



Year 5 Critical Care at St Peter's Hospital

Dr Pardeep Gill, Consultant Anaesthetist and Clinical Lead

One of the recurring frustrations I have as an Intensive Care Consultant is trying to manage patients whose clinical deterioration could have been anticipated and managed hours or even days earlier. The teaching and training of acute medicine and critical care has lagged behind the more traditional specialities for many years. Ironically the initial recognition and management of sick patients is a core skill that all doctors working in front line specialities should possess.

Critical care medicine is a young speciality but is developing rapidly. With the ever ageing population and the increasing availability of complex treatments, the provision of critical care for these patients has inevitably grown. The infrastructure is there but now the training needs to be delivered. A recurring thought I had as a junior doctor as I slowly worked through the different training posts was why weren't we taught some of this at medical school? It was all very well knowing about sarcoidosis or porphyria but what do you do when confronted with a comatose patient or a patient who is barely breathing? Somehow this fundamental knowledge and skill has been sidelined.

So you can imagine my excitement when Imperial College decided to start a Critical Care module for their 5th year students. The 2 week module at Ashford and St Peters gives a broad exposure to Critical Care in its widest sense. The students spend time on the Intensive Care Unit at St Peters but are also allocated to the Medical High Dependency Unit and A and E 'Resus.' There is also ample opportunity to spend time with the Outreach Team who assess sick patients on the wards and they have a teaching session with our ICU Pharmacist.

I hope this gives a valuable introduction to Critical Care Medicine and gives the students some confidence in knowing how to approach and where to start with the patient who is deteriorating.

A student view: Natasha Newlands – Year 5 Student



"Crash Call, A+E Resus, Crash Call" this was the sound that plunged us into the excitement and tension of a cardiopulmonary arrest. When we reached the Resus room, I was surprised to find the team calmly waiting for the ambulance, far removed from the television drama chaos that I had expected. Five minutes of more members of the resuscitation team arriving and then through the open doors paramedics hastened with a trolley carrying an elderly gentleman in PEA who had collapsed at home that morning. His downtime was about 15 minutes but the paramedics had got a pulse back. Manual chest compressions were replaced by a machine, appropriately called the "thumper", ventilation was continued by the Anaesthetist, heart monitoring devices were connected and adrenaline was given. During CPR, the reversible causes for PEA were assessed. The patient had none and the decision to stop CPR was taken.

Carrying a crash bleep enabled me to witness several arrests and even, by the end of the attachment, play an active role in the team, from flushing cannulas to delivering chest compressions. It made me appreciate that often resuscitation efforts are unsuccessful, which I am pleased to have learnt as a student rather than as a newly qualified doctor. I also spent some time attached to the Outreach nursing team, who are trained to assess patients in the hospital that the ward staff are worried about. They taught me how to recognise the critically ill patient and the subtleties inherent in this evaluation. Such experience will be invaluable in the future. My time on ITU and Medical HDU was spent assessing patients and presenting them on teaching ward rounds and being taught how to place central lines, NG/NJ tubes and airways including tracheostomies.

The staff in ITU and in A&E were very welcoming and keen to teach, which, along with the good facilities of a student computer room and library and friendly undergraduate coordinators (who gave us a much appreciated tour of the hospital on the first day), made the attachment very enjoyable. It provided good revision of basic physiology, which followed on well from the pathology course.



New Appointments

Congratulations to the following new educational appointments:

- Dr Paul Booton—
Chair of Year 5 Examination Board
- Professor Martyn Partridge—
Deputy Director of Education
- Dr Nina Salooja—Head of Year 6
- Dr Sarvesh Saini—Head of Year 3 (joint)
- Dr Tanya Tierney—Head of Graduate Entry

Obituary – Linda Ryan (1967 – 2010)

Linda was born in Portsmouth in 1967 and later moved to Leicester. She eventually moved to London and found a caring companion in Mark in 1990. On leaving School Linda joined Taylor Woodrow as a typist and gradually made her way up the career path reaching the role of Graduate Recruitment Manager.

Linda moved on to become the undergraduate educational co-ordinator for Imperial College at the Hillingdon Hospital Campus in 2003. She soon invested her talents in the best ever organisation of undergraduate medical education at the Hillingdon Hospital that earned her tremendous applause and commendation from the students, teachers and managers alike. Governance visits were meticulously organised, her dedication to her role and the students was clear and second to none.

The ruthlessness of Mother Nature only became clear two and half years ago when the severity of Linda's illness was first confirmed. Despite this, she maintained her composure and kept her objective focussed; she remained absolutely passionate and committed to her job that she enjoyed so much even towards the last stage of her life.

Linda – you have many friends and admirers; you nurtured them in the way that they owe their success to you.



Memorial Service in the Chapel at Hillingdon Hospital – Friday 19 November 2010 in the Chapel 1-1:30pm

Medical Education News is produced by the Faculty Education Office for staff of the Faculty and associated Trusts. We would welcome any articles for publication on your latest medical education news. If you would like to contribute something to the next edition of the newsletter please contact Mr Paul Ratcliffe, Quality Management and Educational Business Manager, via email on p.ratcliffe@imperial.ac.uk or via telephone on: 020 7594 9819.

Online: <https://education.med.imperial.ac.uk/Staff/MEN.htm>

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Medical Education News

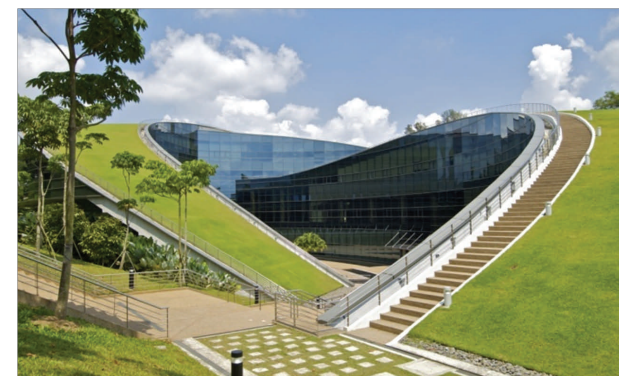
New joint Imperial-Nanyang medical school to be created in Singapore

A new medical school training undergraduate doctors in Singapore and awarding joint Imperial College London and Nanyang Technological University (NTU) degrees is to be established by 2013.

The medical school, an autonomous school of NTU which will be jointly managed by NTU and Imperial College London, will see Imperial developing and delivering a course overseas for the first time.

The new medical school will admit its first cohort of 50 students in 2013, the majority of whom will be Singaporean. At steady state, over 750 students will be enrolled in the five-year Imperial-NTU undergraduate medicine degree course, and approximately 150 new students will be admitted annually.

The main aim of the medical school, which will be the third in Singapore, will be to train more high quality doctors and medical leaders. The students will gain the skills required to meet the present and future needs of Singapore's healthcare system to support a population that is living longer.



Sir Keith O'Nions FRS, Rector of Imperial College London, said: "We are extremely proud to be working with Singapore, a country we have long admired for its support and application of world class science, engineering and medicine.

"We have many members of the Imperial family already in Singapore - the country is home to nearly 2,000 of our alumni. Over the years we've developed strong relationships in Singapore, working on collaborative projects with universities such as the National University of Singapore and NTU, as well as with research institutions overseen by A*STAR.

"Our newest partnership with NTU is extremely exciting and we are delighted to be joining forces with an institution that embodies many of our own aspirations, to develop a new generation of Singaporean doctors.

"The partnership gives us the chance to work with Singapore's talented students and also provides a rare opportunity to pioneer a new medical curriculum. Singapore's healthcare system will face a range of challenges in the future and we aim to equip our students with the skills they will need to tackle them. I hope that this agreement will allow us to share new ideas and innovations for teaching medicine and will open the door

to a range of collaborations across our disciplines."

Dr Su Guanng, President of NTU, said: "NTU is delighted to partner Imperial College London, one of the top five universities in the world, to set up the new joint medical school. As a leading science and technology university, NTU has extensive research in biomedical solutions and devices, health economics and pandemic alleviation. Our ideas for future health-



care systems and research into therapies and medical technology will put NTU at the forefront of innovation in medical solutions and healthcare systems. Combining NTU's core strengths in engineering and business with Imperial's world-renowned medical expertise, we are confident that the new medical school at NTU will become an outstanding reference point around the world."

His Excellency Mr Paul Madden, British High Commissioner for Singapore, said: "I congratulate Imperial College and NTU on this visionary joint project. The new Medical School will deliver outstanding quality doctors into the Singapore healthcare system, and stimulate exchange opportunities which improve training in both our countries. Hundreds of Singapore's best and brightest young people study at Imperial College and I am delighted to see this further strengthening of Singapore's ties with one of the top institutions in the world."

Continued on page 2...



AWARDS FOR TEACHING EXCELLENCE FOR NHS TEACHERS AND INAUGURAL LECTURE

'Translational research: Gila Monsters, Neuropeptides and Margaret Thatcher'

Speaker: Professor Karim Meeran

Wednesday 10 November 2010, 5.30-8.00pm

Lecture Theatre 1, Sir Alexander Fleming Building, South Kensington Campus, London SW7 2AZ

Please RSVP to:

t.conway@imperial.ac.uk



Editorial

Professor Jenny Higham, Director of Education

We are delighted to have embarked upon the new venture with Nanyang Technological University in Singapore and at the same time have just welcomed our new 2010-11 cohort of new students into the Faculty. Whilst we are working on the new School overseas, we of course do not focus any less on things at home and continue to strive to maintain our high standard of educational quality, with a strong focus on the student experience.

I am very pleased to welcome to the team Professor Partridge as a new Deputy Director of Education, working alongside Professor Karim Meeran and Dr Sue Smith. I am also very pleased to welcome: Dr Sarvesh Saini as the new joint Head of Year 3; Dr Nina Salooja who is the new Head of Year 6; Dr Tanya Tierney, who is the new Head of Graduate Entry; and Dr Paul Booton, who has been appointed Chair of the Year 5 Examination Board.

Jenny

We look forward to an exciting year ahead.
Best wishes,

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Students of the new school will be based on the NTU campus for the first part of the course, but throughout their training will be taught in a variety of settings to gain insight into different healthcare models. These will include working alongside GPs in primary care and benefitting from clinical experience in local hospitals.



The new medical school will be funded by NTU, a publicly-funded university, and will be jointly managed by Imperial College London and NTU. The school will have its own governing board with representatives from Imperial, NTU and other Singaporean stakeholders such as the Ministry of Education, Ministry of Health, and the National Healthcare Group. The partnership agreement between Imperial College and NTU covers an initial term of 18 years.

The school's founding Dean will be Professor Stephen Smith FMedSci, Principal of Imperial's Faculty of Medicine and Chief Executive of Imperial College Healthcare NHS Trust (above). Professor Martyn Partridge, who holds Imperial's Chair in Respiratory Medicine (right), will be Senior Vice Dean and will work full-time on the project in both London and Singapore.



A Singapore themed internal launch of the project took place on 5 October which was attended by the Rector and the Deputy High Commissioner for Singapore. Following a welcome from Professor Higham, Director of Education, guests heard an introduction to global universities from Professor Smith and had a briefing on plans for the new school from Professor Partridge, before enjoying a Singapore Sling cocktail and sampling some Singaporean canapés.

For more information on the Singapore Project, please visit: <http://www1.imperial.ac.uk/medicine/teaching/singapore/> or alternatively if you have a specific question or wish to register your interest in becoming involved, please email: singaporemedschool@imperial.ac.uk.

Pictures - Front Cover: images of Nanyang Technological University; Above left: Professor Stephen Smith; and above right: Professor Martyn Partridge.

Meet the Project Board



Back Row: Professor Martyn Partridge; Richard Viner; and Charles Mallo.
Middle Row: Professor Jenny Higham; Susan English; and Nigel Buck.
Front Row: Ann Kelly; and Paul Ratcliffe.

Physiological Society Undergraduate Prize for Physiology



Congratulations to Jack Beadle (pictured above, centre) with Professor Nancy Curtin (left) and Professor Alun Hughes (right), the Imperial College winner of The Physiological Society Undergraduate Prize for Physiology for academic year 2009-10. Each year the Physiological Society awards prizes to students at eligible institutions. At Imperial the prize is awarded on the basis of the excellence of a BSc project on a physiological topic. Jack's project, "The regulation of Angptl4 expression in mineralocorticoid receptor-introduced vascular endothelial cells", was part of his BSc in Cardiovascular Sciences. Jack did his project at the Tokyo Medical and Dental University Graduate School on the exchange programme with Imperial College Faculty of Medicine. In addition to receiving a certificate and £100, Jack adds to his Curriculum Vitae this very notable achievement.



E-Learning Developments

Ms Maria Toro-Troconis
Senior Learning Technologist

Supporting Education in Virtual Worlds with Virtual Learning Environments – JISC (Second Life & Moodle)

The Faculty of Medicine (Undergraduate Medicine) has been successful in a bid on the Learning and Teaching Innovation Grants from the Joint Information Systems Committee (JISC). This project is led by University of West Scotland and it will run from July 2010 to June 2011.

The project aims to promote integration between the open source Moodle Virtual Learning Environment (VLE) and Second Life and OpenSim virtual worlds. A small number of descriptive case-studies have been published on the use of SLOODLE, but these only begin to touch on the pedagogical possibilities and opportunities now available – in particular in light of recent developments in virtual world technology.

This project will analyse and catalogue emerging pedagogical opportunities offered by integrating virtual worlds (Second Life) and virtual learning environments (Moodle) using the features developed by the SLOODLE project.

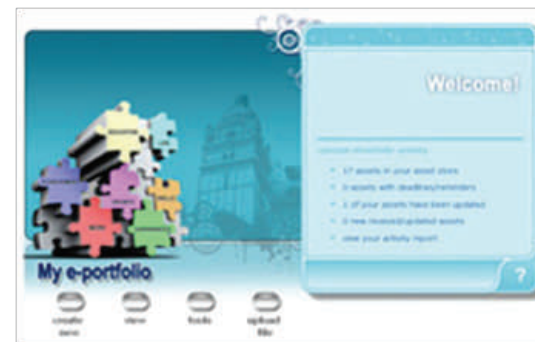
The Faculty of Medicine will be involved in the development, evaluation and dissemination of effective models of best practice, where little guidance currently exists, based on experiences in practical usage of this integrated approach for teaching applications from multiple institutions.

The project partners are: University of the West of Scotland (Lead partner), Imperial College London, The Open University and University of Ulster.

For more information please visit: <http://www1.imperial.ac.uk/medicine/elearning/secondlife/>

E-portfolio by Dr Aaron Vallance

Now in its second year, e-portfolio is expanding further across the under-



graduate medical curriculum with the help of various Course and Vertical Theme Heads, Student Reps and other members of Faculty.

Using the PebblePad platform, e-portfolio is primarily a student-centred tool which encourages and facilitates students to accrue a record of learning and reflect on learning/experience. It can also be used as a means to submit work, and to send and receive feedback. As students can store information on e-portfolio, it is particularly useful for the recording of material for long-term reference. To take advantage of this 'vertical' aspect, we have developed various cross-curricular activities to help students track their progress and facilitate reflection. These activities include separate reflective logbooks on: *Clinical Skills, Professional Skills/Experiences*, and *Exams* preparation, as well as a generic place for reflection called 'Thoughts'.

E-portfolio is also integrated into: Years 1, 2 and 3 Clinical Attachments, Communication Skills, Professional and Personal Development, and PBL courses. As well as facilitating assessment and feedback, other innovations include using two peer-feedback activities and a 'mock journal' for BSc (Surgery & Anaesthesia) students to submit their research study to.

Evaluation using questionnaires and focus groups highlight the importance of helping students appreciate what e-portfolio can do for them. We have therefore developed dedicated interactive teaching sessions, as well as paper 'QuickStart' guides to compliment detailed manuals online.

The project is run through the E-portfolio Working Group, led by an Academic lead (Dr Aaron Vallance) and a Technical co-ordinator (Maria Toro-Troconis). Other core members include two Learning Technologists (Ashish Hemani and Bang Nong) and two Clinical Education Fellows (Dr Cristina Koppel and Dr Jane Currie). We very much welcome anyone interested in involving e-portfolio for their course to contact us, and have developed a set of criteria for reviewing submissions. For further information, please see <http://www.imperial.ac.uk/medicine/elearning/eportfolio/>

3rd Imperial Virtual Patient Group meeting at AMEE 2010



The 3rd Imperial Virtual Patient Group meeting took place on 6th September at AMEE 2010 - Glasgow. In attendance the partners: Minho Medical School- Portugal, Ankara Medical University – Turkey, Kaohsiung Medical School – Taiwan, Rome 'Sapienza' Medical School – Italy and University College London - UK, presented their current developments and future research plans.

Two short communications and one poster from Imperial and partners were presented at the conference.

For further information, please see <http://www.imperial.ac.uk/medicine/elearning/vpa/>

eRepository

An eRepository has been developed, providing links to eLectures, Open Rounds, Virtual Patient (VP) cases, and Podcasts. End users are able to view the eLectures and VP cases by topic and course and the Open Rounds by topic, with separate links to Year 3 and Year 6 Podcasts. To access the eRepository please visit: <https://education.med.imperial.ac.uk/e-repository/index.htm>