

PROGRAM

NOTES™ (NATURAL ORIFICE TRANSLUMINAL ENDOSCOPIC SURGERY) ADVANCED COURSE

NOVEMBER 20 AND 21 - 2009



CHAIRMAN

MH. Huang

*Show Chwan Memorial Hospital
Changhua, Taiwan*

PRESIDENT

Jacques Marescaux

*President, IRCAD
University of Strasbourg, France*

DIRECTOR

James Wu

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Changhua, Taiwan*

OBJECTIVES

- To become familiar with flexible endoscopy
- To become familiar with transluminal surgery
- To understand the rationale and challenges of endoscopic transluminal surgery
- To discover the latest and future technological developments
- To provide hands-on sessions to learn endoscopic transluminal surgery through practice on live tissue under experts' tutorials
- To promote research and define guidelines

EDUCATIONAL METHODS

- Interactive theoretical and video sessions between faculty and course participants
- Live and pre-recorded operative demonstrations

FACULTY

Allemann, Pierre - Switzerland
Asakuma, Mitsuhiro - Japan
Chen, Chien Hua - Taiwan
Dallemagne, Bernard - Belgium
Dunkin, Brian – USA
Lee WJ. - Taiwan
Leroy, Joël – France

Pasupathy, Shanker – Singapore
Perretta, Silvana - Italy
Soler, Luc - France
Sylla, Patricia - USA
Targarona, Eduardo - Spain
Vix, Michel – France

FRIDAY, NOVEMBER 20 - MORNING

8:30 am	Welcome and introduction of the faculty to the participants	<i>MH. Huang</i>
8:45 am	Lectures	OPTION A AND B

Chairmen : WJ. Lee (Taiwan) - J. Marescaux (France) – J. Wu (Taiwan)

Challenge of NOTES™ : from technical improvement to training and education *J. Marescaux*

9:05
(21h05 USA) **Who should perform NOTES™ ? Surgeons or Endoscopists ?** *B. Dunkin*
Video-conference with Brian DUNKIN from Houston - USA

Key Challenges:

- How to get access to the peritoneal cavity ?
- How to close the access site ?
- Which orifice ? Single or combined access ? For which procedure ?
- With which physiological consequences ?

- Transgastric access *B. Dallemagne*
- Transvaginal access *S. Perretta*
- Transgastric access – 2 endoscopes *M. Asakuma*
- Transvaginal retroperitoneal access *P. Allemann*
- Transrectal, transcolonic and combined accesses *J. Leroy*
- Transesophageal access *S. Perretta*

10.45 am BREAK

Chairmen : WJ. Lee (Taiwan) – E. Targarona (Spain) – HS. Wu (Taiwan)
Coordinator : J. Marescaux (France) –

11.15 am	Live Experimental Surgery from the Laboratory	OPTION A AND B
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■ **Transgastric Access**

- Transgastric cholecystectomy *B. Dallemagne*
S. Perretta

■ **Transesophageal Access**

- Mediastinoscopy - Heller / myotomy *S. Perretta*
S. Pasupathy

■ **Transvaginal Retroperitoneal Access**

- Nephrectomy *P. Allemann*
M. Asakuma

■ **Combined Accesses**

- Transgastric and transrectal sigmoidectomy *J. Leroy*
S. Pasupathy

■ **Different techniques of gastric closure**

- Endoclips *B. Dallemagne*
- T-Tags *S. Perretta*
- Occluder *S. Perretta*

12.45 pm Lectures**OPTION A AND B**

Chairmen : WJ. Lee (Taiwan) – E. Targarona (Spain) – HS. Wu (Taiwan)

How to expose, retract, dissect, divide and suture ? Key devices, platforms and future

- New developments in Endoscopic technologies

B. Dallemagne

1.15 pm **Robotics and virtual reality in NOTES™: the next step ?**
(6h15 France) Video-conference from Strasbourg - France

L. Soler

1.30 pm LUNCH

2:30 pm Hands-on training on live tissue**OPTION B**

Faculty : P. Allemann (Switzerland) – M. Asakuma (Japan) - CH. Chen (Taiwan) - B. Dallemagne (Belgium) – J. Leroy (France) – S. Pasupathy (Singapore) - S. Perretta (Italy) - M. Vix (France) – HS. Wu (Taiwan) –

1. Laparoscopy and stapling of the duodenum (prevention of the bowel distension)
 2. Flexible endoscope : basic principles
 3. Intubating the esophagus and understanding the endoluminal anatomy and landmarks
 4. Gastrotomy using a needle knife – sphincterotome - balloon dilation
 5. Peritoneoscopy – spatial orientation
 6. Experimental model of appendectomy : fallopian tubes dissection and section
 7. Liver biopsy
 8. Transgastric cholecystectomy
 9. Transgastric sigmoid mobilization
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6:00 pm END OF SESSION

08:30 am Hands-on training on live tissue**OPTION B**

Faculty : P. Allemann (Switzerland) – M. Asakuma (Japan) - CH. Chen (Taiwan) - B. Dallemagne (Belgium) – J. Leroy (France) – S. Pasupathy (Singapore) - S. Perretta (Italy) - M. Vix (France) – HS. Wu (Taiwan) –

Free choice of NOTES™ procedures to be performed under expert's tutorial :

- TRANSGASTRIC ACCESS
 - Laparoscopy and stapling of the duodenum (prevention of the bowel distension)
 - Gastrotomy with needle knife – sphincterotome – balloon dilation
 - Transgastric cholecystectomy
 - Transgastric nephrectomy
- TRANSVAGINAL ACCESS
 - Transvaginal peritoneoscopy
 - Transvaginal cholecystectomy
 - Transvaginal nephrectomy

11.00 am BREAK**11.30 am Lectures****OPTION A AND B**

Chairmen : WJ. Lee (Taiwan) – J. Marescaux (France) – E. Targarona (Spain)

Human applications with NOTES™ and Hybrid NOTES™**Pre-recorded procedures and critical analysis**

11:30
(23h30 USA)

- Completely Endoscopic NOTES rectosigmoid resection in human cadaver *P. Sylla*
- Transgastric and transvaginal cholecystectomy: evolution of the technique *B. Dallemagne*
- Transvaginal Sleeve Gastrectomy *M. Vix*
- Follow-up of the first NOTES™ cholecystectomies :
 - Transvaginal access *S. Perretta*
 - Transgastric access
- Transvaginal approach to the spleen *E. Targarona*

1.15 pm LUNCH

2.15 pm Lectures**OPTION A AND B**

Chairmen : B. Dallemagne (Belgium) – HS. Wu (Taiwan) – E. Targarona (Spain)**Step towards NOTES™ : Single Port Access Surgery: another option to “scarless” abdominal surgery**

- Concept and implementation in cholecystectomy
- Potentials of single access surgery for colonic resection
- Single trocar approach for splenectomy
- Single-port sleeve gastrectomy
- Is single access surgery the renaissance of Robotics ?

*S. Perretta**J. Leroy'**E. Targarona**WJ. Lee**P. Allemann***Closing remarks***B. Dallemagne*

**03.45 pm END OF THE COURSE
DELIVERY OF THE CERTIFICATE OF ATTENDANCE**
