Improving the Network of Care for Advanced Heart Failure – Expanding the Application of Mechanical Circulatory Support

Institute of Transplantation, Freeman Hospital
Newcastle upon Tyne Hospitals NHS Foundation Trust

Friday December 6th 2013

Advanced acute and chronic heart failure still have a very poor prognosis. There is mounting evidence within the international literature that early intervention using mechanical circulatory support can improve survival, both in the short and the long term. Hitherto acute mechanical rescue therapy has been largely confined to a few nationally designated mainly cardiopulmonary transplants units. This has led to restriction of this life saving technology.

A similar restriction applies to long-term implantable devices. In the UK, they can only be used in patients suitable for heart transplantation. With the drastic decline of transplantation and the continued improvement of durable mechanical devices, there is a dawning realization that the latter is soon to become the option of choice for patients with chronic heart failure.

Already today destination therapy accounts for about 40% of all long-term durable devices implanted in the US. However, in the UK this lifesaving therapy is not available for these patients.

The 4th Annual Mechanical Circulatory Support Meeting in Newcastle is addressing these two areas, and we want to present to you the latest and most updated knowledge and experience in acute and chronic circulatory support. As in previous years, we have been able to attract some of the most prominent physicians and surgeons nationally and internationally in order to allow you to interact and network. We are hoping that you will be able to share your experience with us, thus making it a valuable meeting, and hopefully we will be able to improve the care of heart failure in the UK.

Welcome to Newcastle

Prof Stephan Schueler
Consultant Cardiothoracic Surgeon

Dr Guy MacGowan
Consultant Cardiologist

Mr Asif Hasan
Consultant Cardiothoracic Surgeon

CPD Credits Applied For. Places on this exciting course are offered at no charge, if you would like to attend RSVP to: ann.ramsey@nuth.nhs.uk

Meeting supported with unrestricted educational grants from HeartWare Inc. (www.heartware.com) and Maquet (www.maquet.com)
Scientific Program

Session one: 08.30 – 10.30am
Treatment of Acute Cardiogenic Shock

Moderators: A. Hasan/ S Westaby

- Welcome
- Introduction
- Present state of acute cardiac failure after PCI
- Conventional treatment of acute cardiogenic shock
- Mechanical circulatory support is the only effective treatment of acute advanced cardiac failure
- Development of a National Network for the Treatment of Cardiogenic Shock

Coffee Break: 10:30 – 11:00

Session two: 11.00 – 12.30pm
Long Term LVAD Therapy in Non-Transplant Patients

Moderators: T. Pillay/ K. Witte

- Deciding on the correct strategy for patients with advanced heart failure
- Long Term LVAD therapy is successful in non-transplant patients
- Is there a need for a UK REMATCH trial?

Lunch 12.30 -13.30

Session three: 13.30 – 15.00pm
New Developments in LVAD Therapy

Moderators: A. Simon/ N.Wrightson

- New surgical techniques and strategies
- The impact of pulsatile vs. non-pulsatile flow in long term LVAD therapy
- Impact of MCS on myocardial recovery – clinical experience and basic scientific evidence
- From laboratory to market – successful development of new LVAD technology

Coffee Break: 15:00 – 15:30

Session four: 15.30 – 17.00pm
Challenges and Outlook

Moderators: J.Payne/ N. Banner

- Case presentations
- Summary of the day

Reservations: Please email ann.ramsey@nuth.nhs.uk
Faculty

Banner N  Consultant Cardiologist           Harefield Hospital, UK
Burkhoff D  Adjunct Associate Professor  
            New York, NY           Columbia University
Clark A  Consultant Cardiologist           University of Hull, UK
Cleland J  Consultant Cardiologist           Imperial College London
Hasan A  Consultant Congenital  
            Cardiothoracic Surgeon  
            Freeman Hospital, Newcastle, UK
Kormos R  Cardiothoracic Surgeon  
            Director of Artificial Heart Program  
            University of Pittsburgh, USA
LaRose J  Chief Scientific Officer  
            Executive Vice President  
            Advanced Product Development  
            HeartWare Inc, Framingham, USA
Murali S  Professor of Medicine  
            Medical Director  
            Temple University, Philadelphia  
            Allegheny General Hospital, USA
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O'Leary D  Consultant Anaesthetist           Freeman Hospital, Newcastle, UK
Payne J  Consultant Cardiologist           Golden Jubilee Hospital, Glasgow, UK
Pillay T  Cardiothoracic Surgeon           Freeman Hospital, Newcastle, UK
Schmid C  Cardiothoracic Surgeon           University Hospital, Regensburg, Germany
Schueler S  Cardiothoracic Surgeon           Freeman Hospital, Newcastle, UK
Simon A  Cardiothoracic Surgeon           Harefield Hospital, UK
Westaby S  Cardiothoracic Surgeon           John Radcliffe Hospital, Oxford, UK
Witte K  Consultant Cardiologist           Leeds General Hospital, UK
Wrightson N  VAD Coordinator  
            Freeman Hospital, Newcastle, UK
Zaman A  Consultant Cardiologist           Freeman Hospital, Newcastle, UK
Zimpfer D  Cardiothoracic Surgeon           University Hospital Vienna, Austria