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SYMBIOSIS MEDICAL COLLEGE FOR WOMEN SYMBIOSIS UNIVERSITY HOSPITAL & RESEARCH CENTRE

A constituent of SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

Presents

2nd Workshop on

NEUROSONOLOGY IN ACUTE CARE



03 - 04 October 2026

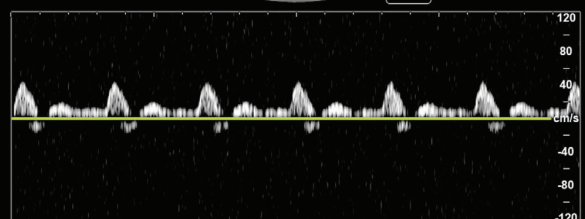
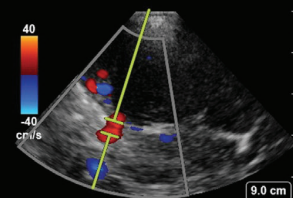
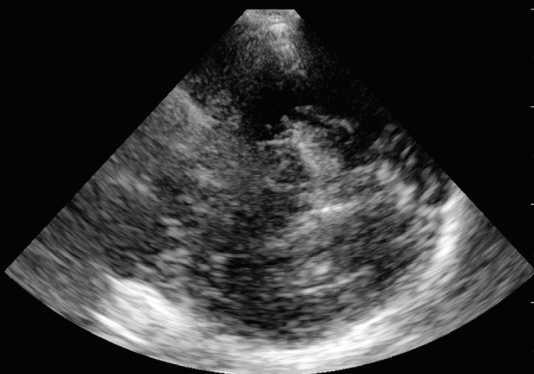
Endorsed by



Organised by

Department of Critical Care Medicine, SMCW & SUHRC

Venue : Symbiosis Medical College for Women & Symbiosis University Hospital and Research Centre (SMCW-SUHRC),
Symbiosis International (Deemed University), Pune, India





SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

Symbiosis was established by Prof (Dr.) S. B. Mujumdar in 1971 with the motto of Vasudhaiva Kutumbakam the World is one Family, and has been providing quality education from KG to Ph.D. The Symbiosis International (Deemed University) offers programmes in multiple disciplines including Law, Management, Computer Studies, Medical & Health Sciences, Media and Communication, Humanities and Social Sciences, Engineering, and Architecture and Design. Today, Symbiosis International (Deemed University) has over 40,000 students from all the states of India and from over 85 countries providing a home away from home for Indian and foreign students

The University has been awarded Category-I status by UGC, and an A+ grade by National Assessment and Accreditation Council (NAAC). It has been ranked 24th in India in the University Category by National Institutional Ranking Framework (NIRF) 2025.

Symbiosis International (Deemed University) has been ranked 696 globally. 8th in the world & 3rd in India for Employer Reputation; 5th in India for Student Diversity; and, 8th in India for International Faculty, by QS World University Rankings 2025. QS World University Rankings (Asia) 2026 has ranked the University at 200 in Asia. The Times Higher Education (THE) World University Ranking 2026 has ranked between 601-800 Globally and 4th in India. It is the only University to have received the Asia Pacific Quality Label. The University has been recognized as a 2000-Watt Smart City by the 2000-Watt Smart Cities Association, Switzerland, and is also a permanent member of the Global University Network for Innovation (GUNI)

The main campus of the University is nestled on a beautiful 400-acre land at Lavale in Pune, Maharashtra, India. Today the University has 42 constituents, 13 Research Centres, 13 Support Departments and 10 Departments of Skills & Continuing Education spread across Pune, Nasik, Nagpur, Bengaluru, Hyderabad and NOIDA in India, and at Dubai in U.A.E



FACULTY OF MEDICAL & HEALTH SCIENCES (FoMHS)



Faculty of Medical & Health Sciences (FoMHS), a proud constituent of SIU, is a conscious response to the growing concerns regarding healthcare delivery and education including training of healthcare professionals across all cadres. The FoMHS offers on campus fulltime and online education programs meant to professionally upgrade the healthcare professional. Through its unique, innovative, career oriented programmes, FoMHS plans to raise a cadre of professionals who would ensure delivery of optimum health care services with the ultimate objective of creating a healthy world.

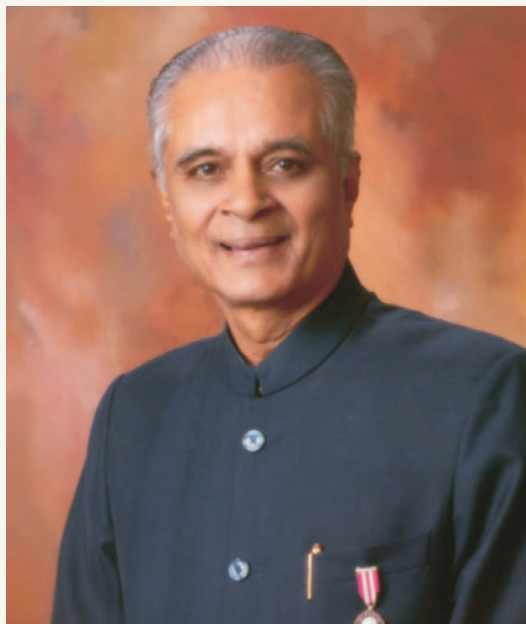


SYMBIOSIS MEDICAL COLLEGE FOR WOMEN (SMCW)

The Symbiosis Medical College for Women is the brainchild of the Founder and Chancellor of the Symbiosis International University, Prof. Dr. S. B. Mujumdar. With an objective of women empowerment and contributing to the requirement of more women doctors, Symbiosis has established this exclusive college under its Faculty of Medical & Health Sciences. It is the first fully residential Medical College exclusively for women in India. The annual intake is 150 girl students. SIU has launched Dr. Anandi Gopal Scholarship Scheme. This scholarship (full fee waiver for the entire MBBS program) is awarded purely on merit. SMCW is the first Medical College in the country to offer free medical education!

The Symbiosis Medical College for Women (SMCW) is located at the scenic campus of the Symbiosis International University at Gram Lavale, Pune. The medical college and its attached Symbiosis University Hospital and Research Centre (SUHRC) has state-of-the-art infrastructure and facilities. The faculty at SMCW and SUHRC has been drawn from the best across the country. SMCW thus endeavours to produce caring, compassionate and ethical female doctors.

Patron



Prof. (Dr.) S. B. Mujumdar
Founder and President, Symbiosis
Chancellor, SIU

Mentors



Dr. Vidya Yeravdekar
Pro-Chancellor
SIU



Dr. Ramakrishnan Raman
Vice Chancellor
SIU



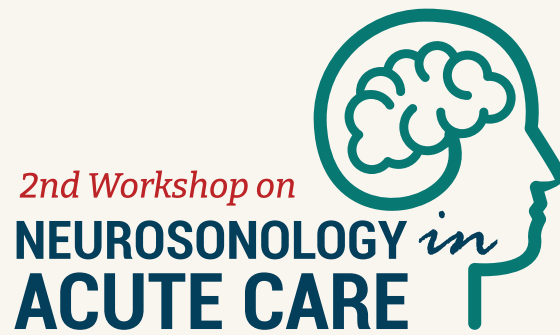
Dr. Rajiv Yeravdekar
Provost
Faculty of Medical & Health
Sciences, SIU



The World Organisation of Neurosonology (WON) - originally founded in 1993 as the European Society of Neurosonology and Cerebral Hemodynamics (ESNCH) following a proposal by Professor David Russell, with its inaugural meeting in Münster in 1994 and its statutes ratified in 1997 - has grown over three decades from a pioneering European specialist group into what its current President, Dr João Sargento Freitas, describes as "the leading international society dedicated to Neurosonology," drawing members from over 40 countries across Europe, Asia, the Middle East, and the Americas. Working in formal partnership with bodies such as the European Academy of Neurology, the European Stroke Organisation, and the Neurosonology Research Group. WON sets international standards through its Certification programme (established in 2005), its published clinical guidelines, and its flagship annual conference. It endorses only courses and meetings that meet these globally recognised educational benchmarks, making its endorsement of this workshop a direct marker of the programme's alignment with international standards in neurosonology, not merely a local or regional initiative.

2nd Workshop on
NEUROSONOLOGY *in*
ACUTE CARE

Point-of-care neurosonology, including transcranial Doppler/transcranial colour duplex sonography (TCD/TCCS), optic nerve sheath diameter (ONSD) ultrasound, and carotid/vertebral duplex ultrasound, is increasingly recognised as an essential bedside tool in the intensive care unit/acute care setups for assessing cerebral haemodynamics, detecting raised intracranial pressure and vasospasm, and confirming brain death. Despite its clinical value, formal training in neurosonology remains limited among critical care physicians in India. This workshop aims to bridge that gap by providing structured theoretical and hands-on training aligned with international standards.



Learning Objectives

Specific, measurable learning objectives have been set for each day to guide teaching, hands-on supervision, and assessment.

Day 1 (Basic) - by the end of Day 1, participants will be able to:

- Describe the basic physical principles of ultrasound and Doppler relevant to neurosonology
- Correctly position the transducer and identify the standard TCD insonation windows (temporal, orbital, and foramen magnum)
- Perform an ONSD measurement according to a validated scanning protocol
- Perform a basic carotid and vertebral duplex scan and identify normal anatomy and flow patterns
- Recognise normal Doppler waveforms and standard reference values

Day 2 (Advanced) - by the end of Day 2, participants will be able to:

- Identify sonographic and Doppler features of vasospasm following subarachnoid haemorrhage
- Detect midline shift and features of hydrocephalus using transcranial colour-coded sonography (TCCS)
- Apply ancillary TCD criteria for the confirmation of brain death in line with accepted guidelines
- Interpret venous TCCS findings and describe basic testing of cerebral autoregulation and vasomotor reactivity
- Recognise sonographic changes associated with encephalopathy, delirium, and ECMO-related complications
- Integrate neurosonology findings into a multimodal ICU decision-making framework

Target Audience

Intensivists, neurointensivists, neurologists, emergency physicians, critical care fellows, anaesthetists, neurosurgeons, postgraduate residents (trainees in medicine/neurology/neurosurgery), and sonographers/technologists interested in neurosonography.

Seats Limited to : 25 participants.

Duration and Format

- **Day 1 (Basic):** Foundational lectures on ultrasound physics, TCD, ONSD, and carotid/vertebral duplex techniques, followed by supervised hands-on practice with volunteers/models to build core scanning skills
- **Day 2 (Advanced):** Advanced lectures on TCD in vasospasm, stroke, midline shift, hydrocephalus, brain death confirmation, and cerebral autoregulation, followed by hands-on stations focused on complex and simulated ICU case scenarios

Course Director



Dr. Avinash Kumar Jha

MD, FNB, FFICM(UK)

Consultant, Intensive Care Medicine
Lancashire Teaching Hospitals NHS Foundation Trust
(Royal Preston Hospital), United Kingdom

**First ICU Consultant in the United Kingdom certified in
Neurosonology (ESNCH)**

Dr. Jha holds certification in Neurosonology from the European Society of Neurosonology and Cerebral Hemodynamics (ESNCH), making him the first Intensive Care consultant in the UK to achieve this qualification. His practice integrates transcranial and transcranial colour-coded duplex sonography, optic nerve sheath diameter assessment, and multimodal point-of-care neuro-ultrasound into everyday critical care decision-making.

He is an Associate Editor of the Journal of the Intensive Care Society (UK), Principal Investigator of the SOS trial, and a FUSIC Lung mentor, with a longstanding commitment to critical care ultrasound education and training of the next generation of intensivists.

As Programme Director for this workshop, he brings frontline UK neuro-critical care expertise and an ESNCH-benchmarked, hands-on teaching approach to advancing bedside neurosonology practice in acute care settings.



Dr. Vivek Kumar

MD (Med), DNB (Med), IFCCM, EDIC, EDEC, FICP, FICCM,
FACP, MNAMS

Professor of Medicine, Head Critical Care Medicine,
Symbiosis Medical College For Women & Symbiosis
University Hospital and Research Centre, Pune
Dr. Kumar is an avid practitioner of advanced POCUS
being a supervisor for EDEC and a basic level

WINFOCUS provider.

He integrates POCUS into his clinical decision making.
He is a faculty for Fellowship in Critical care Ultrasound
(FCCU) and Fellowship in Critical care echocardiography
(FCCE) courses conducted by the Indian Society of
Critical care medicine (ISCCM).

He has been conducting his own workshops in POCUS
and Advanced echocardiography since 2018.

He is the course director for Fellowship in Critical Care
echocardiography conducted by Symbiosis
International (Deemed University).

He is also an expert in simulation having conducted
several workshops on simulation based training in
echocardiography and POCUS.

He is a reviewer for Indian journal of Critical care
medicine (IJCCM).

As programme director he brings high quality learning
into the training of POCUS and its application in clinical
decision making in the Indian scenario.

Faculty & Course Coordinator



Dr. Suchitra Mohite

DNB (Anaesthesia), IDCCM,
EDAIC, MRCEM(UK),
FCCU (ISCCM)

Dr. Suchitra Mohite is Head of Emergency Medicine at Symbiosis Medical College For Women & Symbiosis University Hospital and Research Centre, Pune. She is an Emergency Physician certified in Critical Care Ultrasound (FCCU), with special expertise in Emergency Neurosonology. She is skilled in the use of Transcranial Doppler (TCD), brain ultrasound, and ocular ultrasound for the bedside assessment of neurological emergencies. As an invited national faculty and speaker, she conducts hands-on workshops and mentors clinicians, faculties, residents, and medical students. She is dedicated to advancing the use of neurosonology in Emergency Medicine to enable early diagnosis and improve patient outcomes.

Faculty



Dr. Richard Cashmore

MD (Anaesthesiology),
DM(Critical Care Medicine)

Dr. Cashmore is an intensive care doctor who completed his training in the UK. He has a particular interest in the use of neurosonology in the assessment and management of critically ill patients, and is certified in Neurosonology by the European Society of Neurosonology and Cerebral Hemodynamics (ESNCH / WON). Alongside his clinical work, he is passionate about clinical education and supporting the development of healthcare professionals working in acute and critical care settings. His work focuses on integrating bedside brain ultrasound into routine critical care practice, enabling real-time evaluation of cerebral haemodynamics, intracranial physiology, and cerebral perfusion. Dr Cashmore has contributed to advancing the field through peer-reviewed publications and educational work on Brain Point-of-Care Ultrasound (BrainPOCUS), helping define practical methodologies and competency frameworks for intensivists.

Faculty



Dr. Gudela Mohan Sai

MD (Anaesthesiology),
DM(Critical Care Medicine)

Dr. Mohan is a Consultant in Critical Care at KIMS Hospitals, Visakhapatnam, and a national faculty for Transcranial Doppler (TCD) workshops across India. His expertise includes neurosonology, TCCS, and its application in critical care and ACLS. He is actively involved in research and hands-on education, helping clinicians integrate bedside neurosonology into the assessment and management of critically ill patients.



Dr. Srivatsa Nagachandan

EDIC, CTCCM, FIECLS

Dr. Nagachandan is a Consultant in Intensive Care Medicine and Director of Extracorporeal Supports at Apollo Adlux Hospital, Kochi. His expertise includes ECMO, multi-organ support, advanced hemodynamic monitoring, critical care echocardiography, and POCUS. He is actively involved in ECMO/ECPR service development and critical care education, with a focus on clinical reasoning, bedside physiology, and evidence-based practice.



Dr. Pradeep D Costa

DNB [Medicine],
Certificate Critical Care Medicine.
Echocardiography &
Simulation instructor.

Dr. Pradeep D Costa is the lead Physician and Intensivist at Sahyadri Manipal Hospital, Nagar Road, Pune, and the ICU In-charge at KEM Hospital, Pune. An accomplished academician and clinician, he is the former Secretary of the Pune Branch of ISCCM, Local Coordinator for WINFOCUS Pune, and lead author of the book Ultrasound for Emergencies and Clinical Applications. He also serves as faculty for the FCCU (ISCCM) program and Advanced Echocardiography courses.

DAY 1

Friday, October 3, 2026 (Basic: Didactic + Hands-On)

TIME	Session
08:30 – 09:00	Registration
09:00 – 09:15	Welcome address & introduction to the workshop
09:15 – 10:00	Basic physics of ultrasound and Doppler principles
10:00 – 10:45	Tea break
10:45 – 11:00	Inauguration by Dr. Rajiv Yeravdekar, Provost, FoMHS, SIU
11:00 – 11:45	Optic nerve sheath diameter (ONSD): technique & clinical correlation
11:45 – 12:30	Carotid & vertebral duplex ultrasound: basic technique
12:30 – 13:00	Introduction to Neurosonology in raised intracranial pressure
13:00 – 14:00	Lunch break
14:00 – 15:30	Hands-on Station 1 (Basic): TCCD - identifying temporal, orbital & foramen magnum windows
15:30 – 15:45	Tea break
15:45 – 17:00	Hands-on Station 2 (Basic): ONSD measurement & carotid duplex scanning
17:00 – 17:30	Q&A and recap of Day 1

DAY 2

Saturday, October 4, 2026 (Advanced: Didactic + Hands-On)

TIME	Session
08:30 – 09:00	Recap of Day 1 & orientation to advanced stations
09:00 – 09:45	TCCD in vasospasm (subarachnoid haemorrhage), midline shift, hydrocephalus: advanced interpretation
09:45 – 10:30	TCCD: stroke, cardiac arrest and brain death
10:30 – 10:45	Tea break
10:45 – 11:30	Venous TCCD, cerebral autoregulation, and vasomotor reactivity
11:30 – 12:15	TCCD in encephalopathy, delirium, ECMO
12:15 – 13:15	Lunch break
13:15 – 14:45	Hands-on Station 1 (Advanced): Doppler measurement, midline shift, hydrocephalus assessment and venous TCCD
14:45 – 16:00	Hands-on Station 2 (Advanced): Rotational practice - complex/combined case simulations across TCCD, ONSD & duplex
16:00 – 16:45	Case demonstration & interpretation quiz
16:45 – 17:15	Assessment / feedback & certificate distribution
17:15 – 17:30	Valedictory session & closing remarks

REGISTRATION & PAYMENT

REGISTRATION FORM:

Please email details to suchitra.mohite@suhrc.siu.edu.in (+919370623592)

Name: _____

Designation: _____

Institute: _____

Neurosonology experience (years): _____

Why do I want to attend this workshop: _____

Address: _____

Email: _____

Cell phone: _____

Course Fee

Indian National:
INR 18000

International Delegate:
Euro 225 | USD 260 | GBP 190



Payment details:

Account: SYMBIOSIS UNIVERSITY HOSPITAL & RESEARCH CENTRE

Bank: Axis Bank

Account no: 919010046408475

IFSC Code: UTIB00000315

Bank Address: Symbiosis University Hospital and Research Centre

Branch Details: Senapati Bapat Rd, Pune 411016

Facilitator

Course Coordinator

Dr. Suchitra Mohite

Mobile: : +91 9370623592

Email: suchitra.mohite@suhrc.siu.edu.in

ACCOMMODATION

Sandipani Guest House located at the scenic hilltop location of the Symbiosis International (Deemed University) has well-appointed guest rooms available on single/twin sharing basis. Delegates are requested to book accommodation well in time as only limited rooms are available. Accommodation charges are to be paid in full at the time of registration.

for details click here: <https://www.sandipanihometel.com/>

Room Rates		
Room Category	Single	Double
Deluxe Room	4000	4800
Suite Room	5200	6000



How to reach Symbiosis International University (Deemed University), Hill-Base campus, Lavale

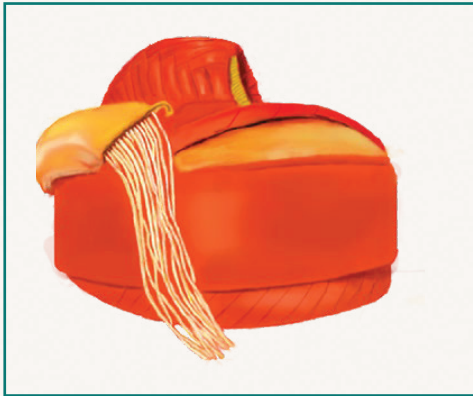
Symbiosis International University's Lavale Campus, located in the scenic hills near Pune, is accessible by air, rail, and road, making it convenient for both international and domestic visitors. For international travellers, Pune International Airport (PNQ) is approximately 22 km away, with taxis and rideshare options taking 45 minutes to an hour. Those arriving via Mumbai's Chhatrapati Shivaji Maharaj International Airport can reach Pune by a 3-4 hour road journey or a short domestic flight. Domestic travellers can also arrive at Pune Junction Railway Station, 20 km from the campus, or via intercity buses to Swargate or Shivajinagar bus stands. From these hubs, taxis, app-based rides, or private vehicles can take you to the campus. For road travellers, the campus is 19 km west of Pune city centre, accessible via Paud Road or NH48, with clear signage directing to Lavale Village. Once on campus, the reception or security staff will assist with navigation.



For Directions, from your location, follow the Google Map link below:

[https://www.google.com/maps/place/Symbiosis+International+\(Deemed+University\)/@18.5351194,73.731592,15z/data=!4m5!3m4!1s0x0:0x4b9133b7a228d7d0!8m2!3d18.5351194!4d73.731592](https://www.google.com/maps/place/Symbiosis+International+(Deemed+University)/@18.5351194,73.731592,15z/data=!4m5!3m4!1s0x0:0x4b9133b7a228d7d0!8m2!3d18.5351194!4d73.731592)

ABOUT PUNE AND HOW TO REACH



Pune, often called the “Oxford of the East,” is a dynamic city in Maharashtra that blends a rich historical legacy with modern progress. Known for its prestigious educational institutions and thriving IT and business hubs, Pune is a centre for intellectual exchange and innovation. The city enjoys pleasant weather in September and October, with lush greenery and a scenic backdrop as the monsoon recedes. Historical landmarks like Shaniwar Wada and Aga Khan Palace showcase Pune’s cultural depth, while its proximity to the Western Ghats offers serene escapes. The city’s culinary scene ranges from traditional Maharashtrian flavours to global cuisines. Pune is a bustling metropolis with an estimated population of about 7 million spread over 138 sq. km. It is situated at an altitude of 559 meters above sea level. It has been ranked as one of the most liveable cities in India several times. The temperatures range from 150 C to 350 C with an average rainfall of 68 cm. Pune is well connected with National Highways and express Highways leading to Mumbai, Bangalore, Hyderabad, Ahmedabad, and other major cities. Pune railway junction has connectivity with almost all parts of the country. Pune International Airport provides air connectivity to all major airports in India.

