



Society for Emergency  
Medicine India



*India's 1st International Conference  
on Emergency Care in Extreme  
Environments and Space Medicine.*

# **SEMI ExEM & Space Medicine Conference 2025**



## **Pre-Conference Workshops**

 **August 21<sup>st</sup>, 2025**

 **Sparsh Super Speciality Hospital**  
146, Infantry Rd, Vasanth Nagar, Bengaluru,  
Karnataka 560001

## **Conference**

 **August 22<sup>nd</sup>, 2025**

 **Hotel Four Seasons, Embassy One**  
8, Bellary Rd, Dena Bank Colony, Ganganagar,  
Bengaluru, Karnataka 560032

For Registrations contact: **Dr. Praneeth, +91 8121 058 989**

Organised by



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**WORLD EXTREME MEDICINE**

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## Welcome to Frontiers in Extreme Medicine and Space Medicine!

Join leading **experts**, researchers, clinicians, and **healthcare professional** at **SEMI's Extreme Medicine & Space Medicine** conference. This premier event will delve into the cutting-edge advancements, challenges, and opportunities in safeguarding human health in extreme pre-hospital environments, mountains, **wilderness, remote expeditions, space exploration** and beyond. From understanding the physiological effects of microgravity to developing innovative countermeasures and **preparing for long-duration expeditions**, this conference is your gateway to the future of **aerospace medicine** and **extreme medicine**.

Theme:  
**Difficult Decisions in  
Difficult Environments !**

### Who Should Attend?

- Emergency Medicine Physicians
- Aerospace Medicine Physicians
- Space Health Professionals
- Extreme Medicine Researchers
- Spaceflight Nurses and Paramedics
- Policymakers and Regulators
- Students in Related Fields
- Anyone passionate about the future of human space exploration and healthcare innovation in remote environments!



## DISTINGUISHED SPEAKERS & PROGRAM HIGHLIGHTS



### Shawna Pandya

Physician, aquanaut, and Canada's first female commercial astronaut, Shawna merges space medicine, underwater exploration, and humanitarian work. As the 4th woman of Indian origin set to go to space, she's at the forefront of advancing human performance in extreme environments.

#### Keynote:

**Preparing for Human Space flight**



### Mark Hannaford

Founder of World Extreme Medicine, Mark brings 40 years of experience at the intersection of medicine, leadership, and remote operations. He has trained over 20,000 medical professionals for extreme environments and co-founded the WEM Fund, delivering trauma aid and training across the world.

**Keynote:** How about 'The world of Extreme Medicine - Life and Death Decisions in Places Google Maps Can't Find



### Vignesh Santhanam

Vignesh is the space sector lead for India in the World Economic Forum. He drives initiatives of policy, innovation, and commercial space development. With deep expertise in India's space ecosystem, he champions collaboration across public and private sectors to unlock new opportunities and shape the future of space industry.

#### Keynote:

**Future of space industry in India**



### Gp Capt (Dr) Punyashlok Biswal

Gp Capt Punyashlok Biswal is Head of Department of Space Medicine at the Institute of Aerospace Medicine, Bangalore. He is one of the pioneers spearheading the medical aspects of Human in Space Programme (Gaganyaan) in collaboration with ISRO.

**Keynote:** Human Aspects of Space Missions

## FEATURED SESSIONS & WORKSHOPS

- **Research Presentations:** Hear the unique cases, projects and research from extreme medicine & space medicine topics in India.
- **Interactive Workshops:** Engage in hands-on sessions designed to build practical skills and explore cutting-edge technologies.
- **Panel Discussions:** Engage with experts on critical issues facing space medicine, including ethical considerations and the future of commercial spaceflight.
- **Networking Opportunities:** Connect with like minded colleagues, collaborators, and potential employers during networking events and breaks.
- **Inaugural Session:** with Senior dignitaries from ISRO.

## WORKSHOPS

- Expedition Medical Preparedness
- Drones in Emergency Care

## SCIENTIFIC SESSIONS & KEY LECTURES

- Scope of Wilderness Medicine
- High Altitude Emergencies
- Expedition Medical Cover for masses
- Practice of Extreme Medicine
- Science of Human Performance
- Attitude vs Altitude
- Snakebite Management
- Heat Illnesses in India
- Emergency Care during Sports Events
- Drones in Emergency Care
- Space Flight & Space Medicine
- Growth of Space Industry in India
- Space Simulation
- Upgrading Emergency Department Safety using Space Technology - A joint SEMI-ISRO project.
- Geo-tagging Emergency Departments in India - Our Satellites will Guide You.



# ExEM & Space Medicine Pre Conference Program Schedule

## Workshop Agenda 21 August 2025

09:00 - 13:00	<b>What you will learn :</b>	
 <p><b>DRONES IN EMERGENCY CARE WORKSHOP</b></p>	Introduction to Drones	<p><b>Dr. Imron Subhan</b> Apollo Hospitals – Hyderabad</p> <p><b>Dr. Syed Safiuddin Ghazi Ali</b> Apollo Hospitals - Hyderabad</p> <p><b>Mr. Vignesh Santhanam</b> World Economic Forum</p> <p><b>Mr. Farooq Ahmed</b> Apollo TeleHealth</p>
	Drone Industry in India	
	Types of Drones / Advantages	
	Categories of Drones	
	Drones in Healthcare	
	WEF: Medicine from the Sky, India	
	Drones in Emergency Care	
	Drone assisted CPR	
	Drone Directed Patient Care	
	Drones in Disaster Response	
	Drone Regulations	
	How to Register A Drone	
13:00 - 14:00	<b>LUNCH BREAK</b>	
14:00 - 17:00	<b>What you will learn :</b>	
 <p><b>EXPEDITION PREPARATION WORKSHOP</b></p>	Types of expeditions	<p><b>Dr. Imron Subhan</b> Apollo Hospitals – Hyderabad</p> <p><b>Dr. Sandeep Gore</b> Fortis Hospital Mulund - Mumbai</p> <p><b>Mr. Mark Hannaford</b> World Extreme Medicine</p> <p><b>Dr. Praneeth Oladri</b> Apollo Hospitals – Hyderabad</p>
	Role of expedition medic	
	Legal aspects of expedition medical treatment	
	Preparing for expedition	
	Team Selection	
	Physical fitness/Medical clearance	
	Clothing and protection	
	Technical Gear & Equipment	
	Food & Nutrition	
	Camping Equipment	
	Communications & GPS Navigation	
	Medical Equipment	
	Medical Protocols	
	Rules & Regulations	



ExEM & Space Medicine Conference Program Schedule  
Conference Agenda 22 August 2025

SESSION	TIME	TITLE	SPEAKER
Breakfast Session	08:00 - 09:00	Young Faculty Talks / Research paper presentations	
Morning Session	09:00 - 09:20	Medicine at the Edge: Saving Lives in the Himalaya	Dr Madhur Uniyal AIIMS, Rishikesh
	09:20 - 09:40	Being a Doctor for 1000 High Altitude Pilgrims	Dr. Praneeth Oladri Apollo Hospitals – Hyderabad
	09:40 - 10:00	6 Attempts to Reach 6000m	Dr. Imron Subhan Apollo Hospitals – Hyderabad
TEA	10:00 - 10:15	TEA BREAK	
Keynote Lectures	10:15 - 10:45	Life & Death Decisions in Places Where Google Cannot Find	Mr. Mark Hannaford World Extreme Medicine
	10:45 - 11:15	Human Aspects of Space Missions	Gp Capt (Dr) Punyashlok Biswal Institute of Aerospace Medicine – Indian Airforce
	11:15 - 11:45	Perspectives from Research Astronaut: Emerging Opportunities in Human Space flight and Space Medicine	Dr. Shawna Pandya International Institute for Astronautical Sciences - IIAS
	11:45 - 12:15	Future of Space Industry in India	Mr. Vignesh Santhanam World Economic Forum
Inauguration	12:15 - 13:00	INAUGURATION	
Lunch	13:00 - 14:00	LUNCH BREAK	
Afternoon Session	14:00 - 14:20	Improving Patient Safety with Space Technology	Dr. Saravana Kumar S Mehtas Hospital – Chennai
	14:20 - 14:40	CPR in Zero Gravity	Dr. Naga Nischal Cloud 9 Hospital - Bangalore
	14:40 - 15:00	Effect of Microgravity on Stem Cells & Regeneration	Dr. Arvind Ramanathan Institute For Stem Cell Science and Regenerative Medicine
TEA	15:00 - 15:15	TEA BREAK	
Evening Session	15:15 - 15:35	Physiological Stressors in Extreme Aviation Environment	Sqn Ldr. Rahul Dev Institute of Aerospace Medicine – Indian Airforce
	15:35 - 15:55	Sports mass gathering medical backup preparedness	Dr. Viveknanda KD Hospital - Ahmedabad
	15:55 - 16:15	Drones in Emergency Care	Dr. Syed Safiuddin Ghazi Ali Apollo Hospitals - Hyderabad
	16:15 - 16:35	Mountain & Me	Dr. Sandeep Gore Fortis Hospital Mulund - Mumbai
	16:35 - 16:55	Challenges faced during air transfer of Emergency Patients	Dr. Rahul Singh ICATT - Bangalore
	16:55 - 17:15	Heat illness	TBA
Closure	17:15 - 17:30	Award Ceremony & Invitation to EMCON 2025 New Delhi	Scientific Committee





Be a Pioneer, Be Here!



### Registration Information

## Register today and be part of the future!

No spot registrations.

#### REGISTRATION FEES:

PRE CONFERENCE WORKSHOP	CONFERENCE	
	DELEGATE REGISTRATION	STUDENT REGISTRATION
₹ 2000	₹ 6000	₹ 5000

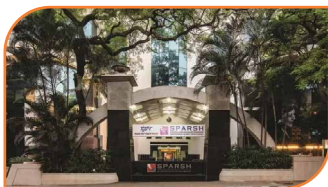
\*Limited Registrations for this conference

### VENUE

For Venue Location on Google maps, click on the image

#### Pre-Conference Workshops

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#### Conference

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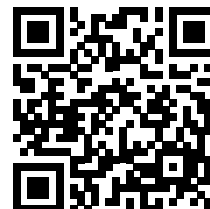


For any inquiries, please contact:

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For registration,  
Click here  
or scanQR Code