

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

2.1 Direct telephone number to Department

01223 638180

2.2 Faculty Tutor name

Dr Lenka Cagova

2.3 Faculty Tutor Email address

lenka.cagova@nhs.net

3.1 Number of Beds

Open to 36 beds

3.2 Number of admissions per year

~ 2500 admissions per year, predominantly Level 3

3.3 Percentage of elective vs emergency admissions

Elective 75%, Emergency 25%

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%
Respiratory/thoracic = 5%
Cardiology = 10%

3.5 Names of Consultants, roles and areas of interest

Dr Alain Vuylsteke MD, MA, FRCA, FFICM	Cardiothoracic ICU STA Clinical Director, Joint ICU Clinical Lead, ECMO Service Director, FFICM Examiner
Dr Nicola Jones FRCA FFICM	Cardiothoracic ICU Director of Medical Education, Joint ICU Clinical Lead, Year 4 Clinical Lead - Cambridge Clinical School of Medicine

Dr Stephen T Webb FRCA FFICM	Cardiothoracic ICU Deputy Medical Director, Joint ICU Clinical Lead, ES – ICU trainees, ICU fellows
Dr Estefania Arenas MD	Cardiothoracic Anaesthesia ALERT Team Lead, Transplant Lead
Dr Joe E Arrowsmith MD FRCP FRCA	Cardiothoracic Anaesthesia, GMC Examiner, LNC Chair, ATACCPresident ES – Anaesthesia fellows
Dr Dan Aston FRCA	Cardiothoracic Anaesthesia and ICU Chair – Anaesthetic M&M ES – ICU and Anaesthesia fellows
Dr Angus Butchart FRCA	Cardiothoracic Anaesthesia and ICU University of Cambridge Undergraduate Specialty Tutor
Dr Christiana Burt MA FRCA LLM	Cardiothoracic Anaesthesia Medical Examiner ES – Anaesthesia trainees
Dr Francisca Caetano	Cardiothoracic ICU and Cardiology University of Cambridge Undergraduate Specialty Tutor ES – ICU fellows
Dr Lenka Cagova EDIC MSc	Cardiothoracic Anaesthesia and ICU ICU VTE Lead FICM Tutor, ES – ICU fellows
Dr Thomas Chloros MD	Cardiothoracic Anaesthesia and ICU Lead – Perioperative Echocardiography ES – Anaesthesia fellows, Foundation doctors
Dr Rachel D'Oliveiro MRCP (Resp Med) FFICM	Cardiothoracic ICU and Respiratory Medicine ICU Sepsis Lead Deputy FICM Tutor, ES – ICU fellows, ICU trainees, IMT
Dr Florian Falter MA MD PhD FRCA	Cardiothoracic Anaesthesia, Department Chairman, ES – Anaesthesia trainees
Dr Robert Gatherer	Cardiothoracic Anaesthesia and ICU Chair – Complex Patient Meeting ES – Anaesthesia trainees, IMT
Dr Shane George FRCA FRCP FFICM, MBA	Cardiothoracic Anaesthesia Head of Society of Anaesthetists in Radiology ES – Anaesthesia fellows
Dr Mike Hoy	Cardiothoracic Anaesthesia and ICU
Dr Tim Keady	Cardiothoracic Anaesthesia and ICU
Dr Hannah Kiziltug FRCA	Cardiothoracic Anaesthesia and ICU <i>Currently on Sabbatical</i>
Dr Andrew Klein FRCA, FFICM	Cardiothoracic Anaesthesia Editor in Chief <i>Anaesthesia</i> ES – Anaesthesia fellows
Dr Eleftherios Koumas MD	Cardiothoracic Anaesthesia and ICU ES - IMT
Dr Pradeep Madivathanan MD	Cardiothoracic Anaesthesia and ICU ES – ICU fellows, ICU trainees
Dr Guillermo Martinez MD	Cardiothoracic Anaesthesia
Dr Jagan Murugachandran MRCP (Resp Med) FFICM	Cardiothoracic ICU
Dr Hema Nair	Cardiothoracic Anaesthesia and ICU
Dr Chinmay Patvardhan FRCA	Cardiothoracic Anaesthesia and ICU Perioperative Lead, Lead for Thoracic Anaesthesia ES – Anaesthesia trainees
Dr Barbora Parizkova MD, FFICM	Cardiothoracic Anaesthesia and ICU
Dr Sameer Patel	Cardiothoracic Anaesthesia and ICU

Dr Ganesh Ramalingam FRCA FFICM	Cardiothoracic Anaesthesia Lead for Digital/Metavision RCoA Tutor, ES – Anaesthesia trainees, Anaesthesia fellows
Dr Antonio Rubino MD, FFICM	Cardiothoracic Anaesthesia and ICU FICE Lead Rota Master - Consultants ES – Anaesthesia trainees
Dr Kiran Salaunkey FRCA, FFICM	Cardiothoracic Anaesthesia and ICU Theatre Business Unit Lead ES – Foundation factors, IMTs
Dr Rachel Wong	Cardiothoracic Anaesthesia and ICU
Dr Cheng Yeo	Cardiothoracic Anaesthesia and ICU

Green – ICU Only; Blue – Both ICU and Anaesthesia, Red – Anaesthesia Only

3.6 Details of research projects being undertaken within the unit

Active Studies	Full Title	PI
GenOMICC	Genetics of susceptibility and mortality in critical care https://genomicc.org/results/	Dr Alain Vuylsteke
RECOVERY	Randomised Evaluation of COVID-19 Therapy https://www.recoverytrial.net/results Remains open to recruitment of Covid patients and patients with Influenza with the following comparisons: <u>SARS-CoV-2</u> <ul style="list-style-type: none"> • High-dose dexamethasone (among patients on non-invasive or invasive ventilatory support) • Empagliflozin • Sotrovimab • Molnupiravir • Nirmatrelvir-ritonavir (Paxlovid) <u>Influenza</u> <ul style="list-style-type: none"> • Baloxavir • Oseltamivir • Low dose steroids (hypoxic, SARS-CoV-2 negative) 	Dr Robert Rintoul
REMAP-CAP	Randomized, Embedded, Multifactorial, Adaptive Platform trial for Community-Acquired Pneumonia https://www.remapcap.org/media Open for recruitment of Influenza and Covid19 patients who have been on ICU level care <48hrs Open comparisons: <ul style="list-style-type: none"> • Oseltamivir • Macrolide Antibiotics Awaiting Baloxivir comparison Statin domain now closed	Dr Alain Vuylsteke

UK-ROX	Evaluating the clinical and cost-effectiveness of a conservative approach to oxygen therapy for invasively ventilated adults in intensive care	Dr Alain Vuylsteke
NOTACS	Effect of High-Flow Nasal Therapy on Patient-Centred Outcomes in Patients at High Risk of Postoperative Pulmonary Complications After Cardiac Surgery: A Multicentre Randomised Controlled Trial.	Dr G Martinez
High-flow aerosol generation study (NOTACS sub study)	Aerosol generation after tracheal extubation with high-flow nasal oxygen therapy compared with standard low-flow oxygen therapy: a randomised controlled trial	Dr Andrew Klein
CCP	ISARIC/WHO Clinical Characterisation Protocol for Severe Emerging Infections Hibernated for Covid Oct 2021 Reactivated for Monkey Pox June 2022	Dr Alain Vuylsteke
T4P	The Threshold for Platelets study: A prospective randomised trial to define the platelet count below which critically ill patients should receive a platelet transfusion prior to an invasive procedure	

3.7 An overview of the staffing for the unit (including medical, ACCP, AHPs)

<p>Day</p> <ul style="list-style-type: none"> 2 - 3 Consultants 4 - 6 ICU junior doctors (FY2/IMT/ICM StR/ICM fellow) 1 Surgical registrar 1 Critical Care Scientist <p>Night</p> <ul style="list-style-type: none"> 1 Consultant 2 – 3 ICU junior doctors (FY2/IMT/ICM StR/ICM fellow) 1 Anaesthesia StR/fellow 1 Surgical registrar

4.1 Details of training opportunities when working at this unit

Management of complex cardiothoracic disease
 Heart/lung transplantation
 Mechanical circulatory support (IABP/VA-ECMO/VADs)
 VV-ECMO (in-house and national retrieval service)
 Pulmonary thromboendarterectomy
 Post-op major aortic surgery
 Cardiology including PCI/EP/structural/OOHCA
 Complex respiratory disease including pulmonary hypertension, cystic fibrosis, interstitial lung disease
 Point of Care heart/lung ultrasound
 Trans-oesophageal echocardiography

4.2 Details of departmental teaching

Monday 0730 – 0830: ICU teaching (peer to peer)
 Tuesday 0730 – 0830: POCUS teaching
 Wednesday 0730 – 0830: ICU teaching (consultant led)
 Thursday 0730 – 0830: Anaesthesia teaching, Echo teaching
 Friday 0730 – 0830: Journal Club

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

Monday 1700 – 1800: ECMO MDT (monthly)
 Tuesday 1600 – 1700: Complex Patient Meeting (weekly)
 Wednesday 1600 – 1730: ICU M&M and MDT (weekly)

4.4 Number of trainees on each tier of the rota

Junior (FY2/IMT/Junior Clinical Fellow): 9
 Senior (ICM StR/Senior Clinical Fellow): 8
 Anaesthesia StR/Fellow: 17