

Official program

9th 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

wider-barcelona.org

November 23 and 24, 2015

Paseo de la Vall d'Hebron, 119-129 • 08035 Barcelona • Tel. 93 274 61 00
Instituto Catalán de la Salud • Hospital Universitario Vall d'Hebron. UAB



**Generalitat
de Catalunya**



Vall d'Hebron
Institut de Recerca



Vall d'Hebron
Hospital



Obra Social
Fundación "la Caixa"

DIRECTORS

J. R. Armengol-Miró, M. Armengol Carrasco, A. J. Torres García y Joan Dot Bach

COORDINATORS

Jorge Olsina, Joaquim Balcells, Monder Abu Suboh Abadia and Jordi Armengol Bertolí

CONTRIBUTORS

Miquel Masachs Perecaula, Ana Benages y M^a. Dolores Castillo Cejas

DESCRIPTION

The **9th 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 of the 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 **WIDER-Barcelona**, **Hospital Universitari Vall d'Hebron** (Universitat Autònoma de Barcelona), **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 rooms of the Institute de Recerca and Digestive Endoscopy Service of H.U.V.H. with interactive discussion with the auditorium of the Educational Pavilion H.U.V.H. 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, POEM, LECS, etc.

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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SOCIEDAD ESPAÑOLA MÈDICO-QUIRÚRGICA DE ENDOSCOPIA DIGESTIVA

W.I.D.E.R.-BARCELONA

(WORLD INSTITUTE FOR DIGESTIVE ENDOSCOPY RESEARCH)



Esta actividad docente con número de expediente 09/015013-MD, está acreditada por el Consell Català de Formació Continuada de les Professions Sanitàries y la Comisión del Sistema Nacional de Salud con **2,5 créditos**.

9th INTERNATIONAL NOTES-W.I.D.E.R. - BARCELONA

NATURAL ORIFICE TRANSLUMINAL ENDOSCOPIC SURGERY

SCIENTIFIC PROGRAM **Monday, November 23, 2015**

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), Antonio J. Torres García (Madrid) y Joan Dot (Barcelona)

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

NOTES EXPERIMENTAL

PRESIDENTS

Manuel Armengol Carrasco (Barcelona), Marco Frascio (Italia), Liu Bing-Rong (R.P. China), Santiago Horgan (USA)

MODERATORS

Pedro Alonso Aguirre (A Coruña), Jean Escorrou (Francia), Eduardo Segal (Argentina), Per Ola Park (Suecia), Zhang Xiaoguang (R.P. China), Maurizio Zilli (Italia) y Renzo Cestari (Italia) y Rita Conigliaro (Italia)

- Transrectal Gallbladder Preserving Cholecystolithotomy (TRGPC) by Pure Natural Orifice Transluminal Endoscopic Surgery (NOTES).
Liu Bing-Rong (R.P. China)
- Stent treatment of perforated duodenal ulcers.
Jorge Arroyo Vázquez (Suecia)
- Extent of the surgical trauma caused by the abdominal access – comparing open, laparoscopic and NOTES transgastric access routs in access – comparing open, laparoscopic and NOTES transgastric access routs in a porcine model. Maria Bergström (Suecia)
- Results of our POEM programme.
Zuzana Vackova (Rep. Checa)
- Modified POEM procedure.
Liu Bing-Rong (R.P. China)
- Pyloric response to stentplacement.
Per-Ola Park (Suecia)

Discussion guests: Jesús Espinel Díez (León), Luis Menchén Viso (Madrid), Francisco Pellicer Batista (Sevilla), Senol Carilli (Turquia), Josep Galloró (Italia), Albis Hani (Colombia) y Sha Weihong (R.P. China)

Special lecture

Endoscopic Management of Iatrogenic Colonic Perforations: Do We Still Need Help From Surgeons?
Sergey Kantsevoy (USA)

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) y Joan Dot (Barcelona)

MODERATORS

Pedro Alonso Aguirre (A Coruña), Bing-Rong Liu (R.P. China), Alberto Montori (Italia), Sandra Castro (Barcelona), Maurizio Zilli (Italia) y Alberto Ferreres (Argentina)

ADVANCES IN NOTES

- A novel portable endoscopy system for universal access.
Kiyokazu Nakajima (Japón)
- Characterization of Force and Torque Interactions during a Simulated Transgastric Appendectomy Procedure.
Suvarnu De (USA)
- Combined endoscopic - laparoscopic technique for GI tumors.
Fan Zhining (R.P. China)

Session 2 - Alternatives to NOTES

11:55-13:00 **Live Session** (adjacent room).

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

Teams Rooms: Zhang Xiaoguang (R.P. China), Jorge Olsina (Lerida), Juan Dot (Barcelona), Sergey Kantsevoy (USA), Per-Ola Park (Suecia), Maria Bergström (Suecia), Monder Abu Suboh (Barcelona), Marta Rosal (Barcelona), Marielle Esteves (Barcelona), Daniel Delgado Bellido (Sevilla), Bing-Rong Liu (R.P. China), Lin Shijian Kong (R.P. China), Carlos Piedracoba (Madrid), Fan Zhining (R.P. China), Milutin Bulajic (Serbia), J. Galloro (Italia), Guillermo Dominguez (Argentina), Nereo Guillermo Salas (México), Kiyokazu Nakajima (Japón), Celso González Marsal (Venezuela), Jordi Armengol Bertroli (Barcelona) y Stavropoulos (USA)

Moderators and discussion guests: J. M. Herrerías (Sevilla), Jose C. Salord Oses (Barcelona), Jean Escourrou (Francia), Song Ji-Tao (R.P. China), Roberto Foguel (USA/Venezuela), Jesús Ortiz (Paraguay), Zuzana Vackova (Rep. Checa), J. Ramon Armengol-Miró (Barcelona), Sang Soo Lee (S. Korea), Mohamed El-Khattabi (Marruecos), Yongqiang Li (R.P. China), Weimin Liang (R.P. China) y Maurizio Zilli (Italia)

13:00-14:00 **SIMPOSIO: Single Port Access**

MODERATORS

Joaquin Balsells (Barcelona), Enrique Veloso (Tarrasa), Senol Carilli (Turquia), Lin Shijian Kong (R.P. China) y Yury Starkov (Rusia)

Masterly Conference

Controversies on the laparoscopic approach to rectal cancer.
Eduardo Targarona (Barcelona)

- Multidisciplinary approach in minimally invasive surgery: discover new horizons. Seda Dzhantukhanova (Rusia)
- TaTEM (Exeresi total del mesorecte). Eloy Espín (Barcelona)
- Del Puerto Único puro a la Cirugía de Reducción de Puertos en cirugía de urgencias: como generalizar una técnica.
Jesús Garijo (Madrid)
- Cirugía de colon por puerto único.
José Noguera (La Coruña)

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

14:00-14:15 Special lecture

Submucosal Tunneling Endoscopic Reserption (STER)
Mei-Dong Xu (R.P. China)

MODERATORS

José Ramón Armengol-Miró (Barcelona), Manuel Armengol Carrasco (Barcelona), Antonio J. Torres García (Madrid), Sergey Kantsevov (USA), Sarbelio Rodríguez (Madrid) y Lin Shijian Kong (R.P. China)

14:15-15:30 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), Jorge Olsina (Lérida), Juan Dot (Barcelona), Sergei Kantsevov (USA), Louis De Giau (México), M. Abu Suboh (Barcelona), Celso González Marsal (Venezuela), Marta Rosal (Barcelona), Marielle Esteves (Barcelona), Song Ji-Tao (R.P. China), Guillermo Domínguez (Argentina) y Nereo Guillermo Salas (México)

Discussion Panel: Daniel Delgado Bellido (Sevilla), Joaquin Balsells (Barcelona), Juan Rocamora (Alicante), José Carlos Salord Osses (Barcelona), Enrique Castillo Begines (Burgos), Sergey Kashin (Rusia), Fernando Rojas (Mexico), Eduardo Segal (Argentina), Jesús Ortiz (Paraguay), Campo Elías Lindado (Venezuela), José R. Armengol-Miró (Barcelona)

Transmisión del servicio de endoscopia digestiva.
Bing-Rong Liu (R.P. China), Fan Zhining (R.P. China) y Stavropol Stavropoulos (USA)

15:30-16:50 Disputes between Endoscopic Surgery and Endoluminal Endoscopy

MODERATORS

Paul G. Curcillo (USA), Joaquin Balsells (Barcelona), Enrique Veloso (Tarrasa), Senol Carilli (Turquia) y Yury Starkov (Rusia)

Hiatal Hernia

- Endoscopic surgical view. Sandra Castro (Barcelona)
- MUSE SYSTEM, Endoscopic transoral partial fundoplication for the treatment of GERD. Alberto Testoni (Italia)
- Video-conferencia: Randomized Clinical Trial where we compared TIF procedure (EsophyX) with SHAM. Randomized Clinical Trial TIF vs Optimized (high) dose of PPI's. Adrian Lobontiu (USA)
- POEM, US perspective with emphasis on Technique and GERD. Stavropol Stavropoulos (USA)

Zenker's Diverticulum

- Endoscopic diverticulotomy and Tranxaxillary Robotic Zenker's diverticulectomy endo assisted procedure. Two minimvasive complementary techniques. Rita Conigliaro (Italia)

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

16:50-17:05 Coffe break

17:05-19:20 SIMPOSIO: Endoluminal endoscopy and EUS Joint venture

PRESIDENTS

Pedro Alonso Aguirre (A Coruña), Alberto Montori (Italia), Sandra Castro (Barcelona), Maurizio Zilli (Italia), Ramón Charco (Barcelona), Enric Laporte (Barcelona), Julius Spicak (Rep. Checa)

MODERATORS

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

Special Conference

Interventional EUS: How far can we go?
Sang Soo Lee (Korea)

ERCP

- ERCP in altered upper GI-tract anatomy. Per-Ola Park (Suecia)
- Less typical and atypical complications of ERCP. Milutin Bulajic (Serbia)
- Bile duct Injury. Percutaneous Approach. Mariano Giménez (Argentina)
- Tratamiento endoscópico de las estenosis biliares en el trasplante hepático. Miguel Muñoz Navas (Pamplona)
- Definition of undetermined pancreatic cysts: new techniques H. Bertani (Italia)
- Urgent endoscopic treatment of acute infected necrotic pancreatitis. Jean Escourrou (Francia)
- Postsphinterotomy bleeding: prophylactic and treatment by covered stents. Miquel Masachs (Barcelona)
- The technique and indications for EUS-guided drainage of pancreatic cysts. L.V. Shumkina (Rusia)

Discussion guests:

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

SPECIAL EVENT [by personal invitation only]

Symposium Dinner-Welcome Banquet WIDER 2015- Museo CosmoCaixa

Welcome to Barcelona

Boi Ruiz i García
(Conseller de Salut de la Generalitat de Catalunya)

Scientific Symposium

PRESIDENTS

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

MODERATORS

Kiyokazu Nakajima (Japón), Liu Bing-Rong (R.P. China), Marco Frascio (Italia), Antonio J. Torres García (Madrid)

- To be an endoscopic surgeon... Eduardo Targarona (Barcelona)
- Endoscopic Unit of the 22 Century: The Infrastructure for Clinical Success. Sergey Kantsevov (USA)

9th INTERNATIONAL NOTES-W.I.D.E.R.- BARCELONA

NATURAL ORIFICE TRANSLUMINAL ENDOSCOPIC SURGERY

SCIENTIFIC PROGRAM **Tuesday, November 24, 2015**

Auditorium of the Teaching Pavilion HOSPITAL UNIVERSITARI VALL D'HEBRON

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

CLINIC NOTES BOARD

PRESIDENTS

Manuel Armengol Carrasco (Barcelona), Marco Frascio (Italia)
Antonio Torres (Madrid), Alberto Montori (Italia) y Alberto Ferreres (Argentina)

Masterly Conferences

Minimally Invasive Surgery: Which is the way after 25 years?

Antonio J. Torres (Madrid)

MODERATORS

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

- Cirugía Sin Huella - 11 años de Experiencia. Guillermo Domínguez (Argentina)
- Single incision laparoscopic appendectomy: is it worthwhile / la apendicectomía SILS: vale la pena? Alberto Ferreres (Argentina)
- Complicaciones de la pared en cirugía de Puerto único. Rafael Villalobos Mori (Lérida)
- El abordaje transvaginal: secuelas desde el punto de vista ginecológico? / transvaginal access: are there consequences from the gynecologic functionality? Alberto Ferreres (Argentina)
- Plume Risk in VLS in Endoscopic Surgery. Marco Frascio (Italia)
- LESS TEP repair in inguinal hernia. Senol Carilli (Turquía)
- TEM. Estado actual de la técnica. Francesc Vallribera (Barcelona)

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

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

MODERATORS

Felipe Martínez Alcalá (Sevilla), Jaume Boix Valverde (Badalona), Leopoldo Lopez Roses (Lugo), Guillermo Cacho Acosta (Madrid), Enrique Castillo Begines (Burgos) y Albis Hani (Colombia)

Special lectures

- New hybrid argon plasma coagulation technique for endoscopic ablation of Barrett's Esophagus: first experience and results. Sergey Kashin (Rusia)
- Graspers Magnéticos - Reduciendo puertos en cirugía. Guillermo Domínguez (Argentina)
- ESWL for difficult bile duct stones. Rajesh Gupta (India)

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

MODERATORS

J.M. Pou Fernández (Barcelona), Sarbelio Rodríguez (Madrid), Germán Alonso Maillo (Alicante), Eduardo Piñeiro (México) y Jaume Boix Valverde (Badalona)

ENDOLUMINAL THERAPEUTIC ENDOSCOPY

Special lectures

- VTEST- A virtual transluminal endoscopic skill trainer: development and initial validation studies. Suvranu De (USA)
- Estado actual de la ESD en Europa; experiencia personal. Sarbelio Rodríguez (Madrid)
- Endoscopic treatment of different endoscopic resection techniques complications. Mei-Dong Xu (R.P. China)

BILIOPANCREATIC MISCELANEA

- Endoscopic management of cholangiocarcinoma. Rajesh Gupta (India)
- Minimally invasive palliative treatment of unresectable biliopancreatic cancer. Mariano Giménez (Argentina)
- Evolución del drenaje biliopancreático endoscópico en nuestro entorno (Wider-Barcelona). Joan Dot Bach (Barcelona)
- Estado actual de la coledoscopia en las estenosis biliopancreáticas. Sarbelio Rodríguez (Madrid)
- Páncreas graso por Ecoendoscopia epidemiología, riesgo de pancreatitis crónica y cáncer? Leonardo Sosa (Venezuela)
- Avances técnicos de imagen diagnóstica en ecoendoscopia G.I. Monder Abu Suboh (Barcelona)

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), Eduardo Piñeiro (México), Jorge Olsina (Lérida), Joan Dot (Barcelona), Carlos Piedracoba (Madrid), Sergey Kantsevov (USA), Celso González Marsal (Venezuela), Per-Ola Park (Suecia), Nereo Guillermo Salas (México), Monder Abu Suboh (Barcelona), Marta Rosal (Barcelona), Marielle Esteves (Barcelona) y Daniel Delgado Bellido (Sevilla), Maurizio Zilli (Italia), Milutin Bulajic (Serbia) y Guillermo Domínguez (Argentina)

Discussion panel: Jaume Boix (Barcelona), Joaquín Balsells (Barcelona), Juan Rocamora (Alicante), Octavio Mulet Zayas (Sevilla), Campo Elías Lindero (Venezuela), J. R. Armengol-Miró (Barcelona) y Albis Hani (Colombia)

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

OBESITY BOARD

MODERATORS

Antonio J. Torres (Madrid), Jose Manuel Fort (Barcelona), Roberto Foguel (USA-Venezuela) y Jaume Boix Valverde (Badalona)

Conferencia Magistral

Bariatric and Metabolic Surgery: Where are we?

Antonio J. Torres (Madrid)

- Nuevo tratamiento laparoscópico para la obesidad. A un año. El Clamp Gástrico. Roberto Foguel (USA-Venezuela)

- El uso del robot en cirugía bariátrica.
Ramon Vilallonga (Barcelona)
- Cirugía bariátrica con Robot. Ventajas. Indicaciones.
Santiago Horgan (USA)
- Novedades en la cirugía de la obesidad.
J. M. Balibrea (Barcelona)

Discussion guest:

José Antonio Baena (Lérida)

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

17:15-18:45 **Session 7**

**VIDEO TECHNICAL FORUM , COMPLICATIONS
AND SETTLEMENT OF COMPLICATIONS IN
DRAIN BILIOPANCREATIC**

**MISCELLANEOUS EXTRACTION
UNUSUAL FOREIGN BODIES**

MISCELLANY

18:45 **CLOSURE**



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

José Ramón Armengol-Miró	Daniel Delgado Bellido
Jorge Olsina	Vicente Zanón
Joaquín Balsells	Jordi Pradell
Ramon Vilallonga	Ramón Boque
Manel Armengol Carrasco	Sandra Castro
Joan Dot Bach	José Antonio Baena
Monder Abu Suboh Abadia	José Manuel Fort
Miquel Masachs	Oscar González
Jordi Armengol	Eloy Espin
Ana Benages	Marc Martí
M. Dolores Castillo Cejas	Francesc Vallribera
Jorge Guevara Cubas	Jose Luis Sanchez
Denise Sihuay di Burga	Jose Luis Lázaro
Jaume Boix	
Manuel Morales	

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

Staff of Department of Surgery Hospital Universitari Vall d'Hebron

Department of Cardiac Surgery

Rafael Rodríguez Lecoq

Department of Vascular Surgery

Manuel Matas Docampo
Beatriz Álvarez García

Department of Urology

Juan Morote Robles
Miguel Ángel López Pacios

Institut de Recerca Hospital Universitari Vall d'Hebron

Marta Rosal
Marielle Esteves
Carla Fonseca
Alejandro Rojo

9th INTERNATIONAL NOTES W.I.D.E.R.-BARCELONA

NATURAL ORIFICE TRANSLUMINAL ENDOSCOPIC SURGERY

www.wider-barcelona.org • director@wider-barcelona.org



Award for Professional Excellence 2015

The College of Physicians of Barcelona has distinguished team of Digestive Endoscopy Unit of the University Hospital Vall d' Hebron with the **Award for Professional Excellence 2015**.

www.e-notes.es

www.ceton.es

www.semged.org

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.
Endoscopy rooms

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