



Lichfield Science & Engineering Society

LICHFIELD GARRICK
Theatre & Studio

CHAIRMAN

Dr Robert Giles

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Mr Ian Dudson CBE
HM Lord Lieutenant of Staffordshire

PRESIDENT

Professor Peter A Lambert

8:00 pm on Wednesday, 5th December 2018
in the Main Theatre of the Lichfield Garrick, Lichfield, WS13 6HR

TRANSPLANTING THE UN-TRANSPLANTABLE – PUSHING THE BOUNDARIES

Dr Pankaj Chandak

Guy's, St Thomas' and Great Ormond Street Hospitals,
MRC Centre for Transplantation, King's College London

How can we do transplants in small children? Can we keep organs alive before we transplant them? How can we transplant across different blood groups? Can we use robots to speed recovery?

These are just some the challenges facing transplantation today. This lecture will cover early transplants to modern times including robotics, novel perfusion bypass machines and the role of 3D printing in complex transplants in children.

Pankaj Chandak is a Specialist Registrar in Transplant Surgery at Guy's, St Thomas' and Great Ormond Street Hospitals and a Research Fellow, at the MRC Centre for Transplantation, King's College London. His scientific interests include complex paediatric transplantation, and surgical innovation as well as public engagement in science. He is one of only a few people using ex-vivo normothermic perfusion to improve the quality of human kidneys prior to transplantation. He is also using this technique to determine ways to protect the organ with therapeutic agents to prevent rejection and help to overcome immunological barriers. Pankaj's work has led 3D printing aiding the planning of challenging kidney transplants in children.

Pankaj has been awarded The Royal Society of Medicine Norman Tanner Medal, The Cutler's Clark Medal and The Royal College of Surgeons of England Joseph Lister Prize and Medal. In addition, he delivered The British Science Association 2017 Charles Darwin Award Lecture and is also recipient of The Royal College of Surgeons Arnott Lecture and Medal, delivered on "Living Donor Transplantation." He has been invited speaker to The Royal Society, The Royal Institution, The Academy of Medical Sciences, The Women's Institute, Parliament and Human Tissue Authority amongst others. He is recipient of The International Paediatric Transplant Young Scholar Award 2017 and the UK Business Cloud Health-Tech Pioneer of the Year Award 2018. He was elected a Fellow of the Royal Asiatic Society in 2007 (FRAS) and a Fellow of the Linnean Society (FLS) in 2017. His appearance in *The Crown*, where he played the surgeon operating on King George VI, was a first for television where real surgeons act in film.

Note that this meeting is in the Main Theatre so plenty of room for friends.

For further information, please see our website at www.LSES.org.uk
Students and Members Free.

Visitors £5.00. Tickets are not issued in advance, please pay at the door.

Members must sign in. Those signing in before 7:50 pm will have precedence over all visitors.

This lecture is expected to finish by 10.00 pm.