



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



EUROPEAN CONFERENCE  
ON GENERAL THORACIC SURGERY

ESTS

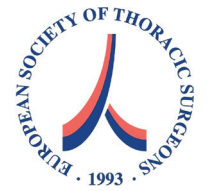


30th Meeting of the European Society of Thoracic Surgeons has been granted 22 European CME credits (ECMEC®s) by the European Accreditation Council for Continuing Medical Education (EACCME®)

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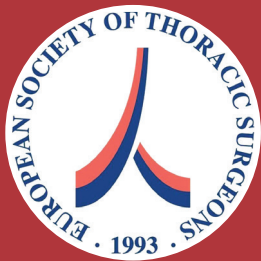
## INDEX

### FIRST SECTION

Welcome Address	
Willem-Hans Steup. Chair of LOC	04
Alessandro Brunelli. ESTS President	05
Symposium for Nurses - Welcome	06
Committees	07
Society Representatives	08
Program at a glance	09
Scientific Program	
Sunday 19 June	12
Monday 20 June	21
Tuesday 21 June	32
Symposium for Nurses	40
Prizes and Awards	43
Posters	44
Videos	55

### SECOND SECTION

Welcome to the Hague	59
General Information	60
Venue / Main Contact Details	60
Registration fees	64
Industry-sponsored Symposium	65
Prize and awards from industry	65
Annual Women in General Thoracic Surgery networking night	66
Meet the expert	67
Trainees get together	68
Main sponsors	69



## FIRST SECTION

Welcome Address	
Willem-Hans Steup. Chair of LOC	04
Alessandro Brunelli. ESTS President	05
Symposium for Nurses - Welcome	06
Committees	07
Society Representatives	08
Program at a glance	09
Scientific Program	
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Monday 20 June	21
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## WELCOME ADDRESS

Welcome back  
We missed you!!!

Since our last ESTS meeting in Dublin Sars-coV-2 really changed the world in many ways, due to its massive impact on almost everything in the world. After 2 years of unwanted but necessary virtual ESTS and other meetings, the time is here to physically meet again amongst thoracic surgeons, residents, trainees, (specialized) nurses, OR crew, industry and all interested in this fantastic domain in medicine.

We therefore are extremely delighted to welcome you to The Hague, The Netherlands, for the ESTS Annual Meeting 2022

Holland is much more than tulips, windmills, canals and wooden shoes, and The Hague proves this. In this city the parliament resides, the King has his working and private palace but also the Embassies, the International Court of Justice and the International Criminal Court are located here.

The third largest city of Holland has the largest coastline: more than 11 km beach and two famous and popular seaside resorts: Scheveningen and Kijkduin.

It has the grandeur of a royal residence and the friendliness of a small town in a multicultural and truly international setting.

The Hague as a city and ESTS and this meeting match perfectly:

The European Society of Thoracic Surgeons is about International collaboration, learning together and sharing experience and knowledge but also preparing the future generation in a rapidly changing surgical world. Equally important are the friendships, networks and a perfect environment to get in touch with the Industry.

The ESTS meeting is the place where members and many other colleagues meet and we would like you to be part of this. Please also bring your team members: (specialized) nurses, OR team members: we can only perform as a team.

Join the plenary sessions, come to the breakfast meetings and social events, learn from colleagues, tell us about your own expertise and experience.

Learn about new techniques, new instruments, and new possibilities within our profession and about disease management, let's talk about new topics; how to get the patient fit for surgery (prehabilitation) and how can we stay fit to perform and last but not least how we manage sustainability in Health Care f.e. within our OR.

The world is changing rapidly and many challenges are ahead of us and thoracic surgery and present and future surgeons have to move along.

In other words: learn, share, teach and enjoy, where after 2 years of no physical ESTS meetings, this is the occasion to renew and refresh our social interactions live!

We can do this together in The Hague 2022 where we all wholeheartedly welcome you on behalf of the Local Organizing Committee.



**Willem-Hans Steup**  
Chair of LOC



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## WELCOME ADDRESS

Dear Colleagues, Dear Friends,

On behalf of the Board of Directors and the Program Committee it is a great pleasure to invite you to the 30th ESTS meeting next June 19-21 in The Hague, Netherlands.

The last couple of years have been a very difficult time and we have gone through personal and professional hardship and sorrow. The scientific community has been physically separated and many of those events which in the past we considered a nice routine have been violently scrapped from our lives. We have been forced to communicate and learn science through online events and webinars. They were very effective in keeping us up to date with the latest scientific evidence, but they were not enough.

A scientific congress is not just a series of lectures or talks delivered from a podium, there is much more. There is the social interaction, meeting old friends and making new acquaintances which may turn to become lifelong, discussing a project over a coffee, inviting colleagues to spend time in our unit. Especially for young doctors, a congress represents the unique opportunity to meet renown surgeons and perhaps establish connections that can lead to new professional opportunities.

There is a congress beyond the congress which for most is even more relevant than the lectures or symposia.

I am happy to inform you that the Board and Program Committee have agreed this year to revert to a face to face meeting. It is particularly symbolic that the next Congress, the congress which will epitomise the return to our beloved "normality", will be the 30th Annual Congress of our Society. An important birthday for ESTS.

The Program Committee has been working hard to put together a vibrant and comprehensive program. A program which will be up to the expectations of our many thoracic surgical colleagues who have continued to faithfully support our Organisation during the last period.

Improving patient care through training and education is the core value of ESTS and we will always do our best to align our activities and our programs to this mission statement.

Dear Colleagues and Friends, as President of ESTS, the world's largest society for General Thoracic Surgery, I am very happy and honoured to welcome all of you to The Hague next June to share and learn the most up to date evidence in our speciality and to enjoy networking with your friends and colleagues.



**Alessandro Brunelli**  
ESTS President



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## WELCOME ADDRESS SYMPOSIUM FOR NURSES AND ALLIED HEALTH PROFESSIONAL Monday 20 June

Dear Nursing & Allied Health Colleagues

We would like to invite you to the 7th Nursing & Allied Health Professionals Symposium at the 30th ESTS conference in The Hague, Netherlands 2022.

The symposium will cover a variety of topics within thoracic surgery that are of interest to this specialist group. The presentations throughout the day will be delivered by invited speakers, oral presentations, posters and workshop based learning.

This is the most important and largest international symposium for thoracic surgery. The organization and efficiency of care is different in every country, not necessarily better or worse, but we can learn from each other to optimize the care for our patients as optimal as possible. This symposium is an excellent opportunity to share experiences. By transferring knowledge and skills, but above all by getting to know each other and networking together.

This may offer opportunities to make clear international agreements regarding the care of thorax surgery.

The symposium will also contribute to a positive stimulus for your professional development.

Important and recent studies in the field of thoracic surgery are discussed. And perhaps it challenges you to participate in research to further develop and qualitatively improve the care provided to this patient group.

In our opinion the outcome of all our work in thoracic surgery yields the most optimal benefit for our patients and ourselves if we perform as a team. Please consider to attend this meeting and the submission of abstracts therefore as a team, both for a high level scientific and social learning event.

Have you become enthusiastic about thoracic surgery?  
Or sign up for an interesting workshop that you want to share.  
Simply register for the symposium!

Feel welcome in our hospitable The Hague from 19-21 June 2022 and enjoy what the ESTS and the Netherlands has to offer.

**When participating in the nursing programme,  
you are welcome to join the other  
scientific sessions as well.**



**Willem-Hans Steup**  
Chair, Local Organising Committee



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19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## COMMITTEES

### SCIENTIFIC PROGRAM COMMITTEE 2022

Alessandro Brunelli (United Kingdom)  
David Heineman (The Netherlands)  
Fernando Vannucci (Brazil)  
Gilbert Massard (Luxembourg)  
Hasan Batirel (Turkey)  
Herbert Decaluwe (Belgium)  
Hermien Schreurs (The Netherlands)  
Isabelle Opitz (Switzerland)  
Lunxu Liu (China)  
Masayuki Chida (Japan)  
Nuria Novoa (Spain)  
Pierre-Emmanuel Falcoz (France)  
Rene Horsleben Petersen (Denmark)  
Willem-Hans Steup (The Netherlands)  
Zalan Szanto (Hungary)

### LOCAL ORGANIZING COMMITTEE

#### Chair

Willem-Hans Steup

#### Members

Niek Hugen  
Geertruid Marres  
Matthijs van Gool  
Pieter-Jan van Huijstee  
Reinier Zandbergen  
Thomas van Brakel  
Marie Chantal Struys

#### Symposium for Nurses

Angelique Dernison  
Tineke Lammers

### OFFICERS 2021/2022

#### President

Alessandro Brunelli  
Leeds (UK)

#### Secretary General

Hasan Batirel  
Istanbul (Turkey)

#### Treasurer, President Elect

Isabelle Opitz  
Zurich (Switzerland)

#### Editor

Pierre-Emmanuel Falcoz  
Strasbourg (France)

#### Past President

Enrico Ruffini  
Torino (Italy)

### DIRECTORS 2021/2022

#### Director of Annual Meeting

Rene Horsleben Petersen  
Copenhagen (Denmark)

#### Director of Database

Zalan Szanto  
Pecs (Hungary)

#### Director of Education

Nuria Novoa  
Salamanca (Spain)

#### Director of External Relations

Gilbert Massard  
Luxembourg (Luxembourg)

#### Treasurer Elect

Herbert Decaluwe  
Leuven (Belgium)

#### Directors

Meinoshin Okumura  
Osaka (Japan)

David Healy  
Dublin (Ireland)

Hermien Schreurs  
Alkmaar (The Netherlands)



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19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## SOCIETY REPRESENTATIVES



**AATS**

**American Association for Thoracic Surgery**

**Dr. Yolonda Colson, President**



**ERS**

**European Respiratory Society**

**Prof. Stefano Elia, Head of Thoracic Surgery Assembly**



**CATS**

**Canadian Association of Thoracic Surgeons**

**Dr. Gail Darling, President**



**IASLC**

**International Association for the Study of Lung Cancer**

**Prof. Paul Van Schil, President Elect**



**NVT**

**Dutch Society of Cardiothoracic Surgery**

**Dr. Jerry Braun, President**



**JACS**

**Japanese Association for Chest Surgery**

**Dr. Ichiro Yoshino, President**



**NvL**

**Dutch Society of Lung Surgery**

**Dr. Pieter Jan Van Huijstee, President**



**SBCT**

**Director of International Relations**

**Dr. Paula Ugalde, Director of International Relations**



**EACTS**

**European Association for Cardio-Thoracic Surgery**

**Prof. Friedhelm Beyersdorf, President**



**STS**

**Society of Thoracic Surgeons**

**Dr. Felix Fernandez, Council on Quality, Research and Patient Safety**

**Dr. Daniel Miller, STS Membership Committee**



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19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## PROGRAM AT A GLANCE

### SUNDAY 19 JUNE 2022

	KING WILLEM ALEXANDER	MISSISSIPPI	
08:00 - 08:30	Postgraduate Symposium Master Cup		
08:30 - 09:00			
09:00 - 09:30			
09:30 - 10:00			
10:00 - 10:30	Coffee Break (Exhibition Area)		
10:30 - 11:00	Postgraduate Symposium Master Cup		
11:00 - 11:30			
11:30 - 12:00			
12:00 - 12:30			OTHER ROOMS 12:00-13:00 Industry-sponsored symposiums
12:30 - 13:00			
13:00 - 13:30	Database and Quality Certification Session	Nightmares in Thoracic Surgery	
13:30 - 14:00			
14:00 - 14:30		Video I Session I	
14:30 - 15:00	Lobectomy vs segmentectomy in small peripheral NSLC. Session in co-operation with Japanese Association of Chest Surgery (JACS)		
15:00 - 15:30		Coffee Break (Exhibition Area)	
15:30 - 16:00	Coffee Break (Exhibition Area)	ESTS Biology Club	
16:00 - 16:30	Patients/Carers Session		
16:30 - 17:00			YANGTZE TERRACE 17:00-18:00 Junior Poster Session
17:00 - 17:30	Perioperative complications prevention session/ERATS	Sustainability in surgery: the green OR in cooperation with Dutch Society of Lung Surgery	
17:30 - 18:00			
18:15 - 19:00	Opening Ceremony		
19:00 - 20:00	Welcome Reception (Exhibition Area)		
19:30 - 20:30		Women Get Together	
20:15 - 22:00	Trainees Get Together		

ABSTRACT SESSION

SESSIONS IN CO-OPERATION WITH OTHER SOCIETIES

EDUCATIONAL SESSION

POSTGRADUATE COURSE



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19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## PROGRAM AT A GLANCE

### MONDAY 20 JUNE 2022

	KING WILLEM ALEXANDER	MISSISSIPPI	OCEANIA	YANGTZE	ONYX
07:00 - 07:30				Sunrise Seminar 1 Old patients and frailty: the new crucial preoperative variable to evaluate	Sunrise Seminar 2 Preoperative electromagnetic bronchoscopy in the hybrid OR
07:30 - 07:50					
08:00 - 08:30	Innovative/experimental I Session II	Mixed thoracic I Session III			
08:30 - 09:00					
09:00 - 09:15	Opening remarks		Nurses & Allied Health Professionals Symposium		
09:15 - 09:30	Brompton Session IV				
09:30 - 10:00					
10:00 - 10:45					
10:45 - 11:15	Coffee Break (Exhibition Area)				OTHER ROOMS 10:45-11:15 Industry-sponsored Meet the expert
11:15 - 11:45	Invited Lecture		Nurses & Allied Health Professionals Symposium		
11:45 - 12:00	Introduction to the President				
12:00 - 12:30	Presidential Address				
12:30 - 13:00					OTHER ROOMS 12:30-13:30 Industry-sponsored symposiums
13:00 - 13:30					
13:30 - 14:00	Pulmonary neoplastic I - (early stage lung cancer) Session V	Tracheal and Airway Surgery Session in co-operation with the Brazilian Society of Thoracic Surgery (SBCT)	Abstract Session		
14:00 - 14:30	Young Investigators Award Session VI	Robotic surgery. Session in co-operation with Society of Thoracic Surgeons (STS)			
14:30 - 15:00			Practical Session for Nurses & Allied Health Professionals -OCEANIA FOYER-		
15:00 - 15:30		Coffee Break (Exhibition Area)			
15:30 - 16:00					
16:00 - 16:30	Coffee Break (Exhibition Area)	Esophageal Session			
16:30 - 17:00	MITIG VATS Resection Session VII	Fit to perform session			YANGTZE TERRACE 17:00-18:00 Poster Session-Moderated
17:00 - 17:30					
17:30 - 18:00					
18:00 - 18:45	General Assembly				
19:30 - 23:30	ESTS PARTY				

- ABSTRACT SESSION
- LECTURE
- SUNRISE ACADEMY
- EDUCATIONAL SESSION
- NURSES & ALLIED
- SESSIONS IN CO-OPERATION WITH OTHER SOCIETIES

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## PROGRAM AT A GLANCE

<span style="background-color: #4a7ebb; color: white; padding: 2px;">ABSTRACT SESSION</span>	<span style="background-color: #76b82a; color: white; padding: 2px;">SESSIONS IN CO-OPERATION WITH OTHER SOCIETIES</span>	<span style="background-color: #76b82a; color: white; padding: 2px;">SUNRISE ACADEMY</span>
<span style="background-color: #e69d00; color: white; padding: 2px;">EDUCATIONAL SESSION</span>	<span style="background-color: #a64d4d; color: white; padding: 2px;">LECTURE</span>	<span style="background-color: #e67e22; color: white; padding: 2px;">OTHERS (EX. LUNCH SYMPOSIUM)</span>

### TUESDAY 21 JUNE 2022

	KING WILLEM ALEXANDER	MISSISSIPPI	YANGTZE	ONYX
07:00 - 07:30			Sunrise Seminar 3 Immunotherapy explained for surgeons	Sunrise Seminar 4 Tracheoesophageal fistula - Update on stents and aggressive surgical management
07:30 - 07:50				
08:00 - 08:30	Pulmonary Neoplastic II (advanced stage lung cancer) Session VIII	Pulmonary Non-neoplastic Session IX		
08:30 - 09:00				
09:00 - 09:30				
09:30 - 10:00	ESTS Vogt-Moykopf Lecture			
10:00 - 10:30	Extraordinary Guest Lecture			
10:30 - 11:00	Coffee Break (Exhibition Area)	Coffee Break (Exhibition Area)		
11:00 - 11:30	Esophagus/Mediastinum Session X	Chest Wall in co-operation with Chest Wall International Group (CWIG)		
11:30 - 12:00				<b>OTHER ROOMS</b>
12:00 - 12:30				12:00-13:00 Industry-sponsored symposiums
12:30 - 13:00				
13:00 - 13:30	Updates on multimodal therapy in co-operation with the International Association for the Study of Lung Cancer (IASLC)	Mixed thoracic II Session XI		
13:30 - 14:00				
14:00 - 14:30	Coffee Break (Exhibition Area)	Coffee Break (Exhibition Area)		
14:30 - 15:00	Transplant Session	Interesting cases Session XII		
15:00 - 15:30				
15:30 - 16:00	Transplant/airway Session XIII	Innovative/experimental II Session XIV		
16:00 - 16:30				
16:30 - 17:00				
17:00 - 17:30				
17:30 - 18:00				



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## SCIENTIFIC PROGRAM - SUNDAY 19 JUNE

### KING WILLEM ALEXANDER



#### ESTS POSTGRADUATE SYMPOSIUM-MASTER CUP

SUNDAY, 19 JUNE 2022 08:00 - 12:00 h ·

KING WILLEM ALEXANDER

Organisers: Hermien Schreurs (Alkmaar/NL)  
Nuria Novoa (Salamanca/ES)

Each year the ESTS Postgraduate Symposium brings the Thoracic Surgery world up to date with the latest news/development and science in our field in those areas which represents part of our daily practice.

To spice up the atmosphere, we will review all this contents in a high-level competition in which three teams of young surgeons will fight out to win the ESTS Master Cup.

#### Prizes

The ESTS Master Cup for the best scoring team:  
Three scholarships for the ESTS School of Thoracic Surgery Knowledge Track Course of 2023 to the best junior surgeon of each team based on the best performing on general questions.

#### ESTS audience awards:

These are awarded for the top 3 audience's responses regarding the presented topics.

- ESTS Award for the best audience performer: a free registration for the 2023 School of Thoracic Surgery OR a free registration to 2023 Annual Meeting.
- ESTS Award for the second best audience performer: a free registration for the 2023 Medical Writing Course OR a free registration to 2023 Annual Meeting.
- ESTS Award for the third best audience performer: a free registration to 2023 Annual Meeting.

#### Format

The 2022 Postgraduate Course – Master Cup will be structured as a contest in which a designated expert will provide questions and cases for discussion about a specific topic.

Three teams will compete. Each will be composed of 1 captain and 4 trainees. This year due to the difficulties posed by the pandemic, participants will be chosen and assigned in strict order of request to the different teams. The course, except last minute suspension, will be held live during the congress. Therefore, participants must be able to travel to the conference venue.

**There will be 5 identical sessions, one for each topic. Each session will be structured as follows:**

1. The expert will give a brief introduction of the topic (2 min).
2. The expert will formulate six questions to all the teams at the same time and to the audience
3. Participants will have up to 1 minute to reply to the questions. The audience will answer to the questions from the floor using the App and benefitting from the same time allotted to the responding teams
4. At the end of each question: the audience voting for each question will be revealed.
5. Teams: For each correct answer a point will be added, for each incorrect answer half a point will be subtracted. Audience will not score negatively.
6. The expert will explain the correct solution according to the evidence-based data.  
Solutions can be provided individually for each question or globally at the end.
7. The expert presents a summary of the most relevant data and a final educational message (4-5 minutes)
8. After the five rounds of questions are finished, the final round of questions will take place.

In this round each expert will ask two articulated questions based on real-case scenario related to their topic.

### EXPERTS



Tim Batchelor (Bristol/UK)  
ERATS



René Horsleben Petersen (Copenhagen/DK)  
T1a b nodules



Brendon Stiles (New York/US)  
Immunotherapy and Surgery



Hasan Batirel (Istanbul/TK)  
N2 disease



Enrico Ruffini (Torino/IT)  
Thymoma

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19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## SCIENTIFIC PROGRAM - SUNDAY 19 JUNE

### KING WILLEM ALEXANDER

#### TEAMS



**Kostas Papagiannopoulos** (Leeds/UK)  
Team Captain

**Annalisa Barbarossa** (Catanzaro/IT)   
**Semih Erduhan** (Istanbul/TR)   
**Lin Huang** (Copenhagen/DK)   
**Andrej Roj** (Graz/AT) 



**Gunda Leschber** (Berlin/DE)  
Team Captain

**Lawek Berzenji** (Antwerp/BE)   
**Thomas Koedam** (Hoorn/NL)   
**Jacie Law** (Cambridge/UK)   
**Riccardo Orlandi** (Milano/IT) 



**Gilbert Massard** (Luxembourg/LU)  
Team Captain

**Rita Costa** (Porto/PT)   
**Joseph Lula Lukadi** (Amiens/FR)   
**Patrick Soldath** (Copenhagen/DK)   
**Eloisa Ruiz Lopez** (Córdoba/ES) 



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19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## SCIENTIFIC PROGRAM - SUNDAY 19 JUNE

### KING WILLEM ALEXANDER

#### **DATABASE AND QUALITY CERTIFICATION SESSION**

SUNDAY 19 JUNE 2022 13:00 - 14:30 h ·

KING WILLEM ALEXANDER

**Chairs:** Pierre Emmanuel Falcoz (Strasbourg/FR)  
Zalan Szanto (Pecs/HU)

13:00-13:12

**Summary of the Database in 2021**

Zalan Szanto (Pecs/HU)

13:15-13:27

**NETT tumours in the last decades.**

**Summary of the NETT Working Group**

Pier Luigi Filosso (Torino/IT)

13:30-13:42

**ESTS-IASLC Co-operation.**

**Summary of the Thymic Group**

Bernhard Moser (Vienna/AT)

13:45-13:57

**Current status of the Airway Working Group**

Konrad Hoetzenecker (Vienna/AT)

14:00-14:12

**Perspectives of Digital Transformation  
in Thoracic Surgery**

Nizar Asadi (London/UK)

14:15-14:30

**Presentation of Institutional Accreditation Certificates**

#### **LOBECTOMY VS SEGMENTECTOMY IN SMALL PERIPHERAL NSLC. SESSION IN CO-OPERATION WITH JAPANESE ASSOCIATION OF CHEST SURGERY (JACS)**

SUNDAY 19 JUNE 2022 14:30 - 15:30 h ·

KING WILLEM ALEXANDER

**Chairs:** Dominique Gossot (Paris/FR)  
Shinichi Toyooka (Okayama/JP)

14:30-14:42

**Lobectomy for stage IA NSCLC**

Eric Lim (London/UK)

14:45-14:57

**Real world data of stage IA surgery**

Junichi Soh (Osaka/JP) **ONLINE**

15:00-15:12

**Oncological criteria of sublobar resections**

Dominique Gossot (Paris/FR)

15:15-15:27

**Results of the JCOG 0802-trial**

Hisashi Saji (Kawasaki/JP)

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19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## SCIENTIFIC PROGRAM - SUNDAY 19 JUNE

### KING WILLEM ALEXANDER



#### PATIENTS/CARERS SESSION

SUNDAY 19 JUNE 2022 16:00 - 17:00 h ·

KING WILLEM ALEXANDER

**Chairs:** Cecilia Pompili (Leeds/UK, Verona/IT)  
Anna Frick (Vienna/AT)

16:00-16:12

**How surgeons can support advocates**

Daniela Molena (New York/US)

16:12-16:34

**Mesothelioma: how patients understand care in an era of multi-modality treatment**

Kate Hill (Leeds/UK)

16:34-16:36

**Patients and Public Involvement (PPI) in surgical trials**

Cecilia Pompili (Leeds/UK, Verona/IT)

16:36-16:48

**Impact of Covid-19 pandemic on patient awaiting Lung Cancer Surgery and Transplantation**

Lorenzo Rosso (Milano/IT)

16:48-17:00

**Panel discussion**

**Moderator:** Neda Milevska-Kostova (Maastricht/NL)  
President of International Alliance of Patients' Organizations (IAPPO)

16:48-17:00

**Speaker and panelist**

Lidia Barberio (Urecht/NL) Director of Longkanker Nederland  
Leon Widdershoven (Susteren/NL)



#### PERIOPERATIVE COMPLICATIONS PREVENTION SESSION/ERATS

SUNDAY 19 JUNE 2022 17:00 - 18:00 h ·

KING WILLEM ALEXANDER

**Chairs:** Tim Batchelor (Bristol/UK)  
Eric von Meyenfeldt (Dordrecht/NL)

17:00-17:05

**Introduction - Optimising care by preventing perioperative complications**

Tim Batchelor (Bristol/UK)

17:05-17:13

**The Philosophy of ERATS - the aggregation of marginal gains**

Michel Gonzalez (Lausanne/CH)

17:13-17:21

**The Philosophy of ERATS - the a few key elements are all that is required**

Henrik Hansen (Copenhagen/DK)

17:21-17:30

**Discussion**

17:30-17:40

**Anesthesia and ERATS – influence beyond the operating room**

Yacine Ynineb (Paris/FR)

17:40-17:45

**Discussion**

17:45-17:55

**ERATS as standard of care – a national perspective**

Eric von Meyenfeldt (Dordrecht/NL)

17:55-18:00

**Discussion**



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19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## SCIENTIFIC PROGRAM - SUNDAY 19 JUNE

**KING WILLEM ALEXANDER**

### OPENING CEREMONY

SUNDAY 19 JUNE 2022 18:15 - 19:00 h • KING WILLEM ALEXANDER



Welcome  
by Alessandro Brunelli, President



Welcome  
by Willem-Hans Steup, Chair of the Local Organising Committee

Presentation of Society Awards for Travel Grants

Presentation of Past President

Presentation of the Winners of the Masters Cup  
Postgraduate Symposium

Presentation to the Best Trainee of each Team

Presentation of Honorary Members

Invited Guest - Legacy from an Icon

Presentation to the Top Three Audience  
participants

### WELCOME RECEPTION

SUNDAY 19 JUNE 2022 19:00 - 20:00 h • EXHIBITION AREA



## SCIENTIFIC PROGRAM - SUNDAY 19 JUNE

### MISSISSIPPI

#### NIGHTMARES IN THORACIC SURGERY

SUNDAY 19 JUNE 2022 13:00 - 14:00 h • MISSISSIPPI

Chairs: Pascal Thomas (Marseille/FR)

Kostas Papagiannopoulos (Leeds/UK)

13:00-13:15

**Establishing and retaining a difficult airway in Oncology.**

**Best and safe available devices and techniques**

Hervé Dutau (Marseille/FR)

13:20-13:35

**Managing complex infected pleural spaces and a trapped lung**

Geert Fernand (Genk/BE)

13:40-13:55

**Managing chronic air leaks and pneumothoraces in the COVID era?**

Duilio Divisi (Teramo/IT)

#### VIDEO I SESSION I

SUNDAY 19 JUNE 2022 14:00 - 15:00 h • MISSISSIPPI

Chairs: Apostolos Agrafiotis (Brussels/BE)

Calvin S.H. Ng (Hong Kong/HK)

14:00-14:07

**V-001 - Successful management of pulmonary arterial bleeding without conversion during robotic sleeve resection**

Darren S Bryan, John P Kuckelman, Paul L Feingold, Emily Polhemus, John S Young, M. Blair Marshall

Boston/US

14:10-14:17

**V-002 - Staged hybrid minimally invasive and open reversal of esophageal diversion**

Sandeep Sachidananda<sup>1</sup>, Yifan Zheng<sup>1</sup>, Emily Polhemus<sup>1</sup>, Matthew Pommerening<sup>1</sup>, Hassan A Khalil<sup>1,2</sup>

<sup>1</sup>Boston/US, <sup>2</sup>West Roxbury/US

14:20-14:27

**V-003 - Uniportal Video Assisted Thoracoscopic Surgery (VATS) right main pulmonary endarterectomy in non-thrombotic pulmonary artery embolism**

Anna Minasyan<sup>1</sup>, Mercedes De La Torre Bravos<sup>1</sup>, Ricardo Fernández Prado<sup>1</sup>, Marina Paradela De La Morena<sup>1</sup>, Alejandro García Pérez<sup>1</sup>, Ignacio Sánchez Valenzuela<sup>1</sup>, Diego González Rivas<sup>2</sup>

<sup>1</sup>A Coruña/ES, <sup>2</sup>Shanghai/CN

14:30-14:37

**V-004 - Computed (CT)-Guided microcoil position for Ground Glass Opacities in uniportal vats lung resections**

Andrea La Rosa, Stylianos Korasidis, Gianmarco Elia, Tommaso Ferrarello, Vittorio Aprile, Maria Giovanna Mastromarino, Marcello Carlo Ambrogi

Pisa/IT

14:40-14:47

**V-005 - Surgical management for a dramatic presentation of thoracic endometriosis**

Emily Polhemus, Abby White, Benjamin Varieur, Daniel P. Dolan, Daniel N. Lee, Hassan A. Khalil, Scott J. Swanson

Boston/US

14:50-14:57

**V-006 - Robotic anterior segmentectomy in a patient with partial situs inversus: anatomic variations and challenges**

Lucía Milla Collado, Mercedes Álvarez Fernández, Inés Luque Vázquez, Sara Hernández Calvo, Angélica Sánchez Nacimiento, María Rodríguez Pérez

Madrid/ES



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## SCIENTIFIC PROGRAM - SUNDAY 19 JUNE

### MISSISSIPPI



**ESTS  
BIOLOGY CLUB**



**SUNDAY 19 JUNE 2022 15:30 - 17:00 h • MISSISSIPPI**

**Chairs:** Laurens Ceulemans (Leuven/BE)  
Olivia Lauk (Zurich/CH)  
Brendon Stiles (New York/US)

**Award:** ESTS Biology Club Fellowship Award -  
a research fellowship award offered to  
young scientists and clinicians

15:30-15:35

**Introduction from Chairs**

15:35-15:45

**Report from Biology Club Fellowship Award Leuven 2020**  
Elena Prisciandaro (Milano/IT)

15:45-16:00

**Is there a future for tolerance in lung transplantation?**  
Christine Falk (Hannover/DE)

16:00-16:05

**Discussion**

16:05-16:20

**Translational aspect of neoadjuvant immunotherapy trials**  
Boris Sepesi (Houston/US)

16:20-16:25

**Discussion**

**Applicant presentations and discussions**

16:25-16:35

**Clinical impact of integrated PET/MRI for non-invasive  
staging of malignant pleural mesothelioma compared  
to PET/CT and MRI: a prospective study**  
Annalisa Barbarossa (Catanzaro/IT)

16:35-16:45

**Ergonomical Assessment of Robotic Versus Video-  
assisted Lobectomy for early stage Lung Cancer**  
Ahmed Elkhoully (Tanta/EG)

16:45-16:55

**Ca<sup>2+</sup> handling as a potential target for the treatment  
of Malignant Pleural Mesothelioma**  
Ilaria Potenza (Ferrara/IT)

16:55-17:00

**Closing comments**



**SUSTAINABILITY IN SURGERY:  
THE GREEN OR IN COOPERATION  
WITH DUTCH SOCIETY**

**SUNDAY 19 JUNE 2022 17:00 - 18:00 h • MISSISSIPPI**

**Chairs:** Willem Hans Steup (The Hague/NL)  
Frank Willem Jansen (Leiden/NL)

17:00-17:12

**The problem and view from Hospital/OR**  
Frank Willem Jansen (Leiden/NL)

17:12-17:24

**View from the Technical University**  
Bart Van Straten (Delft/NL)

17:24-17:36

**View from the Government/Legislators**  
Esther Putman (The Hague/NL)

17:36-17:48

**View from the Suppliers**  
Willem Hans Steup (The Hague/NL)

17:48-18:00

**Discussion**

# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## SCIENTIFIC PROGRAM - SUNDAY 19 JUNE

### YANGTZE TERRACE



#### JUNIOR POSTER SESSION

SUNDAY 19 JUNE 2022 17:00 - 18:00 h • YANGTZE TERRACE

Chairs: Michael Gooseman (Hull/UK)  
Martijn van Dorp (Amsterdam/NL)

**Award:** ESTS – Junior Poster Prize. Complimentary registration for 31st European Conference on General Thoracic Surgery 2023. This prize is offered for the best poster presentation

17:00-17:03

**P-001 - Analysis of the tumour immune microenvironment in resected oligometastatic Non Small Cell Lung Cancer (NSCLC)**

Giovanni Bocchialini, Letizia Gnetti, Di Rienzo Gianluca, Paolo Carbognani, Balestra Valeria, Luca Musini, Sara Cattadori, Federico Illica Magrini, Nicole Pensato, Luca Ampollini  
Parma/IT

17:05-17:08

**P-002 - Lung volume reduction surgery in patients with mild to moderate pulmonary hypertension and non-heterogeneous emphysema**

Rita Costa, Claudio Caviezel, Gian-Marco Monsch, Isabelle Opitz  
Zurich/CH

17:10-17:13

**P-003 - Prediction of postoperative complications in operated non-small cell lung cancer patients who were implemented a protocol of enhanced recovery after surgery**

Gizem Ozcibik Isik, Merve Ekinici Fidan, Burcu Kilic, Hasan Volkan Kara, Ezel Ersen, Mehmet Kamil Kaynak, Akif Turna  
Istanbul/TR

17:15-17:18

**P-004 - Survival after resection of colorectal lung metastases: the impact of previous liver metastasectomy.**

Boris Galjart<sup>1,2</sup>, Yannick M. Meyer<sup>2</sup>, Paul D. Gobardhan<sup>1</sup>, Hans G.w. De Groot<sup>1</sup>, Dirk J. Grünhagen<sup>3</sup>, Arjen M. Rijken<sup>1</sup>, Jan H. Wijsman<sup>1</sup>, Ninos Ayez<sup>1</sup>, Lex P.w.m. Maat<sup>2</sup>, Cornelis Verhoef<sup>2</sup>, Eelco J. Veen<sup>1</sup>

<sup>1</sup>Breda/NL, <sup>2</sup>Rotterdam/NL, <sup>3</sup>Breda/NL

17:20-17:23

**P-005- Intrapleural thermochemotherapy to control malignant pleura mesothelioma**

Yameng Hao, Louis-Emmanuel Chriqui, Aspasia Gkasti, Christophe Gattlen, Michel Gonzalez, Thorsten Krueger, Paul Dyson, Etienne Meylan, Sabrina Cavin, Jean Perentes  
Lausanne/CH

17:25-17:28

**P-006- Genetic driver alterations of primary oligometastatic non-small cell lung cancer are commonly preserved in brain metastases**

Raphael S. Werner<sup>1</sup>, Alex Soltermann<sup>2</sup>, Holger Moch<sup>3</sup>, Michael Weller<sup>4</sup>, Luca Regli<sup>5</sup>, Alessandra Curioni-Fontecedro<sup>6</sup>, Isabelle Opitz<sup>1</sup>

<sup>1</sup>Zurich/CH, <sup>2</sup>Neuchâtel/CH, <sup>3</sup>Zurich/CH, <sup>4</sup>Zurich/CH, <sup>5</sup>Zurich/CH, <sup>6</sup>Zurich/CH

17:30-17:33

**P-007- Sarcopenia and mediastinal adipose tissue as a prognostic marker for short and long-term outcome after anatomic video-assisted thoracoscopic resection for lung cancer**

Florian Ponholzer, Georg Groemer, Caecilia Ng, Herbert Maier, Paolo Lucciarini, Dietmar Öfner, Florian Augustin  
Innsbruck/AT

17:35-17:38

**P-008 - Splenectomy during esophageal resection and gastric pull-up. influence on the perioperative course and on long-term survival**

Andrej Roj  
Graz/AT

17:40-17:43

**P-009 - Impact of pulmonary artery pressure on early outcomes and survival after lung transplantation in patients with chronic obstructive pulmonary disease**

Eloisa Ruiz, Paula Moreno, David S. Poveda, Francisco Javier González, Juan Luis Parraga, Antonio Alvarez  
Córdoba/ES



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## SCIENTIFIC PROGRAM - SUNDAY 19 JUNE

### YANGTZE TERRACE

17:45-17:48

**P-010 - Esophageal stenting as a bridge to surgery in the neoadjuvant setting in curative-intent esophagectomy: a propensity-score analysis**

Stephan Soder , David Levi , Yasmine Labad , Clare Pollock , Pasquale Ferraro , Edwin Lafontaine , Jocelyne Martin , Basil Nasir, Moïshe Liberman  
Quebec/CA

17:50-17:53

**P-011- Predictors of recurrence and disease-free survival in radically resected pulmonary carcinoids**

Marc Spils<sup>1,2</sup> , Dagmar Krenbek<sup>3</sup> , Igor Jankovic<sup>1,2</sup> , Lisa Schulte<sup>1,2</sup> , Tibor Krajc<sup>1,2</sup> , Michal Benej<sup>1,2</sup> , Vladyslav Getman<sup>1,2</sup> , José Ruiz Navarrete<sup>1,2</sup> , Ahmet Akan<sup>1,2</sup> , Michael R. Mueller<sup>1,2,4</sup> , Stefan B. Watzka<sup>1,2,5</sup>

<sup>1</sup>Vienna/AT, <sup>2</sup>Vienna/AT, <sup>3</sup>Vienna/A, <sup>4</sup>Vienna/AT, <sup>5</sup>Salzburg/AT

17:55-17:58

**P-012 - Primary mediastinal ewing's sarcoma: post hoc analysis from two international multicenter prospective randomized trials**

Theresa Stork , Andreas Ranft, Clemens Aigner , Uta Dirksen, Stéphane Collaud  
Essen/DE

# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## SCIENTIFIC PROGRAM - MONDAY 20 JUNE

### KING WILLEM ALEXANDER

#### ● INNOVATIVE/EXPERIMENTAL I SESSION II

MONDAY, 20 JUNE 2022 08:00 - 09:00 h •

KING WILLEM ALEXANDER

Chairs: Nizar Asadi (London/UK)  
Yolonda Colson (Boston/US)

**Award:** ESTS-Grillo Award €1000 for Best Overall Innovative/Experimental Abstract in Sessions Innovative/Experimental I and II

08:00-08:07

**O-007 - Comparison of two bioabsorbable surgical patches in the treatment of air leak: a single-centre, single-blind, randomized, prospective trial**

Sandrine Dackam, Aljaz Hojski, Makhmudbek Mallaev, Zeljko Djakovic, Mark Wiese, Deborah Vogt, Helga Bachmann, Didier Lardinois  
Basel/CH

08:10-08:17

**O-008 - Cytokine adsorption after in-vivo reperfusion does not attenuate allograft ischemia-reperfusion injury in a porcine left lung transplantation model**

Anna Elisabeth Frick<sup>1</sup>, Michaela Orlitová<sup>1</sup>, Arno Vanstapel<sup>2</sup>, Sandra Claes<sup>3</sup>, Dominique Schols<sup>3</sup>, Caroline Mathyssen<sup>2</sup>, Robin Vos<sup>2</sup>, Geert Verleden<sup>2</sup>, Bart Vanaudenaerde<sup>2</sup>, Stijn Verleden<sup>4</sup>, Laurens Ceulemans<sup>5</sup>, Dirk E. Van Raemdonck<sup>5</sup>, Arne P. Neyrinck<sup>1</sup>  
<sup>1</sup>Leuven/B, <sup>2</sup>Leuven/BE, <sup>3</sup>Leuven/BE, <sup>4</sup>Antwerp/BE, <sup>5</sup>Leuven/BE

08:20-08:27

**O-009 - The left upper lobe challenge in Video Assisted Thoracoscopic Surgery (VATS) – better assessment of simulated lobectomy using a composite score**

Tamim Ahmad Haidari, Flemming Bjerrum (3,2), Søren Grimstrup, Henrik Jessen Hansen, Lars Konge (4,2), René Horsleben Petersen  
Copenhagen/DK

08:30-08:37

**O-010 - Gender differences in medicare payments to general thoracic surgeons in 2019**

SangMin Kim, Sun Kim, Sue X. Wang, Darren S. Bryan, Ruhi Kanwar, Raphael Bueno, M. Blair Marshall  
Boston/US

08:40-08:47

**O-011 - Alaska pollock gelatin sealant shows good biocompatibility in pulmonary air leak models using Rats**

Takahiro Yanagihara, Naoki Maki, Tomoyuki Kawamura, Naohiro Kobayashi, Yukinobu Goto, Hideo Ichimura, Shiharu Watanabe, Tetsushi Taguchi, Yukio Sato  
Tsukuba/JP

08:50-08:57

**O-012 - Prospective feasibility study evaluating a novel wireless localization technique for deeply located small pulmonary lesion under thoracoscopy: radiofrequency identification marking system - ONLINE**

Yojiro Yutaka, Hidenao Kayawake, Satona Tanaka, Yoshito Yamada, Akihiro Ohsumi, Daisuke Nakajima, Masatsugu Hamaji, Toshi Menju, Hiroshi Date  
Kyoto/JP

#### ● REPORT OF THE DIRECTOR OF THE ANNUAL MEETING

MONDAY, 20 JUNE 2022 09:00 - 09:15 h •

KING WILLEM ALEXANDER

René Horsleben Petersen (Copenhagen/DK)





## SCIENTIFIC PROGRAM - MONDAY 20 JUNE

### KING WILLEM ALEXANDER

#### BROMPTON SESSION IV

MONDAY, 20 JUNE 2022 09:15 - 10:45 h ·  
KING WILLEM ALEXANDER

**Chairs:** Alessandro Brunelli (Leeds/UK)  
Hasan Batirel (Istanbul/TR)  
Eric Lim ((London/UK))

**Jury:** Pierre Emmanuel Falcoz (Strasbourg/FR)  
Enrico Ruffini (Torino/IT)  
Eric Lim ((London/UK))

**Award:** ESTS Brompton Prize € 2000 for Best  
Abstract by First Author ESTS member

09:15-09:22

**B-019 - Risk factors for conversion during video-assisted thoracic surgery – the epithor conversion score**

Alex Fourdrain<sup>1</sup>, Olivier Georges<sup>2</sup>, Dominique Gossot<sup>3</sup>,  
Pierre-Emmanuel Falcoz<sup>4</sup>, Jacques Jougon<sup>5</sup>, Jean-Marc  
Baste<sup>6</sup>, Charle-Henri Marty-Ané<sup>7</sup>, Pascal Berna<sup>2</sup>

<sup>1</sup> Marseille/FR, <sup>2</sup> Amiens/FR, <sup>3</sup> Paris/FR, <sup>4</sup> Strasbourg/FR,  
<sup>5</sup> Bordeaux/FR, <sup>6</sup> Rouen/FR, <sup>7</sup> Montpellier/FR

Discussant: Erik de Loos (Heerlen/NL)

09:30-09:37

**B-020 - Comparison of bipolar vessel sealer to conventional electrocoagulation in video-assisted thoracoscopic surgery lobectomy**

Piotr Gabryel, Mariusz Kasprzyk, Magdalena Roszak,  
Pawel Zielinski, Szymon Smolinski, Cezary Piwkowski  
Poznan/PL

Discussant: Scott Swanson (Boston/US)

09:45-09:52

**B-021 - Time-to-surgery in early-stage Non Small Cell Lung Cancer (NSCLC) patients and the delay caused by the Coronavirus-19 (COVID-19) pandemic**

Áron Kristóf Ghimesy<sup>1,2</sup>, Márton Csaba<sup>1</sup>, Sára Lality<sup>1</sup>,  
Gábor Elemér Tarsoly<sup>1,2</sup>, Hanna Rita Tihanyi<sup>1,2</sup>, Kristóf  
Csende<sup>1,2</sup>, Péter Géza Radecky<sup>1,2</sup>, Balázs Gieszer<sup>1,2</sup>,  
Levente Bogyó, Klára Török<sup>1,2</sup>, László Tibor Mészáros<sup>1,2</sup>,  
Rita Horváth<sup>1</sup>, Ágnes Czibalmos<sup>1</sup>, Áron Gellért<sup>2,3</sup>, Bence  
Ferencz<sup>2,3</sup>, Zsolt Megyesfalvi<sup>2,3</sup>, Balázs Döme<sup>2,1,4</sup>, Ákos  
Kocsis<sup>1,3</sup>, László Agócs<sup>1,2,3</sup>, Ferenc Rényi-Vámos<sup>1,2,3</sup>

<sup>1</sup> Budapest/HU, <sup>2</sup> Budapest/HU, <sup>3</sup> Budapest/HU,  
<sup>4</sup> Vienna/AU

Discussant: Ricardo Mingarini Terra (Sao Paulo/BR)

10:00-10:07

**B-022 - Operating time: an independent and modifiable risk factor for short-term complications after videothoracoscopic pulmonary lobectomy**

M. Teresa Gomez-Hernandez, Clara Forcada, Gonzalo  
Varela, Marcelo F. Jimenez

Salamanca/ES

Discussant: Jozsef Furak (Szeged/HU)

10:15-10:22

**B-023 - Fluorescence quantitative assessment of blood perfusion in the gastric conduit to reduce the anastomotic leakage after esophagectomy: a prospective randomized controlled trial - ONLINE**

Wenwu He, Yongtao Han, Lin Peng, Wenguang Xiao,  
Chenghao Wang, Haojun Li

Chengdu/CN

Discussant: Hasan Batirel (Istanbul/TR)

10:30-10:37

**B-024 - Can rhomboid intercostal block be an alternative to paravertebral block in video-assisted thoracoscopic surgeries?: a randomized prospective non-inferiority study**

Mete Manici<sup>1</sup>, Belitsu Salgin<sup>1</sup>, Serhan Tanju<sup>1</sup>,  
Sukru Dilege<sup>1</sup>, Yavuz Gurkan<sup>1</sup>, Hesham Elsharkawy<sup>2</sup>

<sup>1</sup> Istanbul/TR, <sup>2</sup> Ohio/US

Discussant: Nicolas Moreno (Madrid/ES)

# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## SCIENTIFIC PROGRAM - MONDAY 20 JUNE

### KING WILLEM ALEXANDER



#### INVITED LECTURE

MONDAY, 20 JUNE 2022 11:15 - 11:45 h ·  
KING WILLEM ALEXANDER

#### THE EXCEPTIONAL POTENTIAL OF SHARED DECISION MAKING

Glyn Elwyn (Hanover/US)

Professor and Physician-Researcher, Dartmouth Institute  
for Health Policy and Clinical Practice



#### INTRODUCTION TO THE PRESIDENT

MONDAY, 20 JUNE 2022 11:45 - 11:55 h ·  
KING WILLEM ALEXANDER

Isabelle Opitz (Zurich/CH)  
President Elect



#### PRESIDENTIAL ADDRESS

MONDAY, 20 JUNE 2022 12:00 - 12:30 h ·  
KING WILLEM ALEXANDER

#### SAWUBONA: BRIDGING EMOTIONAL AND COGNITIVE GAPS THROUGH PERSPECTIVE TAKING

Alessandro Brunelli (Leeds/UK)  
ESTS President



#### PULMONARY NEOPLASTIC I - (EARLY STAGE LUNG CANCER) SESSION V

MONDAY, 20 JUNE 2022 13:30 - 14:30 h ·  
KING WILLEM ALEXANDER

Chairs: David Heineman (Amsterdam/NL)  
Fernando Vannucci (Rio de Janeiro/BR)

Award: ESTS-AATS Foundation Excellence  
Award – 2000 EUR  
Awarded for the Best Overall Scientific  
Contribution in Pulmonary Neoplastic I/  
Pulmonary Neoplastic II sessions

13:30-13:37

#### 0-025 - Local control and short-term outcomes after Video Assisted Thoracoscopic Surgery (VATS) segmentectomy vs lobectomy for PT1C PNO R0 NON Small Cell Lung Cancer (NSCLC)

Abdelnour-Berchtold Etienne<sup>1</sup>, Benoit Bédard<sup>2</sup>, Celine  
Forster<sup>1</sup>, Jean Perentes<sup>1</sup>, Marc-Olivier Sauvain<sup>3</sup>, Michel  
Christodoulou<sup>4</sup>, Frédéric Triponez<sup>2</sup>, Wolfram Karenovics<sup>2</sup>,  
Thorsten Krueger<sup>1</sup>, Michel Gonzalez<sup>1</sup>

<sup>1</sup> Lausanne/CH, <sup>2</sup> Genève/CH <sup>3</sup> Neuchâtel/CH, <sup>4</sup> Sion/CH

13:40-13:47

#### 0-026 - Prognostic comparison of segmentectomy and lobectomy following the increase of examined lymph nodes in node-negative non-small cell lung patients - ONLINE

Jiafei Chen, Chang Gu, Chenyang Dai, Chang Chen  
Shanghai/CN

13:50-13:57

#### 0-027 - Peripheral location of lung cancer is associated with higher local disease recurrence

Alex Fourdrain, Vassili Anastay, Vanessa Pauly, Xavier-  
Benoit D'Journo, David Boulate, Pascal-Alexandre Thomas  
Marseille/FR

14:00-14:07

#### 0-028 - Prognostic value of adding blood and lymphatic vessel invasion to the 8th classification of tnm in lung cancer in stages I and II.

Gemma María Muñoz Molina, Sara Fra Fernández,  
Alberto Cabañero Sánchez, Cristina Cavestany García-  
Matres, Alfonso Muriel García, Usue Caballero Silva, Luis  
Gorospe Sarasúa, David Saldaña Garrido, Amparo Benito  
Berlínches, Nicolás Moreno Mata  
Madrid/ES



## SCIENTIFIC PROGRAM - MONDAY 20 JUNE

### KING WILLEM ALEXANDER

14:10-14:17

**0-029 - Prognostic impact of tumor volume doubling time in clinical t1 non-small cell lung cancer with pure-solid radiological findings**

Kenta Nakahashi, Takayuki Sasage, Makoto Endo, Satoshi Shiono  
Yamagata/JP

14:20-14:27

**0-030 - Segmentectomy versus lobectomy for the treatment of inner located small-sized early non-small-cell lung cancer - ONLINE**

Shinya Tane<sup>1</sup>, Yoshitaka Kitamura<sup>1</sup>, Kazuya Uchino<sup>2</sup>, Wataru Nishio<sup>1</sup>  
<sup>1</sup> Akashi/JP, <sup>2</sup> Osaka/JP

14:45-14:52

**0-032 - Upgraded from ct1a-c to pt2a lung cancer, related to visceral pleural invasion, after segmentectomy: is it an indication to complete resection to lobectomy?**

Joseph Lula Lukadi<sup>1</sup>, Alessio Vincenzo Mariolo<sup>1</sup>, Dominique Gossot<sup>1</sup>, Jean-Marc Baste<sup>2,3</sup>, Bertrand De Latour<sup>4</sup>, Agathe Seguin-Givelet<sup>1,5</sup>  
<sup>1</sup> Paris/FR <sup>2</sup> Rouen/FR, <sup>3</sup> Rouen/FR, <sup>4</sup> Rennes/FR  
<sup>5</sup> Bobigny/FR  
Discussant: Frank Detterbeck (New Haven/US)

15:00-15:07

**0-033 - Adjuvant transthoracic negative pressure ventilation in non-intubated thoroscopic surgery**  
Riccardo Taje, Eleonora Fabbi, Roberto Sorge, Stefano Elia, Mario Dauri, Eugenio Pompeo  
Rome/IT  
Discussant: Diego Gonzalez Rivas (Coruña/ES)

15:15-15:22

**0-034 - Multimodality therapy for lung cancer with chest wall invasion: an epithor database study**  
Jérémy Tricard<sup>1</sup>, Pascal Alexandre Thomas<sup>2</sup>  
<sup>1</sup> Limoges/FR, <sup>2</sup> Marseille/FR  
Discussant: Kostas Papagiannopoulos (Leeds/UK)

15:30-15:37

**0-035 - Effect of laterality on the postoperative survival of non-small cell lung cancer patients undergoing pneumonectomy. - ONLINE**  
Ziming Wang, Diego Gonzalez-Rivas, Mahmoud Ismail  
Potsdam/DE  
Discussant: Pascal Thomas (Marseille/FR)

15:45-15:52

**0-036 - Validation of the modified eurolung risk prediction models in The Netherlands, using data from the Dutch Lung Cancer Audit**  
Nienke Wolffhagen<sup>1</sup>, Ronald Damhuis<sup>2</sup>, Ad Verhagen<sup>3</sup>, Willem-Hans Steup<sup>4</sup>, Hermien Schreurs<sup>5</sup>, David Heineman<sup>6</sup>  
<sup>1</sup> Amsterdam/NL, <sup>2</sup> Amsterdam/NL, <sup>3</sup> Nijmegen/NL, <sup>4</sup> The Hague/NL, <sup>5</sup> Alkmaar/NL, <sup>6</sup> Amsterdam/NL  
Discussant: Zalan Szanto (Pecs/HU)

### YOUNG INVESTIGATORS AWARD SESSION VI

MONDAY, 20 JUNE 2022 14:30 - 16:00 h · KING WILLEM ALEXANDER

**Chairs:** Gaetano Rocco (New York/US)  
Alex Fourdrain (Marseille/FR)

**Jury:** Pierre Emmanuel Falcoz (Strasbourg/FR)  
Alex Fourdrain (Marseille/FR)  
Gaetano Rocco (New York/US)

**Award:** YIA €2000 for Best Research Paper by first author < 35 years, ESTS Member

14:30-14:37

**0-031 - The utility of validated prognostic scores to predict outcomes in patients bridged to lung transplantation with extracorporeal life support**  
Eleonora Faccioli<sup>1,2</sup>, Giulia Lorenzoni<sup>3</sup>, Didier Schneiter<sup>2</sup>, Andrea Dell'Amore<sup>1</sup>, Sven Hillinge<sup>2</sup>, Marco Schiavon<sup>1</sup>, Claudio Caviezel<sup>1</sup>, Federico Rea<sup>1</sup>, Isabelle Opitz<sup>2</sup>, Ilhan Inci<sup>2</sup>

<sup>1</sup> Padova/IT, <sup>2</sup> Zurich/CH, <sup>3</sup> Padova/IT  
Discussant: Paula Moreno Casado (Córdoba/ES)



## SCIENTIFIC PROGRAM - MONDAY 20 JUNE

### KING WILLEM ALEXANDER



#### MITIG VATS RESECTION SESSION VII

MONDAY, 20 JUNE 2022 16:30 - 18:00 h ·  
KING WILLEM ALEXANDER

**Chairs:** Florian Augustin (Innsbruck/AT)  
Cezary Piwkowski (Poznan/PL)

16:30-16:37

**0-037 - Uni-portal Video Assisted Thoracoscopic Surgery (VATS) anatomical segmentectomies: a comparison of long-term outcomes with matched lobectomy patients**

Priyad Ariyaratnam, John Edwards, Jagan Rao, Sara Tenconi, Mohamed Komber, Sanjay Agrawal, [Laura Succi](#) Sheffield/UK

16:40-16:47

**0-038 - Is nodal upstaging during Video Assisted Thoracoscopic Surgery (VATS) related to surgeon experience? Results from a large prospective national database**

[Marco Chiappetta](#)<sup>1</sup>, [Diomira Tabacco](#)<sup>1</sup>, [Filippo Lococo](#)<sup>1</sup>, [Carlo Curcio](#)<sup>2</sup>, [Roberto Crisci](#)<sup>3</sup>, [Isabella Sperduti](#)<sup>4</sup>, [Dania Nachira](#)<sup>1</sup>, [Elisa Meacci](#)<sup>1</sup>, [Federico Rea](#)<sup>5</sup>, [Stefano Margaritora](#)<sup>1</sup>, On Behalf Of VATS Group Italy<sup>6</sup>  
<sup>1</sup>Rome, IT <sup>2</sup>Naples/IT, <sup>3</sup>L'Alquila/IT, <sup>4</sup>Rome/IT, <sup>5</sup>Padova/IT <sup>6</sup>Rome/IT

16:50-16:57

**0-039 - Energy devices versus electrocoagulation in video-assisted thoracoscopic lobectomy: a propensity-match cohort study**

[Federico Femia](#) , [Francesco Guerrera](#), [Eleonora Della Beffa](#), [Ludovica Balsamo](#) , [Paraskevas Lyberis](#) , [Riccardo Carlo Cristofori](#) , [Aurora Lena](#), [Martina Gallo](#), [Erika Passone](#), [Enrico Ruffini](#)  
Turin/IT

17:00-17:07

**0-040 - Sleeve lobectomy in non-small cell lung cancer patients: a report from the European Society of Thoracic Surgery database 2021**

[Michel Gonzalez](#)<sup>1</sup>, [Louis-Emmanuel Chriqui](#)<sup>1</sup>, [Herbert Décaluwé](#)<sup>2</sup>, [Clemens Aigner](#)<sup>3</sup>, [Ferenc Rényi-Vámos](#)<sup>4</sup>, [Isabelle Schmitt-Opitz](#)<sup>5</sup>, [Jozsef Furak](#)<sup>6</sup>, [Zalan Szanto](#)<sup>7</sup>, [Alessandro Brunelli](#)<sup>8</sup>, [Pierre-Emmanuel Falcoz](#)<sup>9</sup>

<sup>1</sup> Lausanne/CH, <sup>2</sup> Leuven/BE, <sup>3</sup> Essen/DE,

<sup>4</sup> Budapest/HU, <sup>5</sup> Zurich/CH, <sup>6</sup> Szeged/HU, <sup>7</sup> Pecs/HU,

<sup>8</sup> Leeds/UK, <sup>9</sup> Strasbourg/FR

17:10-17:17

**0-041 - Computed Tomography (CT)-Based sarcopenia and outcomes in patients undergoing Video-Assisted Thoracoscopic Surgery (VATS) anatomical resection for Non Small Cell Lung Cancer (NSCLC)**

[Arpad Hasenauer](#), [Johan Hungerbühler](#), [Jean Perentes](#), [Etienne Abdelnour](#), [Joachim Koerfer](#), [Celine Forster](#), [Thorsten Krueger](#), [Fabio Becce](#)  
Lausanne/CH

17:20-17:27

**0-042 - Early and late readmission after enhanced recovery thoracoscopic lobectomy**

[Lin Huang](#) , [Mikkel Nicklas Frandsen](#) , [Henrik Kehlet](#) , [René Horsleben Petersen](#)  
Copenhagen/DK

17:30-17:37

**0-043 - Robotic assisted lobectomy versus triportal Video Assisted Thoracoscopic Surgery (VATS) lobectomy: a monocentric prospective randomized trial**

[Luzzi Luca](#) , [Roberto Corzani](#) , [Lisa De Leonibus](#) , [Emanuele Addamo](#) , [Angela Galgano](#) , [Marco Ghisalberti](#) , [Piero Paladini](#) , [Edoardo Zanfrini](#)  
Siena/IT



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## SCIENTIFIC PROGRAM - MONDAY 20 JUNE

### KING WILLEM ALEXANDER

17:40-17:47

**0-044 - Uniportal (single-port) versus 3-port vats for anatomical lung resections. the sin-3-port trial**

Aris Koryllos, Alberto Pastorini Lopez, Thomas Galletin, Julika Merres, Hannah Despang, Rachel Klamer, Erich Stoelben

Cologne/DE



**GENERAL ASSEMBLY**

**MONDAY, 20 JUNE 2022 18:00 - 18:45 h · KING WILLEM ALEXANDER**

**ESTS Members Only**



17:50-17:57

**0-045 - Comparison of short-term outcomes between robotic-assisted and video-assisted segmentectomy: a propensity score matching study**

Hao-Xian Yang, Mu-Zi Yang, Zi-Hui Tan, Ji-Bin Li, Hao Long, Jian-Hua Fu, Lan-Jun Zhang, Peng Lin

Guangzhou/CN

## SCIENTIFIC PROGRAM - MONDAY 20 JUNE

### MISSISSIPPI



#### MIXED THORACIC I SESSION III

MONDAY, 20 JUNE 2022 08:00 - 09:00 h ·  
MISSISSIPPI

Chairs: Michael Rolf Mueller (Vienna/AT)  
Tomaz Stupnik (Ljubljana/SL)

08:00-08:07

**0-013 - Effects of virtual postoperative post-discharge care in patients undergoing lung resection during the Coronavirus-19 (COVID-19) pandemic**

Gileh-Gol Akhtar-Danesh , Allison Chhor , Housne Begum  
Jocelyne Efua Ewusie , John Agzarian , Christian Finley ,  
Wael Hanna , Lawrence Mbuagbaw , Yaron Shargall  
Hamilton/CA

08:10-08:17

**0-014 - The clinical spectrum of “unnecessary” surgery in the setting of suspicious solitary lung nodules and opacities without preoperative tissue diagnosis**

Elsa Armand, Boulate David, Fourdrain Alex, Braggio  
Cesare, Trousse Delphine, Doddoli Christophe, D'Journo  
Xavier-Benoit, Thomas Pascal-Alexandre  
Marseille/FR

08:20-08:27

**0-015 - Trends in age- and sex-specific lung cancer mortality in Europe and Northern America: analysis of vital registration data from the World Health Organisation (WHO) mortality database between 2000 and 2017**

Philip Baum, Hauke Winter , Martin Eichhorn,  
Jacopo Lenzi  
Heidelberg/DE

0-016 - 08:30-08:37

**The modified surgical aPgar score predicts postoperative complication and survival among lung cancer patients undergoing surgery**

Haruaki Hino , Satoshi Hagihira , Natsumi Maru , Takahiro  
Utsumi , Hiroshi Matsui , Yohei Taniguchi , Tomohito Saito ,  
Murakawa Tomohiro  
Osaka/JP

08:40-08:47

**0-017 - Pulmonary resection for lung cancer patients with heart failure with reduced ejection fraction: clinical outcomes and long-term survival results**

Min Soo Kim , Tae Hee Hong , Yang Hyun Cho , Jong Ho  
Cho , Young Mog Shim , Yong Soo Choi , Hong Kwan Kim ,  
Sumin Shin , Jhngook Kim  
Seoul/KR

08:50-08:57

**0-018 - National lung cancer screening program feasibility study**

Tanel Laisaar<sup>1,2</sup> , Piret Viiklepp<sup>3</sup> , Tarvo Kiudma<sup>4</sup> , Urmas  
Takker<sup>5</sup> , Anneli Rätsep<sup>2,6</sup> , Vahur Makke<sup>1</sup> , Marianna Friik<sup>1</sup> ,  
Anneli Poola<sup>1</sup> , Kaja-Triin Laisaar<sup>2</sup>  
<sup>1</sup> Tartu/EE, <sup>2</sup> Tartu/EE, <sup>3</sup> Tallin/EE, <sup>4</sup> Tartu/EE,  
<sup>5</sup> Tartu/EE, <sup>6</sup> Tartu/EE



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## SCIENTIFIC PROGRAM - MONDAY 20 JUNE

### MISSISSIPPI

#### ● TRACHEAL AND AIRWAY SURGERY SESSION IN CO-OPERATION WITH THE BRAZILIAN SOCIETY OF THORACIC SURGERY (SBCT)

MONDAY, 20 JUNE 2022 13:30 - 14:30 h • MISSISSIPPI

**Chairs:** Konrad Hoetzenecker (Vienna/AT)  
Paulo Francisco Guerreiro Cardoso (Sao Paulo/BR)

#### IDIOPATHIC SUBGLOTTIC STENOSIS

13:30-13:40

#### Pathophysiology and non-surgical treatment

Benoit Jacques Bibas (Sao Paulo/BR)

13:40-13:50

#### Surgical treatment options

Konrad Hoetzenecker (Vienna/AT)

13:50-13:55

#### Discussion

#### TRACHEAL MALIGNANCIES

13:55-14:05

#### Diagnosis, types of tumours, role of neoadjuvant therapy

Thomas Schweigert (Vienna/AT)

14:05-14:15

#### Surgical techniques and outcomes

Cristiano F. Andrade (Porto Alegre/BR)

#### ● ROBOTIC SURGERY. SESSION IN CO-OPERATION WITH SOCIETY OF THORACIC SURGEONS (STS)

MONDAY, 20 JUNE 2022 14:30 - 15:30 h • MISSISSIPPI

**Chairs:** Alper Toker (Morgantown/US)  
Margaret Blair Marshall (Boston/US)

14:30-14:42

#### Robotic First Rib resection

Bryan Michael Burt (Houston/US)

14:45-14:57

#### Robotic esophagectomy

Robert Merritt (Columbus/US)

15:00-15:12

#### Robotic complex mediastinal mass resections

Jens Rueckert (Berlin/DE)

15:15-15:27

#### New Robots in the market

Joel Dunning (Middlesbrough/UK)

# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## SCIENTIFIC PROGRAM - MONDAY 20 JUNE

### MISSISSIPPI



#### ESOPHAGEAL SESSION

MONDAY, 20 JUNE 2022 16:00 - 17:00 h • MISSISSIPPI

**Chairs:** Hasan Batirel (Istanbul/TK)  
Lieven Depypere (Leuven/BE)

16:00-16:20

**Quality improvement of an Esophageal Surgery program**

Daniela Molena (New York/US)

16:20-16:40

**Esophageal perforation - is a guideline approach possible?**

Lieven Depypere (Leuven/BE)

16:40-17:00

**Discussion**



#### FIT TO PERFORM SESSION

MONDAY, 20 JUNE 2022 17:00 - 18:00 h • MISSISSIPPI

**Chairs:** Hermien Schreurs (Alkmaar/NL)  
Sridhar Rathinam (Leicester/UK)

17:00-17:05

**Welcome and participant survey**

Hermien Schreurs (Alkmaar/NL)

Sridhar Rathinam (Leicester/UK)

17:05-17:10

**Importance of Surgeon's fitness to perform**

Hermien Schreurs (Alkmaar/NL)

17:10-17:20

**Physical fitness**

Maninder Kalkat (Birmingham/UK) - **ONLINE**

17:20-17:30

**How our diet can help us to perform better**

Martin Bennis (Alkmaar/NL)

17:30-17:40

**Mental fitness and mindfulness**

Carter Lebares (San Francisco/US) - **ONLINE**

17:40-17:50

**Make the change and stay fit to perform**

Sridhar Rathinam (Leicester/UK)

17:50-18:00

**Discussion**



## SCIENTIFIC PROGRAM - MONDAY 20 JUNE

### YANGTZE

### ONYX

#### SUNRISE SEMINAR 1

MONDAY, 20 JUNE 2022 07:00 - 07:50 h ·  
YANGTZE

Chairperson: Nuria Novoa (Salamanca/ES)

- Old patients and fragility:  
the new crucial preoperative variable to evaluate  
Tim Batchelor (Bristol/UK)

#### SUNRISE SEMINAR 2

MONDAY, 20 JUNE 2022 07:00 - 07:50 h ·  
ONYX

Chairperson: Marcelo Jimenez (Salamanca/ES)

- Preoperative electromagnetic bronchoscopy  
in the hybrid OR  
Kelvin Lau (London/UK)

### YANGTZE TERRACE

#### POSTER SESSION-MODERATED

MONDAY, 20 JUNE 2022 17:00 - 18:00 h  
YANGTZE TERRACE

Chairs: Alessandro Bertani (Palermo/IT)  
Peter Juhos (Bratislava/SK)

Award: ESTS Poster Prize € 500 for the best poster presentation

17:00-17:03

**P-013 - Outcome of emergency lobectomy under extracorporeal membrane oxygenation (ECMO) support in patients with severe Coronavirus-19 (COVID-19) disease**  
Ana Beatriz Almeida<sup>1</sup>, Michael Schweigert<sup>1</sup>, Peter Spieth<sup>2</sup>, Attila Dubecz<sup>3</sup>, Marcelo Gama De Abreu<sup>4</sup>, Patrick Kellner<sup>1</sup>

<sup>1</sup> Lübeck/DE, <sup>2</sup> Dresden/DE, <sup>3</sup> Nuremberg/DE, <sup>4</sup> Cleveland/US

17:05-17:08

**P-014 - The hypothetical role of the oxidative stress in the neuroendocrine lung tumors**  
Luigi Gaetano Andriolo<sup>1,2</sup>, Alessandra Spagnoli<sup>3</sup>, Vittoria Cammisotto<sup>4</sup>, Danilo Alunni Fegatelli<sup>3</sup>, Michele Chicone<sup>5</sup>, Gaetano Di Rienzo<sup>1</sup>, Vladimiro Dell'Anna<sup>6</sup>, Giambattista Lobreglio<sup>5</sup>, Giovanni Serio<sup>6</sup>, Pasquale Pignatelli<sup>4</sup>

<sup>1</sup> Lecce/IT, <sup>2</sup> Rome/IT, <sup>3</sup> Rome/IT, <sup>4</sup> Rome/IT, <sup>5</sup> Lecce/IT, <sup>6</sup> Lecce/IT

17:10-17:13

**P-015 - Cancer stem cells and cell cycle genes as independent predictors of relapse in non-small cell lung cancer: secondary analysis of a prospective cohort study**  
Valentina Masciale, Federico Banchelli, Giulia Grisendi, Roberto D'Amico, Antonino Maiorana, Uliano Morandi, Franco Stella, Massimo Dominici, Beatrice Aramini  
Forlì/IT

17:15-17:18

**P-016 - Long-term oncological outcomes of complex sleeve lobectomy for non-small-cell lung cancer**  
Stefano Bongiolatti, Giovanni Mugnaini, Arianna Farronato, Sara Borgianni, Domenico Viggiano, Alessandro Gonfiotti, Luca Voltolini  
Florence/IT

17:20-17:23

**P-017 - Less is more? a multi-institutional experience with Computed Tomography (CT)-guided transthoracic tracers for intraparenchymal lung lesions**  
Niccolò Daddi<sup>1</sup>, Andrea Dell'Amore<sup>2</sup>, Marco Andolfi<sup>3</sup>, Rossella Potenza<sup>4</sup>, Marialuisa Lugaresi<sup>5</sup>, Gabriella Roca<sup>2</sup>, Leonardo Valentini<sup>1</sup>, Chiara Catelli<sup>2</sup>, Francesco Buia<sup>6</sup>, Giampiero Dolci<sup>1</sup>, Majed Refai<sup>3</sup>, Francesco Puma<sup>4</sup>, Federico Rea<sup>2</sup>  
<sup>1</sup> Bologna/IT, <sup>2</sup> Padua/IT, <sup>3</sup> Ancona/IT, <sup>4</sup> Perugia/IT, <sup>5</sup> Bologna/IT, <sup>6</sup> Bologna/IT

## SCIENTIFIC PROGRAM - MONDAY 20 JUNE

### YANGTZE TERRACE

17:25-17:28

**P-018 - How demographics and treatment of neuroendocrine tumors of the lung have been changing across the years: lesson learned from the European Society Of Thoracic Surgeons (ESTS) lung Neuroendocrine Tumor (NETS) database**

Pier Luigi Filosso<sup>1</sup>, Stefano Passani<sup>2</sup>, Silvia Cicconi<sup>3</sup>, Danilo Pellicano<sup>3</sup>, Alessandro Brunelli<sup>4</sup>, Pierre-Emmanuel Falcoz<sup>6</sup>, Zalan Szanto<sup>6</sup>

<sup>1</sup> Torino/IT, <sup>2</sup> London/UK, <sup>3</sup> Bologna/UK, <sup>4</sup> Leeds/UK,

<sup>5</sup> Strasbourg/FR, <sup>6</sup> Pecs/HU

17:30-17:33

**P-019 - Thymomectomy or thymothymectomy for non-myasthenc patients with stage I Thymoma**

Gökhan Kocaman, Betül Bahar Kazak, Buse Mine Konuk Balci, Yusuf Kahya, Bülent Mustafa Yenigün, Ayten Kayi Cangir  
Ankara/TR

17:35-17:38

**P-020 - Percutaneous transeptal Extracorporeal Membrane Oxygenation (ECMO) to rescue a failing right ventricle in an animal model**

Ian Makey<sup>1</sup>, Sanjay Chaudhary<sup>1</sup>, Brad Case<sup>2</sup>, Catherine Monger<sup>2</sup>, ZuoRui Song<sup>1</sup>, James Johnson<sup>1</sup>, Pramod Guru<sup>1</sup>, Si Pham<sup>1</sup>, Peter Pollak<sup>1</sup>

<sup>1</sup> Jacksonville/US, <sup>2</sup> Gainesville/US

17:40-17:43

**P-021 - Endoscopic treatment of esophageal fistulas by injection of emulsified adipose tissue stromal vascular fraction: preliminary results**

Dania Nachira, Ivo Boskoski, Angelo Trivisonno, Gabriele Toietta, Guido Costamagna, Stefano Margaritora, Venanzio Porziella  
Rome/IT

17:45-17:48

**P-022 - Implementation of the versius robotic surgical system for general thoracic surgery, early experience**

Mario Nosotti, Margherita Cattaneo, Alessandro Palleschi, Francesco Damarco, Valeria Musso, Cristina Diotti, Lorenzo Rosso

Milano/IT

17:50-17:53

**P-023 - Impact of surgical safety checklist compliance in near misses, incident detection and 30 day-complications in thoracic surgery: an observational study**

María Rodríguez, Lucía Milla Collado, Sara Hernández Calvo, Beatriz Moreno Morueco, Cristina Criado Tamayo, María Teresa Ordovás, Ruth De La Vega Antúnez, Jorge M. Núñez-Córdoba, Inés María Luque Vázquez

Madrid/ES

17:55-17:58

**P-024 - Clinicopathological features and survival analysis of patients with pathological complete response and major response after neoadjuvant/induction therapy**

Hüseyin Melek, Erhan Özer, Elçin Süleymanoglu, Tolga Evrim Sevinç, Adem Deligönül, Ahmet Sami Bayram, Türkan Evrensel, Cengiz Gebitekin

Bursa/TR

18:00-18:03

**P-025 - Learning curve for thoracoscopic lobectomy: do patients have the same long-term survival chance?**

Domenico Viggiano, Alessandro Gonfiotti, Stefano Bongiolatti, Sara Borgianni, Ottavia Salimbene, Dario Petrone, Luca Voltolini  
Florence/IT



## SCIENTIFIC PROGRAM - TUESDAY 21 JUNE

### KING WILLEM ALEXANDER

#### **PULMONARY NEOPLASTIC II (ADVANCED STAGE LUNG CANCER) SESSION VIII**

**TUESDAY, 21 JUNE 2022 08:00 - 09:30 h**

**KING WILLEM ALEXANDER**

**Chairs:** Henrik Hansen (Copenhagen/DK)  
Laureano Molins (Barcelona/ES)

**Award:** ESTS-AATS Foundation Excellence Award – 2000 EUR  
Awarded for the Best Overall Scientific Contribution in Pulmonary Neoplastic I/ Pulmonary Neoplastic II sessions

08:00-08:07

**0-046 - Log-odds ratio of resected and positive lymph nodes defines prognosis independently of n-descriptors in resectable Non Small Cell Lung Cancer (NSCLC)**

Michal Benej, Thomas Klikovits, Tibor Krajc, Tomas Bohanes, Lisa Schulte, Maximilian Hochmair, Stefan Watzka, Berta Mosleh, Konrad Hoetzenecker, Alireza Hoda, Michael Rolf Mueller  
Vienna/AT

08:10-08:17

**0-047 - Is the burden of the metastatic lymph node stations a prognostic factor in resected lung cancer patients? a multicenter study with validation in t stage**  
Necati Citak<sup>1</sup>, Volkan Erdogan<sup>2</sup>, Yunus Aksoy<sup>2</sup>, Aysegül Ciftci<sup>2</sup>, Nisa Yildiz<sup>2</sup>, Özgür Işgörücü<sup>2</sup>, Servet Özdemir<sup>3</sup>, Selcuk Köse<sup>3</sup>, Kenan Can Ceylan<sup>1</sup>, Muzaffer Metin<sup>2</sup>

<sup>1</sup>Izmir/TK, <sup>2</sup>Istanbul/TR, <sup>3</sup>Istanbul/TR

08:20-08:27

**0-048 - Survival effects of nx versus n0 nodal stage in early stage non-small-cell lung cancer: a population-based study**

Zacharie Cloutier, Christian Finley, Gileh-Gol Akhtar-Danesh, Noori Akhtar-Danesh  
Hamilton/CA

08:30-08:37

**0-049 - Positive parenchymal margin after non-small cell lung cancer resection: is there an impact on overall survival?**

Francois Khazoom, Caitlin Anstee, Urmila Bhattacharyya, Sebastien Gilbert, Donna Elizabeth Maziak, Andrew J. Seely, Sudhir Sundaresan, Patrick James Villeneuve  
Ottawa/CA

08:40-08:47

**0-050 - The impact of Cytokeratin 7 (CK7) on long term survival in lung cancer patients**

Hruy Menghsha, Amina Camo, Fabian Doerr, Andres Amorin Estremadoyro, Georg Schlachtenberger, Matthias Heldwein, Thorsten Wahlers, Khosro Hekmat  
Cologne/DE

08:50-08:57

**0-051 - Does pleural invasion correlate with nodal upstaging and N2 skip metastasis?**

Fabio Eiti Nishibe Minamoto, Eserval Rocha Junior, Pedro Henrique Xavier Nabuco, Alberto Jorge Monteiro Dela Vega, Leticia Leone Lauricella, Paula Duarte D'Ambrosio, Paulo Manoel Pêgo Fernandes, Ricardo Mingarini Terra  
Sao Paulo/BR

09:00-09:07

**0-052 - Epidermal growth factor receptor (EGFR) tyrosine kinase inhibitor as first-line treatment for postoperative recurrence of egfr-mutated lung adenocarcinoma: a multicenter retrospective study**  
**ONLINE**

Ryo Miyata<sup>1</sup>, Masatsugu Hamaji<sup>1</sup>, Yumeta Shimazu<sup>2</sup>, Masashi Ishikawa<sup>2</sup>, Hidenao Kayawake<sup>1</sup>, Toshi Menju<sup>1</sup>, Masashi Kobayashi<sup>3</sup>, Norihito Okumura<sup>3</sup>, Yasuto Sakaguchi<sup>4</sup>, Makoto Sonobe<sup>4</sup>, Akira Matsumoto<sup>5</sup>, Hiromichi Katakura<sup>5</sup>, Ryota Sumitomo<sup>6</sup>, Cheng-Long Huang<sup>6</sup>, Mamoru Takahashi<sup>7</sup>, Akihiro Aoyama<sup>7</sup>, Tomoya Kono<sup>8</sup>, Ryo Miyahara<sup>8</sup>, Naoki Date<sup>9</sup>, Takuji Fujinaga<sup>9</sup>, Ei Miyamoto<sup>10</sup>, Tatsuo Nakagawa<sup>10</sup>, Takehisa Fukada<sup>11</sup>, Hiroaki Sakai<sup>11</sup>, Hiroshi Date<sup>1</sup>  
<sup>1</sup>Kyoto/JP, <sup>2</sup>Wakayama/JP, <sup>3</sup>Kurashiki/JP, <sup>4</sup>Osaka/JP, <sup>5</sup>Otsu/JP, <sup>6</sup>Osaka/JP, <sup>7</sup>Kyoto/JP, <sup>8</sup>Kyoto/JP, <sup>9</sup>Gifu/JP, <sup>10</sup>Tenri/JP, <sup>11</sup>Amagasaki/JP

09:10-09:17

**0-053 - Oncological outcomes of upfront surgery in patients with “occult” pathological n2 non-small cell lung cancer: an international multicentre study**

Elena Prisciandaro<sup>1</sup>, Claudia Bardoni<sup>1</sup>, Davide Tosi<sup>2</sup>, Matthieu Thumerel<sup>3,4</sup>, Lorenzo Spaggiari<sup>1,5</sup>, Mario Nosotti<sup>2,6</sup>, Jacques Jougon<sup>3,4</sup>, Luca Bertolaccini<sup>1</sup>

<sup>1</sup>Milan/IT, <sup>2</sup>Milan/IT, <sup>3</sup>Pessac/FR, <sup>4</sup>Bordeaux/FR, <sup>5</sup>Milan/IT, <sup>6</sup>Milan/IT



## SCIENTIFIC PROGRAM - TUESDAY 21 JUNE

### KING WILLEM ALEXANDER

09:20-09:27

**0-054 - Pathological N1/N2 in early stage bronchogenic carcinoma. analysis from a prospective multicentre database**

Alejandra Romero Roman<sup>1</sup>, Silvana Crowley Carrasco<sup>1</sup>, Mariana Gil Barturen<sup>1</sup>, Ana Royuela<sup>1</sup>, Sergi Call<sup>2</sup>, Carme Obiols<sup>2</sup>, Jose Luis Recuero<sup>3</sup>, Iñigo Royo Crespo<sup>4</sup>, Raúl Embún<sup>3</sup>, David Gomez De Antonio<sup>1</sup>

<sup>1</sup> Madrid/ES, <sup>2</sup> Barcelona/ES, <sup>3</sup> Zaragoza/ES, <sup>4</sup> Huesca/ES

### ESTS VOGT-MOYKOPF LECTURE

**TUESDAY, 21 JUNE 2022 09:30 - 10:00 h • KING WILLEM ALEXANDER**

**Chair:** Alessandro Brunelli (Leeds/UK)  
**Discussant:** Isabelle Opitz (Zurich/CH)

09:30-09:38

**0-064 - Video-assisted thoracic surgery (vats) or thoracotomy for lung cancer surgery in obese patients? an analysis of the European Society of Thoracic Surgeons database**

Francesco Guerrera<sup>1,2</sup>, Alessandro Brunelli<sup>3</sup>, Pierre-Emmanuel Falcoz<sup>4</sup>, Pier Luigi Filosso<sup>1</sup>, Zalan Szanto<sup>5</sup>, Paolo Olivo Lausi<sup>1</sup>, Giulio Luca Rosboch<sup>2</sup>, Enrico Ruffini<sup>1</sup>

<sup>1</sup> Torino/IT, <sup>2</sup> Torino/IT, <sup>3</sup> Leeds/UK, <sup>4</sup> Strasbourg/FR, <sup>5</sup> Pecs/HU

### EXTRAORDINARY GUEST LECTURE

**TUESDAY, 21 JUNE 2022 10:00 - 10:30 h • KING WILLEM ALEXANDER**

**WE BY ME; TEAMWORK STARTS WITH YOURSELF**

Gerd-Jan Poortman  
Professional sailor



### ESOPHAGUS/MEDIASTINUM SESSION X

**TUESDAY, 21 JUNE 2022 11:00 - 12:00 h • KING WILLEM ALEXANDER**

**Chairs:** Miroslav Janik (Bratislava/SK)  
Yvonne Vissers (Heerlen/NL)

11:00-11:07

**0-065 - Thymectomy in severe (MGFA CLASS IV-V) generalized myasthenia gravis: is the game really worth the candle?**

Debora Brascia<sup>1</sup>, Marco Lucchi<sup>2</sup>, Vittorio Aprile<sup>2</sup>, Diana Bacchin<sup>2</sup>, Stylianos Korasidis<sup>2</sup>, Federico Rea<sup>3</sup>, Giovanni Maria Comacchio<sup>3</sup>, Eleonora Faccioli<sup>3</sup>, Maria Carlotta Marino<sup>3</sup>, Stefano Margaritora<sup>4</sup>, Elisa Meacci<sup>4</sup>, Maria Teresa Congedo<sup>4</sup>, Dania Nachira<sup>4</sup>, Giulia De Iaco<sup>1</sup>, Angela De Palma<sup>1</sup>, Giuseppe Marulli<sup>1</sup>

<sup>1</sup> Bari/IT, <sup>2</sup> Pisa/IT, <sup>3</sup> Padova/IT, <sup>4</sup> Rome/IT

11:10-11:17

**0-066 - Perioperative outcomes comparison between robot-assisted and video-assisted thoracoscopic thymectomy: a single center experience - ONLINE**  
Deping Zhao, Haoran E, Junqi Wu, Long Xu, Chang Chen  
Shanghai/CN

11:20-11:27

**0-067 - Risk of chylothorax following en-bloc versus selective thoracic duct ligation during esophagectomy: a propensity-matched analysis**  
Stephan Soder, Yasmine Labad, David Levi, Clare Pollock, Pasquale Ferraro, Edwin Lafontaine, Jocelyne Martin, Basil Nasir, Moishe Liberman  
Quebec/CA

11:30-11:37

**0-068 - Improved quality of life of patients with localised hyperhidrosis after thoracoscopic sympathetic clipping: long term results**  
Denis I. Trufa, Wojciech Dudek, Horia Sirbu  
Erlangen/DE



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## SCIENTIFIC PROGRAM - TUESDAY 21 JUNE

### KING WILLEM ALEXANDER

11:40-11:47

**O-069 - The rise of power: a real life introduction of powered circular stapler for esophagogastric anastomosis – cohort and propensity matched score study**

Stijn Vanstraelen, Willy Coosemans, Lieven Depypere, Yannick Mandeville, Hans Van Veer, Philippe Nafteux  
University Hospitals Leuven, Leuven, Belgium  
Leuven/BE

11:50-11:57

**O-070 - The clinical characteristics and treatment of post-esophagectomy airway fistula: a multicenter retrospective study - ONLINE**

Bin Zheng, Taidui Zeng  
Fuzhou/CN

### TRANSPLANT/AIRWAY SESSION XIII

TUESDAY, 21 JUNE 2022 15:30 - 16:30 h ·

KING WILLEM ALEXANDER

**Chairs:** David G Healy (Dublin/IE)  
Gilbert Massard (Luxemburg/LU)

15:30-15:37

**O-083 - Comparison of living-donor lobar lung transplantation and cadaveric lung transplantation for pulmonary hypertension - ONLINE**

Hiroshi Date, Hidenao Kayawake, Satona Tanaka, Yoshito Yamada, Shiro Baba, Hideyuki Kinoshita, Kazuhiro Yamazaki, Tadashi Ikeda, Kenji Minatoya, Yojiro Yutaka, Masatsugu Hamaji, Akihiro Ohsumi, Daisuke Nakajima  
Kyoto/JP

15:40-15:47

**O-084 - The outcome of endoscopic dilatation of benign airway stenosis in relation to Coronavirus-19 (COVID-19) infection: results of a multicenter study**

Alfonso Fiorelli<sup>1</sup>, Gaetana Messina<sup>1</sup>, Beatrice Leonardi<sup>1</sup>, Mary Bove<sup>1</sup>, Antonio Noro<sup>1</sup>, Giorgia Opromolla<sup>1</sup>, Mario Martone<sup>1</sup>, Rosa Mirra<sup>1</sup>, Alfonso Pecoraro<sup>2</sup>, Giuseppe Failla<sup>2</sup>, Carlo Santoriello<sup>2</sup>, Francesco De Blasio<sup>3</sup>, Claudio Andreotti<sup>4</sup>, Erino Angelo Rendina<sup>4</sup>, Mario Santini<sup>1</sup>

<sup>1</sup> Naples/IT, <sup>2</sup> Naples/IT, <sup>3</sup> Naples/IT, <sup>4</sup> Rome/IT

15:50-15:57

**O-085 - Influence of de novo malignancies on long-term survival after lung transplantation**

Francisco Javier González, Paula Moreno, Eloisa Ruiz, David S Poveda, Alba M Fernandez, Antonio Alvarez  
Córdoba/ES

16:00-16:07

**O-086 - Extubation by supraglottic airway after lobectomy prevent prolong coughing and air leakage**

Hironori Ishibashi, Ryo Wakeshima, Yuri Sumi, Ryosuke Kumagai, Katsutoshi Seto, Shunichi Baba, Yasuyuki Kurihara, Kenichi Okubo  
Tokyo/JP

16:10-16:17

**O-087 - A novel artificial trachea using a polyglycolic acid tube in a rat cervical tracheal defect model - ONLINE**

Yoshitake Murata, Yojiro Yutaka, Hidenao Kayawake, Satona Tanaka, Yoshito Yamada, Akihiro Ohsumi, Daisuke Nakajima, Masatsugu Hamaji, Toshi Menju, Hiroshi Date  
Kyoto/JP

16:20-16:27

**O-088 - Implanting the right lung first in off-pump sequential single-lung transplantation lowers the need for intraoperative ECMO with less primary graft dysfunction**

Jan Van Slambrouck, Herbert Decaluwé, Charlotte Schoenaers, Cedric Vanluyten, Christelle M. Vandervelde, Michaela Orlitová, Janne Kaes, Paul De Leyn, Lieven Depypere, Philippe Nafteux, Hans Van Veer, Willy Coosemans, Laurent Godinas, Robin Vos, Geert M. Verleden, Arne P. Neyrinck, Tom Verbelen, Filip Rega, Bart Meyns, Dieter Dauwe, Bart M. Vanaudenaerde, Laurens J. Ceulemans, Dirk Van Raemdonck  
Leuven/BE

# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## SCIENTIFIC PROGRAM - TUESDAY 21 JUNE

### KING WILLEM ALEXANDER

#### ● UPDATES ON MULTIMODAL THERAPY IN CO-OPERATION WITH THE INTERNATIONAL ASSOCIATION FOR THE STUDY OF LUNG CANCER (IASLC)

TUESDAY, 21 JUNE 2022 13:00 - 14:00 h ·

KING WILLEM ALEXANDER

**Chairs:** Eric Lim ((London/UK)  
Ramon Rami Porta (Barcelona/ES)  
Paul Van Schil (Antwerp/BE)

13:00-13:10

**Neo-adjuvant immunotherapy for early stage lung cancer**

Boris Sepesi (Houston/US)

13:10-13:20

**Adjuvant immunotherapy for completely resected lung cancer**

Jonathan Villena-Vargas (New York/US)

13:20-13:30

**Adjuvant targeted treatments for completely resected lung cancer **ONLINE****

Yi Long Wu (Guangzhou/CN)

13:30-13:40

**Future landscape for multi-modality treatment in early stage lung cancer**

Tom Newsom-Davis (London/UK)

13:40-14:00

**Discussion**

#### ● TRANSPLANT SESSION

SUNDAY 19 JUNE 2022 14:30 - 15:30 h ·

KING WILLEM ALEXANDER

**Chairs:** Laurens Ceulemans (Leuven/BE)  
Paula Moreno (Cordoba/ES)

14:30-14:42

**Lung transplantation after previous cardiothoracic surgery**

Clemens Aigner (Dusseldorf/DE)

14:45-14:57

**How to avoid ECLS-related complications during lung transplantation**

Wiebke Sommer (Heidelberg/DE)

15:00-15:12

**The impact of TA-NRP on the lung allograft**

Dirk Van Raemdonck (Leuven/BE)

15:15-15:27

**Vascular anastomosis: technical tricks for complications**

Mario Nosotti (Milano/IT)



## SCIENTIFIC PROGRAM - TUESDAY 21 JUNE

### MISSISSIPPI



#### PULMONARY NON-NEOPLASTIC SESSION IX

TUESDAY, 21 JUNE 2022 08:00 - 09:30 h - MISSISSIPPI

Chairs: [Christophoros N. Foroulis](#) (Thessaloniki/GR)  
[Akif Turna](#) (Istanbul/TR)

08:00-08:07

**0-055 - Non-intubated versus intubated lung volume reduction surgery in patients with end-stage lung emphysema and severe hypercapnia**

[Ali Akil](#) , [Stephan Ziegeler](#) , [Stephanie Rehers](#) , [Stefan Fischer](#)  
[Ibbenbueren/DE](#)

08:10-08:17

**0-056 - Cold coagulation in thoracoscopic treatment of primary pneumothorax: a comparison with apicoectomy**  
[Vittorio Aprile](#), [Elena Marrama](#), [Stylianos Korasidis](#), [Maria Giovanna Mastromarino](#), [Marco Lucchi](#), [Marcello Carlo Ambrogi](#)  
[Pisa/IT](#)

08:20-08:27

**0-057 - Exercise training ameliorates inflammatory responses induced by one-lung ventilation via the suppression of NF-B activation**

[Zhiming Chen](#) , [Di Lu](#) , [Zhizhi Wang](#) , [Jiayang Fan](#) , [Duopei Fang](#) ,  
[He Cai](#) , [Kaican Cai](#)  
[Guangdong/CN](#)

08:30-08:37

**0-058 - Does a novel scoring model predict patients with pneumothorax requiring surgery? an internal validation study**  
[Necati Citak](#)<sup>1</sup> , [Servet Özdemir](#)<sup>2</sup> , [Selçuk Köse](#)<sup>2</sup>  
<sup>1</sup>Izmir/TK, <sup>2</sup>Istanbul/TR

08:40-08:47

**0-059 - Aggregate 1-year hospital stay after accelerated serial debridement or open window thoracostomy for pleural empyema after anatomical lung resection**

[Heleen Cool](#), [Johnny Moons](#), [Dirk Van Raemdonck](#), [Willy Coosemans](#), [Philippe Nafteux](#), [Hans Van Veer](#), [Lieven Depypere](#), [Laurens Ceulemans](#), [Paul De Leyn](#), [Herbert Decaluwe](#)  
[Leuven/BE](#)

08:50-08:57

**0-060 - Variables influencing hospital stay and 10-year staying trending after anatomical lung resection**  
[M. Teresa Gomez-Hernandez](#) , [Clara Forcada](#) , [Marta G. Fuentes](#) , [Nuria M. Novoa](#) , [Jose Luis Aranda](#) , [Cristina Rivas](#) , [Gonzalo Varela](#) , [Marcelo F. Jimenez](#)  
[Salamanca/ES](#)

09:00-09:07

**0-061 - Which surgery for stage II-III empyema patients? observational single centre cohort study on 719 consecutive patients**

[Sara Ricciardi](#)<sup>1,2</sup>, [Delia Giovanniello](#)<sup>3</sup>, [Francesco Carleo](#)<sup>1</sup>,  
[Marco Di Martino](#)<sup>1</sup>, [Massimo Osvaldo Jaus](#)<sup>1</sup>, [Luigi Carbone](#)  
[Sara Mantovani](#)<sup>1</sup>, [Alessia Raffaella De Massimi](#)<sup>1</sup>, [Lorenzo Salvadori](#)<sup>1</sup>, [Maria Teresa Aratari](#)<sup>1</sup>, [Stefano Treggiari](#)<sup>1</sup>,  
[Giuseppe Cardillo](#)<sup>1</sup>  
<sup>1</sup>Rome/IT, <sup>2</sup>Bologna/IT, <sup>3</sup>Rome/IT

09:10-09:17

**0-062 - A new method using postoperative X-Ray to evaluate residual pleural space and predict infectious pleuropulmonary complications after lung resection for infectious disease**

[Eserval Rocha Junior](#), [Alessandro Wasum Mariani](#), [Igor Barbosa Ribeiro](#), [Joao Marcelo Lopes Toscano De Brito](#),  
[Marcel Martins Sandrini](#), [Yuri Costa Sarno Neves](#), [Ricardo Mingarini Terra](#), [Paulo Manuel Pego-Fernandes](#)  
[São Paulo/BR](#)

## SCIENTIFIC PROGRAM - TUESDAY 21 JUNE

### MISSISSIPPI

09:20-09:27

**O-063 - Impact of visualization system in thoracoscopic surgery: a prospective randomized study**

Nicola Tamburini, Agnese Baglioni, Pio Maniscalco, Francesco Quarantotto, Francesco Dolcetti, Ilaria Potenza, Giorgio Cavallesco  
Ferrara/IT



**CHEST WALL IN CO-OPERATION WITH CHEST WALL INTERNATIONAL GROUP (CWIG)**

**TUESDAY, 21 JUNE 2022 11:00 - 12:00 h • MISSISSIPPI**

**Chairs:** Jose Ribas de Campos (Sao Paulo/BR)  
Hans Van Veer (Leuven/BE)

**PRO & CON DEBATE**

**Thoracic Trauma**

11:00-11:10

**PRO - Rib fixation in non-flail multiple rib fractures**

Fabrizio Minervini (Lucerne/CH)

11:10-11:15

**CON - Rib Fixation in non-flail multiple rib fractures**

Erik de Loos (Heerlen/NL)

11:25-11:30

**Discussion**

11:30-11:40

**Congenital Deformities: Pectus Excavatum - conservative management**

Frank Martin Haecker (Heerlen/CH)

11:40-11:45

**Discussion**

11:45-11:55

**Congenital Deformities: Pectus Excavatum - surgical management**

Hyun Joo Park (Seoul/KR)

11:55-12:00

**Discussion**



**MIXED THORACIC II SESSION XI**

**TUESDAY, 21 JUNE 2022 13:00 - 14:00 h •**

**MISSISSIPPI**

**Chairs:** Alessandro Wasum Mariani (São Paulo/BR)  
Mario Nosotti (Milano/IT)

13:00-13:07

**O-071 - Ambulatory videothoroscopic indwelling pleural catheter versus videothoroscopic talc pleurodesis approach in case of initial management of malignant pleural effusion: a propensity score analysis.**

Charlotte Baltazard<sup>1,2</sup>, Henri De Lesquen<sup>2</sup>, Pierre-Julien Cungi<sup>2</sup>, Jean-Philippe Avaro<sup>2</sup>

<sup>1</sup>Paris/FR, <sup>2</sup>Toulon/FR

13:10-13:17

**O-072 - The "beer" pre-biotic improves the impact of anti-CTLA4 immune checkpoint inhibitor in a murine model of malignant pleural mesothelioma**

Christophe Gattlen<sup>1</sup>, Louis-Emmanuel Chriqui<sup>1</sup>, Yameng Hao<sup>2</sup>, Michel Gonzalez<sup>1,3</sup>, Thorsten Krueger<sup>1,3</sup>, Sviatlana Siankevich<sup>4</sup>, Paul Dyson<sup>2</sup>, Sabrina Cavin<sup>1</sup>, Jean-Yannis Perentes<sup>1,3</sup>

<sup>1</sup>Lausanne/CH, <sup>2</sup>Lausanne/CH, <sup>3</sup>Lausanne/CH, <sup>4</sup>Etoy/CH

13:20-13:27

**O-073 - An evaluation of perioperative hospital Coronavirus-19 (COVID-19) infection rates in thoracic surgery patients during the acute coronavirus disease 2019 pandemic**

Vivian Wang, SangMin Kim, Abraham Lebenthal, Sudan Kucukak, Bayonle Ademola, Luis E. De León, Michael T. Jaklitsch, Raphael Bueno, M. Blair Marshall  
Boston/US

13:30-13:37

**O-074 - Is mesothelial hyperplasia a benign disease?**

Jacopo Moro, Carlotta Francesca Cartia, Simona Sobrero, Luisella Righi, Paolo Bironzo, Maria Lucia Reale, Alberto Sandri, Luca Errico, Francesco Leo

Orbassano/IT

## SCIENTIFIC PROGRAM - TUESDAY 21 JUNE

### MISSISSIPPI

13:40-13:47

**0-075 - Early readmission after major lung resections: any modifiable risk factors?**

Simona Sobrero , Jacopo Moro , Alberto Sandri , Luca Errico , Marta Ciniero , Ilaria Stura , Giuseppe Migliaretti , Francesco Leo  
Orbassano/IT

13:50-13:57

**0-076 - Bilateral thoracoscopy is associated with a reduced complication rate and better cosmesis in minimally-invasive pectus excavatum repair**

Christina Oetzmann Von Sochaczewski<sup>1</sup> , Stephan Rohleder<sup>2</sup> , Tatjana König<sup>2</sup> , Andreas Heydweiller<sup>1</sup>  
<sup>1</sup>Bonn/DE, <sup>2</sup>Mainz/DE

### INTERESTING CASES SESSION XII

**TUESDAY, 21 JUNE 2022 14:30 - 15:30 h -  
MISSISSIPPI**

**Chairs:** Federico Raveglia (Monza/IT)  
Geertruid Marres (Dordrecht/NL)

14:30-14:37

**0-077 - Case report and management of bilateral pneumothoraces following single cryoprobe transbronchial lung biopsy in lung transplant recipient**

Margherita Cattaneo , Francesco Damarco , Ilaria Righi , Lorenzo Rosso , Mario Nosotti  
Milano/IT

14:40-14:47

**0-078 - Extrapleural pneumonectomy (EPP) with veno-arterial-venous extracorporeal membrane oxygenation (vav-ecmo) support for primary pulmonary synovial sarcoma in a young adult.**

Ahmed Hamdouna , Torsten Richter , Ana Beatriz Almeida , Christian Reeps , Michael Schweigert  
<sup>1</sup>Lübeck/DE, <sup>2</sup>Dresden/DE

14:50-14:57

**0-079 - Minimally invasive intrapleural vacuum therapy with instillation and simultaneous endobronchial valve placement in the management of postoperative bronchopleural fistula and recurrent empyema after lower lobe resection for pulmonary abscess and pleural empyema**

Sameer Hammoudeh , Sebastian Stange , Claus Steppert , Zsolt Sziklavari  
Coburg/DE

15:00-15:07

**0-080 - Bilateral lung transplantation and giant pulmonary artery aneurism reconstruction with aorta graft in a woman with pulmonary hypertension**

David Poveda Chavez<sup>1</sup> , Elie Fade<sup>2</sup> , William Lorenzi<sup>2</sup> , Jean Baptiste Menager<sup>2</sup> , Francesco Cassiano<sup>2</sup>  
<sup>1</sup>Cordoba/ES, <sup>2</sup>Paris/FR

15:10-15:17

**0-081 - Novel method for costo-clavicular joint repair and reconstruction**

Nestor Ivan Quiroga , David Sanchez , Marc Boada , Pablo Paglialunga , Leandro Grando , Carlos Guerrero , Angela Guirao , Irene Bello , Laureano Molins  
Barcelona/ES

15:20-15:27

**0-082 - Lung transplant after 6 months of Extracorporeal Membrane Oxygenation (ECMO) support for SARS-COV-2 induced pulmonary fibrosis**

Edoardo Zanfrini , Federico Mathieu , Piero Paladini , Tommaso Ligabue , Luca Luzzi  
Siena/IT

# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## SCIENTIFIC PROGRAM - TUESDAY 21 JUNE

### MISSISSIPPI

#### INNOVATIVE/EXPERIMENTAL II SESSION XIV

TUESDAY, 21 JUNE 2022 15:30 - 16:30 h •

#### MISSISSIPPI

**Chairs:** Lorenzo Rosso (Milano/IT)  
Katrín Welcker (Moenchengladbach/DE)

**Award:** ESTS-Grillo Award €1000 for Best  
Overall Innovative/Experimental Abstract  
in Sessions Innovative/Experimental I and II

15:30-15:37

**0-089 - Pain outcomes after rib fixation for acute chest trauma: a retrospective matched-cohort study**

Andrew Joshua, Chia Blythe, Roslyn Cassidy, Janet Hill,  
Owen Diamond, Kieran Mcmanus  
Belfast/UK

15:40-15:47

**0-090 - Local and general anaesthesia in video-assisted thoracoscopic surgery and their impact on patients satisfaction - results of the first randomized controlled trial with a non-randomised side arm**

Thomas Galetin<sup>1,2</sup>, Christoph Eckermann<sup>1,2,3</sup>, Olger Kraja<sup>4</sup>,  
Julika Merres<sup>1,2</sup>, Alberto Lopez<sup>1,2</sup>, Aris Koryllos<sup>1,2</sup>,  
Erich Stoelben<sup>1,2</sup>

<sup>1</sup> Cologne/DE, <sup>2</sup> Witten/DE, <sup>3</sup> Koblenz/DE, <sup>4</sup> Hildesheim/DE

15:50-15:57

**0-091 - Bioartificial human Three Dimensional (3D) airway models from surgical specimen for basic and applied research**

Julian Maurer, Thorsten Walles, Cornelia Wiese-Rischke  
Magdeburg/DE

16:00-16:07

**0-092 - Early comparison robotic bronchoscopy versus electromagnetic navigational bronchoscopy for biopsy of pulmonary nodules in a thoracic surgery practice**

Elizabeth Joy Trimble, Fawad Chaudry, Kenneth Stewart,  
James Matthew Reinersman  
Oklahoma City/US

16:10-16:17

**0-093 - Vacute postoperative pain management after video-assisted thoracoscopic lung resection: a systematic review and meta-analysis**

Louisa N. Spaans<sup>1</sup>, Jelle E. Bousema<sup>1</sup>, Patrick Meijer<sup>1</sup>,  
Arthur Bouwman<sup>2</sup>, Renee Van Den Broek<sup>2</sup>, Jo Mourisse<sup>3</sup>,  
Marcel G.w. Dijkgraaf<sup>4</sup>, Ad F.t.m. Verhagen<sup>3</sup>, Frank J.c. Van  
Den Broek<sup>1</sup>

<sup>1</sup> Veldhoven/NL, <sup>2</sup> Eindhoven/NL, <sup>3</sup> Nijmegen/NL,  
<sup>4</sup> Amsterdam/NL

16:20-16:27

**0-094 - Primary non-small cell lung cancer organoids retain the morphological characteristics and oncogenic drivers of the parental tumor**

Raphael S. Werner, Michaela B. Kirschner, Jae-Hwi Jang,  
Markus Rechsteiner, Isabelle Opitz  
Zurich/CH

### YANGTZE

#### SUNRISE SEMINAR 3

TUESDAY, 21 JUNE 2022 07:00 - 07:50 h •

#### YANGTZE

**Chairperson:** Gaetano Rocco (New York/US)

- Immunotherapy explained for surgeons  
Brendon Stiles (New York/US)

### ONYX

#### SUNRISE SEMINAR 4

TUESDAY, 21 JUNE 2022 07:00 - 07:50 h •

#### ONYX

**Chairperson:** Clemens Aigner (Essen/DE)

- Tracheoesophageal fistula - Update on stents and aggressive surgical management  
Gail Darling (Halifax/CA)



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## SYMPOSIUM FOR NURSES AND ALLIED HEALTH PROFESSIONALS - MONDAY 20 JUNE

### OCEANIA



#### NURSES & ALLIED HEALTH PROFESSIONALS SYMPOSIUM

MONDAY, 20 JUNE 2022 • OCEANIA

Chairpersons: Angelique Dernison (The Hague/NL)  
Tineke Lammers (The Hague/NL)

#### 09:00 - 12:00 h

09:00-09:30

Health Nurse Care Organisation

09:30-10:00

Patient Care organisation

Lidia Barberio (Urecht/NL)

10:00-10:30

Specialized Nurse and Physician Assistant role in pre and post surgery consultations: a common thread as a case manager

Roos Kraima (Amsterdam/NL)

10:30-11:00

Outpatient Care

Annemarie Beintema (Amsterdam/NL)

11:00-11:30

30 Update on Prehabilitation projects

Sandra Beijer (Utrecht/NL)

11:30-11:40

Psychosocial support

Helen Sijm (Hoom/NL)

Nel Kleverlaan (Utrecht/NL)

#### 12:00 - 13:30 h

Break

#### 13:30 - 15:00 h

ABSTRACT SESSION

Chairperson: Angelique Dernison (The Hague/NL)

Award: Best Abstract 500 euros award

13:30-13:40

**N-001** -What's going on after hospital? Exploring the transition from hospital to home and patient experiences of nurse-led follow-up phone calls  
Pernille Orloff Donsel (Copenhagen/DK)

13:40-13:50

**N-002** -Assessment of changes in postoperative nursing care as part of an enhanced recovery protocol for esophagectomy: successes and pitfalls  
Eveline Gijbels (Leuven/BE)

13:50-14:00

**N-003** -The impact of smoking cessation during the perioperative trajectory for lung cancer on postoperative complications, los and mortality  
Julie Madsen (Copenhagen/DK)

14:00-14:10

**N-004** -A radical change: a qualitative study of patient experiences of eating and daily life in the first year after oesophageal resection  
Malene Missel (Copenhagen/DK)

14:10-14:20

**N-005** -Evaluation of patient satisfaction with an enhanced recovery protocol (erp) for esophagectomy: a con current quantitative and qualitative analysis.  
Johnny Moons (Leuven/BE)

14:20-14:30

**N-006** -Enhanced recovery protocol (erp) in early-stage lung tumors operated through minimally invasive access.  
Johnny Moons (Leuven/BE)

14:30-14:40

**N-007** -Chaos or calm: Coping with intraoperative pulmonary artery injuries  
Megan Schmidt (Calgary/CA)

Presentation of Award for Best Abstract



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## SYMPOSIUM FOR NURSES AND ALLIED HEALTH PROFESSIONALS - MONDAY 20 JUNE

### OCEANIA

#### PRACTICAL SESSION FOR NURSES & ALLIED HEALTH PROFESSIONALS

MONDAY, 20 JUNE 2022

OCEANIA FOYER

15:00 - 17:30 h

#### WORKSHOPS

- Line sepsis / infection prevention
- PICC lines
- Instruments for operation
- Chest drain management
- Wound management
- Infusion lines
- Nutrition



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## SYMPOSIUM FOR NURSES AND ALLIED HEALTH PROFESSIONALS - TUESDAY 21 JUNE

**HOSPITAL TOUR IN THE HAGA ZKH**  
TUESDAY 21 JUNE 2022 10:00-12:00 h



Meeting for group departure 09:30 h  
Registration Area, The World Forum



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## PRIZES AND AWARDS

The following prizes will be awarded:

- **ESTS – Brompton Prize – 2000 EUR**

The Brompton Prize is offered for the best thoracic presentation by an ESTS member, first author at the Brompton Session and comes courtesy of the Trustees of the fund initiated by Professor Peter Goldstraw. It is an annual prize instituted at the 8th European Conference on General Thoracic Surgery held in London November 2000.

The winner will be asked to give a one minute summary without slides of their study during the award ceremony at the ESTS Party.

- **ESTS – Young Investigator Award – 2000 EUR**

To stimulate research/ESTS has instituted a prize for the best presentation on topics of clinical or experimental research in the field of thoracic surgery by an ESTS member below the age of 35.

The winner will be asked to give a one minute summary without slides of their study during the award ceremony at the ESTS Party.

- **ESTS-AATS Foundation Excellence Award – 2000 EUR**

This prize is offered by the AATS Foundation and awarded for the best overall scientific contribution in Pulmonary Neoplastic I / Pulmonary Neoplastic II sessions

- **ESTS – Grillo Prize – 1000 EUR**

The prize is offered to the best overall abstract in the sessions “Experimental/Innovative Techniques I / Experimental Innovative Techniques II” and is named after our deceased honorary member Hermes Grillo (Boston). The prize was initially awarded in 2009 by Professor Douglas Mathisen of the Massachusetts General Hospital, a colleague and friend of Professor Hermes Grillo.

- **ESTS- JACS Award - 1000 EUR**

This prize is offered to the best abstract by an ESTS member from an Asian Institute.

- **ESTS – Poster Prize – 500 EUR**

This prize is offered for the best poster presentation

- **ESTS – Junior Poster Prize**

Complimentary registration to the 31st European Conference on General Thoracic Surgery, 2023.

This prize is offered for the best poster presentation

- **ESTS – Dutch Society for Lung Surgery Travel Grant – 1000 EUR**

This grant is offered by the Dutch Society for Lung Surgery and was created to support a young abstract presenter from a low-middle income country.

- **ESTS – DGT Travel Grant – 1000 EUR**

This grant is offered by the Deutsche Gesellschaft für Thoraxchirurgie (DGT) and was created to support a member of ESTS from a low- to middle-income-country, who is below the age of 40 and is the first author of an abstract.

- **ESTS – FSTCVS Travel Grant – 1000 EUR**

This grant is offered by the French Society for Thoracic and Cardiovascular Surgery. It will be offered to the best oral presentation of clinical work by an author below the age of 35 from a low-middle income country.

- **ESTS Biology Club**



ESTS Fellowship Award - a research fellowship award offered to young scientists and clinicians.

- **SYMPOSIUM FOR NURSES**

Prize award session: Best Abstract 500 euros award



# POSTERS

## POSTERS

**P-026 - IMPACT OF THE INTERNATIONAL ASSOCIATION FOR THE STUDY OF LUNG CANCER (IASLC) PROPOSED GRADING SYSTEM IN SELECTING SUBLOBAR RESECTION VERSUS LOBECTOMY FOR CLINICAL STAGE IA LUNG ADENOCARCINOMA**

Jiani Gao, Shengnan Zhao  
Shanghai/CN

**P-027 - DEVELOPMENT AND VALIDATION OF A WEB-BASED DYNAMIC NOMOGRAM PREDICTIVE OF OVERALL SURVIVAL IN PATIENTS WHO UNDERWENT PNEUMONECTOMY FOR LUNG CANCER**

Xiangyang Yu<sup>1</sup>, Lanjun Zhang<sup>2</sup>, Xiaotong Guo<sup>1</sup>, Kai Ma<sup>1</sup>, Zhentao Yu<sup>1</sup>  
<sup>1</sup> Shenzhen/CN, <sup>2</sup>Guangzhou/CN

**P-028 - IMPACT OF A GROUND-GLASS OPACITY COMPONENT FOR C-STAGE IA LUNG ADENOCARCINOMA FROM THE CHINESE PERSPECTIVE**

Ming Li, Junjie Xi, Cheng Zhan, Mingxiang Feng, Qun Wang  
Shanghai/CN

**P-029 - SQUAMOUS CELL CARCINOMA COMPONENT MAY BE A WORSE PROGNOSTIC FACTOR FOR COMBINED SMALL-CELL LUNG CARCINOMA AFTER SURGICAL RESECTION**

Masahiro Yanagiya, Yoshiaki Furuhashi, Noriko Hiyama, Kento Fukumoto, Ami Wada, Jun Matsumoto, Jun Nakajima  
Tokyo/JP

**P-030 - CD271 COULD SERVE AS A PROGNOSTIC MARKER IN EARLY-STAGE NON-SMALL CELL LUNG CANCER**

Keiko Ueda, Yoko Kataoka, Yo Kawaguchi, Yasuhiko Ohshio, Jun Hanaoka  
Shiga/JP

**P-031 - PROGNOSTIC SIGNIFICANCE OF PATHOLOGIC LEPIDIC COMPONENT IN STAGE IA LUNG ADENOCARCINOMA**

Woohyun Jung, Joonseok Lee, Jae Hyun Jeon, Beatrice Chia-Hui Shih, Yoohwa Hwang, Sukki Cho, Kwahnmien Kim, Sanghoon Jheon  
Seoul/KR

**P-032 - THE IMPACT PREDICTOR OF ATELECTASIS AFTER LOBECTOMY**

Hironori Ishibashi, Yuri Sumi, Ryosuke Kumagai, Yasuyuki Kurihara, Shunichi Baba, Katsutoshi Seto, Ryo Wakejima, Kenichi Okubo  
Tokyo/JP

**P-033 - WEDGE RESECTION VERSUS STEREOTACTIC BODY RADIATION THERAPY FOR STAGE I NON-SMALL CELL LUNG CANCER: A SYSTEMATIC REVIEW AND META-ANALYSIS**

Lei Peng, Kai-Li Huang, Han-Yu Deng  
Chengdu/CN

**P-034 - LYMPH NODE DISSECTION AFTER NEOADJUVANT THERAPY FOR ESOPHAGEAL SQUAMOUS CELL CARCINOMA: HOW MANY IS ENOUGH?**

Feng Li, Peng Zhang, Yu Qi, Song Zhao  
Zhengzhou/CN

**P-035 - OPTIMAL TREATMENT REGIMEN FOR POSTOPERATIVE LEAKAGE AFTER ESOPHAGECTOMY: A HISTORICAL COMPARISON OF ENDOSCOPIC VACUUM THERAPY (EVT) AND OTHER REGIMENS**

Joonseok Lee, Woohyun Jung, Jae Hyun Jeon, Beatrice Chia-Hui Shih, Yoohwa Hwang, Sukki Cho, Kwahnmien Kim, Sanghoon Jheon  
Seoul/KR

WITHDRAWN

**P-036 - SURGICAL SALVAGE POST DEFINITIVE CHEMORADIATION IN ESOPHAGEAL CANCER: IS IT WORTH THE RISK?**

Virendra Kumar Tiwari, George Karimundackal, Tejpratap Singh, Devayani Niyogi, Sabita Jiwnani, C S Pramesh  
Mumbai/IN

**P-037 - VIDEO MEDIASTINOSCOPY IN THE ERA OF ENDOBRONCHIAL ULTRASOUND (EBUS) - STILL ESSENTIAL, EXPERIENCE FROM A TEACHING INSTITUTE**

George Karimundackal, Srinivas Kodaganur Gopinath, Virendra Kumar Tiwari, Devayani Madhav Niyogi, Sabita Jiwnani, Pramesh Cs  
Mumbai/IN

**P-038 - A NOVEL LONG NON-CODING RNA LOC100507002 ACCELERATES THE DEVELOPMENT AND PROGRESSION OF ESOPHAGEAL SQUAMOUS CELL CARCINOMA BY TARGETING MIR-6785-5P/NRSN2 AXIS**

Songtao Xue, Bin Zheng, Shiqiang Cao, Chun Chen  
Fuzhou/CN



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## POSTERS

### P-039 - INTRAOPERATIVE CONE-BEAM COMPUTED TOMOGRAPHY (CT) IMAGING FOR PERIPHERAL SMALL PULMONARY NODULES

Yuichi Saito<sup>1,2</sup>, Tomohiro Watanabe<sup>1</sup>, Yasuyuki Kanamoto<sup>1</sup>, Fumi Yokote<sup>1</sup>, Hitoshi Dejima<sup>1</sup>, Yoshikane Yamauchi<sup>1</sup>, Nobumasa Takahashi<sup>2</sup>, Yukinori Sakao<sup>1</sup>, Masafumi Kawamura<sup>1</sup>  
<sup>1</sup>Tokyo/JP, <sup>2</sup>Saitama/JP

### P-040 - CLINICOPATHOLOGICAL FACTORS AFFECT THE PERFORMANCE OF LUNG CANCER NODULES NEAR-INFRARED FLUORESCENCE IMAGING

Jiahui Mi, Guanchao Jiang, Fan Yang, Jian Zhou  
Beijing/CN

### WITHDRAWN P-041 - PERIOPERATIVE OUTCOMES OF LOCALLY ADVANCED NON-SMALL CELL LUNG CANCER (NSCLC) PATIENTS UNDERWENT PD-1 INHIBITOR PLUS CHEMOTHERAPY AS INDUCTION THERAPY

Xin Wang, Jintao He  
Chengdu/CN

### P-042 - PREDICTION OF PULMONARY METASTASIS IN ESOPHAGEAL CARCINOMA PATIENTS WITH INDETERMINATE PULMONARY NODULES

Maohui Chen  
Fuzhou/CN

### P-043 - ASSOCIATION BETWEEN HLA CLASS II EPLET MISMATCH AND DE NOVO DONOR-SPECIFIC ANTIBODY OR CLINICAL ANTIBODY-MEDIATED REJECTION AFTER DECEASED-DONOR LUNG TRANSPLANTATION

Ryo Fujimoto, Satona Tanaka, Hidenao Kayawake, Yoshito Yamada, Yojiro Yutaka, Akihiro Ohsumi, Daisuke Nakajima, Masatsugu Hamaji, Hiroshi Date  
Kyoto/JP

### WITHDRAWN P-044 - LEFT THORACOABDOMINAL APPROACH (LTA) FOR GASTRO-ESOPHAGEAL JUNCTION (GEJ) TUMORS WITH SIGNIFICANT STOMACH AND ESOPHAGEAL INVOLVEMENT - PERIOPERATIVE AND ONCOLOGICAL OUTCOMES

Saiesh Reddy Voppuru, Devayani Niyogi, Virendra Kumar Tripathi, Sabita Jiwnani, George Karimundackal, Pramesh C S  
Mumbai/IN

### WITHDRAWN P-045 - CHANGES IN QUALITY OF LIFE OF PATIENTS UNDERGOING LUNG RESECTION FOR POST TUBERCULOSIS SEQUELAE” - A PROSPECTIVE FOLLOW UP ANALYSIS AT TERTIARY CARE CENTRE

Kanishka Siddhartha, Ravindra Kumar Dewan, Pallavi Purwar, Saraansh Bansal, Rama Phanindra  
New Delhi/IN

### P-046- THE EFFECT OF LYMPHATIC INVASION ON SURVIVAL IN EARLY STAGE PRIMARY LUNG CANCER

Kadir Burak Özer, Ömer Yavuz, Ekin Ezgi Cesur, Suat Erus, Serhan Tanju, Sükrü Dilege  
Istanbul/TR

### P-047 - MULTIPORTAL VIDEO-ASSISTED THORACOSCOPIC LOBECTOMY WITH NEW MULTI-JOINT WRISTED INSTRUMENTS: NINE MONTHS EXPERIENCE

Alexander Kern, Vera Froebel, Andreas Friedrich, Steffen Drewes  
Coswig/DE

### WITHDRAWN P-048 - IS THERE A ROLE FOR MEDIASTINAL LYMPH NODE DISSECTION IN PULMONARY CARCINOIDS?

Swarnim Thakur, Devayani Madhav Niyogi, George Karimundackal, Virendra Kumar Tiwari, Sabita Jiwnani, Pramesh Cs  
Mumbai/IN

### P-049 - BIOLOGICAL FUNCTION OF A TUMOR-PROMOTING CIRCULAR RNA, CIRCME1, IN ESOPHAGEAL SQUAMOUS CELL CARCINOMA

Shiqiang Cao, Bin Zheng, Songtao Xue, Jianting Du, Chun Chen  
Fuzhou/CN

### P-050 - DOES ROBOTIC ASSISTED LUNG RESECTION FOR LUNG CANCER PROVIDE ADVANTAGES IN HIGH-RISK PATIENTS COMPARED TO VIDEO ASSISTED THORACOSCOPIC SURGERY (VATS)?

Alessandro Maraschi, Andrea Billè  
London/UK

## POSTERS

**P-051 - ACUTE RESPIRATORY DISTRESS SYNDROM (ARDS) PATIENTS WITH EXTRACORPOREAL MEMBRANE OXYGENATION (ECMO) DURING SARS-COV-2 PANDEMIC: IS THERE A TIME-TREND?**

Charlotte Ponte, Marion Villard, Marc Puyraveau, Anne Olland, Pierre-Emmanuel Falcoz  
Strasbourg/FR

**P-052 - RISK FACTORS IN TREATMENT OF DESCENDING NECROTIZING MEDIASTITIS: MULTICENTER EXPERIENCE**

Angela De Palma<sup>1</sup>, Nicoletta Pia Ardò<sup>2</sup>, Mirko Girolamo Cantatore<sup>1</sup>, Maria Teresa Bevilacqua<sup>1</sup>, Francesca Signore<sup>1</sup>, Teodora Panza<sup>1</sup>, Domenico Loizzi<sup>2</sup>, Giulia Pacella<sup>2</sup>, Rosatea Quercia<sup>1</sup>, Giuseppe Garofalo<sup>1</sup>, Ondina Pizzuto<sup>1</sup>, Francesco Sollitto<sup>2</sup>, Giulia De Iaco<sup>1</sup>, Debora Brascia<sup>1</sup>, Giuseppe Marulli<sup>1</sup>  
<sup>1</sup> Bari/IT, <sup>2</sup> Foggia/IT

**P-053 - PREOPERATIVE PREDICTION OF VISCERAL PLEURAL INVASION IN NON-SMALL CELL LUNG CANCER**

Takashi Kusu<sup>1</sup>, Kensuke Minami<sup>1</sup>, Satoshi Nagaoka<sup>1</sup>, Rie Nakatsuka<sup>1</sup>, Masaki Hirota<sup>1</sup>, Takashi Matsumoto<sup>1</sup>, Yoichi Makari<sup>1</sup>, Hiroyoshi Takemoto<sup>1</sup>, Satoshi Oshima<sup>1</sup>, Takashi Iwazawa<sup>2</sup>  
<sup>1</sup> Itami/JP, <sup>2</sup> Toyonaka/JP

**P-054- SAFETY ANALYSIS IN SUBLOBAR RESECTIONS IN A MULTICENTER PROSPECTIVE REGISTER OF 360 CASES**

Carlos Galvez<sup>1</sup>, Sergio Bolufer<sup>1</sup>, Juan Manuel Corcoles<sup>2</sup>, Jose Luis Recuero<sup>3</sup>, Laura Socci<sup>4</sup>, Alberto Cabañero<sup>5</sup>, Iker Lopez<sup>6</sup>, David Sanchez<sup>7</sup>, Santiago Figueroa<sup>8</sup>, Francisco Lirio<sup>1</sup>  
<sup>1</sup> Alicante/ES, <sup>2</sup> Elche/ES, <sup>3</sup> Zaragoza/ES, <sup>4</sup> Sheffield/UK, <sup>5</sup> Madrid/ES, <sup>6</sup> San Sebastian/ES, <sup>7</sup> Barcelona/ES, <sup>8</sup> Valencia/ES

**P-055 - PHOTODYNAMIC THERAPY RELIEVES TUMOR VASCULAR ANERGY AND PROMOTES IMMUNE CELL TRAFFICKING IN AN ORTHOTOPIC MOUSE MODEL OF MALIGNANT PLEURAL MESOTHELIOMA**

Louis-Emmanuel Chriqui<sup>1</sup>, Yameng Hao<sup>2</sup>, Matteo Edouardo Ortolini<sup>1</sup>, Christophe Gattlen<sup>1</sup>, Michel Gonzalez<sup>1,3</sup>, Thorsten Krueger<sup>1,3</sup>, Jean-Yannis Perentes<sup>1,3</sup>, Sabrina Cavin<sup>1</sup>  
<sup>1</sup> Lausanne/CH <sup>2</sup> Lausanne/CH <sup>3</sup> Lausanne/CH

**P-056 - STRUCTURED USE OF AND AUDIT & FEEDBACK (A&F) SYSTEM: THE WAY TO ACHIEVE HIGH LEVELS OF PROTOCOL ADHERENCE (=80%) IN THE ENHANCED RECOVERY AFTER THORACIC SURGERY (ERATS)-TRIAL? – PRELIMINARY RESULTS**

Diederik Van Oyen, Rosaline Van Den Berg, Geertruid Marres, Erik Von Meyenfeldt  
Dordrecht/NE

**P-057 - IS THE FISSURELESS TECHNIQUE SAFE AND PREFERABLE IN THORACOSCOPIC LOWER LOBECTOMIES? COMPARATIVE ANALYSIS OF 254 CASES**

Kadir Burak Özer, Ekin Ezgi Cesur, Ömer Yavuz, Suat Erus, Serhan Tanju, Sükrü Dilege  
Istanbul/TR

**P-058 - TRANSBRONCHIAL LUNG CRYOBIOPSY AND SURGICAL LUNG BIOPSY IN THE SAME ACT FOR DIAGNOSIS OF INTERSTITIAL LUNG DISEASE**

Alejandra Liberos, Marc Boada, Fernanda Hernandez, Angela Guirao, David Sanchez-Lorente, Carlos Agustí, Carmen Lucena, Daniel Martinez, José Ramirez, Rudith Guzman, Carlos Guerrero, Leandro Grando, Pablo Paglialunga, Nestor Quiroga, Jacobo Sellares, Laureano Molins  
Barcelona/ES

**P-059 - DIABETES MELLITES IS ASSOCIATED WITH POOR SHORT AND LONG-TERM OUTCOME AFTER LUNG RESECTION**

Mohamed Salama, Michael Mueller  
Vienna/AT

**P-060 - COULD MICRO-COMPUTED (CT) BE A NEW AND NON-DESTRUCTIVE METHOD TO DIFFERENTIATION OF TUMORAL AND NON-TUMORAL REGIONS IN PARAFFIN EMBEDDED TISSUE BLOCKS OF THE MEDIASTINAL LYMPH NODES OF PATIENTS WITH OPERATED NON SMALL CELL LUNG CANCER (NSCLC)? A PILOT STUDY FOR METHOD VALIDATION**

Ayten Kayi Cangir, Kaan Orhan, Süleyman Gökcalp Günes, Hilal Özakinci, Yusuf Kahya, Duru Karasoy, Gökhan Kocaman, Serpil Dizbay Sak  
Ankara/TR

**P-061 - RESULTS OF SURGERY VERSUS STEREOTACTIC BODY RADIOTHERAPY FOR EARLY-STAGE OF LUNG CANCER - A RETROSPECTIVE STUDY**

Rita Costa, Fátima Aires, Darlene Rodrigues, Anita Paiva, José Máximo, João Maciel, Margarida Marques, Pedro Fernandes, Paulo Pinho  
Porto/PT



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## POSTERS

### **P-062 - THE IMPORTANCE OF TUMOR MARKERS IN PATIENTS UNDERGOING RESECTION FOR LUNG METASTASIS OF COLORECTAL CARCINOMA**

Gizem Kececi Ozgur, Ahmet Kayahan Tekneci, Tevfik Ilker Akcam, Ayse Gul Ergonul, Ali Ozdil, Kutsal Turhan, Alpaslan Cakan, Ufuk Cagirci  
Izmir/TR

### **P-063 - MICROMETASTASIS DETECTION OF DIFFERENT REGIONS OF LEFT RECURRENT LARYNGEAL NERVE PARA-LYMPH NODES IN ESOPHAGEAL SQUAMOUS CELL CARCINOMA WITH CYTOKERATIN 19**

Guanglei Huang, Bin Zheng, Chun Chen  
Fuzhou/CN

### **P-064 - COMPARISON OF CONVENTIONAL CULTURE CONTAINERS AND BACTEC BLOOD CULTURE MEDIA METHODS FOR DETECTION OF BACTERIAL MICROORGANISM IN EMPYEMA**

Dilvin Özkan, Ismail Tombul, Tarik Arslan, Muhammet Sayan, Ali Celik, Ismail Cuneyt Kurul  
Ankara/TR

### **P-065 - MIR-1301-3P IS A POTENTIAL PROGNOSTIC BIOMARKER FOR ESOPHAGEAL CARCINOMA AND ACTS BY DOWNREGULATING NBL1 EXPRESSION**

Jianting Du, Bin Zheng, Shi-Qiang Cao, Chun Chen  
Fuzhou/CN

### **P-066 - TRACHEOBRONCHOPLASTY RESULTS WITH RINGED POLYTETRAFLUOROETHYLENE VASCULAR GRAFT**

Rocio Castillo-Larios, Daniel Hernandez-Rojas, Alejandra Yu Lee-Mateus, Sai Priyanka Pulipaka, Kenneth R Dye, Sebastian Fernandez-Bussy, Ian Andrew Makey  
Jacksonville/US

### **P-067 - COMPLICATIONS OF PLEURAL SPACE AFTER VIDEO-ASSISTED THORACIC SURGERY LOBECTOMY FOR LUNG CANCER: DOES THE SITE OF THE CHEST DRAIN REALLY MATTER?**

Alice Bellini, Sara Sterrantino, Sara Mazzarra, Stefano Congiu, Desideria Argnani, Beatrice Aramini, Franco Stella  
Forlì/IT

### **P-068 - NEOADJUVANT CHEMOTHERAPY OR CHEMORADIOTHERAPY FOLLOWED BY MINIMALLY INVASIVE ESOPHAGECTOMY IN PATIENTS WITH ESOPHAGEAL CANCER: DOES ADJUVANT CHEMOTHERAPY MATTER?**

Peng Zhang, Feng Li, Yu Qi, Song Zhao  
Zheng Zhou/CN

### **P-069 - SURGERY FOR TRACHEOESOPHAGEAL FISTULA, A 25-YEAR EXPERIENCE**

Marco Mammana, Chiara Catelli, Andrea Dell'Amore, Demetrio Pittarello, Eugenio Serra, Paolo Navalesi, Federico Rea  
Padua/IT

### **P-070 - INFLUENCE OF THE SURGEONS' SENIORITY IN PREVENTION OF PROLONGED AIR LEAKS AFTER VIDEO ASSISTED THORACOSCOPIC SURGERY (VATS) LOBECTOMY FOR LUNG CANCER AND IN QUALITY-OF-LIFE OF PATIENTS**

Luca Bertolaccini<sup>1</sup>, Oriana Ciani<sup>2</sup>, Elena Prisciandaro<sup>1</sup>, Marco Lucchi<sup>3</sup>, Stefano Margaritora<sup>4</sup>, Francesco Zaraca<sup>5</sup>, Rosanna Tarricone<sup>2</sup>, Roberto Crisci<sup>6</sup>, Lorenzo Spaggiari<sup>1</sup>  
<sup>1</sup> Milan/IT, <sup>2</sup> Milan/IT, <sup>3</sup> Pisa/IT, <sup>4</sup> Rome/IT, <sup>5</sup> Bozen-Bolzano/IT, <sup>6</sup> Teramo/IT

### **P-071 - PNEUMOMEDIASTINUM IN ACUTE RESPIRATORY DISTRESS SYNDROME (ARDS): WHAT IS IMPORTANT TO THE THORACIC SURGEON?**

Paulo Henrique Peitl Gregorio, Alessandro Wasum Mariani, João Marcelo Lopes Toscano Brito, Patricio Javier Ulloa Ojeda, Isabele Alves Chirichela, Ricardo Mingarini Terra, Paulo Manuel Pêgo-Fernandes  
São Paulo/BR

### **P-072 - THORACOSCOPIC COMPLEX SEGMENTECTOMY HAS EQUIVALENT EARLY POST-OPERATIVE OUTCOMES THAN SIMPLE SEGMENTECTOMY**

Stefano Bongiolatti, Rossella Giorgia Indino, Alberto Salvicchi, Alessandro Gonfiotti, Domenico Viggiano, Luca Voltolini  
Firenze/IT

### **P-073 - ESTABLISHMENT OF A THREE-DIMENSIONAL (3D) HUMAN LUNG CANCER MODEL FOR TRANSLATIONAL ONCOLOGIC RESEARCH**

Hailong Wang, Thorsten Walles, Cornelia Wiese-Rischke  
Magdeburg/DE



## POSTERS

### **P-074 - THERAPEUTIC STRATEGIES FOR LUNG CANCER WITH INTERSTITIAL PNEUMONIA -INSIGHTS FROM PERIOPERATIVE OUTCOMES**

Tomohiro Yazawa, Toshiki Yajima, Yoichi Ohtaki, Kai Obayashi, Seshiru Nakazawa, Natsuko Kawatani, Ryohei Yoshikawa, Ken Shirabe  
Maebashi/JP

### **P-075 - COMPLICATIONS DO NOT AFFECT QUALITY OF LIFE (QOL) AFTER THE NUSS PROCEDURE WITH TWO BARS FOR PECTUS EXCAVATUM (PE)**

Alessio Campisi, Cecilia Pompili, Riccardo Giovannetti, Giovanni Falezza, Cinzia Bonadiman, Paola Gandini, Alessandro Lonardoni, Maurizio Valentino Infante  
Verona/IT

### **P-076- CREATING A CONSENSUS IN THE PERIOPERATIVE CARE FOR PECTUS EXCAVATUM; AN EXPERT-LED MODIFIED DELPHI SURVEY**

Elise J Van Polen<sup>1</sup>, Nicky Janssen<sup>2</sup>, Jean Ht Daemen<sup>2</sup>, Karel We Hulsewé<sup>2</sup>, Yvonne Lj Vissers<sup>2</sup>, Erik R De Loos<sup>2</sup>  
<sup>1</sup> Maastricht/NL, <sup>2</sup> Heerlen/NL

### **P-077 - EVOLUTION OF A MINIMALLY INVASIVE ESOPHAGECTOMY PROGRAM: NUMBERS OR COMPLICATION MANAGEMENT?**

Çağatay Çetinkaya, Sezer Aslan, Zeynep Bilgi, Hasan Fevzi Batirel  
Istanbul/TR

### **P-078- SUBXIPHOID APPROACH WITH A NEW STERNUM HOOK RETRACTOR FOR ANTERIOR MEDIASTINAL TUMOR IS SAFE AND FEASIBLE**

Xuefei Zhang, Teng Mao, Yu Yang  
Shanghai/CN

### **P-079 - RESULTS AFTER THE NUSS PROCEDURE IN YOUNG ADULTS. A SINGLE CENTER RETROSPECTIVE PROPENSITY SCORE-MATCHED (PSM) STUDY**

Alessio Campisi, Cecilia Pompili, Riccardo Giovannetti, Giovanni Falezza, Cinzia Bonadiman, Paola Gandini, Alessandro Lonardoni, Maurizio Valentino Infante  
Verona/IT

### **P-080 - STERNAL REPLACEMENT WITH ALUMINA CERAMIC PROSTHESIS AFTER ONCOLOGICAL RESECTION**

Anaëlle Chermat, Francois Bertin, Pascal Alexandre Thomas, Jeremy Tricard  
Limoges/FR

### **P-081 - RESULTS OF DESOBSTRUCTION FOR BLIND-END TRACHEAL STENOSIS USING A HYBRID APPROACH AND PLACEMENT OF A SILICONE T TUBE**

Rafael R. Barcelos, Paulo F. G. Cardoso, Helio Minamoto, Benoit J. Bibas, Paulo M. Pego-Fernandes  
São Paulo/BR

### **P-082 - OUTCOMES AND CHARACTERISTICS OF PATIENTS WITH SECOND PRIMARY LUNG CANCER AFTER RADICAL TREATMENT**

Maria Nizami, Eleonora Farinelli, Tugba Ugur, Leanne Ashrafian, John Pilling  
London/UK

### **P-083 - SALVAGE RESECTION FOR LOCAL FAILURE AFTER STEREOTACTIC ABLATIVE RADIOTHERAPY FOR PULMONARY MALIGNANCIES**

Eunchae Kim  
Seoul/KR

### **P-084 - ROLE OF LUNG SURGERY AS INTEGRATED TREATMENT IN METASTATIC MELANOMA**

Diomira Tabacco, Dania Nachira, Elisa Meacci, Maria Teresa Congedo, Maria Letizia Vita, Marco Chiappetta, Leonardo Petracca Ciavarella, Carolina Sassorossi, Stefano Margaritora  
Rome/IT

### **P-085 - COMPUTED TOMOGRAPHY (CT)-GUIDED PERCUTANEOUS LABELING OF SMALL PULMONARY NODULES IS VERY ACCURATE AND ALLOWS MINIMALLY INVASIVE LUNG-SPARING RESECTION**

Nikola Doncic, Makhmudbek Mallaev, Nikolay Tsvetkov, Jovan Vujic, Helga Bachmann, Aljaz Hojski, Mark Wiese, Martin Takes, Cristoph Zech, Didier Lardinois  
Basel/CH



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## POSTERS

### **P-086 - SPONTANEOUS VENTILATION COMBINED WITH DOUBLE LUMEN TUBE INTUBATION. THE FIRST 100 THORACIC SURGICAL CASES**

József Furak<sup>1</sup>, Tibor Németh<sup>1</sup>, Tibor Géczi<sup>1</sup>, Zsanett Barta<sup>1</sup>, Balázs Pécsy<sup>1</sup>, Judit Lantos<sup>2</sup>, György Lázár<sup>1</sup>, Zsolt Szabó<sup>1</sup>  
<sup>1</sup> Szeged/HU <sup>2</sup> Kecskemét/HU

### **P-087 - VERY LONG-TERM CONSEQUENCES OF CONSERVATIVELY TREATED BLUNT THORACIC TRAUMA**

Indy Kelderman, Wietse P. Zuidema  
Amsterdam/NL

### **P-088 - ROBOTIC ASSISTED FIRST RIB RESECTION FOR THORACIC OUTLET SYNDROME**

Filipe Luis Azenha<sup>1</sup>, Peter Kestenholz<sup>1</sup>, Konstantinos Gioutsos<sup>2</sup>, Gregor J Kocher<sup>2</sup>, Fabrizio Minervini<sup>1</sup>  
<sup>1</sup> Lucerne/CH, <sup>2</sup> Bern/CH

### **P-089 - SURGICAL OUTCOMES IN PATIENTS RECEIVING IMMUNOTHERAPY TREATMENT FOR NON-SMALL CELL LUNG CANCER**

Hüseyin Melek, Gizem Gedikoglu Pirim, Ahmet Bilgehan sahin, Tolga Evrim Sevinç, Ahmet Sami Bayram, Türkkhan Evrensel, Cengiz Gebitekin  
Bursa/TR

### **P-090 - IS IMMUNOTHERAPY SAFE IN NEOADJUVANT THERAPY MODALITY?**

Ekin Ezgi Cesur, Ömer Yavuz, Kadir Burak Özer, Suat Erus, Serhan Tanju, Sükrü Dilege  
Istanbul/TR

### **P-091 - HOW TO DISTINGUISH THORACIC AND CERVICAL LYMPH NODES DURING MINIMALLY INVASIVE ESOPHAGECTOMY**

Taidui Zeng, Bin Zheng  
Fuzhou/CN

### **P-092 - EFFICACY AND SAFETY OF RETHYMECTOMY IN PATIENTS WITH REFRACTORY MYASTHENIA GRAVIS**

Oleg Pikin, Andrey Ryabov, Vitaliy Barmin, Oleg Alexandrov, Nataliya Scherbakova, Zavir Salimov, Dina Martynova  
Moscow/RU

### **P-093 - DIAGNOSTIC CRITERIA OF EARLY POSTOPERATIVE PNEUMONIA AND ITS RISK FACTORS AFTER LUNG CANCER SURGERY**

Sacha Evan, Marco Stefano Demarchi, Raoul Schorer, Frédéric Triponez, Wolfram Karenovics, Benoît Bédat  
Genève/CH

### **P-094 - INTRODUCTION OF LUNG CANCER SCREENING AND THE IMPACT ON THORACIC SURGERY DURING THE CORONAVIRUS-19 (COVID-19) PANDEMIC**

Rachel Jayne Chubsey<sup>1</sup>, Georgios Tsaknis<sup>2</sup>, Sridhar Rathinam<sup>1</sup>  
<sup>1</sup> Leicester/UK, <sup>2</sup> Kettering/UK

### **P-095 - TREATMENT STRATEGY AND SURGICAL APPROACH IN THORACIC ENDOMETRIOSIS**

Quirijn Tummers, Wolter Oosterhuis  
The Hague/NL

### **P-096 - A GENDER-SPECIFIC APPROACH IN LUNG CANCER SURGERY IN THE ERA OF DIAGNOSTIC AND THERAPEUTIC MULTIDISCIPLINARITY**

Ilaria Potenza<sup>1</sup>, Nicola Tamburini<sup>2</sup>, Giulia Faccioli De Giorgio<sup>2</sup>, Pio Maniscalco<sup>2</sup>, Francesco Quarantotto<sup>2</sup>, Francesco Dolcetti<sup>1</sup>, Giorgio Cavallesco<sup>2</sup>  
<sup>1</sup> Modena/IT, <sup>2</sup> Ferrara/IT

WITHDRAWN

### **P-097 - NEUROENDOCRINE TUMORS OF THE LUNG BETWEEN NEW PATHOLOGICAL CRITERIA AND NEW DIAGNOSTIC AND THERAPEUTIC PERSPECTIVES. SURVIVAL ANALYSIS AFTER SURGICAL TREATMENT**

Elisa Carla Fontana, Pier Luigi Filosso, Xingyu Zhou, Filippo Terrando, Matteo Roffinella, Paolo Olivo Lausi, Diana Sporic, Samanta Nicosia, Enrico Ruffini  
Torino/IT

### **P-098 - CAN NEOADJUVANT THERAPY INCREASE THE FREQUENCY OF VIDEO ASSISTED THORACOSCOPIC SURGERY (VATS) LOBECTOMY IN PATIENTS WITH LOCALLY ADVANCED LUNG CANCER?**

Hüseyin Melek, Tolga Evrim Sevinç, Elçin Süleymanoglu, Gizem Gedikoglu Pirim, Ahmet Sami bayram, Cengiz Gebitekin  
Bursa/TR

## POSTERS

### **P-099 - SURGICAL MANAGEMENT OF CORONAVIRUS-19 (COVID-19) RELATED PNEUMOTHORAX: INSIGHTS FROM STHOR-COV-2 TRIAL**

Federico Raveglia<sup>1</sup>, Marco Scarci<sup>1</sup>, Riccardo Orlandi<sup>1</sup>, Arianna Rimessi<sup>1</sup>, Paola Rebora<sup>2</sup>, Enrico Cassina<sup>1</sup>, Enrico Ruffini<sup>3</sup>, Mauro Benvenuti<sup>4</sup>, Giuseppe Cardillo<sup>5</sup>, Davide Patrini<sup>6</sup>, Fernando Vannucci<sup>7</sup>, Nasser Yussuf<sup>8</sup>, Pramoj Jandal<sup>9</sup>, Robert Cerfolio<sup>10</sup>  
<sup>1</sup> Monza/IT <sup>2</sup> Monza/IT, <sup>3</sup> Torino/IT, <sup>4</sup> Brescia/IT, <sup>5</sup> Rome/IT, <sup>6</sup> London/UK, <sup>7</sup> Rio de Janeiro/BR, <sup>8</sup> Kochi/IN, <sup>9</sup> New Delhi/IN, <sup>10</sup> New York/US

### **P-100 - MIR-6077 PROMOTES CISPLATIN/PEMETREXED RESISTANCE IN LUNG ADENOCARCINOMA BY TARGETING CDKN1A/CELL CYCLE ARREST AND KEAP1/FERROPTOSIS PATHWAYS**

Guoshu Bi, Jiaqi Liang, Mengnan Zhao, Cheng Zhan, Qun Wang  
Shanghai/CN

### **P-101 - IMPLEMENTATION OF AN ENHANCED RECOVERY PATHWAY IN LUNG RESECTION: IMPACT ON 30-DAY COMPLICATIONS, EMERGENCY ROOM CONSULTATIONS AND UNPLANNED READMISSIONS**

María Rodríguez, Lucía Milla Collado, Mercedes Álvarez Fernández, Inés M. Luque Vázquez, Ruth De La Vega Antúnez, Beatriz Gómez-Paratcha Gutiérrez, María Piñero, María Teresa Ordoñas, Cristina Criado Tamayo, María Aymerich  
Madrid/ES

### **P-102 - DESCENDING NECROTIZING MEDIASTITIS: A PROPOSAL FOR A NEW SURGICAL STRATEGY ADOPTING MEDIASTINAL VACUUM-ASSISTED CLOSURE THERAPY**

Eliseo Passera, Federico Raveglia, Riccardo Orlandi, Marco Scarci  
Monza/IT

### **P-103 - VARIATION IN SURGICAL PERIOPERATIVE CARE FOR PRIMARY PNEUMOTHORAX IN THE NETHERLANDS – A NATIONAL SURVEY AMONG DUTCH THORACIC SURGEONS**

Quirine C. A. Van Steenwijk, Louisa N. Spaans, David J. Heineman, Chris Dickhoff, Frank J. C. Van Den Broek  
<sup>1</sup> Veldhoven/NL, <sup>2</sup> Amsterdam/NL

### **P-104 - PROSPECTIVE FEASIBILITY STUDY OF TUBELESS THORACOSCOPIC BULLECTOMY FOR PATIENTS WITH PRIMARY SPONTANEOUS PNEUMOTHORAX**

Hitoshi Igai, Natsumi Matsuura, Kazuki Numajiri, Fumi Ohsawa, Mitsuhiro Kamiyoshihara  
Maebashi/JP

### **P-105 - OUTCOMES FROM IMPLEMENTATION OF A ROBOTIC FELLOWSHIP PROGRAM IN THORACIC SURGERY IN A TERTIARY CARDIOTHORACIC CENTRE**

Richard Galloway, Periklis Perikleous, Steven Stamenkovic  
London/UK

### **P-106 - SINGLE-STAGE LOCALIZATION AND THORACOSCOPIC REMOVAL OF PULMONARY NODULES IN A HYBRID OPERATING ROOM**

Federico Mazza, Massimiliano Venturino, Elisa Scarnecchia, Davide Turello, Enrico Peano, Alberto Balderi, Alessandro Locatelli, Giulio Melloni  
Cuneo/IT

### **P-107 - TRIPORTAL ANATOMICAL PULMONARY RESECTION WITH A NEW ROBOTIC PLATFORM (VERSIUS): EARLY EXPERIENCE**

Lorenzo Rosso, Margherita Cattaneo, Ilaria Righi, Davide Tosi, Cristina Diotti, Paolo Mendogni, Mario Nosotti  
Milano/IT

### **P-108 - LONG-TERM SURVIVAL AFTER OPEN AND THORACOSCOPIC SEGMENTECTOMY IN PATIENTS WITH STAGE IA LUNG CANCER**

Alberto Lopez Pastorini, Erich Stoelben  
Cologne/DE

### **P-109 - ROBOTIC ASSISTED MAJOR LUNG RESECTION IN ELDERLY PATIENTS: RESULTS FROM A RETROSPECTIVE STUDY**

Gianluca Perroni<sup>1,2</sup>, Pierluigi Novellis<sup>1</sup>, Edoardo Bottoni<sup>3</sup>, Elisa Dieci<sup>1</sup>, Veronica Maria Giudici<sup>3</sup>, Alberto Antonicelli<sup>1</sup>, Piergiorgio Muriana<sup>1</sup>, Marco Alloisio<sup>3,4</sup>, Giulia Veronesi<sup>1,5</sup>  
<sup>1</sup> Milan/IT, <sup>2</sup> Rome/IT, <sup>3</sup> Milan/IT, <sup>4</sup> Milan/IT, <sup>5</sup> Milan/IT

### **P-110 - PATIENT-SPECIFIC SIMULATION FOR TRACHEOBRONCHIAL RECONSTRUCTION PROCEDURES USING THREE-DIMENSIONAL OPERABLE MODELS BASED ON COMPUTED TOMOGRAPHY: A PROOF-OF-CONCEPT STUDY**

Kohei Hashimoto, Konshiro Ohmura, Naoya Iwamoto, Satoru Tamagawa, Takashi Yamamichi, Junji Ichinose, Yosuke Matsuura, Masayuki Nakao, Sakae Okumura, Mun Mingyon  
Tokyo/JP



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## POSTERS

### **P-111 - INDUCTION CHEMOTHERAPY IN LOCALLY ADVANCED NON SMALL CELL LUNG CANCER (NSCLC) UNDERGOING RADICAL SURGERY. A COMPREHENSIVE ANALYSIS OF PRE- AND POST-OPERATIVE PROGNOSTIC FACTORS**

Edoardo Zanfrini, Nicola Sarnicola, Federico Mathieu, Emanuele Addamo, Piero Paladini, Luca Luzzi  
Siena/IT

### **P-112 - NOVEL SURGICAL TECHNIQUE FOR MINIMAL INVASIVE RIBFIXATION USING NITINOL FIXATION PLATES AND VATS**

Daniel Ruig, Alexander Greeven, Pieter Van Huijstee  
Den Haag/NL

### **P-113 - THE IMPACT OF CORONAVIRUS-19 DISEASE PANDEMIC ON SURGICAL VOLUME OF A HIGH VOLUME THORACIC SURGERY UNIT AND OUTCOME**

Carolina Sassorossi, Marco Chiappetta, Dania Nachira, Filippo Lococo, Elisa Meacci, Maria Letizia Vita, Venanzio Porziella, Antonella Scopelliti, Diomira Tabacco, Maria Teresa Congedo, Stefano Margaritora  
Rome/IT

### **P-114 - IS THE USE OF DIRECT ORAL ANTICOAGULANT SAFE FOR PATIENTS AFTER NON-CARDIAC THORACIC SURGERY?**

Mari Ohkuma, Mariko Fukui, Aritoshi Hattori, Takeshi Matsunaga, Kazuya Takamochi, Kenji Suzuki  
Tokyo/JP

### **P-115 - CURRENT PRACTICE OF ROBOTIC THORACIC SURGERY WITHIN EUROPEAN SOCIETY OF THORACIC SURGEONS (ESTS) ACROSS THE GLOBE IN 2022. RESULTS OF AN OPEN SURVEY**

Shilpa Gandhi<sup>1</sup>, Joel Dunning<sup>2</sup>, Isabelle Schmitt-Opitz<sup>3</sup>, Herbert Decaluwe<sup>4</sup>, Nuria Maria Novoa<sup>5</sup>, Niccolò Daddi<sup>6</sup>, Alessandro Brunelli<sup>7</sup>, Hasan Batirel<sup>8</sup>, Guilia Veronesi<sup>9</sup>, Jean-Marc Baste<sup>10</sup>, Enrico Ruffini<sup>11</sup>

<sup>1</sup> Leicester/UK, <sup>2</sup> Middlesbrough/UK, <sup>3</sup> Zurich/CH, <sup>4</sup> Leuven/BE, <sup>5</sup> Salamanca/ES, <sup>6</sup> Bologna/IT, <sup>7</sup> Leeds/UK, <sup>8</sup> Istanbul/TR, <sup>9</sup> Milan/IT, <sup>10</sup> Rouen/FR, <sup>11</sup> Torino/IT

### **P-116 - IS THERE A DIFFERENCE IN LOCAL DISEASE CONTROL BETWEEN A VIDEO ASSISTED THORACOSCOPIC SURGERY (VATS) AND THORACOTOMY APPROACH?**

Florian Ponholzer, Clemens Schmutzhart, Caecilia Ng, Herbert Maier, Veronika Kröpfel, Paolo Lucciarini, Florian Augustin  
Innsbruck/AT

### **P-117 - PLEURAL EMPYEMA: ARE OUTCOMES AFTER OPERATIVE THERAPY DEPENDING ON SURGICAL ACCESS OR POSITIVE MICROBIOLOGICAL RESULTS?**

Hruy Menghesha, Fabian Doerr, Georg Schlachtenberger, Andres Amorin Estremadoyro, Matthias Heldwein, Thorsten Wahlers, Khosro Hekmat  
Cologne/DE

### **P-118 - RISK ANALYSIS OF POSTOPERATIVE CEREBRAL INFARCTION AND ASSESSMENT OF THE PREVENTIVE PROCEDURE FOR LUNG CANCER PATIENT UNDERGOING SURGERY**

Natsumi Maru, Haruaki Hino, Takahiro Utsumi, Hiroshi Matsui, Yohei Taniguchi, Tomohito Saito, Tomohiro Murakawa  
Hirakata/JP

### **P-119 - A MULTI-YEAR, SINGLE SURGEON EXPERIENCE WITH ROBOT-ASSISTED THORACOSCOPIC SURGERY: COMPARING OUTCOMES BETWEEN THE DA VINCI SI AND XI SURGICAL SYSTEMS**

Richard Galloway, Periklis Perikleous, Steven Stamenkovic  
London/UK

### **P-120 - THYMIC EPITHELIAL TUMORS WITH PLEURAL IMPLANTS: THE ROLE OF SURGERY**

Andrey Ryabov, Oleg Pikin, Vladimir Glushko, Konstantin Kolbanov, Oleg Alexandrov, Vitaliy Barmin, Dina Martynova, Vladimir Bagrov  
Moscow/RU

### **P-121 - CAN SIDE OF SURGERY AND TYPE OF SURGICAL APPROACH AFFECT MIDTERM SURVIVAL IN ANATOMICAL LUNG RESECTION?**

Bartłomiej Szafron, John Hogan, Haisam Saad, Obada Alqudah, Vasileios Kouritas, Jakub Kadlec, Waldemar Bartosik  
Norwich/UK

### **P-122 - ELECTIVE BAR REMOVAL FOLLOWING THE NUSS PROCEDURE: A SINGLE CENTRE EXPERIENCE**

Nicky Janssen<sup>1</sup>, Jean Ht Daemen<sup>1</sup>, Omar Ashour<sup>2</sup>, Karel We Hulsewé<sup>1</sup>, Yvonne Lj Vissers<sup>1</sup>, Erik R De Loos<sup>1</sup>  
<sup>1</sup> Heerlen/NL <sup>2</sup> Maastricht/NL

# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## POSTERS

**P-123 - PATTERNS AND TRENDS IN AIRWAY SURGERY: A SURVEY FROM THE BRAZILIAN SOCIETY OF THORACIC SURGERY**

Benoit J. Bibas, Paulo Francisco G. Cardoso, Helio Minamoto, Sergio Tadeu L. Pereira, Paulo Manoel Pêgo-Fernandes, Ricardo M. Terra  
São Paulo/BR

**P-124 - UNIPORTAL SUBXIPHOID VIDEO-ASSISTED THOROSCOPIC (SVAT) APPROACH IN PULMONARY LOBECTOMY - A UNITED KINGDOM EXPERIENCE**

Jacie Jiaqi Law, Chien Lin Soh, Shivani Vasisht, Jeremy Chan, Giuseppe Aresu  
Cambridge/UK

**P-125 - MALIGNANT PLEURAL MESOTHELIOMA. BENEFIT OF SURGERY WITH A MULTIMODAL THERAPY**

Pablo Luis Pagliarunga, David Sanchez-Lorente, Marc Boada, Ricardo Alfaro, Rudith Guzman, Alejandra Librerros, Angela Guirao, Carlos Guerrero, Leandro Grando, Nestor Quiroga, Irene Bello, Laureano Molins  
Barcelona/ES

**P-126 - ONE-STOP-SHOP`DIAGNOSIS AND STAGE-ADAPTED SURGICAL THERAPY FOR SMALL NODULES OF EARLY STAGE LUNG CANCER IN A HYBRID OPERATING ROOM**

Konstantinos Kostopanagiotou, Claudio Caviezel, Guilbert D Puipe, Raphael S Werner, Isabelle Opitz  
Zürich/CH

**P-127 - THIRTY- AND NINETY-DAY READMISSION AFTER SURGERY FOR LUNG CANCER IN THE ELDERLY PATIENTS: ANALYSIS OF RISK FACTORS**

Francesco Dolcetti<sup>1</sup>, Nicola Tamburini<sup>2</sup>, Pio Maniscalco<sup>2</sup>, Francesco Quarantotto<sup>2</sup>, Ilaria Potenza<sup>1</sup>, Giorgio Cavallesco<sup>3</sup>  
<sup>1</sup>Modena/IT, <sup>2</sup>Ferrara/IT, <sup>3</sup>Ferrara/IT

**P-128 - SURGERY FOR OLIGOPROGRESSIVE METASTATIC RENAL CELL CANCER CAN PROVIDE LONG-TERM DISEASE CONTROL**

Uyen-Thao Le, Bernward Passlick, Severin Schmid  
Freiburg Im Breisgau/DE

**P-129 - ARE LOBE-SPECIFIC OR SYSTEMATIC LYMPH NODE DISSECTION/SAMPLING COMPARABLE IN TERMS OF THE PROGNOSIS AND SURVIVAL CONDITION FOR EARLY-STAGE LUNG ADENOCARCINOMA WITH CONSOLIDATION TUMOR RATIO MORE THAN 0.5?**

Qihai Sui, Huiqiang Yang, Zhencong Chen, Wei Jiang  
Shanghai/CN

**P-130 - IS IT FEASIBLE TO PERFORM ANATOMICAL LUNG RESECTION FOR LUNG CANCER AND HEART SURGERY CONCURRENTLY**

Ömer Yavuz, Ekin Ezgi Cesur, Kadir Burak Özer, Suat Erus, Serhan Tanju, Sükrü Dilege  
Istanbul/TR

**P-131 - VENO-VEINUS EXTRACORPOREAL MEMBRANE OXYGENATION (ECMO) SUPPORT IN AIRWAY SURGERY FOR PATIENTS' LIMITED PULMONARY RESERVE OR COMPLEX TRACHEOBRONCHIAL RESECTION AND RECONSTRUCTION**

Luca Voltolini<sup>1</sup>, Alessandro Gonfiotti<sup>1</sup>, Alberto Salvicchi<sup>1</sup>, Sara Borgianni<sup>1</sup>, Giovanni Cianchi<sup>2</sup>, Giorgia Tancredi<sup>3</sup>, Domenico Viggiano<sup>1</sup>, Stefano Bongiolatti<sup>1</sup>  
<sup>1</sup>Florence/IT, <sup>2</sup>Florence/IT, <sup>3</sup>Palermo/IT

**P-132 - SPONTANEOUS INTERCOSTAL RUPTURES - FIRST RESULTS OF A MESH-FREE RECONSTRUCTION TECHNIQUE**

Dietmar Kraus, Marcus Kern, Attila Dubecz, Hubert Stein  
Nürnberg/DE

**P-133 - VIRTUAL PATIENT CLINICS DELIVER HIGH PATIENT SATISFACTION DURING THE PANDEMIC: A SURVEY**

Santy Manoj, David Healy  
Dublin/IE

**P-134 - CAN PREOPERATIVE CT SCANNING PREDICT THE NEED FOR AN EXTRACERVICAL APPROACH (STERNOTOMY) IN RETROSTERNAL GOITRES?**

Kudzayi Kutuyayo, Caryl Richards, Nathan Tyson, Krupali Brahmhatt, Nithianthan Mayooran, Peter Conboy, Sridhar Rathinam, Jan Brozik  
Leicester/UK



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## POSTERS

### **P-135 - IS TUMOR NECROSIS STILL A POOR PROGNOSTIC FACTOR IN PATIENTS WHO HAVE NOT RECEIVED NEOADJUVANT TREATMENT?**

Suat Erus, Ekin Ezgi Cesur, Kadir Burak Özer, Ömer Yavuz, Serhan Tanju, Sükrü Dilege  
Istanbul/TR

### **P-136 - MANAGEMENT OF DEEP STERNAL WOUND INFECTION, A SINGLE CENTER EXPERIENCE**

Sofoklis Mitsos, Nikolaos Korodimos, Andreas Gkikas, Achilleas Antonopoulos, Elias Santaitidis, Periklis Tomos  
Athens/GR

### **P-137 - SURGICAL INDICATION AND PRACTICE OF THORACOSCOPIC SEGMENTECTOMY TO AVOID LOCAL RECURRENCE**

JUN Suzuki, Hiroyuki Oizumi, Hikaru Watanabe, Satoshi Takamori, Kaito Sato, Tetsuro Uchida  
Yamagata/JP

### **P-138 - LUNG VOLUME REDUCTION SURGERY (LVRS) IN THE MANAGEMENT OF SEVERE EMPHYSEMA IN MODERN THORACIC SURGERY: A SINGLE-CENTER RETROSPECTIVE STUDY**

Julien Pierchon<sup>1,2</sup>, Antoine Cuvelier<sup>1</sup>, Hélène Morisse-Pradier<sup>1</sup>, Samy Lachkar<sup>1</sup>, Pierre-Alexandre Roger<sup>1</sup>, Mathieu Salaun<sup>1</sup>, Jean-Marc Baste<sup>1</sup>  
<sup>1</sup> Rouen/FR, <sup>2</sup> Montivilliers/FR

### **P-139 - MCKEOWN ESOPHAGECTOMY WITH UNIORTAL-VIDEO ASSISTED THORACOSCOPIC SURGERY (VATS) APPROACH: 5-YEAR SINGLE-CENTER EXPERIENCE**

Dania Nachira, Diomira Tabacco, Giuseppe Calabrese, Carolina Sassorossi, Maria Teresa Congedo, Elisa Meacci, Leonardo Petracca Ciavarella, Marco Chiappetta, Filippo Lococo, Venanzio Porziella, Stefano Margaritora  
Rome/IT

### **P-140 - MAJOR OMENTUM TRANSPOSITION FOR SEVERE THORACIC INFECTIONS**

Abel Gomez-Caro, Quentin Rudondy, Carlos Guerrero, Charlotte Cohen, MOHAMED-TAIB Benkirane, JP Berthet  
Nice/FR

### **P-141 - SUBXIPHOID UNIORTAL VATS NON-INTUBATED VERSUS INTUBATED THYMECTOMY: INITIAL ASSESSMENT OF FEASIBILITY AND SAFETY**

Maria Nizami, Raisa Bushra, John Hogan, Adam Peryt, Aman Coonar, Giuseppe Aresu  
Cambridge/UK

### **P-142 - FEASIBILITY OF VIRTUAL INTERACTIVE CLASSROOM TO TEACH BASIC VIDEO-ASSISTED THORACOSCOPIC SURGERY SKILLS**

Tomaz Stupnik  
Ljubljana/SI

### **P-143 - UNIORTAL-VIDEO ASSISTED THORACOSCOPIC SURGERY (VATS) COMPLETION LOBECTOMY LONG AFTER WEDGE/SEGMENTECTOMY: EARLY EXPERIENCE**

Elisa Meacci, Dania Nachira, Edoardo Zanfrini, Mariateresa Congedo, Marialetizia Vita, Leonardo Petracca Ciavarella, Diomira Tabacco, Stefano Margaritora  
Rome/IT

### **P-144 - RESULTS OF ROBOT-ASSISTED MINIMALLY INVASIVE ESOPHAGECTOMY IN 111 CONSECUTIVE PATIENTS: AN ASIA COHORT STUDY**

Zhang Shuliang  
Fuzhou/CN

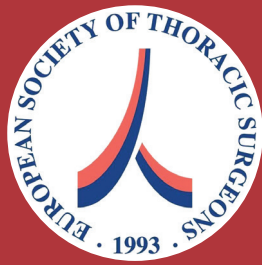
WITHDRAWN

### **P-145 - TWO PRACTICAL PROBLEMS WITH CLINICAL T FACTOR IN THE 8TH EDITION OF THE TNM CLASSIFICATION FOR LUNG CANCER**

Takeshi Matsunaga, Aritoshi Hattori, Mariko Fukui, Kazuya Takamochi, Kenji Suzuki  
Tokyo/JP

### **P-146 - COMPLETE RESECTION OF THYMOMA: ANALYSIS OF A SINGLE CENTER RETROSPECTIVE DATABASE**

Ahmet Sami Bayram, Eylem Yentürk, Tolga Evrim Sevinç, Hüseyin Melek, Cengiz Gebitekin  
Bursa/TR



# VIDEOS



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## VIDEOS

MONDAY 20 JUNE 2022 • AMAZON ROUND

**V-095 - RIGHT VIDEO ASSISTED THORACOSCOPIC SURGERY (VATS) ANTERIOR SEGMENTECTOMY (S1) VIA A SINGLE PORT AND UTILISING INDOCYANINE GREEN (ICG) TECHNOLOGY**

Mohammad Samir Diab

Bristol/UK

**V-096 - TRANSTHORACIC ROBOTIC CHEST WALL MASS RESECTION AND RECONSTRUCTION WITH GORE-TEX PATCH**

Paul L. Feingold, Emily Louise Polhemus, Darren S Bryan, John P Kuckelman, Jon O Wee

Boston/US

**V-097 - A VERY RARE PULMONARY PATHOLOGY FROM SYMPTOM TO DIAGNOSIS: DENDRIFORM PULMONARY OSSIFICATION**

Merve Ekinci Fidan, Burcu Kilic, Gizem Ozcibik Isik, Sebnem Batur, Ezel Ersen, Hasan Volkan Kara

Istanbul/TR

**V-098 - RIGHT LOWER LOBE SLEEVE LOBECTOMY: UNIPORTAL VIDEO ASSISTED THORACOSCOPIC SURGERY (VATS) SUTURE TECHNIQUE**

Carlos Galvez Galvez, Sergio Maroto, Francisco Lirio, Jone Del Campo, Leyre Sebastian, Julio Sesma, Sergio Bolufer

Alicante/ES

**V-099 - CARINAL RESECTION VIA RIGHT THORACOTOMY**

Srinivas Kodaganur Gopinath, Karimundackal George, Devayani Niyogi, Tiwari Virendrakumar, Jiwnani Sabita, CS Pramesh

Mumbai/IN

**WITHDRAWN V-100 - ENBLOC THYMO-PNEUMONECTOMY: A RADICAL EXCISION FOR THYMOMA**

Devayani Madhav Niyogi, George Karimundackal, Srinivas Kodaganur Gopinath, Virendra Kumar Tiwari

Mumbai/IN

**V-101 - VIDEO-ASSISTED THORACOSCOPIC COMPLETION LEFT UPPER LOBECTOMY AND BRONCHOPLASTY FOR BRONCHIAL FIBROEPITHELIAL POLYP IN A PATIENT WHO UNDERWENT IPSILATERAL THORACOTOMY**

Hüseyin Melek, Tolga Evrim Sevinç, Erhan Özer, Cengiz Gebitekin

Bursal/TR

**V-102 - MANUAL CLOSURE OF BRONCHIAL STUMP IN A ROBOTIC RIGHT UPPER LOBECTOMY**

Lucía Milla Collado, Mercedes Álvarez Fernández, Inés Luque Vázquez, Beatriz Moreno Morueco, Mónica Sangrador Andreu, Almudena Zudaire Díaz-Tejero, María Rodríguez Pérez

Madrid/ES

**V-103 - PREVIOUS THORACIC TRAUMA AND PNEUMOTORAX IS NOT A CONTRAINDICATION FOR VIDEO ASSISTED THORACOSCOPIC SURGERY (VATS) PHRENIC NERVE HARVESTING IN BRACHIAL PLEXUS TRAUMATIC LESIONS**

Matteo Roffinella, Paraskevas Lyberis, Paolo Titolo, Francesca Vincitorio, Federico Femia, Eleonora Della Beffa, Francesco Paolo Busardò, Enrico Ruffini

Torino/IT

**V-104 - VIDEO ASSISTED THORACOSCOPIC SURGERY (VATS) COMPLEX DOUBLE RIGHT S1+2 AND S6+9+10 SEGMENTECTOMY: A RADICAL LUNG-SPARING STRATEGY FOR BIFOCAL SYNCHRONOUS LUNG CANCER**

Dorian Rojas, Jules Iquille, Bernard Lenot, Karel Pfeuty

Saint-Brieuc/FR

**V-105 - THORACIC ENDOMETRIOSIS: HOW WE MANAGE IT**

Carla Mariana Vega, Juan Cruz Ponceliz, Guillermo Puchulo, Juan Braga Menendez, Domingo Chimondeguy, Javier Ansede

Capital Federal/AR



# VIDEOS

TUESDAY 21 JUNE 2022 • AMAZON ROUND

## **V-106 - TRANSCERVICAL AND SUBXIPHOID THORACOSCOPIC DRAINAGE OF DESCENDING NECROTIZING MEDIASTITIS**

[Bisanne Hamdi Shaqqura](#)<sup>1</sup>, [Mayar Ishaq idkedek](#)<sup>2</sup>, [Ramez Abu Khalil](#)<sup>1</sup>, [Bayan Fathi Al-Qtishat](#)<sup>2</sup>, [Firas Abu Akar](#)<sup>1</sup>

<sup>1</sup> Jesulamen/PS, <sup>2</sup> Jesulamen/PS

## **V-107 - REMOVAL OF A SHARP LUNG PENETRATING OBJECT VIA UNIORTAL THORACOSCOPIC APPROACH**

[Bisan Hamdi Shaqqura](#)<sup>1</sup>, [Ramez Abu Khalil](#)<sup>1</sup>, [Mayar Ishaq Idkedek](#)<sup>2</sup>, [Bayan Fathi Al-Qtishat](#)<sup>2</sup>, [Firas Emad Abu Akar](#)<sup>2</sup>

<sup>1</sup> Jesulamen/PS, <sup>2</sup> Jesulamen/PS

## **V-108 - VATS LOBECTOMY VIA RIB METASTASECTOMY WINDOW FOR STAGE 4 LUNG CANCER**

[Suat Gezer](#)

Adana/TR

## **V-109 - PREOPERATIVE, INFRARED THORACOSCOPIC SIMULATION AFTER INTRAVENOUS INDOCYANINE GREEN ADMINISTRATION ENSURES SAFE SURGICAL MARGINS OF EXTENSIVE LOBECTOMIES**

[Hitoshi Igai](#), [Natsumi Matsuura](#), [Kazuki Numajiri](#), [Fumi Ohsawa](#), [Mitsuhiro Kamiyoshihara](#)

Maebashi/JP

## **V-110 - UNIORTAL POSTERIOR BASAL SEGMENTECTOMY COMBINING INTRAVENOUS ADMINISTRATION OF INDOCYANINE GREEN WITH PREOPERATIVE IMAGE SIMULATION BY THREE-DIMENSIONAL COMPUTED TOMOGRAPHY**

[Natsumi Matsuura](#), [Hitoshi Igai](#), [Kazuki Numajiri](#), [Fumi Ohsawa](#), [Mitsuhiro Kamiyoshihara](#)

Maebashi/JP

## **V-111 - UNIORTAL VIDEO-ASSISTED THORACIC SURGERY IVOR-LEWIS ESOPHAGECTOMY WITH CIRCULAR STAPLING ANASTOMOSIS**

[Dania Nachira](#), [Alberto Biondi](#), [Venanzio Porziella](#), [Domenico D'Ugo](#), [Stefano Margaritora](#)

Rome/IT

## **V-112 - VIDEOTHORACOSCOPICAL APPROACH FOR THE RESECTION OF MEDIASTINAL PARATHYROID ADENOMAS**

[Odile Ojanguren Martiarena](#), [Rafael Rojo Marcos](#), [Juan Carlos Rumbero Sánchez](#), [Naia Uribe-Etxebarria Lugariza-Aresti](#), [Mónica Lorenzo Martín](#), [Unai Jiménez Maestre](#), [Lucía Hernández Pérez](#), [Marta Fernando Garay](#), [Oscar Ruiz Molina](#), [Joaquín Pac Ferrer Barakaldo](#)/ES

## **V-113 - PLEURECTOMY/DECORTICATION FOR RIGHT PLEURAL DISSEMINATION OF PSEUDOMYXOMA PERITONEI**

[Kazunori Okabe](#), [Takuya Kimura](#), [Nao Furukawa](#), [Hikaru Miyamoto](#), [Kantarou Hara](#)

Sakai/JP

## **V-114 - ADVANCED MALIGNANT PLEURAL MESOTHELIOMA WITH SERIOUS COMORBIDITIES SUCCESSFULLY TREATED BY EXTRAPLEURAL PNEUMONECTOMY**

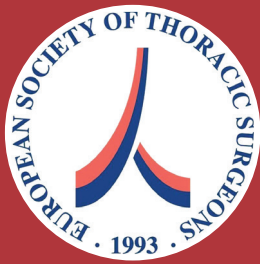
[Kazunori Okabe](#), [Takuya Kimura](#), [Nao Furukawa](#), [Hikaru Miyamoto](#), [Kantarou Hara](#)

Sakai/JP

## **V-115 - VIDEO ASSISTED THORACOSCOPIC SURGERY (VATS) UPPER LOBECTOMY AFTER PRIOR MIDDLE LOBECTOMY AND CONTRALATERAL UPPER LOBE SEGMENTAL RESECTION**

[Akash Premkumar](#)<sup>1</sup>, [Emily Polhemus](#)<sup>2</sup>, [Daniel N. Lee](#)<sup>2</sup>, [Hassan A. Khalil](#)<sup>2</sup>, [Abby White](#)<sup>2</sup>, [Scott J. Swanson](#)<sup>2</sup>

<sup>1</sup> Boston/US, <sup>2</sup> Boston/US



## SECOND SECTION

Welcome to the Hague	59
General Information	60
Venue / Main Contact Details	60
Registration fees	64
Industry-sponsored Symposium	65
Prize and awards from industry	65
Annual Women in General Thoracic Surgery Networking night	66
Meet the expert	67
Trainees get together	68
Main Sponsors	69

# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## WELCOME TO THE HAGUE

### Welcome to the city that matters

In The Hague, we have over 150 international organisations, knowledge institutions, NGO's and more who are working towards peace and justice every day. Its heritage of being a decision-making and influential place is how The Hague developed the reputation of being The International City of Peace and Justice.

The Hague is one of the greenest cities in Europe. It is the only large Dutch city next to the sea, just a stone's throw away from the historic city center you will find an 11-kilometer-long beach.





# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## GENERAL INFORMATION

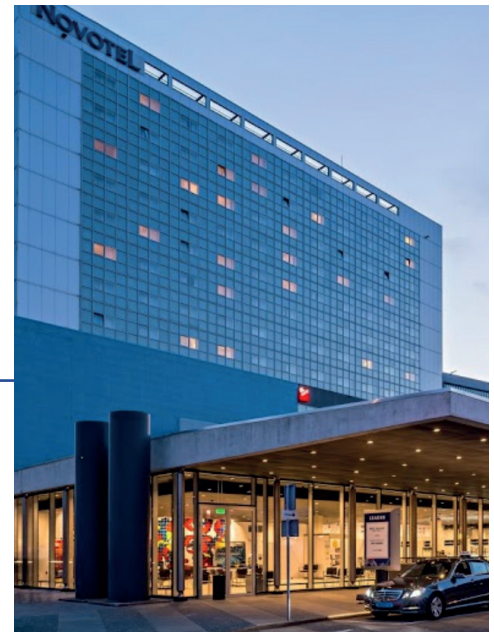
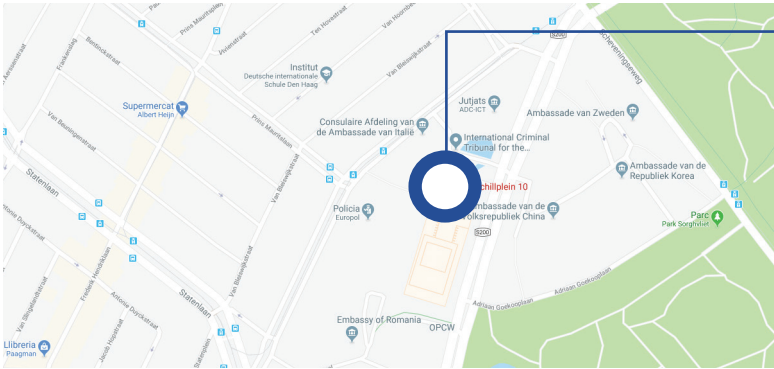
### VENUE

#### World Forum

Churchillplein 10,  
2517 JW Den Haag,  
The Netherlands  
[www.worldforum.nl/en](http://www.worldforum.nl/en)

### WEBSITE

[www.ests2022.com](http://www.ests2022.com)  
[www.ests.org](http://www.ests.org)

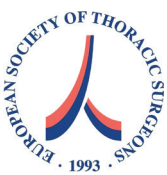


## MAIN CONTACT DETAILS

### ESTS SECRETARIAT

#### ESTS Executive Director

Sue Hesford  
PO Box 159  
Exeter  
EX2 5SH  
UK  
Tel: + 44 1392 332818  
Email: [sue@ests.org.uk](mailto:sue@ests.org.uk)  
[www.ests.org](http://www.ests.org)



### MEETING SECRETARIAT

#### VIAJES EL CORTE INGLES SA

C/ Alberto Bosch 13  
28014 Madrid (Spain)  
Tel. +34 91 3300565

#### Exhibition

Ms Asun Marzo  
[a.marzo@torrespardo.com](mailto:a.marzo@torrespardo.com)

T. +34 932463566

#### Registrations - General Information

Ms Tatiana Rodríguez  
[ests@viajeseci.es](mailto:ests@viajeseci.es)

**VIAJES El Corte Inglés**

CONGRESOS CIENTÍFICO-MÉDICOS

# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## REGISTRATION CANCELLATION POLICY

All cancellations and changes to registrations must be sent to e-mail: [ests@viajeseci.es](mailto:ests@viajeseci.es)

The following registration CANCELLATION POLICIES apply:

Written notice of registration cancellation by **30 March 2022**: 50% refund of the paid registration fee (less EUR 25 administration fee).

No refund will be granted for registrations cancelled after this date. Reimbursements will be made after the conference.

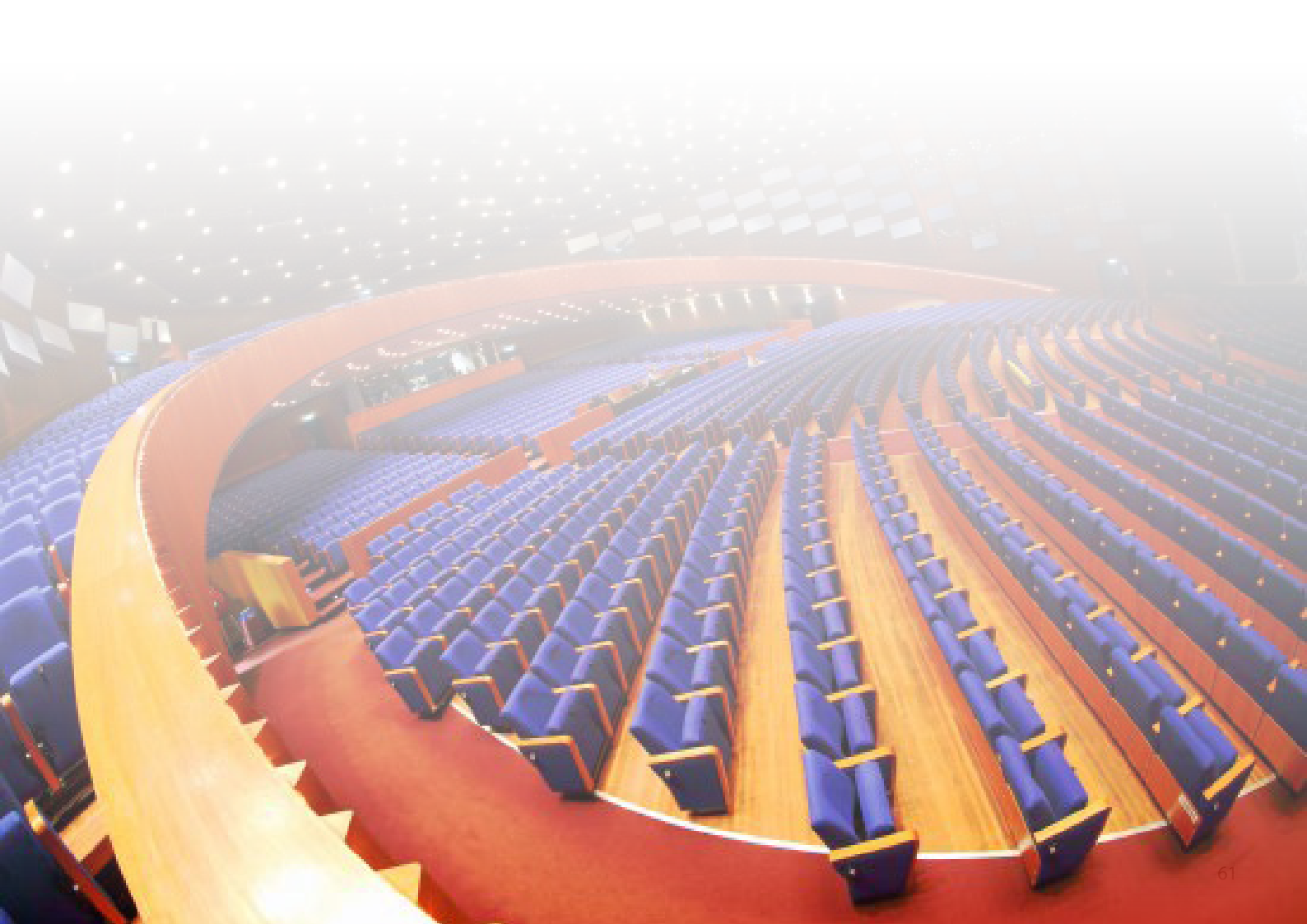
All costs and bank charges applied for payments and reimbursements of registration fees must be supported by the participant.

### TERMS OF PAYMENT

The following payment options are available via the online registration form:

**Bank transfer** - all relevant bank details are made available on the registration form.

**Credit card** - payment via secure online e-commerce gateway (VISA and Mastercard accepted)





# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## GENERAL INFORMATION

### REGISTRATION & ABSTRACT SUBMISSION

[www.ests2022.com](http://www.ests2022.com)

### WIRELESS INTERNET ACCESS

WiFi Internet access area will be available at the Congress.

### SOCIAL EVENTS

Welcome Cocktail

ESTS 2022 Welcome Cocktail will be held on Sunday, June 19th late afternoon after the Opening Ceremony.  
(included in the registration fee)

### ESTS PARTY

ESTS Party will be held on Monday, June 20th 2022 - 19.30h.

(not included in the registration fee)

Dresscode Casual Summer

### ACCOMMODATION DETAILS

Accommodation details are available at the website and further announcements.

### ECO-FRIENDLY AND PAPERLESS

ESTS 2022 is a sustainable and environmental friendly Congress encouraging the use of recyclable material.

### SMOKING

ESTS 2022 is a non smoking congress.

### REGISTRATION DESK

Participants can pick up their personal Congress material at the registration desk, which will be open as follows

Saturday, 18th June 16:00h - 19:00h

Sunday, 19th June 07:30h - 18:00h

Monday, 20th June 06:30h - 18:00h

Tuesday, 21st June 06:30h - 16:30h

The Congress Secretariat will be available to assist you during the Congress.

Please do not hesitate to contact this office for help or advice.

### ATTENDANCE

The Congress usually attracts between 1.500 and 1.800 delegates from all over Europe and from all over the World.

### LANGUAGE

The official language of the Meeting is English.

### NAME BADGES

Participants and accompanying persons are obliged to wear the official Congress name badges on all Congress occasions.

# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## GENERAL INFORMATION

### EXHIBITION

Access to the exhibition is free for registered participants. The exhibition will be open on 19-21 June 2022 during the congress hours.

### LUNCH AND REFRESHMENTS

Lunches are not included in the participants' registration fee. Lunch can be obtained at the venue at own costs. Coffee, tea will be available in the exhibition area during the breaks.

### LIABILITY

By registering for the Congress and/or by participating in the exhibition joined to the Congress, participants and exhibitors agree that ESTS, the Organizing Committee or the Congress Secretariat do not assume any responsibility for damage or injuries to persons or property during the Congress. Participants and exhibitors are advised to organize their own health, travel and personal insurances.

### LETTER OF INVITATION

Upon request, the Chairman of the Local Organizing Committee will be pleased to send a personal letter of invitation so as to enable participants to obtain supporting funds or visas for attending the Congress. These invitation letters cannot be considered as an offer of financial support by the organizers.

### CERTIFICATE OF ATTENDANCE

Participants will receive a certificate of attendance which will be downloaded from the Conference App.

### CONFERENCE APP



The Hague 2022 is a Paperless Meeting

A conference App will be made available for participants containing all necessary information, featuring and replacing, among other items the complete conference Program and abstract book.

The ESTS Conference App will be accessible for download on Android and IOS devices (smartphones, tablets, iPhones and iPads).



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## REGISTRATION FEES

	EARLY FEES until March 30th	LATE FEES until May 31st	ONSITE FEES from June 1st
ESTS Member high-income*	440€	495€	595€
ESTS Member upper-middle-income*	175€	210€	310€
ESTS Member low-income*	50€	80€	80€
Non-Member	700€	800€	875€
ERS Member (for pulmonologists only)	175€	325€	400€
Daypass ESTS Member (only possible for one day)	225€	250€	275€
Daypass Non Member (only possible for one day)	375€	400€	425€
Trainee ESTS Member	100€	150€	225€
Trainee non Member**	155€	210€	310€
Allied professionals**	50€	65€	80€
Medical Student (undergraduate)**	0€	0€	0€
<b>NOT INCLUDED IN THE REGISTRATION FEE</b>			
Sunrise Seminar	25€	50€	50€
ESTS Party Ticket	125€	125€	125€
ESTS Party Ticket Reduced price for Trainee only (Limited 80 tickets)	100€	100€	100€
ESTS Party Ticket Reduced price for Allied Health Professional only (Limited to 20 tickets)	100€	100€	100€

21% VAT is included in the prices listed above

\* For the classification please visit [www.ests.org](http://www.ests.org)

\*\* Proof of trainee, student status or nurse certificate must be uploaded on the online registration

For ESTS members: Reduced early registration is available to ESTS members whose membership fees are paid up to date including their 2022 member fee by the close of early registration on 30 March 2022. For members that pay their member fee after this date, late or on-site registration fee will apply.



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS




## INDUSTRY-SPONSORED SYMPOSIUM

### AMAZON - YANGTZE - ONYX


#### INDUSTRY-SPONSORED SYMPOSIUMS SUNDAY, 19 JUNE 2022 12:00 - 13:00 h


 ETHICON <small>Johnson &amp; Johnson SURGICAL TECHNOLOGIES</small>	Sunday 19, June 12:00-13:00 Room: Onyx
--	--


 medela	Sunday 19, June 12:00-13:00 Room: Yangtze 1&2
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 Roche	Sunday 19, June 12:00-13:00 Room: Amazon
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#### INDUSTRY-SPONSORED SYMPOSIUMS MONDAY 20 JUNE 2022 12:30 - 13:30 h


 AstraZeneca	Monday 20, June 12:30-13:30 Room: Yangtze 1&2
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 Medtronic	Monday 20, June 12:30-13:30 Room: Amazon
--	--

 MSD	Monday 20, June 12:30-13:30 Room: Onyx
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#### INDUSTRY-SPONSORED SYMPOSIUMS TUESDAY 21 JUNE 2022 12:00 - 13:00 h

 AstraZeneca	Tuesday 21, June 12:00-13:00 Room: Yangtze 1&2
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 INTUITIVE	Tuesday 21, June 12:00-13:00 Room: Onyx
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 Medtronic	Tuesday 21, June 12:00-13:00 Room: Amazon
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## PRIZES AND AWARDS FROM INDUSTRY

- **ESTS Biology Club Fellowship for 12 months** - a research fellowship award offered to young scientists and clinicians  
Offered to early career thoracic surgeons wishing to acquire surgical skills by observership or participation in a program  
These awards come courtesy of support from Astra Zeneca



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## MEET THE EXPERT

**AtriCure**

**Monday, 20 June • 10.45-11.15 • Room: Onyx**  
**AN INSIGHT TO CRYO NERVE BLOCK**  
Dr. Sjoerd de Beer (Amsterdam/NL)



**Monday, 20 June • 10.45-11.15 • Room: Yangtze 1&2**  
**ADDED VALUE OF PGA IN PLEURAL DECORTICATION**  
**AND LVRS: IMPROVING AEROSTASIS**  
Pr. Laurens Ceulemans (Leuven/BE)



**Monday, 20 June • 10.45-11.15 • Room: Amazon**  
**FROM VATS TO UNIPORTAL VATS:**  
**THE NEW REVOLUTION IN THORACIC SURGERY**  
Dr. Diego Gonzalez Rivas (A Coruña/ES)

# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## LEADING OUR WAYS ANNUAL WOMEN IN GENERAL THORACIC SURGERY NETWORKING NIGHT

### ORGANISERS



**Cecilia Pompili**  
(Leeds/UK, Verona/IT)



**Isabelle Opitz**  
(Zurich/CH)



**Geertruid Marres**  
(Dordrecht/NL)

**JOIN US!**

SUNDAY 19 JUNE 2022 • 19.30-20.30 CET  
AMAZON FOYER | THE WORLD FORUM



**Women Supporting Women**  
Yolonda Colson MD, PhD (Boston/US)  
*Chief, Division of Thoracic Surgery*  
Hermes C. Grillo  
*Professor of Surgery*



**Inspiring and empowering females**  
Elske Doets (Alkmaar/NL)  
*Entrepreneur & Founder of the Young Lady Business Academy*



**The Battle against Tobacco industry**  
Wanda De Kanter (Amsterdam/NL)  
*Pulmonologist and activist*

**Do not miss it!**

**NETWORKING COCKTAIL**



# 30th ESTS MEETING

19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## TRAINEES GET TOGETHER

Sunday 19 June 2022 • 20.15-22.00 CET

### Organisers



**Anna Frick**  
(Vienna/AT)



**Niek Hugen**  
(Arnhem/NL)



**Olivia Lauk**  
(Zurich/CH)

20:15 h **Welcome Address**  
Alessandro Brunelli (Leeds/UK)



20:30 h **Importance of Creating an ESTS Junior Working Group**  
Michael Gooseman (Hull/UK), Edward Caruana (Leicester/UK)



21:00 h **Fellowship Abroad - My Experience**  
Francesco Guerrera (Torino/Italy)



**Tombola**

**Venue:**  
Bleyenbergh Den Haag  
Grote Markt 10



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19 - 21 JUNE 2022 • THE HAGUE, THE NETHERLANDS



## MAIN SPONSORS

### PLATINUM SPONSORS

AstraZeneca 

Medtronic

### GOLD SPONSORS



**ETHICON**  
Johnson & Johnson SURGICAL TECHNOLOGIES

medela 

### SILVER SPONSOR

INTUITIVE

### BRONZE SPONSOR



FULBRIGHT  
we think next

AtriCure

