



Theme: Evidence to Excellence: Advancing Neonatal Practices

Venue: The Chancery Pavilion, Bengaluru

SOUTH NEOCON 2026 • PRE-CONFERENCE WORKSHOP

THERAPEUTIC HYPOTHERMIA

in Neonatal Hypoxic-Ischaemic Encephalopathy

Right baby • Right machine • Right time

28 August 2026 • 9:00 AM to 5:00 PM • Medcover Women and Children Hospital, ITPL, Bengaluru

FORMAT

Full day, single track

MORNING

Lectures and cases

AFTERNOON

Four-station hands-on

CLOSE

Post-test and certificate

Workshop overview

This full-day workshop takes participants from the pathophysiology of hypoxic-ischaemic encephalopathy to bedside mastery of therapeutic hypothermia, the only evidence-based neuroprotective intervention for the condition. The morning builds the scientific and clinical foundation through focused lectures and moderated case discussion. The afternoon is predominantly hands-on, with a four-station rotation covering identification and transport, initiation and rewarming, neuromonitoring and seizures, and family communication.

The aim is not individual competence alone. **It is a uniform, safe approach that participants can carry back and standardise across their own units.**

Who should attend

- Registrars and NNF fellows in paediatrics and neonatology
- Consultant neonatologists and paediatricians
- Neonatal nurses responsible for cooling, monitoring and documentation

Learning objectives

By the end of the workshop, participants will be able to:

01 Describe the pathophysiology of HIE and the rationale for therapeutic hypothermia.

03 Initiate, monitor and safely discontinue a cooling protocol.

05 Interpret amplitude-integrated EEG and MRI findings in cooled neonates.

07 Lead quality-improvement initiatives around HIE management in their own units.

02 Identify eligible neonates using validated clinical and biochemical criteria.

04 Recognise and manage the complications of therapeutic hypothermia.

06 Counsel families with accuracy, empathy and evidence-based prognostic information.

Programme

A single continuous track. The morning builds the foundation through lectures and cases; the afternoon is hands-on, closing with imaging, debate and certification.

BLOCK 1 • FOUNDATION 8:45 to 10:55		
8:45 to 9:00	Welcome and framing the day	Dr. Lathiesh Kambam
9:00 to 9:15	Peripartum care and ground realities	Dr. Praveen Venkatagiri
9:15 to 9:45	Birth asphyxia and the pathophysiology of HIE	Dr. Shripada Rao
9:45 to 10:15	Anticipation, preparation and prevention	Dr. Mahesh Hiranandani
10:15 to 10:35	Evidence and controversy: TOBY, CoolCap, NICHD, WHO and HELIX	Dr. Ravi Shankar Swamy
10:35 to 10:55	Eligibility and clinical assessment: Sarnat, Thompson and the first six hours	Dr. Nayana Singhekar
10:55 to 11:15	Tea break	
BLOCK 2 • DELIVERING THE THERAPY 11:15 to 1:00		
11:15 to 11:30	Inauguration of the workshop	
11:30 to 11:50	Cooling techniques and servo-controlled devices	Dr. Sunil Kumar G
11:50 to 12:10	Monitoring, nursing care, complications and rewarming	Dr. Manoj Kumar B
12:10 to 1:00	Applying eligibility to four complex neonates: moderated case discussion	Dr. Mahesh Hiranandani and Dr. Shripada Rao, two cases each
1:00 to 1:35	Lunch and networking	
BLOCK 3 • HANDS-ON ROTATION 1:35 to 3:35		
1:35 to 3:35	Practical skill stations: four-station rotation, 30 minutes per station	All faculty and facilitators
3:35 to 3:50	Tea break	
BLOCK 4 • INTERPRETATION AND CLOSE 3:50 to 5:00		
3:50 to 4:20	Neuroimaging and prognostication with imaging interpretation	Dr. Ravi Shankar Swamy
4:20 to 4:50	Panel and debate with open floor question and answer	Dr. Revanasiddappa, Dr. Abhinay Reddy and Dr. Leenatha N
4:50 to 5:00	Post-test, key takeaways and certificates	Course faculty

Practical skill stations • 1:35 to 3:35

Four stations, 30 minutes each, groups rotating on a fixed timing call. Each station is staffed by one clinical faculty member and one facilitator, with a consultant floating across stations to support borderline decisions and troubleshooting.

01 Identification and transport

- Sarnat staging and Thompson scoring on video cases
- Passive cooling in transit with temperature targets
- Referral checklist and the six-hour window

02 Initiation and rewarming

- Servo-controlled device set-up and alarm response
- Sedation, fluids and electrolyte management
- Controlled rewarming and failure troubleshooting

03 Neuromonitoring and seizures

- Electrode placement and aEEG trace interpretation
- Seizure recognition and escalation of therapy
- Documentation that stands up to audit

04 Family communication

- Consent and explanation at the point of cooling
- Prognostic conversations with role play
- Breaking bad news and handover to follow-up

What each participant group takes away

REGISTRARS AND FELLOWS	NEONATAL NURSES	CONSULTANTS
• Eligibility assessment using Sarnat and Thompson • Initiating therapy within the window • Monitoring and bedside decision-making	• Temperature monitoring and vitals charting • Sedation management and skin care • Rewarming protocol, family interaction, documentation	• Protocol customisation for the home unit • Team leadership in initiation and troubleshooting • Long-term outcome evaluation and audit

Faculty leadership

COURSE DIRECTOR Dr. Lathiesh Kambam	COURSE CO-DIRECTOR Dr. Shivshankar Diggikar	COURSE CHAIRPERSON Dr. Praveen Venkatagiri	COURSE COORDINATOR Dr. Sunil Kumar Gonuguntla
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Right baby. Right machine. Right time.

Select the right baby • Start within the window • Cool and monitor safely • Interpret the brain • Counsel the family



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