

May 7th- 8th, 2024 Camera di Commercio, Brescia Italy

The First Internationally Validated European Guidelines Meeting on Minimally Invasive Liver Surgery





IEGUMILS

The First Internationally Validated European Guidelines Meeting
on Minimally Invasive Liver Surgery

Meeting Chairman: Prof. Mohammed Abu Hilal
Guest of Honor: Dr. Neil Pearce

IN PARTNERSHIP WITH:



RATIONALE



The upcoming Guidelines meeting in Minimally Invasive Liver Surgery will see the development of the first Internationally validated European Guidelines in the field of minimally invasive Liver surgery. These newly established guidelines will have the peculiarity of including separate guidelines for both laparoscopic and for robotic liver surgery based on the most recent evidence in the field, particularly evidence produced after the Southampton Guideline which collected evidence until June 2016. The guidelines will assess terminology, indications, instrumentation and their safety and validity, in addition to different other domains (see program). The Guidelines will adopt a thorough scientific methodology, which will be similar to those used in the successful Brescia Guidelines on minimally invasive pancreatic surgery (EGUMIPS 2022) and the Southampton Guidelines on laparoscopic liver surgery (EGMLLS 2017). The upcoming meeting has great potential, considering its high scientific content. This is also based on the involvement of over 100 European International experts in minimally invasive and open liver surgery.

PROGRAM
Tuesday May 6th, 2024

Time	Event	Location
14:00 – 17:30	Final Delphi Round	Palazzo Loggia











PROGRAM

Tuesday May 7th, 2024

Time	Event	Speaker
08:00 – 08:30	Registration, Visit Exhibits	
08:30 – 09:00	Welcome and Introduction <i>+ Introduction methodology</i>	Prof. Abu Hilal
09:00 – 09:20 09:20 – 09:35	Guest Lecture: History and art of liver surgery Guest Lecture: Life and time of Thomas Starzl Chairs: To be determined (T.b.d.)	Prof. T. van Gulik Prof. D. Geller
09:35 – 09:55	Welcome to IEGUMILS <ul style="list-style-type: none"> - Prof. Abu Hilal Meeting chairman Chairman - Dr. Mario Taccolini; Presidente of Fondazione Poliambulanza - Prof. David Geller, Past president of ILLS on behalf of the society - Prof. Marc Besselink; President of the E-AHPBA - Prof. Adnan Alseidi; Head of HPB working group of SAGES Chair: Prof. Abu Hilal	
09:55 – 10:15	Institutional Welcome Chair: Prof. Abu Hilal, Dr. N. Pearce	<i>Region of Lombardy and Council of Brescia representatives:</i> <i>Ms. S. Tironi – Education assessor Region of Lombardy</i> <i>Mr. C.V. Sileo – General director of ATS Region of Lombardy (To be confirmed)</i> <i>Ms. L. Castelletti – Mayor of Brescia (To be confirmed)</i>
10:15 – 10:20	Professional Oaths on the behalf of the: <ul style="list-style-type: none"> - Expert Committee: Prof. Daniel Cherqui - Validation Committee: Prof. Horacio Asbun - Research Working Group: Tijs Hoogteijling 	
10:20 – 11:10	Session 1 – TERMINOLOGY in MILS Chairs: T.b.d.	
	<ul style="list-style-type: none"> • Defined approaches in MILS • Definition of Hybrid Laparoscopic-robotic procedure and their role 	Group 1: Experts *Prof. Alseidi  *Prof. Boggi 

	<ul style="list-style-type: none"> • Can different approaches be simultaneously used and how should they be defined? • Liver resection in PS segments, a minor or a major procedure? • How should conversion from either robotic to laparoscopic, or minimally invasive to open, be defined? 	<p>Prof. Han </p> <p>Dr. Marsman </p> <p>Dr. Lopez Ben </p> <p>Dr. Schmelzle </p> <p>Prof. Ferrero </p> <p>Dr. Cipriani </p> <p>Researchers</p> <p>Simone Famularo (lead) </p> <p>Emre Bozkurt (co-lead) </p> <p>Sara Saeidi </p> <p>Victor Lopez-Lopez </p> <p>Roberta Angelico </p>
11:10 – 11:30	<p>Guest Lecture: <i>The relevant continuity of the MI solid organs surgeon and his/her oncological impact</i></p> <p>Chairs: T.b.d.</p>	T.b.d.
11:30 – 12:20	<p>Session 2 – INDICATIONS</p> <p>Chairs: T.b.d.</p>	
	<ul style="list-style-type: none"> • What is the role of the laparoscopic and the robotic approach in different indications? <ul style="list-style-type: none"> ○ (Non)Colorectal Liver metastases ○ Hepatocellular carcinoma ○ Cholangiocarcinoma ○ Benign liver tumors ○ Living donor hepatectomy ○ Combined resections ○ Biliary/vascular reconstruction 	<p>Group 2:</p> <p>Experts</p> <p>*Prof. Rottelar </p> <p>*Prof. Sucandy </p> <p>Prof. Wakabayashi </p> <p>Prof. Aldrighetti </p> <p>Prof. Efanov </p> <p>Prof. Lodge </p> <p>Prof. Cillo </p> <p>Prof. Cherqui </p> <p>Dr. Berardi </p> <p>Dr. Ratti </p> <p>Researchers</p> <p>Victor Lopez-Lopez (lead) </p> <p>Maria Conticchio </p> <p>Florian Primavesi </p> <p>Elisa Bannone </p> <p>Soufyan El Adel </p>
12:20 – 13:30	<p>Validation Group Deliberation: <i>Terminology & Indications</i></p>	
12:20 – 12:45	<p>Industry Partner (QR Archamedics) Symposium</p> <ul style="list-style-type: none"> - Absorbable Stents in Pancreatic Surgery - Absorbable Stents in Transplant & Liver Surgery - Absorbable Stents in HPB Surgery 	<p>Prof. Stefano Partelli</p> <p>Prof. Krishna Menon</p> <p>Dr. Fabio Ausania</p>

	Chair: Prof. Mohammad Abu Hilal	
12:45 – 13:30	<i>Lunch break</i>	
13:30 – 13:50	Guest lecture: <i>T.b.d.</i> Chairs: T.b.d.	Dr. Neil Pearce
13:50 – 14:05	Industry Partner (T.b.d.) Symposium Chairs: T.b.d.	
14:05 – 15:05	<u>Session 3 – PATIENTS (SELECTION)</u> Chairs: T.b.d.	
	<ul style="list-style-type: none"> • Are there contraindications for laparoscopic and/or robotic liver resection? • Which patients will benefit the most from minimally invasive approaches in liver surgery? • Is there a role for the laparoscopic and/or robotic approach in technically complex settings? <ul style="list-style-type: none"> ○ Two-stage hepatectomy ○ After future liver remnant modulation ○ Lesions in close proximity to major vessels ○ Repeat hepatectomy 	Group 3: Experts *Prof. D’Hondt  *Prof. Dagher  Prof. Fonddevilla  Prof. Menon  Prof. Efanov  Prof. Robles-Campos  Prof. Ettorre  Dr. Ciria  Dr. Duncan  Prof. Felice Giuliani  Researchers Tijs Hoogteijling (lead)  Andrea Benedetti (co-lead)  Andrea Sheel  Francesco Taliente  Simone Famularo  Martina Guerra 
15:05 – 15:30	<i>Break</i>	
15:30 – 16:40	<u>Session 4 – PROCEDURES</u> Chairs: T.b.d.	
	<ul style="list-style-type: none"> • Is the laparoscopic and robotic approach applicable for major hepatectomies? • Is the laparoscopic and robotic approach applicable for resections in the posterosuperior segments? 	Group 4: Experts *Dr. Swijnenburg  *Prof. Ferrero  Prof. di Benedetto  Dr. Cugat  Prof. White 












	<ul style="list-style-type: none"> • Is the laparoscopic and robotic approach applicable for parenchyma-sparing liver resections? • Is the laparoscopic and robotic approach applicable for anatomical liver resections? 	<p>Dr. Alsaati </p> <p>Prof. Croner </p> <p>Dr. Lopez Ben </p> <p>Dr. Ruzzenente </p> <p>Dr. Diaz-Nieto </p> <p>Researchers</p> <p>Jasper Sijberden (lead) </p> <p>Christoph Kuemmerli (co-lead)</p> <p></p> <p>Fernando Pardo Aranda </p> <p>Roberta Angelico </p> <p>Andrea Sheel </p>
16:40 – 17:45	Validation Group Deliberation: Patient selection & Procedures	
16:40 – 16:55	<p>Guest lecture: Does intervention radiology compete with MILS or is it a match made in heaven?</p> <p>Chair: T.b.d.</p>	Dr. Claudio Sallemi
16:55 – 17:45	<p>Selected Video Session</p> <p>Chairs: T.b.d.</p>	
17:45 – 18:00	<i>Closing remarks</i>	Prof. Abu Hilal

Time	Event	Location
19:30 – 22:30	Social Dinner	Ristorante 'I due Roccoli' Via Silvio Bonomelli, 79, 25049 Iseo BS (Transport coaches provided)

Wednesday May 8th, 2024

Time	Event	Faculty
08:00 – 08:20	Registration, Visit Exhibits	
08:20 – 08:30	Introduction to the day	Prof. Abu Hilal
08:30 – 10:10	Session 5 – SURGICAL TECHNIQUES AND INSTRUMENTATION	
	Chairs: T.b.d.	
	<ul style="list-style-type: none"> • What type of energy devices and instruments should be used during parenchymal transection in laparoscopic and robotic liver surgery? • What is the role of intraoperative ultrasound in laparoscopic and robotic liver surgery? • What are the available and safe techniques in various minimally invasive (complex and/or combined) procedures? • What are the optimal techniques for hemorrhage control in laparoscopic and robotic liver surgery? • What is the role of hemostatic products in MILS? • What is the recommended drain policy in minimally invasive liver surgery? 	Group 5: Experts *Prof. Edwin  *Dr. Marsman  Dr. Fretland  Dr. Hagendoorn  Dr. Sutcliffe  Prof. Troisi  Dr. Santoyo  Prof. Memeo  Prof. Honda  Prof. Schmelzle  Dr. Ciria  Researchers Andrea Benedetti (lead)  Tijs Hoogteijling (co-lead)  Gabriela Pilz da Cunha  Francesco Sucameli  Francesco Taliente 
10:10 – 11:10	Validation Group Deliberation: Surgical techniques and instrumentation	
10:10 – 10:30	Selected Video Session	
	Chairs: T.b.d.	
10:30 – 10:50	<i>Break</i>	
10:50 – 11:10	Guest lecture: T.b.d. (robotic surgery)	T.b.d.
	Chair: T.b.d.	
11:10 – 11:50	Session 6 – OUTCOME MEASUREMENT & ASSESSMENT TOOLS	
	Chairs: T.b.d.	
	<ul style="list-style-type: none"> • Which outcome measurements are most suitable in assessing the validity of laparoscopic and robotic liver surgery? • What is the optimal outcome measurement we need to develop for future assessments in MILS 	Group 6: Experts *Prof. Marques  *Prof. Scatton  Prof. White 

		Prof. Vivarelli Prof. Lesurtel Dr. Teh Dr. Russolillo Researchers Christoph Kuemmerli (lead) Jasper Sijberden (co-lead) Soufyan El Adel Fernando Pardo Aranda Teodros Veronesi
11:50 – 13:00	Validation Group Deliberation: Assessment Tools	
11:50 – 12:10	Guest lecture: History and science: If you don't know your past you can't build a future Chair: T.b.d.	Don Canobio
12:10 – 12:45	Selected Video Session Chairs: T.b.d.	
12:45 – 13:00	Industry Partner (T.b.d.) Symposium	T.b.d.
13:00 – 13:50	Lunch break	
13:50 – 14:40	Session 7 – TRAINING & ICES (Implementation, Cost-Effectiveness, and Sustainability) Chairs: T.b.d.	
	<ul style="list-style-type: none"> • Which training programs and preparations should surgeons pursue before performing laparoscopic and/or robotic liver surgery? • What is the impact of European and national training programs on clinical outcomes of laparoscopic and robotic liver resection? • What is needed to increase access to training programs for practicing surgeons? • Which centers should be performing laparoscopic and/or robotic liver surgery? • What is the role of (inter)national registries in the wider implementation of minimally invasive liver surgery? • Is laparoscopic and/or robotic surgery cost-effective? • Are additional costs in robotic surgery justified? • What is needed to increase worldwide access to minimally invasive liver surgery? 	Group 7: Experts *Prof. Alseidi *Prof. Troisi Dr. Swijnenburg Prof. Lesurtel Prof. Cillo Dr. Sutcliffe Dr. Cipriani Dr. Rashidian Researchers Florian Primavesi (lead) Nikki Rashidian (co-lead) Gabriela Pilz da Cunha Maria Conticchio Francesco Sucameli














14:40-15:30	Session 8: ARTIFICIAL INTELLIGENCE & INNOVATIVE TECHNIQUES	
	Chairs: T.b.d.	
	<ul style="list-style-type: none"> • What is the role of artificial intelligence (AI) and innovative techniques in minimally invasive liver surgery? <ul style="list-style-type: none"> ○ Radiomics ○ 3D liver reconstruction ○ Liver segmentation ○ Indocyanine green (ICG) ○ Liver navigation ○ Haptics (robotic liver surgery) • What is the role of AI in the future expansion of laparoscopic and robotic liver surgery? • What is the role of the surgeon in pushing forward the role of AI in daily practice? 	Group 8: Experts *Prof. Gumbs  *Prof. Croner  Dr. Fretland  Prof. Sucandy  Dr. Rashidian  Researchers Emre Bozkurt (lead)  Nikki Rashidian (co-lead)  Martina Guerra  Elisa Bannone  Teodros Veronesi  Sara Saeidi 
15:30 – 16:40	Validation Group Deliberation: Implementation and training & Artificial Intelligence	
15:30 – 15:50	<i>Break</i>	
15:50 – 16:40	Selected Video Session	
	Chairs: T.b.d.	
16:40 – 17:30	Validation Committee Report	
17:30	Closing remarks, summary and next Steps	Prof. M. Abu Hilal

T.b.d. = To be determined

* = (Co-)Chairman

† = Validation Committee members:

- Prof. Horacio Asbun 
- Prof. Ajith Siriwardena 
- Prof. Marc Besselink 
- Prof. Thomas van Gulik 
- Prof. Christos Dervenis 
- Dr. Alejandro Serrablo 
- Dr. Mark Taylor 
- prof. Brian Goh 
- Prof. David Geller 
- Prof. Alfredo Guglielmi 
- Prof. Luciano De Carlis 
- Prof. Sergio Alfieri 
- Prof. Elio Jovine 
- Dr. Antonio Pinna 
- Dr. Chen Kiu-Hsin 

- Dr. Nazzario Portolani 
- Dr. Claudio Sallemi 
- Dr. Isabella frigerio 
- Dr. Gianluca Baiocchi 
- Prof. Safi Dokmak 
- Dr. Sameer Smadi 
- Dr. Federico Mocchegiani 
- Prof. Rong Liu 
- Dr. Fabio Ausania 
- Prof. Giuseppe Kito Fusai 
- Dr. Amal Suhood 
- Dr. Ravi Marudanayagam 
- Dr. Antonella Delvecchio 
- Prof. Jawad Ahmad 
- Dr. Clarissa Ferrari 
- Mr. Omar Saleh 