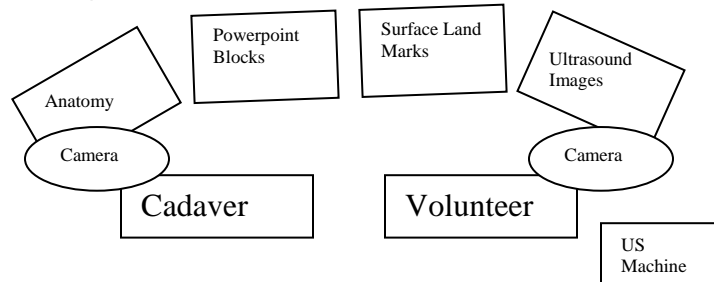
# Teaching Structure for Multiple Screen Multimedia Presentations for Lower Limb:

Drs. Mena, Lipski, Ganapathy

Saturday 28<sup>th</sup> July 2007

01:30 PM      03:30 PM      **Multiple Screen Multimedia Presentations for Lower Limb:  
Demonstration of Lower Limb Cadaver Anatomy  
Review of Lower Limb Nerve Blocks  
Demonstration of Surface Land Marks &  
Ultrasound Technique & Images Lower Limb Nerves on Human Volunteer**

**Stage arrangement: There will be four projectors and four screens as shown below.**



**Dr. Mena (total 45 min presentation).** Dr. Mena will give an over view on formation of Lumbo sacral plexus, relations and course of the nerves in the lower limb with a focus on applied aspects of anatomy along with power point presentation of the conventional lower limb blocks. It would be a coordinated anatomy and power point presentation of conventional blocks to provide better understanding.

On completion of anatomy and blocks over view session, Dr. Mena will help to coordinate cadaver anatomy demonstration with Dr. Ganapathy (75 min) who will be teaching surface land marks and ultrasound localization of lower limb blocks on human volunteer appropriately referring back to cadaver anatomy as and when it is required for participants to get good understanding about the upper limb blocks.

Dr. Lipski will be working with Dr. Ganapathy in this session by helping Dr. Ganapathy with ultrasound machine, probes, human volunteer etc.

**In this session, the following blocks will be covered:**

- Femoral Nerve Block
- Sciatic Nerve Blocks (different approaches)

All the three instructors of this session will be communicating with each other either over phone or by having a teleconference to come up with a plan that makes this multi screen multi tutor teaching a best learning experience to our workshop participants.

## Hands On Human Volunteer Stations for Ultrasound Guided Upper Limb Nerve Blocks:

Sunday 29<sup>th</sup> July 2007

10:30 AM to 11:45 AM (Batch A1)    11:45 AM to 01:00 PM (Batch A2)  
02:00 PM to 03:15 PM (Batch B1)    03:15 PM to 04:30 PM (Batch B2)

**Sonosite Micromax Machines**

**Hands On Practice of Ultrasound Guided Localization of Upper Limb Nerves:**  
(participants are expected to practice on human volunteers to locate nerves with ultrasound)

**4 Human Volunteer Stations for Upper Limb Blocks with one instructor and one sonologist at each station.**

## Hands On Human Volunteer Stations for Ultrasound Guided Lower Limb Nerve Blocks:

Sunday 29<sup>th</sup> July 2007

10:30 AM to 11:45 AM (Batch A2)    11:45 AM to 01:00 PM (Batch A1)  
02:00 PM to 03:15 PM (Batch B2)    03:15 PM to 04:30 PM (Batch B1)

**GE 4D Machines**

**Hands On Practice of Ultrasound Guided Localization of Lower Limb Nerves:**  
(participants are expected to practice on human volunteers to locate nerves with ultrasound)

**4 Human Volunteer Stations for Lower Limb Blocks with one instructor and one sonologist at each station.**

# Hands On Anesthetized Pig Stations for Ultrasound Guided Nerve Blocks:

**Sunday 29<sup>th</sup> July  
2007**

**Animal Lab: (Batch B: divided as B1, B2, B3, B4, B5, and B6): 10:30 AM to 01:00 PM  
(Batch A: divided as A1, A2, A3, A4, A5, and A6): 02:00 PM to 04:30 PM**

## **Pig Station 1 & 2**

Ultrasound Guided Localization of Nerves

## **Pig Station 3 & 4**

Hands on session of Localization of Nerves using Nerve Stimulator, Practice of Placing Stimulating Catheters and Tunneling Catheters

Demonstration of Ultrasound Guided Vascular Access, Ultrasound Guided Identification of Intercostal Space, Peritoneum & Pleura

## **All Stations 1- 5**

Last 15 min of the session

All participants to stay where they are to perform hands on ultrasound guided vascular access and hydrodissection

**Batch B (B1, B2, B3, B4, B5, B6)**

10:30am to  
11:15am

11:15am to  
12:00noon

12:00noon to  
12:45pm

12:45pm to  
01:00pm

Lunch both Batch A & B 01:00pm to 02:00pm (Hickey Auditorium R:11)

**Batch A (A1, A2, A3, A4, A5, A6)**

02:00pm to  
02:45pm

02:45pm to  
03:30pm

03:30pm to  
04:15pm

04:15pm to  
04:30pm

### **Pig Station 1**

B1  
A1

B3  
A3

B5  
A5

Stay where you  
are

### **Pig Station 2**

B2  
A2

B4  
A4

B6  
A6

Stay where you  
are

### **Pig Station 3**

B3  
A3

B5  
A5

B1  
A1

Stay where you  
are

### **Pig Station 4**

B4  
A4

B6  
A6

B2  
A2

Stay where you  
are

### **Pig Station 5**

B5 & B6  
A5 & A6

B1 & B2  
A1 & A2

B3 & B4  
A3 & A4

Stay where you  
are

For Batch B: 12:45pm to 01:00pm

For Batch A: 04:15pm to 04:30pm

All participants to stay where they are to perform hands on ultrasound guided vascular access and hydrodissection