

The Faculty of Intensive Care Medicine

ICM Unit Brief

Part 1 Hospital Details

1.1 Hospital name

Royal Papworth Hospital NHS Trust

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

Papworth Road
Cambridge Biomedical Campus
Cambridge
CB2 0AY

1.3 Hospital Telephone number

01223 638000

Part 2 ICU Department contact details

2.1 Direct telephone number to Department

01223 638180

2.2 Faculty Tutor name

Dr Nicola Jones

2.3 Faculty Tutor Email address

Nicola.jones24@nhs.net

Part 3 Unit Structure

3.1 Number of Beds

46 Beds

3.2 Number of admissions

2000 - 3000 per year

3.3 Percentage of elective vs emergency admissions

Approximately 75% of our work is elective and 25% is emergency

3.4 Overview of case mix within the unit

Average occupancy by speciality:
Cardiac surgery = 50-60%
Transplant/heart failure/VADS = 15- 20%
Respiratory ECMO = 5-10%
Pulmonary Thromboendarterectomy = 5-10%
Respiratory/thoracic = 5%
Cardiology = 5%

Dr Estefania Arenas MD	Cardiothoracic Anaesthesia ALERT Team Lead
Dr Joe E Arrowsmith MD FRCP FRCA	Cardiothoracic Anaesthesia, GMC Examiner, LNC Chair
Dr Angus Butchart FRCA	Cardiothoracic Anaesthesia and ICU
Dr Christiana Burt MA FRCA LLM	Cardiothoracic Anaesthesia ES – Anaesthesia Trainees
Dr Thomas Chloros MD	Cardiothoracic Anaesthesia and ICU ES – Foundation Doctors
Dr Florian Falter MA MD PhD FRCA	Cardiothoracic Anaesthesia Department chairman, ES – Anaesthesia Trainees
Dr Roger M Hall FANZCA FRCA	Cardiothoracic Anaesthesia, Medical Director, Royal Papworth Hospital
Dr Rachel Jooste MD	Cardiothoracic Anaesthesia and ICU ES – IMT Trainees
Dr Hannah Kiziltug FRCA	Cardiothoracic Anaesthesia and ICU
Dr Andrew Klein FRCA, FFICM	Cardiothoracic Anaesthesia, Editor in Chief <i>Anaesthesia</i>
Dr Eleftherios Koumas MD	Cardiothoracic Anaesthesia and ICU
Dr Shane George FRCA FRCP FFICM, MBA	Cardiothoracic Anaesthesia Head of Society of Anaesthetists in Radiology
Dr Nicola Jones FRCA FFICM	Cardiothoracic ICU ICU Business Unit Lead, FICM Tutor
Dr Pradeep Madivathanan MD	Cardiothoracic Anaesthesia and ICU ES – ICU Fellows
Dr Guillermo Martinez MD	Cardiothoracic Anaesthesia, Theatre Business Unit Lead
Dr Chinmay Patvardhan FRCA	Cardiothoracic Anaesthesia and ICU Perioperative Lead, ES – Anaesthesia Trainees
Dr Barbora Parizkova MD, FFICM	Cardiothoracic Anaesthesia Transplant Lead
Dr Ganesh Ramalingam FRCA FFICM	Cardiothoracic Anaesthesia and ICU IT & Metavision; RCoA Tutor
Dr Antonio Rubino MD, FFICM	Cardiothoracic Anaesthesia and ICU Rota master – consultants, FICE Lead, ES – Anaesthesia Trainees
Dr Kiran Salaunkey FRCA, FFICM	Cardiothoracic Anaesthesia and ICU Theatre Business Unit lead, ES – Foundation Doctors
Dr Hilary Shanahan FCARCSI	Cardiothoracic Anaesthesia and ICU TOE lead, Blood Transfusion Lead
Dr Laurien van Koppenhagen MD	Cardiothoracic Anaesthesia and ICU, ES – IMT, ICM trainees, Rota master - ICU trainees
Dr Alain Vuylsteke MD, MA, FRCA, FFICM	Cardiothoracic ICU CADS Clinical Director, FICM Examiner
Dr Stephen T Webb FRCA FFICM	Cardiothoracic ICU Associate Medical Director
Dr Dan Aston (Locum) MD	Cardiothoracic Anaesthesia and ICU
Dr Charles Chan (Locum) MD	Cardiothoracic Anaesthesia and ICU
Dr Pooveshni Govender (Locum) MD	Cardiothoracic Anaesthesia and ICU
Dr Abhi Mishra (Locum) MD	Cardiothoracic Anaesthesia and ICU
Dr Lucy Mwaura (Locum) MD	Cardiothoracic Anaesthesia and ICU,

Red – ICU only, Blue – ICU and anaesthesia, Green – anaesthesia only

3.6 Details of research projects being undertaken within the unit

We are a very research active unit, participating in current Covid-19 related studies as well as many more, here are just a selection:

Research Title	Investigator
<p>The REST Study : pRotective vEntilation with veno-venous lung assist in respiratory failure</p> <p>A pragmatic randomised controlled trial to determine whether Extracorporeal Carbon Dioxide Removal (VV-ECCO2R) in mechanically ventilated patients with hypoxaemic respiratory failure improves 90 day mortality .</p> <p>National Institute for Health Research^{1,2} Health Technology Assessment Ref no: 13/141/02</p>	Dr A Vuylsteke
ISARIC/WHO Severe Acute Respiratory Infection Biological Sampling Study.	Dr A Vuylsteke
The efficacy of prophylactic nasal high flow oxygen compared with standard oxygen therapy in improving early postoperative recovery after lung resection surgery.	Dr A Klein
Validation of the Bleeding Risk Score (BRiSc) for excessive bleeding after cardiac surgery.	Dr A Vuylsteke
The LIFEGARDS study: Ventilation management of patients with extracorporeal membrane oxygenation for acute respiratory distress syndrome: an international multicenter observational research project.	Dr K Valchanov
The repurposing of clinical data for quality improvement in critical care (ReCliC). The Health Foundation	Dr A Vuylsteke
Continuous ambulatory non-invasive Visensia monitoring of cardiac surgical patients following discharge from intensive care. Impact on detection of physiological deterioration. OBS Medical	Dr J Mackay
A randomised controlled pilot study comparing standard fluid management with haemoconcentration of remaining cardiopulmonary bypass blood using the new Hemosep device	Dr A Klein
PROXIMA evaluation: First UK evaluation of an in line near patient continuous arterial blood gas analyser	Dr K Salaunkey
Lung ultrasound and the role of lung aeration score in patients with acute respiratory distress syndrome (ARDS) on extracorporeal membrane oxygenation (ECMO): a prospective observational study	Dr A Rubino
Cluster randomised trial of the clinical and cost effectiveness of the i-gel supraglottic airway device versus tracheal intubation in the initial airway management of out of hospital cardiac arrest	Dr A Vuylsteke
Cog-Train Feasibility and Acceptability Study: a single-arm trial investigating the feasibility and acceptability of a preoperative cognitive training intervention (Cog-Train) in cardiac surgical patients.	Dr L van Koppenhagen / Dr A Vuylsteke

3.7 How is the unit staffed

<p>ICU Day</p> <p>3 Consultants, 4 junior ICU doctors (FY2/IMT1/ICU Registrars/fellows), 1-2 Anaesthetic Registrar/Fellow</p> <p>1 Surgical Registrar</p> <p>ICU Night</p> <p>1 Consultant, 2 junior ICU doctors (FY2/IMT1/ICU registrars/fellows), 1-2 Anaesthetic Registrar/Fellow</p> <p>1 Surgical Registrar</p>
--

4.1 Details of training opportunities on the unit

Management of complex cardiothoracic disease
 Heart/lung transplant
 Mechanical cardiac support (IABP/VA-ECMO/VADs)
 Pulmonary thromboendarterectomy
 Post-op major aortic surgery
 Cardiology incl PCI/EP/structural/OOHCA
 VV-ECMO (ICU and retrieval service)
 Point of Care heart/lung ultrasound (majority of consultants are mentors)
 TOE (majority of consultants have accreditation)

4.2 Details of departmental teaching days

Monday	07:30-08:00 – Case presentation
Tuesday	07:30-08:00 – POCUS teaching
Wednesday	07:30-08:30 – Consultant teaching
Thursday	07:30-08:00 – Trainee presentation
Friday	07:30-08:00 – Journal Club
Changing day	18:00-19:00 – TOE teaching

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

Weekly ICU MDT and M&M
 Weekly complex patient meeting
 Monthly ECMO MDT and M&M
 Monthly Surgical MDT and M&M
 Monthly Peri-op TOE quality assurance
 Quarterly FICE quality assurance

4.4 Number of trainees on each tier of the rota

ICU trainees junior (FY2/MT/SHO): 8
 ICU trainees senior (senior registrar/fellow): 8
 Anaesthetic Registrars/Fellows – 21