

The Faculty of Intensive Care Medicine

ICM Unit Brief

Part 1 Hospital Details

1.1 Hospital name

Queen Elizabeth University Hospital

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

1345 Govan Rd
Govan
Glasgow
G51 4TF

1.3 Hospital Telephone number

0141 201 1100

Part 2 ICU Department contact details

2.1 Direct telephone number to Department

0141 452 3081

2.2 Faculty Tutor name

Katherine McDowall and Richard Appleton

2.3 Faculty Tutor Email address

Katherine.mcdowall@ggc.scot.nhs.uk and
Richard.appleton@ggc.scot.nhs.uk

Part 3 Unit Structure

3.1 Number of Beds

24 level 3. 26 level 2

3.2 Number of admissions

874 to ICU (87% of whom were Level 3) and 1593 to HDU in 2021

3.3 Percentage of elective vs emergency admissions

Elective cases comprise about 2.5% of ICU admissions and 29% of HDU admissions

3.4 Overview of case mix within the unit

Varied case mix including numerous surgical and medical specialties:

- Trauma – The QE is the Major Trauma Centre for the West of Scotland
- Surgical – upper and lower GI, regional vascular centre, complex urological cancer surgery, renal transplant, major ENT
- Medical – The QEUH has a wide range of general medical specialities. In addition, it houses the regional infectious diseases unit, regional CF and long term ventilation units and regional renal services. It provides critical care to the Scottish national allogeneic BMT unit and CAR-T programme.

Name	Role (eg clinical lead, consultant)	Areas of Interest
Andrew Mackay	Clinical Director	Education, simulation, Global Health and support for refugee doctors
Peter Stenhouse	Lead Clinician, SICSAG Audit Co-Lead	National Audit
Richard Appleton	Faculty Tutor	Teaching, simulation, EOL care, donation, Quality improvement
Katherine McDowall	Faculty Tutor	Teaching, Simulation
Catriona MacNeil	FICM examiner WOS ICM TPD	Teaching, Simulation, EOL care
Mo Al-Haddad	Honorary Clinical Professor, University of Glasgow MBChB undergraduate lead UoG National Associate Postgraduate Dean International Medical Graduates Programme director for MSc in critical care	Education and Training International Medical Graduates FUSIC heart mentor
Russell Allan	Simulation Lead Quality Improvement co-lead SICSAG audit co-lead	Education, simulation,
Sandy Binning	Clinical Director Emeritus Consultant in ICM and anaesthesia	Healthcare Management Research Major trauma
Andrew Cadamy	Undergraduate training lead, Echocardiography lead Associate Medical Director ScotSTAR EMRS consultant	Echocardiography (FUSIC heart supervisor and BSE level 2 accredited) Prehospital medicine, transfer medicine Medical education
Susan Daisley	Emergency medicine and critical care consultant	Simulation
Alan Davidson	Nutrition Lead	Research
Pam Dean	ICU and anaesthetic consultant	Education, organ donation, FUSIC heart mentor
Robert Docking	SHDU lead Clinical governance lead	Research, education, quality improvement
Pam Doherty	ICU and Anaesthetic consultant	Education, patient safety improvement, donation
John Gardner	Clinical information system lead	Healthcare informatics
Robert Hart	MSc faculty member M&M lead Weekly meeting chair QI co-lead	Systems thinking/human factors Healthcare safety ICM education SSY Supervisor Rib fracture analgesia
Mark Henderson	Lead for Clinical Fellows	Healthcare Law, FUSIC heart mentor
Gregor Imrie	Lead for foundation doctors Senior trainee co-ordinator	Teaching
Chris Lochrin	Equipment Lead Transfer Lead Co-lead QE CCM	Major trauma. Critical Care transfer, Education
Finbar O'Sullivan	Trauma Lead	Trauma, simulation, toxicology FUSIC lung, abdomen, DVT vascular supervisor FUSIC heart mentor
Sarah Ramsay	ICU and Anaesthetic Consultant RCOA council member	Education
Malcolm Sim	Professor, co-course director for critical care MSc	Research and education
Laura Strachan	Consultant lead for AACP training Clinical lead Unscheduled care	Post intensive care syndrome Research FUSIC heart mentor
Chris Wright	Consultant in critical care Liaison/lead for oncology/haematology in ICU	Severe respiratory failure Critical illness in onc/haem patients and post stem cell/CAR-T Therapy Research

3.6 Details of research projects being undertaken within the unit

Current research studies in which the unit is participating:

- Flow veRsus OxygeNaTion In acutE ReSpiRatory failure (FRONTIERS):
- A2B (alpha 2 agonists for sedation to produce better outcomes)
- SIGNET (Simvastatin during care after diagnosis of death using neurological criteria)
- AEROGEN
- REMAPCAP (Randomised embedded multi-factorial, adaptive platform trial for community acquired pneumonia)
- RECOVERY (Randomised evaluation of COVID-19 therapy)
- CONNECT

Upcoming:

- EIT band
- TRAITS

Completed/ recent studies:

- The Diagnostic use of Metabolomics for the Early Recognition of Sepsis:

3.7 How is the unit staffed

Consultants

Five consultants cover critical care for each 24 hour period Monday to Friday

- 1 Referrals 0800 -2000 and Nightshift 1st on-call consultant
2. Critical Care unit 2 (mixed unit)
3. Critical Care unit 3 (mixed Unit)
4. Critical Care unit 4 (mixed unit)
5. SHDU units 1 and 6 consultant.

(In addition there is a separate rota for MHDU)

At weekends the role of referrals consultant is shared between the other 4 team members

Trainees

A two tier rota is in operation.

First tier is staffed by junior medical staff who are working towards gaining a sign off for a stage 1 ICU block as part of the anaesthetic, ICM or ACCS curricula. These doctors may or may not have previous airway experience. Those on the junior tier will always be on shift with a more experience doctor who is airway competent.

The second tier is staffed by medical staff who are airway competent and are either completing a second stage 1 block in CT3, or who are working towards stage 2 blocks or higher.

There is a 3rd doctor on each shift who is part of our clinical fellow rota. We also have FY doctors and physicians in training from a range of backgrounds who contribute to the rota.

In addition, a trainee in Stage 3 ICM training is often attached to the unit and works an on -call rota agreed with the TPD.

ACCPs –There is an ACCP on each shift who works alongside the above.

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

The ICU is located on the critical care floor with two surgical HDUs and a medical HDU (9 beds; 1100 admissions pa). These are staffed by critical care consultants and trainees at more senior stages will be encouraged to gain experience in high dependency care. The above case mix provides exposure to specialty conditions not accessible in other units in Scotland. The development of the QEUH as a trauma centre has further increased the range of conditions presenting to the QE.

There are many areas of interest within the consultant body including research, quality improvement, echo skills, prehospital and transfer medicine, teaching and simulation skill development. We have a busy programme of undergraduate and post-graduate teaching. We are able to support trainees wishing to undertake special skills years in the above areas.

We run a number of courses and meetings covering a diverse range of topics – more details are available on the departmental sharepoint.

4.2 Details of departmental teaching days

Weekly teaching as part of rolling programme, including simulation sessions. Aim is to cover basics but also bring in a range of external speakers to cover topics of relevance to ICM. This session is factored into training hours and attendance is expected. Senior trainees will lead some of these sessions.

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

- Thursday pm is the day of the unit meeting which includes clinical governance, QI, journal club, research and other presentations.
- Weekly review of all deaths and discharges, using a standardised method. Cases benefiting from more detailed review identified. These cases are then presented at an extended quarterly meeting.

4.4 Number of trainees on each tier of the rota

There are 5 WTE equivalents on each rota tier.

On both tiers trainees work a compliant full shift rota with an equal spread of shifts between days and nights. It is expected that a trainee works a maximum of 4 consecutive shifts. If there are additional shifts to be covered, support will be provided from the general anaesthetic rota to ensure the ICU rota remains compliant. In addition to clinical work, each trainee is allocated hours to attend the weekly clinical governance meeting and teaching.