

Degenerative Mitral Valve Disease

Interactive “Minds-On” / “Hands-On” Stations

There are six 45 minute sessions which will run with three parallel sessions for each time slot. Groups will be allocated and each session will be repeated three times as detailed in the final pages of this document.

The 75 minutes for the trainee’s lunch will allow time for trainees to take food boxes and attend the working lunch in a timely fashion, whilst other delegates can take a more leisurely lunch.

Contemporary Mitral Valve Interrogation

Setting the Scene - 15 minutes

Alain Berrebi

“Hands-On” TOE Manikin - 30 minutes

Understanding the Terminology:

Regurgitant Volume
EROA
PISA
Vena Contracta Width

Alain Berrebi

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Understanding the Tools, and the information they can provide:

TTE
TOE
CT / MRI
3D echo

Understanding Mitral Valve Pathophysiology:

Functional Testing
Stress Echocardiography
Dobutamine Stress TTE
Exercise TTE
Influence of Functional Testing on decision making

“Hands-On” Station

Heart Work Manikin

Work stations with TOE probe, manikin and TOE/anatomy software programme.

“Hands-on” TOE probe manipulation allows real-time computerised simulation of TOE

image generation alongside simultaneous anatomical illustration.

Roberto Mosca

Mark Patrick

Tessa Oelofse

Peter Townsend

The Rationale for Intervention: Encouraging Early Referral

Setting the Scene - 15 minutes

Ben Bridgewater

“Minds-On” - 30 minutes

How to Grow a Referral Practice

J-L Vanovershelde

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How to Develop a Surgical Practice

Ben Bridgewater

ben.bridgewater@uhsm.nhs.uk

Hugo Vanermen

hugo.vanermen@olvz-aalst.be

“Minds-On” Station

The management of asymptomatic mitral valve regurgitation

The timing of intervention: When should we operate?

Where do AHA/ACC criteria and the Watchful Waiting Policy sit within treatment plans in 2010?

Exploration of the indications for mitral valve surgery

Exploration of the factors influencing poor outcome following mitral valve surgery

The Mitral Valve as a Functional Unit

Neil Moat

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Aetiological classification of degenerative mitral disease

Fibroelastic Deficiency

Myxomatous

Barlow's Disease

How pathology influences intraoperative decision making

The Tool Box: Understanding the Surgical Armamentarium

Annuloplasty ring prostheses: An insight to the different models

The impact of annuloplasty prosthesis on mitral valve function

The theory behind prosthetic adjuncts

Bio Integral Surgical Mitrofix

Tom Spyt

tom.spyt@uhl-tr.nhs.uk

"Minds-On" / "Hands-On"

Choice of Annuloplasty Prosthesis:

Complete Ring or Not?

Flexible or Rigid Rings?

What is the role for Aetiological Annuloplasty Ring Designs?

What is the place for the prosthetic adjuncts?

Ramesh Patel

ramesh1pat@aol.com

The Essential Principles of Repair

Setting the Scene - 15 minutes

Francis Wells

"Hands-On" - 30 minutes

Generic principles of mitral valve repair

Anatomic considerations:

Annular structure, dimension and three-dimensional shape

The influence of papillary muscle position on reconstructive techniques

The importance of chordal classification and muscular origin

Restoration of leaflet coaptation and a symmetrical closure line

Pathological Considerations:

The influence of mitral valve pathology on choice of reparative techniques

Francis Wells

francis.wells@papworth.nhs.uk

A Philosophy of Respect rather than Resect

Maximising early postoperative results

Intraoperative testing

Water-testing

Defining the length of leaflet coaptation

TOE criteria of successful mitral valve repair

Ensuring robust long-term mitral valve competence

Determining the durability of mitral valve repair techniques

Establishing a "Gold-Standard" of repair surgery

"Hands-On" Station

Explore Resection Surgical Techniques

Quadrangular Resection

Sliding Leaflet

Steve Livesey

Steve.Livesey@suht.swest.nhs.uk

Techniques for judgement of NeoChord length

Malcolm Underwood

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Surgical Approaches via median sternotomy

Optimising exposure via the Sondergaards groove

Superior Transeptal Incision: The pros and cons

Left atrial roof incision

Adjuncts to facilitate exposure

SVC mobilization

SVC division

Left atrial roof incisions

Achieving a bloodless surgical field

Chris Munsch

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Hugo Vanermen

hugo.vanermen@olvz-aalst.be

Retraction Devices: Making the most of technology

Tips on maximising exposure

Use of surgical adjuncts

Combined Retraction / Suction devices

Alternative Approaches

Right Thoracotomy

Minithoracotomy

Robotic Surgery

“Minds-On” / “Hands-On”

Exploring standard approaches to the mitral valve

Examining optimal use of retraction devices

Discussing surgical tips to facilitate surgical exposure

Establishing the role for a right thoracotomy approach

Analysing the techniques and merits of minithoracotomy and robotic mitral valve surgery

Moninder Bhabra

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Intraoperative Decision Making

Setting the Scene - 15 minutes

Graham Venn

“Minds-On” / “Hands-On” - 30 minutes

Preoperative Evaluation

TOE guidance in operative repair

TOE identification of risk factors for poor postoperative result

Recognition of risk factors for SAM

Identification of potential pit-falls

Jean-Louis Vanovershelde

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Peroperative Decision making

Management of posterior mitral annular calcification

Operative findings and surgical techniques influencing risk of SAM

Graham Venn

grahamvenn@btinternet.com

Postoperative Assessment

Identification and management of postoperative SAM

Risk factors for posterior left ventricular rupture and surgical management

Management of residual mitral valve regurgitation

“Minds-On” / “Hands-On”

TOE Manikin demonstrating interrogation of pertinent features

“Hands-On” reconstructive techniques of the posterior mitral valve annulus

Reconstructive techniques designed to reduce the risk of SAM

Case scenarios exploring the management of residual mitral valve regurgitation

Prakask Punjabi

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Discussion

Full Faculty Panel

A golden opportunity to unify opinions in areas of controversy with the assistance of a panel of experienced clinicians involved in contemporary practices of mitral valve surgery.

TIMINGS

08:00-08:30 Registration and Croissants

08:30 Formal Opening

Sir Bruce Keogh
Maura Buchanan

Chairman: Chris Munsch and Ben Bridgewater

09:00-09:45

The Rationale for Intervention: Encouraging Early Referral
15 minutes Setting the Scene

Ben Bridgewater
"Minds-On" - 30 minutes

Contemporary Mitral Valve Interrogation
Setting the Scene - 15 minutes

Alain Berrebi
"Hands-On" TOE Manikin - 30 minutes

Functional Anatomy of the Mitral Valve
Understanding the Spectrum of Mitral Valve Degenerative Disease
Setting the Scene - 15 minutes

Neil Moat
"Minds-On" / "Hands-On" - 30 minutes

09:45-10:30

The Rationale for Intervention: Encouraging Early Referral
15 minutes Setting the Scene

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10:30-10:45 Coffee

10:45-11:30

The Rationale for Intervention: Encouraging Early Referral
15 minutes Setting the Scene

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"Minds-On" - 30 minutes

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Neil Moat
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11:30-12:15

The Essential Principles of Repair

Setting the Scene - 15 minutes

Francis Wells

“Hands-On” - 30 minutes

Surgical Approaches & The Role of Alternative Approaches

Setting the Scene - 15 minutes

Chris Munsch

“Minds-On” / “Hands-On” - 30 minutes

Intraoperative Decision Making

Setting the Scene - 15 minutes

Graham Venn

“Minds-On” / “Hands-On” - 30 minutes

12:15-13:30 Lunch and Trainees Lunch

13:30-14:15

The Essential Principles of Repair

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“Hands-On” - 30 minutes

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Intraoperative Decision Making

Setting the Scene - 15 minutes

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“Minds-On” / “Hands-On” - 30 minutes

14:15-15:00

The Essential Principles of Repair

Setting the Scene - 15 minutes

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Surgical Approaches & The Role of Alternative Approaches

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Surgical Approaches & The Role of Alternative Approaches

Setting the Scene - 15 minutes

Chris Munsch

“Minds-On” / “Hands-On” - 30 minutes

15:00-15:30

Discussion

Full Faculty Panel

15:00-16:45 Trainees Meeting