

Dr. Shamini Sangasamy

CONTACT INFORMATION

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PROFESSIONAL SUMMARY

Highly skilled and experienced Emergency Physician with extensive expertise in managing critically ill patients, trauma resuscitation, pre-hospital emergency care, and clinical governance. A strong advocate for patient safety, quality improvement, and medical education. Certified National Postgraduate Emergency Medicine (NPEM) Supervisor responsible for training and evaluating postgraduate trainees. Adept at interdisciplinary collaboration, healthcare management, and leading emergency medical teams to deliver high-quality patient care. Skilled in optimizing emergency department workflows, ensuring compliance with private hospital regulatory standards in Malaysia, and enhancing the overall efficiency of emergency services. Passionate about integrating evidence-based medicine, innovative emergency care strategies, and technological advancements into clinical practice.

WORK EXPERIENCE

Emergency Physician & Clinical Lecturer

Hospital Al-Sultan Abdullah, Universiti Teknologi MARA

March 2025 – current

- Provide comprehensive emergency care, including resuscitation, trauma management, and critical decision-making.
- Deliver teaching for undergraduate (MBBS) and postgraduate (Emergency Medicine) medical programmes.
- Supervise clinical training, procedural skills, and assessments for medical students and trainees.
- Actively involved in curriculum development, academic audits, and quality assurance initiatives.
- Serve as a research supervisor and collaborator in clinical and educational research projects.
- Contribute to the advancement of emergency medicine education through workshops, seminars, and scholarly activities.

Emergency Physician

Hospital Sultan Idris Shah, Serdang, Selangor

January 2023 – March 2025

- Lead the Emergency Department in providing comprehensive, high-quality, patient-centered care, ensuring adherence to national and private hospital accreditation standards.
- Oversee the emergency department's operational efficiency, optimizing triage systems and patient flow to reduce waiting times and enhance patient experience.
- Supervise medical officers, trainees, and nursing staff, ensuring clinical excellence and adherence to evidence-based emergency medicine protocols.
- Implement clinical governance initiatives, quality assurance programs, and patient safety protocols, including morbidity and mortality (M&M) reviews to improve departmental performance.
- Conduct emergency department clinical audits, tracking quality indicators and developing corrective action plans to enhance healthcare delivery.
- Spearhead the development, review, and implementation of standard operating procedures (SOPs) for managing critical emergency cases, including acute coronary syndromes, strokes, sepsis, polytrauma, and poisoning.
- Perform high-risk emergency procedures such as rapid sequence intubation (RSI), mechanical ventilation management, central venous catheter insertion, pericardiocentesis, bronchoscopy, and ultrasound-guided procedures.
- Lead trauma resuscitation teams in high-acuity settings, ensuring adherence to Advanced Trauma Life Support (ATLS) protocols and rapid stabilization of patients.

Key Clinical Responsibilities

- Stabilisation and transfer of acute coronary syndrome cases to the cardiac catheterization lab for urgent percutaneous coronary intervention (PCI), ensuring adherence to the door-to-balloon (D2B) time protocols.
- Stabilisation and transfer of acute ischemic stroke cases to the stroke unit, ensuring timely administration of thrombolysis or mechanical thrombectomy to optimize neurological recovery.
- Stabilisation and transfer of emergency surgical cases to the operating theatre, ensuring seamless pre-operative assessment, resuscitation, and optimization before definitive intervention.
- Advanced airway management, including intubation, ventilator settings optimization, and procedural sedation for critically ill patients.
- Point-of-care ultrasound (POCUS) utilization, including FAST scans for trauma, lung ultrasound for pneumothorax and pulmonary edema, and echocardiography in cardiac arrest scenarios.
- Bronchoscopy for airway assessment and foreign body removal in emergency settings.
- Critical decision-making in undifferentiated shock and emergency resuscitations, ensuring timely intervention and patient stabilization.

Pre-Hospital Care and Ambulance Services

- Manage and oversee pre-hospital emergency care operations, including Advanced Life Support (ALS) ambulance services, medical evacuations (medevac), and interfacility patient transfers.
- Supervise paramedics and Emergency Medical Technicians (EMTs), ensuring their proficiency in pre-hospital assessments, resuscitation techniques, and safe patient transport.
- Design and implement training programs and simulation drills for pre-hospital staff, with a focus on mass casualty incident (MCI) management, disaster response strategies, and rapid intervention protocols.

Teaching and Training

- Conduct structured training sessions for diverse hospital personnel, including doctors, interns, paramedics, nurses, and medical students, aligning with the latest emergency medicine protocols and best practices.
- Perform root cause analyses to investigate and address patient complaints, ensuring resolution aligns with both patient interests and hospital policies while upholding professional medical standards.
- Mentor junior doctors and medical students, offering guidance on career progression, research involvement, and professional development in emergency medicine.
- Plan, coordinate, and execute national and international emergency medicine symposiums, workshops, and conferences to facilitate knowledge-sharing and skill enhancement within the medical community.

COVID-19 Management

- Managed COVID-19 patients in the Emergency Department and Pre-Hospital settings, as the National Center for COVID Patients.

Postgraduate in Emergency Medicine

Hospital Universiti Sains Malaysia – Kelantan, Malaysia

December 2018 – December 2022

- Completed rotations in Surgery, Paediatrics, Neurosurgery, Anaesthesia (ICU and operating theatre), Medicine, Radiology, Obstetrics & Gynaecology as part of Emergency Medicine Specialist training.
- Involved in various scientific and research studies.
- Graduated without extensions in a 4-year postgraduate/master's program with Conjoint Board Examinations.

Medical Officer

Hospital Sungai Buloh, Selangor

July 2014 - May 2018

- Managed acute medical, surgical, and trauma cases in a high-volume emergency department.
- Led resuscitation teams for critically ill patients, coordinating timely interventions.

House Officer

Hospital Queen Elizabeth, Sabah

June 2012 - June 2014

- Successfully completed rotations in Medicine, Surgery, Obstetrics & Gynaecology, Paediatrics, Orthopaedics, and Emergency Medicine without any extensions.
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KEY PROJECTS & INITIATIVES

- Asthma Action Plan and Head Chart Monitoring for Mild Head Injury Video (Ongoing Project)
 - Emergency Department Overcrowding Solutions (Ongoing Project)
 - Smart Endotracheal Tube (ETT)
 - AI-Powered Emergency Triage System (On going)
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EDUCATION

- **Master of Medicine (Emergency Medicine), 2022** – Universiti Sains Malaysia (PASS)
 - **Doctor of Medicine, 2012** – Universiti Kebangsaan Malaysia (PASS)
 - **Matriculation, 2007** – Kolej Matrikulasi Negeri Sembilan (CGPA: 4.0)
 - **SPM, 2005** – Maktab Rendah Sains MARA Jasin (10 A1s)
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SKILLS

- Emergency Resuscitation Procedures for Adults and Paediatrics
- Mass Casualty Management / Disaster management
- Pre-Hospital Care and Ambulance Services
- Point-of-care ultrasound and ultrasound-guided procedures
- Basic Life Support (BLS)
- Advanced Cardiac Life Support (ACLS)
- Advanced Disaster Life Support (ADLS)
- Triage
- Emergency Airway, Breathing, and Circulation Stabilization Procedures
- Trauma Management and Related Procedures
- Patient Complaint Management

CERTIFICATIONS & TRAININGS

- Advanced Cardiac Life Support (ACLS)
- Basic and Advanced Disaster Life Support (BDLS & ADLS)
- Basic Life Support (BLS)
- Pre-Hospital Care Advanced Life Support (PHCALS)
- Malaysian Trauma Life Support (MTLS)
- Ultrasound-Guided Procedures Training
- National Certified Trained Supervisor for NPEM (National Postgraduate Emergency Medicine)
- Point-of-Care Ultrasound
- Bronchoscopy

AWARDS & RECOGNITIONS

- Champion – National Trauma Team Competition
- Excellence Service Award

ACADEMY / PAPERS

- Poster Presentations for 9th Asian Conference on Emergency Medicine and 13th Turkish Emergency Medicine Congress (International)
- Oral Presentation (Pediatric) for ICCEM 2017 (International)
- Oral Presentation for Clinical Audit 2017 (Hospital)
- Poster Presentations for Johor Trauma Conference 2017 (National)
- Thesis Topic: Systematic Review and Meta-Analysis Ultrasound Guided Arterial Cannulation 2023

PROFESSIONAL MEMBERSHIPS

- Malaysian Society for Quality in Health (MSQH)
- Malaysian Medical Association (MMA)
- College of Emergency Physician (CEP), Academy Of Medicine Of Malaysia (AMM)
- HRDCorp Trainer

LANGUAGES

- English
- Malay
- Tamil