

Advance Program

8th INTERNATIONAL NOTES W.I.D.E.R.-BARCELONA

UAB
Universitat Autònoma
de Barcelona

NATURAL ORIFICE TRANSLUMINAL ENDOSCOPIC SURGERY

HOSPITAL UNIVERSITARI VALL D'HEBRON I L'INSTITUT DE RECERCA
DIPARTIMENTO DI DISCIPLINE CHIRURGICHE. UNIVERSITÀ DI GENOVA
UCM HOSPITAL CLÍNICO UNIVERSITARIO SAN CARLOS. MADRID

Advanced Endoluminal and Surgical Endoscopy Endoscopic Cooperative Surgery FORO DE DISCUSIÓN

NEW TIMES

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December 1 and 2, 2014

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Instituto Catalán de la Salud • Hospital Universitario Vall d'Hebron. UAB



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Institut de Recerca



Obra Social
Fundación "la Caixa"

8th INTERNATIONAL NOTES-W.I.D.E.R.- BARCELONA

NATURAL ORIFICE TRANSLUMINAL ENDOSCOPIC SURGERY

DIRECTORS

José Ramón Armengol-Miró, Manuel Armengol Carrasco
and Antonio J. Torres García

COORDINATORS

Jorge Olsina, Juan Dot, Joaquim Balcells and Monder Abu Suboh Abadia

CONTRIBUTORS

José C. Salord Osses, Jordi Armengol Bertrolí y Miquel Masachs Perecaula

DESCRIPTION

The **8th International N.O.T.E.S.-W.I.D.E.R-Barcelona** course has a two days program. It has a double activity stream. One theoretical composed of conferences about hot topics relating NOTES, and a practical one, performed by a team made of the organising staff and guest professors in two experimental surgery rooms, located in the ground floor of the Institut de Recerca del Hospital Universitari Vall d'Hebron, including video broadcasting to the conference room in the 10th floor of the Hospital Universitari Vall d'Hebron.

The course is approved by the **Vall d'Hebron Hospital CEEA** (Animal experimentation ethical committee).

Created on Jan 8 1998, **CEEA** was created to look after the health of experimentation animals. Its functions are, amongst others: To inform about experiments, remove the unnecessary suffering and provide humanitarian euthanasia, and guarantee that all the legal and ethical norms relate to experimentation with animals are being followed.

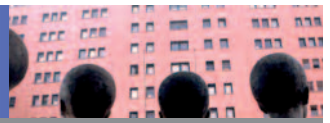
Realized with the support and strength of the **Institute of the Hospital Universitari Vall d'Hebron** (Universitat Autònoma de Barcelona) and **OLYMPUS Endoscopy, Laboratorios INIBSA** and the collaboration of the **Obra Social de la Fundación "la Caixa"**.

The course is aimed at gastroenterologists, clinical endoscopists and surgeons who feel curious and interested in the benefits that **CETON** (Natural orifice transluminal endoscopic surgery) and therapeutic interventionist techniques related to it (**TETON**), represent for the immediate future.

Transmission of cases from the Institute's rooms and Gastrointestinal Endoscopy Service HUVH with the auditorium HUVH Teaching Pavilion (Monday) and Cosmo-Caixa room (Tuesday) between the Teams of the Chambers and Panel Discussion.

Demonstrations of anesthesia techniques, intubation. Anastomosis, transgastric Cholecystectomy, transvaginal, pancreatectomy, appendectomy and techniques for orifice closing. ERCP and support echoendoscopy and therapeutic. Mediastinum access... etc.

The course will also address the new implementation techniques arising from recent developments in research in NOTES as the POEM and LECS (Laparoscopic and Endoscopic Cooperative Surgery).



OBJECTIVES

- Understand and assess the possibilities, technical limitations and instrumental of NOTES today.
 - Become familiar with the instrumental and learning in the Animal Laboratory.
 - Assess the technical difficulties in developing different applications.
 - Learn and understand the anatomical variants during live broadcasts.
 - Understanding the possible selection of candidates in the future.
 - Understand the different ways of approach transluminal.
 - Understand and evaluate the different possibilities of combined procedures.
 - Review the various possibilities of application in Ethics Committees of each center.
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W.I.D.E.R.-BARCELONA
(WORLD INSTITUTE FOR DIGESTIVE ENDOSCOPY RESEARCH)

8th INTERNATIONAL NOTES-W.I.D.E.R.- BARCELONA

NATURAL ORIFICE TRANSLUMINAL ENDOSCOPIC SURGERY

SCIENTIFIC PROGRAM **Monday, December 1, 2014**

Auditorium of the Teaching Pavilion HOSPITAL UNIVERSITARI VALL D'HEBRON

08:30 **Registration**

08:45-09:00 **Presentation**

José Ramón Armengol-Miró (Barcelona), Manuel Armengol Carrasco (Barcelona) y Antonio J. Torres García (Madrid)

09:00-10:45 **Session 1 - NOTES Present and future**

NOTES EXPERIMENTAL

PRESIDENTS

Manuel Armengol Carrasco (Barcelona), Marco Frascio (Italy), Zhou Pinghong (R.P. China) y J. Manuel Herrerías (Sevilla)

MODERATORS

Pedro Alonso Aguirre (A Coruña), Jean Escourrou (France), Eduardo Segal (Argentina), Per Ola Park (Sweden), Zhang Xiaoguang (R.P. China), Maurizio Zilli (Italy) y Renzo Cestari (Italy)

- Transcolonic NOTES gallbladder preserved therapy using a special balloon. Liu Bing-Rong (R.P. China)
- Pancreatic NOTES Interventions. Kai Matthes (USA)
- Degree of surgical trauma caused by the abdominal access –comparing open surgical, laparoscopic and NOTES transgastric access routes in a porcine model. Maria Bergström (Sweden)
- Gastric bacterial colonisation in a Swedish population, with and without PPI – is there a need for antibiotic prophylaxis prior to transgastric NOTES procedures? Jorge Arroyo Vázquez (Sweden)
- Poem and reflux: hig volumen single center experience. Zuzana Vackova (Czech Republic)
- Use of the Over-The-Scope Clip for treatment of gastrointestinal bleeding. Rita Conigliaro (Italy)

Discussion guests: Jesús Espinel Díez (León), Luis Menchén Viso (Madrid), Marco Frascio (Italy), Zhang Xiaoguang (R.P. China), Julius Spicak (Rep. Checa), F. Pellicer Bautista (Sevilla), Albis Hani (Colombia) y Sha Weihong (R.P. China)

Special lecture

Future of NOTES. A new tool box from ENGINE for next generation endoscopy. Kiyokazu Nakajima (Japan)

10:45-11:00 **Coffe break**

11:00-11:15 **Official Opening**

MODERATORS

José Ramón Armengol-Miró (Barcelona), Manuel Armengol Carrasco (Barcelona), Antonio J. Torres García (Madrid), Zhou Pinghong (R.P.China) y Sha Weihong (R.P. China)

11:15-11:55 **Actuality Masterly Conference**

PRESIDENTS

José Ramón Armengol-Miró (Barcelona), Manuel Armengol Carrasco (Barcelona) y Antonio J. Torres García (Madrid)

MODERATORS

Pedro Alonso Aguirre (A Coruña), Bing-Rong Liu (R.P. China), Josep Llach Vila (Barcelona), Alberto Montori (Italy) y Sandra Castro (Barcelona) y Maurizio Zilli (Italy)

SIMULATION IN NOTES

- Rensselaer Polytechnic Institute Troy NY USA. Suvarnu De (USA)
- Harvard Medical School. Boston, MA USA. Kai Matthes (USA)

Session 2 - Alternatives to NOTES

11:55-13:55 **SIMPOSIO: Single Port Access**

MODERATORS

Paul G. Curcillo (USA), Joaquín Balsells (Barcelona), Enrique Veloso (Tarrasa), Senol Carilli (Turkey) y Yury Starkov (Russia)

Masterly Conference

State of the Art Sils 2014. Paul G. Curcillo (USA)

- Comparativa colecistectomía transvaginal y PU. Resultados. José Noguera (Valencia)
- LESS Safe Cholecystectomy. Senol Carilli (Turkey)
- Single incision laparoscopic intragastric surgery (SLIGS). Kiyokazu Nakajima (Japan)
- Apendicectomía PU & Laparoscópica. Resultados. Rafael Villalobos (Lérida)
- Hepatectomías por puerto único. Esteban Cugat (Terrasa)
- Adrenalectomía PU. Vía anterior o posterior. Oscar Vidal (Barcelona)
- Laparoscópico single site (LESS). Inguinal hernia repairs. Senol Carilli (Turkey)
- The single incision laparoscopic surgery: does it make sense? The results of randomized comparative study of lap cholecystectomies. Shumkina L.V. (Russia)

Discussion guests: Gonzalo Galofré (Barcelona), Octavio Mulet Zayas (Sevilla), M. Trias y Folch (Barcelona), Alejandro Sáez Coromina (Barcelona), J. Rocamora Serra (Alicante), Marco Frascio (Italy), Albis Hani (Colombia), Elena Zucchi (Italy), Antonelo Trecca (Italy), Yumi Tsugita (Japón)

11:55-13:55 **Session 2 bis** (adjacent room).

Parallel Session with video transmission from the Research Institut. Working Group (Access and locking, tunneling techniques, myotomy, gastric reduction)

Transmisión del servicio de endoscopia digestiva.

Teams Rooms: Zhang Xiaoguang (R.P. China), Zhou Pinghong (R.P.China), Jorge Olšina (Lérida), Juan Dot (Barcelona), Sergey Kantsevov (USA), Per-Ola Park (Sweden), Maria Bergström (Sweden), Monder Abu Suboh (Barcelona), Marta Rosal (Barcelona), Marielle Esteves (Barcelona), Daniel Delgado Belido (Sevilla), Bing-Rong Liu (R.P. China), Fan Zhining (R.P. China), Milutin Bulajic (Serbia), J. Galloro (Italy), Antonello Trecca (Italy), Guillermo Domínguez (Argentina), Nereo Guillermo Salas (Mexico), Barbara Ciccantelli (Italy), Naohisa Yahagi (Japan), Teppai Akimoto (Japan), Kiyokazu Nakajima (Japan), Yumi Tsugita (Japan)

Moderators and discussion guests: Yanjun Guo (R.P. China), Ramon Boqué Genovard (Barcelona), J. M. Herrerías (Sevilla), Jose C. Salord Oses (Barcelona), Sun Qi Yu (R.P. China), Jean Escourrou (France), Song Ji-Tao (R.P. China), Pedro De las Vacas (Cáceres), Servando Fernández Díez (Madrid), Cui Guangxing (R.P. China), Roberto Foguel (USA/Venezuela), Jesús Ortiz (Paraguay), Julius Spicak (Czech Republic), J. Ramon Armengol-Miró (Barcelona), Dong Wan Seo (S. Korea), Mohamed El-Khattabi (Morocco), Yongqiang Li (R.P. China), Weimin Liang (R.P. China), Shihua Ding (R.P. China), Maurizio Zilli (Italy)



13:55-14:10 Special lecture

ESD in 21st Century: What we will do differently from current procedures? **Sergey Kantsevoy (USA)**

MODERATORS

José Ramón Armengol-Miró (Barcelona), Manuel Armengol Carrasco (Barcelona), Antonio J. Torres García (Madrid), Sergey Kantsevoy (USA), Maximo Crespi (Italia), Yanjun Guo (R.P. China)

14:10-15:30 Lunch and video transmission from the Research Institut

Transmission of cases from the Institut de Recerca rooms with interactive discussion with the hall of the General Hospital between Team in rooms and the panel discussion.

Teams Room: Zhang Xiaoguang (R.P. China), Zhou Pinghong (R.P.China), Jorge Olsina (Lérida), Juan Dot (Barcelona), Sergei Kantsevoy (USA), Louis De Giau (Mexico), M. Abu Suboh (Barcelona), Marta Rosal (Barcelona), Marielle Esteves (Barcelona), Song Ji-Tao (R.P. China), Guillermo Domínguez (Argentina), Nereo Guillermo Salas (México), Naohisa Yahagi (Japan), Teppei Akimoto (Japan), Kiyokazu Nakajima (Japan), Yumi Tsugita (Japan)

Discussion Panel: Daniel Delgado Bellido (Sevilla), Servando Fernández Díez (Madrid), Joaquín Balsells (Barcelona), Juan Rocamora (Alicante), José Carlos Salord Osses (Barcelona), Enrique Castillo Begines (Burgos), Sergey Kashin (Russia), José Olmedo (Ciudad Real), Fernando Rojas (Mexico), Eduardo Segal (Argentina), Jesús Ortiz (Paraguay), Campo Elías Lindado (Venezuela), José R. Armengol-Miró (Barcelona)

Transmisión del servicio de endoscopia digestiva. Zhou Pinghong (R.P.China), Bing-Rong Liu (R.P. China) y Fan Zhifeng (R.P. China)

15:30-19:00 New Indications and technologies in Biliopancreatic Disease

Simpósio: Endoluminal endoscopy and EUS Joint venture

PRESIDENTS

Pedro Alonso Aguirre (A Coruña), Alberto Montori (Italy), Sandra Castro (Barcelona), Alexandro Zambelli (Italy), Ramón Charco (Barcelona), Enric Laporte (Barcelona), Julius Spicak (Czech Republic), Pedro Menchén Fernández-Pacheco (Madrid), Yanjun Guo (R.P. China)

MODERATORS

Luis Abreu (Madrid), Francisco Pellicer Bautista (Sevilla), Josep Llach (Barcelona), Joaquín Balcells (Barcelona), Louis De Giau (Mexico), José Olmedo (Ciudad Real) y Marta Vila Costa (Barcelona), Song Ji-Tao (R.P. China), Alberto Testoni (Italy)

Special Conference

Percutaneous treatment of postsurgical Biliary complications. Mariano E. Giménez (Argentina)

ERCP

- Functional biliary stents: Dreams come true? Dong Ki Lee (S. Korea)
- Benign biliary strictures: Is it not refractory disease anymore? Dong Ki Lee (S. Korea)
- Transgastric ERCP after gastric by pass surgery. Per-Ola Park (Sweden)
- What is new in stents pancreatics? Alberto Testoni (Italy)
- Coledoscopia diagnóstica-operativa. Sarbelio Rodríguez (Madrid)

- Percutaneous flexible endoscopy for management of abdominal necrosis. **Abraham Mathew (USA)**
- ESWL in pancreatic calculi. **Rajesh Gupta (India)**
- EUS-guided Management of small pancreatic tumor. **Dong-Wan Seo (Korea)**

17:15-17:30 Coffe break

Special Conference

Endoscopic Ultrasound's Vision: proving our way to NOTES. New Devices for Interventional EUS: New Accessories, and New Stents. **Sun-Siyu (R.P. China)**

USE Terapéutica

- Linear EUS anatomy for bilio-pancreatic pathology & therapy. **Dong Wan Seo (S. Korea)**
- Coledoco duodenostomia por EUS.S. **Luis Carlos Sabbagh (Colombia)**
- EUS guided hepatogastrostomy. **Sun-Siyu (R.P. China)**
- Use of Confocal laser (p-CLE) in cystic lesions of the pancreas. **Rita Conigliaro y Helga Bertani (Italy)**
- EUS-guided Pancreatic Duct Drainage: Optimizing Success, Minimizing Complications. **Sang Soo Lee (S. Korea)**
- EUS-guided Management of small pancreatic tumor. **Dong Wan Seo (S. Korea)**
- ERCP-EUS Rendezvous (WIDER-Barcelona experience). **Monder Abu Suboh Abadia (Barcelona)**

Discussion guests:

Agustín Panadés Arán (Barcelona), M. Morales Gordo (Barcelona), Emilio De la Morena Madrigal (Madrid), Sergey Kashin (Russia), Campo Elías Lindado (Venezuela), Alberto Testoni (Italy), Mohamed El-Khattabi (Morocco), Maurizio Zilli (Italia), Renzo Cestari (Italy), Milutin Bulajic (Serbia) y Albis Hani (Colombia)

SPECIAL EVENT [by personal invitation only]

Symposium Dinner-Welcome Banquet WIDER 2014- Museo CosmoCaixa

Welcome to Barcelona

Dr. Xavier Trias i Vidal de Llobatera (Alcalde de Barcelona)

Scientific Symposium

PRESIDENTS

José Ramón Armengol-Miró (Barcelona), Alberto Montori (Italy)

MODERATORS

Zhou Pinghong (R.P.China), Curcillo, Paul G. (USA), Jean Escourrou (France), Yuri Starkov (Russia)

- Endoscopic insufflation revisited: from air to CO₂, from manual to automatic. **Kiyokazu Nakajima (Japan)**
- New way to do colonoscopy: Painless, fast, sedation-free. **Sergey Kantsevoy (USA)**

8th INTERNATIONAL NOTES-W.I.D.E.R.- BARCELONA

NATURAL ORIFICE TRANSLUMINAL ENDOSCOPIC SURGERY

SCIENTIFIC PROGRAM **Tuesday, December 2, 2014**

Auditorium of the Teaching Pavilion HOSPITAL UNIVERSITARI VALL D'HEBRON

08:30-10:30 **Session 3**

CLINIC NOTES BOARD

PRESIDENTES

Manuel Armengol Carrasco (Barcelona), Marco Frascio (Italy)
Antonio Torres (Madrid), Alberto Montori (Italy)

Special lecture

Aspectos Éticos de la implementación de nuevas tecnologías.
Alberto Ferreres (Argentina)

MODERATORS

José Manuel Fort (Barcelona), Sergey Kasin (Russia), Luis Carlos Sabbagh (Colombia), Cen Rongying (R.P. China)

- La colectectomía transvaginal híbrida, experiencia institucional de la Universidad de Buenos Aires: técnica y resultados.
Alberto Ferreres (Argentina)
- NOTES Remarks. Manoel Galvao (Brazil)
- NOTES Trans e intra gástrico. Santiago Horgan (USA)
- Imanes en cirugía con NOTES.
Guillermo Dominguez (Argentina)
- Colectomía derecha/izquierda PU. Técnica. Tipos de anastomosis. Resultados. Salvador Morales (Sevilla)
- NOTES Remarks. Jose Noguera (Valencia)
- El impacto ginecológico del abordaje transvaginal: mito o realidad? resultados. Alberto Ferreres (Argentina)

10:30-10:45 **Coffe break**

10:45-11:45 **Session 4**

MODERATORS

Felipe Martínez Alcalá (Sevilla), Maximo Crespi (Italy), Leopoldo Lopez Roses (Lugo), Guillermo Cacho Acosta (Madrid), Enrique Castillo Begines (Burgos), Sha Weihong (R.P. China) y Albis Hani (Colombia)

Special lectures

- Computer-aided decision support system in high-magnification and narrow-band imaging endoscopy for differentiation of gastric lesions. Sergey Kashin (Russia)
- Calidad de la colonoscopia.
Miguel Muñoz Navas (Pamplona)
- Clinical applications of RFA in pancreaticobiliary cancers.
Rajesh Gupta (India)

11:45-14:00 **Session 5**

MODERATORS

J.M. Pou Fernández (Barcelona), Sarbelio Rodríguez Muñoz (Madrid), Pedro Menchén Fdez.-Pacheco (Madrid), Germán Alonso Maíllo (Alicante), Eduardo Piñeiro (Mexico) y Eduardo Rodríguez Sánchez (Ciudad Real)

ENDOLUMINAL THERAPEUTIC ENDOSCOPY

Special lectures

- New endoscopic resection technologies especially in esophagus. Pinghong Zhou (R.P. China)

- Overcome difficult situations for colorectal ESD.
Naohisa Yahagi (Japan)
- Per oral endoscopic myotomy: western perspectives and technic evolution. Stavros Stavropoulos (USA)
- POEM, estado actual y entrenamiento.
Santiago Horgan (USA)

ENDOSCOPIC RESECTION TECHNIQUES

- Current status of gastric ESD and new technique beyond ESD.
Naohisa Yahagi (Japan)
- Subepithelial tumors. Liu Bing-Rong (R.P. China)
- Endoscopic full-thickness resection techniques for subepithelial tumors: successes and challenges.
Stavros Stavropoulos (USA)
- Complications and solutions of the resection technologies especially in esophagus. Pinghong Zhou (R.P. China)

14:00-16:00 **Lunch and video transmission from the Research Institut**

Transmission of cases from the Institut de Recerca rooms with interactive discussion with the hall of the General Hospital between Team in rooms and the panel discussion.

Teams Rooms: Zhang Xiaoguang (R.P. China), Zhou Pinghong (R.P.China), Eduardo Piñeiro (México), Jorge Olsina (Lérida), Juan Dot (Barcelona), Sergey Kantsevov (USA), Per-Ola Park (Sweden), Monder Abu Suboh (Barcelona), Marta Rosal (Barcelona), Marielle Esteves (Barcelona) y Daniel Delgado Bellido (Sevilla), Maurizio Zilli (Italy), Milutin Bulajic (Serbia), Guillermo Dominguez (Argentina), Naohisa Yahagi (Japan), Teppei Akimoto (Japan), Kiyokazu Nakajima (Japan), Yumi Tsugita (Japan)

Discussion panel: Jaume Boix (Barcelona), Servando Fernández Díez (Madrid), Joaquín Balsells (Barcelona), Juan Rocamora (Alicante), Jose L. Calleja (Madrid), Octavio Mulet Zayas (Sevilla), Campo Elias Lindado (Venezuela), J. R. Armengol-Miró (Barcelona) Albis Hani (Colombia)

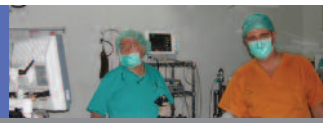
16:00-17:00 **Session 6**

OBESITY BOARD OBESIDAD

MODERATORS

Antonio J. Torres (Madrid), Jose Manuel Fort (Barcelona), Roberto Foguel (USA)

- **Masterly Conferences**
Antonio J. Torres (Madrid)
- Endoscopic Suturing for endoluminal Sleeve Gastrectomy.
Manoel Galvao (Brazil)
- Complicaciones Sleeve/By-pass. Soluciones quirúrgicas.
Ramon Vilallonga (Barcelona)
- Complicaciones cirugía bariátrica. Soluciones endoscópicas.
Jaume Boix Valverde (Badalona)



- Cirugía bariátrica con Robot. Ventajas. Indicaciones. JM Fort (Barcelona)
- Evidencia actual en la cirugía metabólica. J. M. Balibrea (Barcelona)

Discussion guest: José Antonio Baena (Lérida)

17:00-17:15 **Coffe break**

17:15-18:00 **SESSION 7**

MESA ABORDAJE TRANSANAL

MODERATORS

Eloy Espín (Barcelona), Jorge Olsina (Lérida)
y Enric Laporte (Barcelona)

Masterly Conference

Futuro de la cirugía rectal. Eduardo Targarona (Barcelona)

- Dispositivos puerto único vía transanal. Jesús Garrijo (Madrid)
- TEM. Indicaciones actuales. Sistemas de acceso. F. Vallribera (Barcelona)
- Abordaje transanal. Indicaciones. Técnica. Resultados. E. Espín (Barcelona)
- Extracción de piezas por vía naturales. Indicaciones y técnica. Salvador Morales (Sevilla)

CLOSURE



**World Institute for Digestive Endoscopy
Research-Barcelona N.O.T.E.S. Team**

**Cuerpo Facultativo del
Departamento de Cirugía
Hospital Universitari
Vall d'Hebron**

José Ramón Armengol-Miró

Jorge Olsina

Joaquín Balsells

Ramon Vilallonga

Manel Armengol Carrasco

Jose C. Salord

Juan Dot

Monder Abu Suboh Abadia

Miquel Masachs

Jordi Armengol

Ana Benages

M. Dolores Castillo Cejas

Jaume Boix

Manuel Morales

Daniel Delgado Bellido

Vicente Zanón

Jordi Pradell

Ramón Boque

Sandra Castro

José Antonio Baena

José Manuel Fort

Oscar González

Eloy Espín

Marc Martí

Francesc Vallribera

Jose Luis Sanchez

Jose Luis Lázaro

International

Sergey Kantsevov

Per-Ola Park

Irving Waxman

Naohisa Yahagi

Kiyokazu Nakajima

Luis Carlos Sabbagh

Nageshwar Reddy

Abraham Mathew

Louis de Giau

Guillermo Domínguez

Leonardo Sosa

Sha, Weihong

Manoel Galvão Neto

Servicio de Cirugía Cardíaca

Rafael Rodríguez Lecoq

Servicio de Cirugía Vascular

Manuel Matas Docampo

Beatriz Álvarez García

Servicio de Urología

Juan Morote Robles

Miguel Ángel López Pacios

Institut de Recerca Hospital

Universitari Vall d'Hebron

Marta Rosal

Marielle Esteves

Carla Fonseca

Alejandro Rojo

8th INTERNATIONAL NOTES W.I.D.E.R.-BARCELONA

NATURAL ORIFICE TRANSLUMINAL ENDOSCOPIC SURGERY

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VENUE: Auditorium of the Teaching Pavilion **HOSPITAL UNIVERSITARI VALL D' HEBRON**

Passeig de la Vall d'Hebron 119-129, Barcelona 08035

Two operating rooms of experimental surgery,
located in the ground floor of the Institut of Refence
of the Vall d'Hebron University Hospital.

SECRETARY'S OFFICE: EDIMSA

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