BAPS | British Association of Paediatric Surgeons

IPEG Postgraduate course at BAPS

Amsterdam 19th & 20th July 2016

Date : 19 th July 2016

Director : Simon Clarke (London)

International Faculty : Prof. Maria Marcela Bailez (Argentina : IPEG president) ; Prof. Katherine Barsness (Chicago – Chair of IPEG innovation) Professor Mark Wulkan (Atlanta - Past IPEG President) ; Munther Haddad (Hon President IPEG middle east) ; Prof David Van der Zee (Amsterdam : IPEG President elect) Matthijas Oomen (Amsterdam) Sean Marven (Sheffield) ; Naved Alizai (Leeds: BAPES President) ;

Number of Participants : 32

This course is aimed at those with an interest in Paediatric minimally invasive surgery who wish to gain more knowledge and experience of working in the confines of a neonatal abdomen or chest .

The course is based on years of advanced minimal access courses that have been developed through IPEG and its members.

From experience a combination of didactic lectures and skill based stations will help to reinforce the principles of the management of key conditions

- Oesophageal Atresia and distal tracheo-oesophageal atresia
- Duodenal atresia
- Congenital Diaphragmatic hernia
- Inguinal hernia repair
- Pyloromyotomy
- Lobectomy

Aims and Objectives

Critical Technical Skills for Neonatal and Infant Minimally Invasive Surgery

- Learn the critical skills necessary to safely perform operations in newborn infants, including instrument and suture selection, port placement, intracorporeal suturing, and instrument handling skills. Neonatal simulation models and 3 mm instruments will be used at all stations.
- At the conclusion of this session, participants will be able to:
  Choose appropriate instruments for neonatal and infant laparoscopy and thoracoscopy

  Demonstrate improved instrument handling within the confines of a newborn chest or abdomen

  Perform a successful intracorporeal knot.

Monday 18th July : Set up Monday afternoon/ evening (designated IPEG faculty)

Day 1: Tuesday 19th July :

Stryker Facility Amsterdam ,

Stryker Europe RHQ ,

Herikerbergweg 110 1101 CM Amsterdam

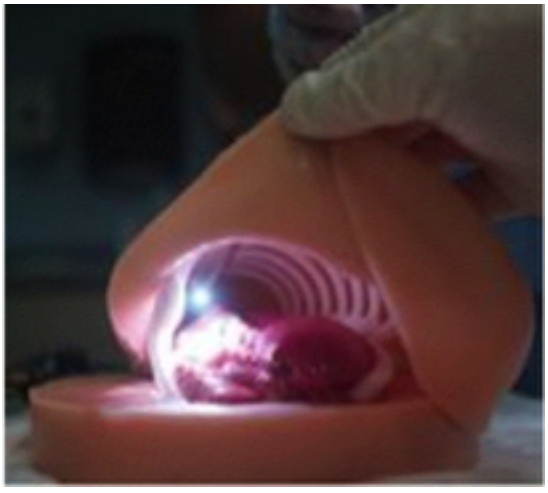
https://www.google.co.uk/maps/place/Herikerbergweg+110,+1101+Amsterdam-Zuidoost,+Netherlands/@52.3079722,4.9421423,17z/data=!4m2!3m1!1s0x47c60b9912fb0f3b:0x17f172b1ec95257c

8 practical skill stations incorporating:

Oesophageal atresia with Distal TOF model

PLUS A HYBRID SIMULATION MODEL FOR THORACOSCOPIC ESOPHAGEAL ATRESIA + TRACHEOESOPHAGEAL FISTULA REPAIR

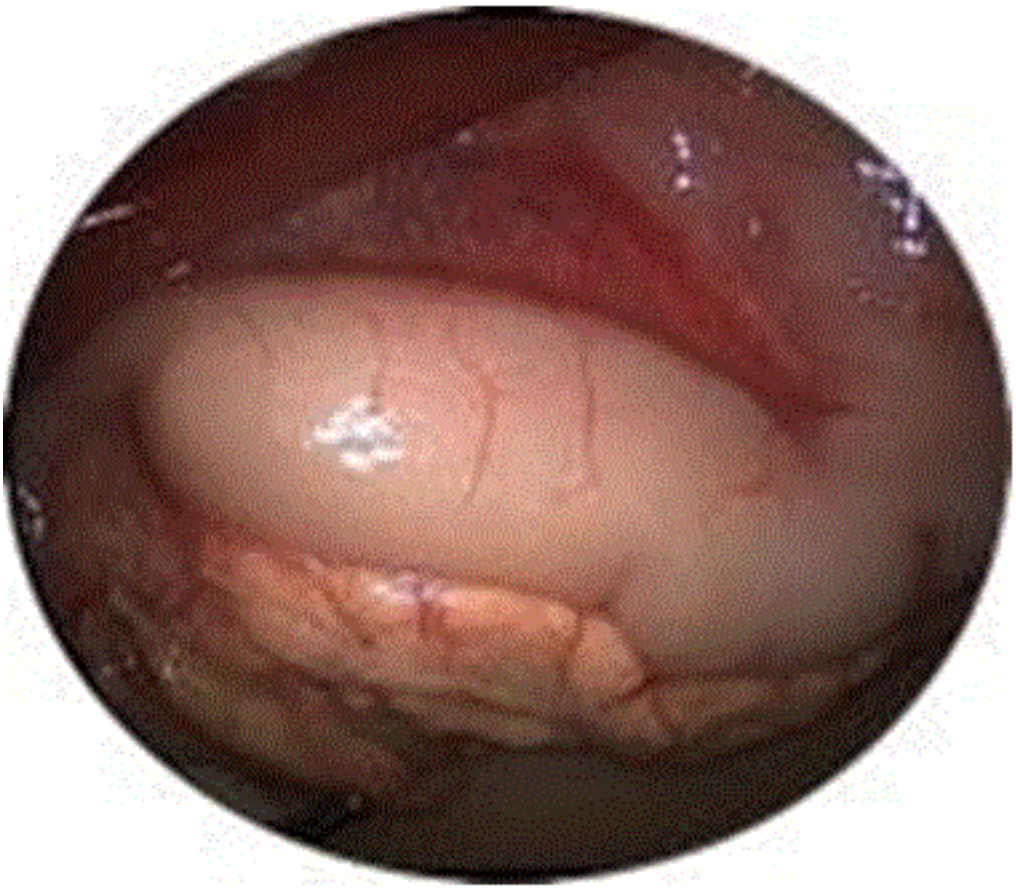
The model is a hybrid of a 3D printed structural surround completed with real thoracic tissue blocks, replicating all variants of esophageal atresia and/or tracheoesophageal fistulae. The model is sized to represent a 3.4 Kg infant. This real-tissue model is highly realistic and relevant to pediatric surgical learners' needs for achieving and maintaining skills for thoracoscopic esophageal atresia repair.



Duodenal atresia model

HYBRID SIMULATION MODEL FOR LAPAROSCOPIC DUODENAL ATRESIA REPAIR

The model is a hybrid of a 3D printed structural surround completed with abdominal tissue blocks that are consistent with Type III duodenal atresia. The model is sized to represent a 3.4 Kg infant. This real-tissue model is realistic and relevant to pediatric surgical learners' needs for achieving and maintaining skills for laparoscopic approaches to duodenal pathology in newborn infants



Congenital Diaphragmatic hernia model

HYBRID SIMULATION MODEL FOR THORACOSCOPIC REPAIR OF CONGENITAL DIAPHRAGMATIC HERNIA

The model is a hybrid of a 3D printed structural surround completed with real diaphragm and intestinal tissues, replicating a left-sided Bokdalek diaphragmatic hernia. The model is sized to represent a 3.4 Kg infant. This real-tissue model is highly realistic and relevant to pediatric

surgical learners' needs for achieving and maintaining skills for thoracoscopic primary and patch repair of a variety of different sized diaphragmatic hernias.

BASIC AND SUTURING INANIMATE MODELS

Models for basic training, precision, coordination. Appropriate to the endoscopic suturing and instrumental dimensions used in Pediatric Surgery. Provides volume of work area between 150 - 450 ml. These models are used in training within the curriculum of medical residents, as well as in basic and advanced suturing training courses.

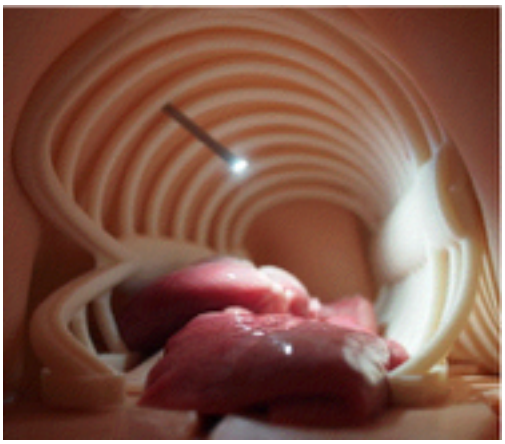
INGUINAL HERNIA

This silicone model developed at imperial college London is designed as a hybrid training tool for both open and MIS hernia repair. Allows for simulation of small space operating for infant and neonatal inguinal hernia repair

LOBECTOMY

HYBRID SIMULATION MODEL FOR THORACOSCOPIC LOBECTOMY

The model is a hybrid of a 3D printed structural surround completed with real thoracic tissue blocks that are anatomically correct for pulmonary lobectomy. The model is sized to represent a 3-month old infant. This real-tissue model is highly realistic and relevant to pediatric surgical learners' needsfor achieving and maintaining skills for thoracoscopic lobectomy for congenital anomalies.



Interactive Video lectures

1. Oesophageal atresia with Distal TOF
2. Intestinal Atresia
3. Pyloromyotomy and Inguinal hernia
4. MIS congenital diaphragmatic hernia repair (Bochdalek and Morgagni type)
5. Thoracoscopic Lobectomy

Course outline

32 students alternating each hour between practical station and video lectures 60 min Practical station followed by lecture and discussion 45 mins

The lectures will include practical steps for the procedure and focus on OR set up ; instrument choice and a step wise process through the operation with common pitfalls and how to avoid.

Day 2 Wednesday 19th July 9 am – 12.30pm

Lectures will take place at the Beurs van Berlage congress centre and comprise a more comprehensive review of updates and recent advances in Paediatric & Neonatal Minimally invasive surgery

Expert lectures and interactive discussions on topical areas within paediatric MIS :

- **Changing concepts and advances in Neonatal MIS** : Professor David Van Der Zee, Professor Paediatric Surgery , Wilhemina Childrens Hospital , Utrecht, Netherlands.
- **An evidence based review of MIS inguinal Repair** : the debate goes on : Mr Simon Clarke (Director Paediatric Surgery , Chelsea and Westminster Hospital & Chair IPEG Guidelines Committee)
- **Sleeve Gastrectomy & Management of Achalasia** : Mark Wulkan MD (Professor Surgery Atlanta Childrens Hospital)
- **Developing Training models in neonatal MIS** : Katherine A. Barsness MD (Director Surgical Simulation & Associate Professor of Surgery Ann & Rpbert H. lurie Childrens Hospital Chicago
- **MIS Management of complex urogenital anomalies** : Professor Maria Marcela Bailez (Paediatric Hospital Dr Juan P Garrahan, Buenos Aries, Argentina

Feedback and evaluation forms will be provided at the close of each session