

The Faculty of Intensive Care Medicine

ICM Unit Brief

Part 1 Hospital Details

1.1 Hospital name

Derriford Hospital

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

University Hospitals Plymouth NHS Trust
Derriford Road
Crownhill
Plymouth
Devon
PL6 8DH

1.3 Hospital Telephone number

01752 202082

Part 2 ICU Department contact details

2.1 Direct telephone number to Department

01752 431404 (unit secretary)

2.2 Faculty Tutor name

Dr Timothy Tufnell Barrett

2.3 Faculty Tutor Email address

ttufnellbarrett@nhs.net

Part 3 Unit Structure

3.1 Number of Beds

28

3.2 Number of admissions

1600-1700

3.3 Percentage of elective vs emergency admissions

29% High risk elective surgery
19% Emergency surgery
52% Non-surgical

3.4 Overview of case mix within the unit

Plymouth Hospitals NHS Trust is one of the largest providers of acute care in the country. It is the tertiary referral centre and Major Trauma Centre for Devon, Cornwall and part of Somerset serving a population of almost 2 million. All services are provided on a single site at Derriford Hospital. These services include neurosurgery, maxillofacial surgery, upper and lower GI surgery, plastic surgery, renal transplantation, hepatobiliary surgery and cardiothoracic surgery. Over 1600 patients are admitted per annum in a purpose built 28 bed combined general and neuro intensive care unit. There is a separate 4 bed paediatric HDU adjacent to the paediatric wards and a 16 bed cardiac intensive care unit for patients following cardiac surgery. The general unit admits a small number of children a year, but most are retrieved to the PICU in Bristol following stabilisation in Plymouth.

Over 50% of admissions are non-surgical from the full range of medical specialities (including acute medicine, neurology, hepatology, endocrinology, cardiology, haematology, renal and respiratory) providing an excellent training environment for trainees preparing for the FFICM exam.

The general/neuro ICU ICNARC standardised mortality ratio is consistently less than one and we were rated as 'Good' in our most recent CQC inspection.

3.5 Names of Consultants, roles and areas of interest

Name	Role (eg clinical lead, consultant)	Areas of interest
Dr Robin Berry	Consultant Governance and ICNARC lead	RAF/Transport of critically ill/Trauma
Dr Colin Bigham	Consultant BSE TTE/TOE Accredited Clinical lead for Organ Donation	Echocardiography/Ultrasound/Research
Dr Steve Copplestone	Consultant	ICU Follow Up lead Medical Education
Dr Stuart Dickson	Consultant	Royal Navy/Acute Medicine/Infectious Diseases
Dr Rob Jackson	Consultant Service line Lead	Medical Education/IT/Clinical Governance/ICNARC
Dr Julian Lentaigne	Consultant	Respiratory Medicine Pulmonary Hypertension
Dr Peter Macnaughton	Consultant Safety Lead for Trust Chair: FICM Professional Affairs and Safety Committee	Ventilation/Echocardiography/Safety
Dr Paul Margetts	Consultant ICM Training Program Director University of Plymouth ACCP Chief Examiner	Clinical Governance, Advanced Critical Care Practitioner (ACCP) Training, Ultrasound, medical education
Prof. Dan Martin	Consultant Professor of Perioperative & Intensive Care Medicine at University of Plymouth	Academic ICM and Anaesthesia Oxygen Physiology Editor-in-Chief of JICS
Dr Ian O'Brien	Consultant	RAF

Dr Nikitas Nikitas	Consultant	Medical Education, Research
Dr Elfyn Thomas	Consultant	Trauma/Neuro ICU
Dr Tim Tufnell Barrett	ICM Faculty Tutor University of Plymouth ACCP Chief Examiner	Acute Medicine, ACCP training, Medical Education and Simulation
Dr Sam Waddy	Consultant	Acute Medicine
Dr Anna Wamsley	Consultant	Acute Medicine
Dr Debbie Webster	Consultant	Clinical Governance, Research, Organ Donation
Hnr Assoc. Prof. Jessie Welbourne	Consultant, Honorary Associate Professor Intensive Care Medicine University of Plymouth	Neuro ICU, Research Associate Editor JICS
Dr Martyn West	Consultant	LNC/MEC
Dr Ash Williams	Neuro ICU lead	Neuroanesthesia and Intensive Care

3.6 Details of research projects being undertaken within the unit

University Hospitals Plymouth is the largest recruiter to NIHR CRN studies in the region, benefiting from embedded research nurses and active principal investigators. The lead for CRN studies is Dr Nikitas, who has overseen a major expansion in the range of NIHR portfolio studies. These include UKROX, VitDalize, Genomic, RemapCap, SOS, MARCH, MAST, MAC-ROX, iRehab and others. We offer an academic SSY for ICM trainees, training for academic ACFs and can offer Associate Principal Investigator to appropriate candidates, and supervision of PhDs. There is opportunity to work with the Perioperative and Intensive Care Research Group, in developing new research studies and there is support for publishing in major journals and books.

<https://www.plymouth.ac.uk/research/perioperative-and-intensive-care>

For further details, please discuss with Prof Dan Martin or Associate Prof Jess Welbourne.

3.7 Unit Staffing

Daytime senior staffing comprises 2 Consultants on General ICU and one on Neuro ICU. Working alongside them are stage 3 ICM trainees (working a separate supernumerary consultant-style on-call rota).

Middle grade cover is provided by ICM (stage 2) and Anaesthesia Specialist Registrars (intermediate and higher ICM modules).

Resident cover is provided by a mix of ACCS and medicine Core Trainees plus Foundation Year 1 & 2 trainees with occasional respiratory and acute medicine registrars. We also have an expanding number of trained and trainee FICM Associate Advanced Critical Care Practitioners (ACCPs) who contribute to the resident staffing.

Part 4 Training

4.1 Details of training opportunities on the unit

There are fantastic opportunities for gaining new intensive care skills at Derriford. Having all major specialties and the major trauma centre on one site ensures that the unit case mix is very diverse and the volume sufficient to gain vital experience in a wide range of pathologies that present to critical care. Consultant-led ward rounds occur at least twice daily on the general and neuro intensive care units providing excellent learning opportunities.

Further experience can be gained in the range of therapeutics available in intensive care. This will include training in mechanical ventilation, fiberoptic bronchoscopy, percutaneous tracheostomy, non-invasive ventilation, advanced haemodynamic monitoring including echocardiography and pulmonary artery catheterisation, intracranial pressure monitoring and External ventricular drains (EVDs), EEG, intra-aortic balloon counter pulsation, continuous renal replacement therapy and ultrasound imaging.

The unit has an extensive programme of dedicated teaching and clinical meetings designed to enhance learning opportunities. There is a resident training program that includes simulation and practical skills workshops (approximately once a month), regular FICM exam focused registrar training days, weekly echo teaching. We have a dedicated ICU room for simulation equipped with a high fidelity ICU manikin and a state of the art echo and ICU ultrasound simulator.

There are also daily scheduled meetings on the unit with a consultant radiologist and consultant microbiologist, and a weekly session with a consultant neuroradiologist, which provide valuable training in these important areas.

We are an enthusiastic and hands-on team of consultants who are committed to delivering the best intensive care service, and the best ICM training possible.

4.2 Details of departmental teaching days

Daily Meetings:

- Radiology
- Microbiology

Weekly Meetings:

Mondays	Neuroradiology
Tuesdays	Journal Club
	Current Cases Review
Friday	Echocardiography
	CME lunchtime meeting

Monthly Meetings:

- Mortality and morbidity review meeting
- Resident training program (1 whole day every 5 weeks)

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

Weekly case review meeting
 Weekly clinical risk meeting
 Weekly current cases meeting
 Monthly mortality review meeting

4.4 Number of trainees on each tier of the rota

2 Advanced Trainees (ICM stage 3)

6-8 ITU and Anaesthetic Registrars on full time ITU rota, with additional out of hours cover by Anaesthesia

15 Junior Residents

9 Trained ACCPs + 2 trainees