

The Faculty of Intensive Care Medicine

ICM Unit Brief: Glan Clwyd Hospital, North Wales

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Web

ICU Website – contains lots of info about the unit

<https://sites.google.com/view/ygc-icu/home>



Bwrdd Iechyd Prifysgol
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Faculty Tutor Details

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Overview of case mix within the unit

We have 13 adult critical care beds, of which 8 offer level 3 care.

We admit around 850 patients per year: approximately half are surgical (including elective). About a third of patients require Level 3 care, with mean APACHE II score 16-17 and mean age around 60 years. We occasionally admit under 18-year-olds for short-term care (e.g. intubated following seizures) or pending transfer to a tertiary centre. Our median length of stay is 2-3 days and SMR around one.

We are the regional centre for Vascular Surgery, Oncology, for Maxillofacial Surgery, and for Interventional Cardiology. We are home to the North Wales Cardiac Centre, offering primary PCI and associated therapies. We are one of three Cardiac Arrest Centres in Wales.

As a rural Trauma Unit, the hospital frequently receives undifferentiated major trauma, and ICU doctors have a major role in resuscitating these patients and turning them around for transfer to the regional Major Trauma Centre 100 miles away. We are supported in this by a fully-staffed ED, and 24/7 imaging. In a formal peer review in 2016, the hospital came top of the 14 Trauma Units in our network for trauma management.

Patient transfers are undertaken when possible by EMRTS Cymru, the dedicated Wales prehospital, transfer and retrieval service.

We host a variety of training posts in the unit:

- Deanery (HEIW) trainees – we are accredited for training including higher training to consultant level
- Clinical Fellows
- IMT Medical Trainees
- Academic F2 posts
- F1 posts
- Advanced Critical Care Practitioners
- Anaesthetic trainees undertaking ICU modules
- MMed Posts – clinical fellows from overseas undertaking specialist ICM training

Unit Consultants (9)

| Name | Role | Areas of interest |
|---------------------|--|---|
| George Bugelli | Consultant | Sepsis/procalcitonin |
| Andrew Foulkes | Clinical Director | Neurocritical care; Organ Donation; management |
| Andrew Evans | Consultant | Patient care |
| John Glen | FICM Tutor Clinical Governance Lead | Renal Replacement Therapy; Education; Governance |
| Venkat Sunderam | Unit Clinical Lead | Neurocritical Care |
| Richard Pugh | Research Lead; Health Board Clinical Lead | Research, Undergraduate Teaching |
| Ramakrishnan Shobha | Paediatric Lead; airway lead | Transfer medicine, paediatrics; airway |
| Brian Tehan | Medical Examiner | Quality Improvement, safety |
| Craig Beaton | Echocardiography/Ultrasound Lead; Recognition of the critically ill | Military Medicine; ultrasound; sepsis |
| Tom Beach | New appointment | TBC |
| Tushar Mahambrey | Site Medical Director | Management |

3**Training****On the Unit**

- Daily teaching ward round
- Consultant-supported management of patients outside/referred to the unit.
- North Wales Cardiac Centre on-site: opportunity to manage patients with balloon pumps etc.
- Citrate Anticoagulation for Renal Replacement Therapy.
- Weekly multi-disciplinary team meeting
- Monthly Journal Club as part of Ed-Tue-Cation
- Monthly M+M as part of Ed-Tue-Cation
- Registered Focused Intensive Care Echocardiography mentors, and 3 state of the art echo machines.
- Ed-Tue-Cation: every Tuesday, 1730-1900, in person or on Teams – theme rotates every week: Journal Club then M&M then Lecture then CG business meetings

Departmental and Regional Teaching

- 12 days ICM teaching per year across Wales, covering selected curriculum topics.
- ICM trainees join Anaesthetic teaching – weekly afternoon sessions.
- Bi-monthly clinical governance (half or full day), in conjunction with Anaesthesia.
- Hospital has a link to Hosanna Hospital, Ethiopia: trainees with an interest in International Development/Developing Healthcare Systems will find much to do here.

In-house Courses

| Course | Frequency |
|--|------------------|
| ATLS/ALS/APLS | Yearly |
| North Wales Trauma Course (locally delivered corollary to ETC) | Yearly |
| Basic Assessment and Support in Intensive Care (BASIC) | Yearly |
| BASIC: Developing Healthcare Systems (delivered in Ethiopia) | Yearly |
| Focussed Echo in Emergency Life Support (FEEL) | Yearly |
| Focussed Intensive Care Echo (FICE) | Yearly |
| FICEplus course (opportunity to achieve first 10 supervised scans) | Yearly |
| Core Ultrasound in Intensive Care (CUSIC) | Yearly |
| All Wales Transfer Course | 3x/year |
| Can't Intubate Can't Oxygenate (CICO) official course provider | 6x/year |
| Medical Skills course (CVC insertion, LP, chest drains etc.) | Yearly |

Trainees as trainers

| | |
|---|-------------------------|
| Seren group: programme for local schoolchildren who are interested in applying for medicine. Ideal opportunity to demonstrate altruism in the 'interests outside medicine' element of specialty applications. | Weekly during term time |
| Opportunity to organise courses: FICE; CUSIC; BASIC | Yearly |
| Regular monthly trauma training delivered by nominated trainee | Monthly |
| Medical school sim suite on-site – opportunities to deliver formal teaching | Ongoing |
| Formal monthly anaesthesia/ICM training | Ongoing |

4.4 Details of junior doctor shift patterns (including on call)

Full-shift, EWTD-compliant rotas. 1:8 out-of-hours rota.
 At least two trainees/specialty doctors are based in ICU during daytime hours.
 Out-of-hours cover (17.30-08.30): Dedicated ICM cover by one or two middle grades, supported by 2 additional anaesthesia middle grades covering theatres and obstetrics.

4.5 Details of senior doctor shift patterns (including on call)

Consultants cover the ICU during daytime for a full week 1:8, and participate in a 1:8 non-resident on-call rota.
 Consultants also provide weekday HDU sessions (i.e. weekdays there are two consultants on the unit).

3.6 Details of research projects being undertaken within the unit

We have dedicated research nurses, and the unit has a constant turnaround of high-value research. This list is likely to be out of date by the time you read it.
 Trainees are encouraged to complete GCP training and become local collaborators/Principal Investigators in any of these trials. Recent trials include:

- UKROX
- EPOCH study (Emergency Laparotomy quality improvement project);
- Qualitative study on widening access to medicine
- Review of citrate anticoagulation for RRT
- QI project looking at frequency of blood tests

Part 5**Additional information**

We offer a pleasant environment in which to work and train. Trainees have access to a dedicated doctors' mess which has just been refurbished. Our ICU offers IT facilities for trainees, as well as a large seminar room with videoconferencing capability. The hospital has a large library, and a well-equipped postgraduate centre.

The entire hospital has been rebuilt in the past 5 years, and this includes the ICU.

We are supported by a Critical Care Outreach team, who work every night and most days.

We are training Advanced Critical Care Practitioners, who can relieve trainees of some of the day-to-day 'administrative' load, and offer opportunities for trainees to be trainers.

Operating Department Practitioners attend all ward-/ED-based emergencies, to support ICU doctors with intubation, line placement and transfers (intra- and inter-hospital).

The hospital is very friendly and we have excellent relations with all parent specialties, who can provide further (informal and formal) educational opportunities for trainees.

Glan Clwyd Hospital is home to the North Wales Clinical School, a large and modern annexe of Cardiff Medical School. ICU contributes to teaching there, and we have access to its high-fidelity simulation suite. There are opportunities for interested trainees to deliver teaching in a number of contexts throughout the hospital.

Glan Clwyd Hospital is situated on the North Wales Coast, an area of Outstanding Natural Beauty. We are home to five UNESCO World Heritage Sites, and are a magnet for outdoor enthusiasts: we have excellent wind and kitesurfing, the mountains of Snowdonia, a man-made surfing lake (6 foot waves every 3 minutes), and Europe's longest zipline.