

TIME	TOPICS
8.00-8.30am	Pre-test
8.30-9.00 am	Disaster Management: Introduction, Opportunities and challenges
9.00-9.30 am	Knobology: Know your Machine
9.30-9.55 am	Airway Ultrasound: Airway injury, Neck Hematoma, ET-Tube confirmation, US-guided Needle Cricothyroidotomy
9.55-10.15 am	Breathing Ultrasound: Pneumothorax (Tension or Simple), Hemothorax
10.15-10.30 am	<b>Coffee Break and Move to Skill station</b>
10.30-11.30 am	<b>Hands-on Training session:</b> Knobology, Airway, Breathing
11.30-12.00	Circulation: E-FAST & IVC
12.00-1.00 pm	US Hands on: E-FAST & IVC
1.00-1.45 pm	<b>Lunch</b>
1.45-2.00 pm	Disability: Skull fracture, ONSD (Non-Invasive ICP monitoring)
2.00-2.25 pm	Extremity (Musculoskeletal USG): Long bone fracture detection, Nerve Blocks for field amputation
2.25-2.35 pm	<b>Coffee break and Move to Skill station</b>
2.35-3.35 pm	<b>Hands-on Training session:</b> Fracture Detection, Nerve localization (Brachial Plexus, Fascia illiaca Block) live models
3.35-4.15 pm	Traige & Sono triage – Discussion
4.15-5.15 pm	Mega code: Simulated Disaster scenario management with POC ultrasound. (Hands-on Training session)
5.15-5.45 pm	Post-test & Feedback
5.45-6.00 pm	Certification and Closure

## Objective

### BASICS OF ULTRASOUND:

- Basic physics of ultrasound
- Different buttons/knobs, probe orientation, Imaging modes, gain & depth setting, ultrasound artifacts and
- Image optimization, recording, reporting and image transfer by cost effective technology.

### Airway Ultrasound

- Ultrasound anatomy of airway,
- Identification of Tracheal injury and Threatened airway,
- ET- tube confirmation, Dynamic Intubation,
- USG guided Procedures- Needle cricothyroidotomy and Tracheostomy.
- These topics will have video presentation.

Integration of Airway ultrasound during the period of rescue to resuscitation for empowering triage and critical management decisions **(CMG)**.

### Lung Ultrasound:

- Method of doing lung ultrasound & Ultrasound lung signs,
- Identification of pneumothorax & hemothorax,
- The topics will feature video presentation.

Integration of Lung ultrasound during the period of rescue to resuscitation for empowering triage and critical management decisions **(CMG)**.

### Extended FAST & Inferior Vena cava (IVC) :

- **E-FAST:** Four windows of FAST (subxiphoid, right upper quadrant, left upper quadrant and suprapubic view) & concept of extended FAST.

12-15 JANUARY 2020 | Hilton Hotel, Tel Aviv, Israel  
Observe and Participate in a Large Scale Regional Mass Casualties Drill

- **IVC:** Method of Inferior vena cava (IVC) ultrasound, IVC diameter measurement and correlation with volume status of patient. Video demonstration of hypovolemic, rigid and normal IVC.
- These will feature normal and pathological video presentation.

Integration of E-FAST & IVC during the period of rescue to resuscitation for empowering triage and critical management decisions **(CMG)**.

Disability Assessment:

- Identification of skull fracture,
- Method of Optic nerve sheath diameter assessment and its use for assessment of raised intra-cranial pressure.

Integration of disability assessment during the period of rescue to resuscitation for empowering triage and critical management decisions **(CMG)**.

Extremity [Musculoskeletal (MSK)] Ultrasound:

- Long bone fracture detection,
- Nerve Blocks (mainly brachial plexus, and fascia Iliaca Block) for field amputation.

Integration of MSK ultrasound during the period of rescue to resuscitation for empowering triage and critical management decisions **(CMG)**.

- Fracture Detection Method,
- Nerve localization (Brachial Plexus, Femoral and Sciatic Nr)

Triage & Sono triage – Discussion

Participants will be given different case scenarios and will be asked to take the triage decisions without ultrasound and then how integration of POC ultrasound changes the triage decision.

Mega code:

Simulated Disaster scenario management with POC ultrasound. (Hands-on Training session)