

The Faculty of Intensive Care Medicine

ICM Unit Brief

Part 1 Hospital Details

1.1 Hospital name

Southampton General Hospital

1.2 Full address (you **must** include postcode)

Southampton General Hospital
Tremona Road
Southampton
Hampshire
SO16 6YD

1.3 Hospital Telephone number

023 8077 7222

Part 2 ICU Department contact details

2.1 Direct telephone number to Department

023 8077

2.2 Faculty Tutor name

Associate Prof. Anilanadan Dushianthan
Dr Michael Stewart

2.3 Faculty Tutor Email address

Anilanadan.Dushianthan@uhs.nhs.uk
Michael.Stewart@uhs.nhs.uk

Part 3 Unit Structure

3.1 Number of Beds

41 Mixed level 2/3

3.2 Number of admissions

~ 2000 / yr

3.3 Percentage of elective vs emergency admissions

Including Surgical High Care area ~ 50:50. GICU alone > 90% emergent.

3.4 Overview of case mix within the unit

GICU (General Intensive Care)

Mainly emergency admissions, including.

- Medical (including Cardiology, post OOHCA, Respiratory, Renal, Hepatology, General medicine)
- Surgical (Gen Sugery, HPB, UGI, Thoracics, Max Fax, ENT, Gynae, Vascular, Urology,

- Orthopaedics)
- Major trauma (Major Trauma Centre)
 - Tertiary Haematology / Oncology
- Elective admissions, including.
- Major general surgery including exenterations and intestinal failure
 - Thoracic
 - Max Fax
 - Major Vascular

SHDU (Surgical High Care)

Elective admissions, including.

- HPB
- General surgery
- Orthopaedics
- Gynae
- UGI
- Vascular
- Urology

3.5 Names of Consultants, roles and areas of interest

Name	Role (eg clinical lead, consultant)	Areas of Interest
Dr David Sparkes	Consultant - Clinical Lead	
Dr Sanjay Gupta	Consultant - Care Group Lead Critical Care	
Dr Max Jonas	Consultant	Haemodynamics
Dr Suzie Tanser	Consultant	
Dr Julian Nixon	Consultant	Rota Master
Dr Mike Cellinski	Consultant	IT Lead
Associate Professor Rebecca Cussack	Consultant	Research and Rehab
Professor Michael Grocott	Consultant	RCoA Council member and NIHR Director
Dr Ben Skinner	Consultant	
Dr Rob Chambers	Consultant	Palliative care. Deputy DME
Associate Professor Anilanadan Dushianthan	Consultant	Research and College Tutor
Professor Denny Levett	Consultant	SHDU Lead, Research and Perioperative Medicine
Dr Michael Stewart	Consultant	College Tutor, POCUS
Dr Mai Wakatsuki	Consultant – Care Group Lead	Perioperative medicine
Dr Carin Dear	Consultant	Perioperative Medicine
Dr Paul Groves	Consultant	POCUS
Dr Martin Knight	Consultant	M&M and POCUS
Dr Harry Phillips	Consultant	Rota Master (Junior doctors)
Dr Tom Price	Consultant	Audit and ACCP lead
Dr Rebecca Egglestone	Consultant	Wellbeing lead
Dr Lewis Matthews	Consultant	Nutrition lead
Dr David Harvie	Consultant	
Dr Rory Sharvil	Consultant	

3.6 Details of research projects being undertaken within the unit

Research in General Intensive Care Unit, University Hospital Southampton

Southampton University Hospitals Trusts has an expanding research portfolio in Critical Care and peri-operative medicine.

These posts provide opportunities for fellows to pursue research projects at a variety of levels and getting involved in both ongoing studies within the department and perusing research in areas of individual interest. In addition, the quality agenda is a high priority and research or publication in this area is strongly encouraged and there are a variety of opportunities to make use of established datasets to explore personal ideas. Research mentoring, journal clubs and a program of research training seminars ensure that all fellows will complete their program with new transferable skills. It is expected that the post holder will contribute to the teaching and training programme on GICU. We will encourage and support fellows to present research findings and other novel work at local, regional, national, and international meetings.

We recruit and participate in both national (UK-ROX, A2B, MOSAICC, REMAP-CAP, REALIST, SIGNET, GENOMICC, EXAKT, etc) and local (MecROX, Gut-Biome, MMICS, etc). University Hospitals Southampton Critical Care department has an active multidisciplinary research programme. The academic department is led by Prof Mike Grocott, and includes two professors and four associate professors, 3 research fellows and 6 PhD students. Recently completed and ongoing Master and PhD students have a broad focus including acute lung injury and surfactant metabolism, mechanistic understanding of hypoxia in the critically ill, interventions for the treatment and prevention of psychological trauma post critical illness, oxygen demand of early rehabilitation and the acceptability of early rehabilitation interventions.

Ongoing areas of research interest within the department include:

1. Applied human physiology including adaption to hypoxia and the epidemiology and improvement of perioperative outcomes (Mike Grocott – Professor in Perioperative Medicine and Critical Care). <https://orcid.org/0000-0002-9484-7581>
2. Acute lung injury, surfactant and phospholipid metabolism, mechanistic effects of hypoxia (Ahilanandan Dushianthan - Hon Associate Professor in Critical Care). <https://orcid.org/0000-0002-0165-3359>
3. Physical and psychological rehabilitation, effects of microbiome in the critically ill (Rebecca Cusack – Honorary Associate Professor in Critical Care). <https://orcid.org/0000-0003-2863-2870>
4. Cardiopulmonary exercise testing (CPET) perioperative medicine (Denny Levett - Professor of Perioperative Medicine and Critical Care) <https://orcid.org/0000-0002-8418-1675>
5. Antibiotic stewardship, rapid diagnostics and infection prevention (Kordo Saeed - Hon Associate Professor Infection Prevention). <https://orcid.org/0000-0003-0123-0302>
6. ICU Delirium (Cathy McKenzie- Hon Associate Professor and Consultant Pharmacist) <https://orcid.org/0000-0002-5190-9711>
7. Perceptions and needs for palliative care in the ICU (Carol Davis – Palliative Care Consultant)

3.7 How is the unit staffed?

Minimum staffing.

GICU

4 ICM Consultants during the day

2 Consultants 1700-2200

1 Consultant non-resident from 2200

Minimum Junior Staffing.

-3 airway competent junior doctors; (ICM and Anaesthetic trainees along with Senior fellows and ACCP's)

-4 non -airway competent junior doctors; (IMT, ACCS, Foundation doctors, Junior fellows and ACCPs)

SHDU

1 GICU consultant during day (also covering referral from GICU) and overnight cover as per GICU

2 trainees during the day 1 at night

Part 4**Training****4.1 Details of training opportunities on the unit**

- Exposure and ability to take part in a variety of research projects.
- Active POCUS faculty with regular POCUS meetings and mentoring. Opportunity to become certified in FUSIC Heart, Lung & HD.
- Management of tertiary surgery and haematology patients
- Exposure to Major trauma patients
- Senior trainees encouraged to lead ward rounds at appropriate level.
- Busy unit with ample opportunity for trainees to gain management and leadership experience

4.2 Details of departmental teaching

- Regular weekly Thursday afternoon teaching incorporating topics from General ICU, Neuro ICU, Cardiac ICU and various other specialties.
- Twice monthly in situ simulation scenarios run on GICU.
- Daily 10 minute teaching trainee-led micro teach session.
- Twice monthly POCUS meetings.
- Journal Club weekly.
- CVC insertion manikin training.

4.3 Details of clinical governance meetings days and / or M & M

Bi-weekly M&M meetings, cases presented by trainees.

4.4 Number of trainees on each tier of the rota

Airway approx.. 20
 Non airway approx.. 25
 SHDU 8-10