

# Bologna Heart Surgery Symposium



Focus on Aortic Diseases

2024

3<sup>rd</sup> edition



Bologna, Italy • October 28-29, 2024



Dear Colleagues and Friends,

We are very glad to announce the third edition of the **“Bologna Heart Surgery Symposium” (BHSS)**, focused again on **Aortic Disease**, which will take place in Bologna on **28<sup>th</sup> and 29<sup>th</sup> October 2024**.

A multi-sectorial approach and an in-depth analysis by leading global experts will guarantee an update of knowledge and skills covering the entire spectrum of Aortic Diseases and their treatment. Exciting discussions, pro and cons of new technologies and the latest science on Aortic Disease will provide an unforgettable learning experience and an education leading to improve patient care and better outcomes.

**BHSS** will be a two-day in-person meeting focused on **open and endovascular aortic repair**, including **aortic valve**, with a spotlight on **new technologies**. It is designed for Cardiovascular Surgeons, Cardiologists, Radiologists, Anesthesiologists, Residents, Perfusionists and Nurses.

The structure of the meeting will include **live surgery** from our OR of the IRCCS S.Orsola Hospital and **live-in-a-box cases** alongside with lectures and videos from masters of the field. Interactions between delegates and faculty are the focal point of BHSS and you are strongly invited to send videos showing your personal surgical and endovascular experience. The selected **videos** will be presented and discussed during the main sessions in a very relaxed and informal atmosphere.

BHSS will also be an opportunity to “discover” **new tools** for the diagnosis of aortic pathology with special focus on **virtual reality** and **artificial intelligence** applied to diagnosis and therapy.

News of this year, there will be **parallel sessions** for perfusionists and nurses where attendees will have the opportunity to share their knowledge and experience.

Join us and make it an unforgettable learning experience!

Davide Pacini



## UNDER THE AUSPICES OF



## SYMPOSIUM DIRECTOR



### **Davide Pacini**

Chief, Cardiac Surgery Unit  
IRCCS Azienda Ospedaliera Universitaria di Bologna - Italy  
Full Professor of the Department of Medical and Surgical Sciences -  
Università di Bologna - Italy

## HONORARY CHAIRMAN



### **Roberto Di Bartolomeo**

Università di Bologna - Italy

## SCIENTIFIC COMMITTEE



### **Luca Di Marco**

Cardiac Surgery Unit  
IRCCS Azienda Ospedaliera Universitaria di Bologna - Italy



### **Alessandro Leone**

Cardiac Surgery Unit  
IRCCS Azienda Ospedaliera Universitaria di Bologna - Italy



### **Giacomo Murana**

Cardiac Surgery Unit  
IRCCS Azienda Ospedaliera Universitaria di Bologna - Italy



### **Federica Zanzico**

Cardiac Surgery Unit - Perfusionist  
IRCCS Azienda Ospedaliera Universitaria di Bologna - Italy



### **Van Deventer San-Mari van Delft**

St. Antonius Hospital Nieuwegein - The Netherlands  
Secretary Committee di EBPC

## PROGRAM AT A GLANCE

### Monday, October 28<sup>th</sup>

Time	Plenary Room	Parallel Sessions
8:30	Greetings	
9:30 - 12:00	<b>Live surgery</b> From the Operating Room of the S. Orsola Hospital	
8:40 - 12:00	<b>Main Session 1</b> NEW TECHNOLOGIES AND TRANSCATHETER VALVE SURGERY	
12:00 - 12:20	<b>Main Lecture</b> NOBILITY IN SMALL THINGS Craig Smith	
12:30 - 13:30	Lunch	
13:30 - 16:00	<b>Live surgery</b> From the Operating Room of the S. Orsola Hospital	
13:30 - 16:30	<b>Main Session 2</b> AORTIC ROOT AND ASCENDING	
16:30 - 17:00	Coffee break	
17:00 - 19:00	<b>Main Session 3</b> AORTIC ARCH	<b>Perfusionist session 1</b> <b>FLOW-DYNAMICS</b>

### Tuesday, October 29<sup>th</sup>

Time	Plenary Room	Parallel Sessions
8:30 - 10:30	<b>Main Session 4</b> DESCENDING AND THORACO-ABDOMINAL	<b>Perfusionist session 2</b> <b>FLUID-DYNAMICS</b>
10:30 - 11:00	Coffee break	
11:00 - 13:00	<b>Main Session 5</b> ACUTE AORTIC SYNDROME	<b>Perfusionist session 3</b> <b>DINAMIC PATHWAYS</b>
13:00 - 14:00	Lunch	<b>Lunch Industry Symposium</b>
14:00 - 14:30	<b>Main Lecture</b> A TRIBUTE TO THE PIONEERS OF AORTIC SURGERY Steven Lansman	
14:30 - 15:00	<b>Video Session</b>	
14:30 - 15:30	<b>The Great Debate</b> THE FUTURE OF CARDIOVASCULAR SURGERY IN THE TRANSCATHETER ERA	

## MONDAY, OCTOBER 28<sup>th</sup>

8.00 Participants' registration

### PLENARY ROOM

8.30 Welcome greetings  
*Davide Pacini*

9.30-12.00 **Live Surgery Demonstration**  
**From the Operating Room of the S. Orsola Hospital**  
*I. El-Hamamsy and S. Orsola team members*

### 8.40-12.00 SESSION I

#### NEW TECHNOLOGIES AND TRANSCATHETER VALVE SURGERY

**Moderators:** *R. Di Bartolomeo, M. Grabenwöger, F. Musumeci*

8.40 **Machine learning and artificial intelligence in Cardiovascular Surgery: enhancing outcomes and predicting complications**  
*J. Elefteriades*

8.50 **Aortic Valve Diseases: how will patients be treated in the near future?**  
*P. Myers*

9.00 **TAVR in pure aortic valve insufficiency: pushing the boundaries**  
*M. Cassese*

9.10 **Open aortic valve replacement after TAVR: technical details and midterm results**  
*M. Grimm*

#### Video Presentation

9.20 **Endo-Bentall**  
*M. Ghoreishi*

9.25 **TAVI in hostile access**  
*N. Taglieri*

9.40 **Discussion**

12.00 **LECTURE**  
**NOBILITY IN SMALL THINGS**  
*C. R. Smith*

12.30 Lunch

**13.30-16.00 Live Surgery Demonstration**

**From the Operating Room of the S. Orsola Hospital**

*G. El Khoury and S. Orsola team members*

## **13.30-16.30 SESSION II**

### **AORTIC ROOT AND ASCENDING**

**Moderators:** *R. Di Bartolomeo, L. Maroto, H. Takayama*

**13.30 Heritable thoracic aortic diseases**

*B. Loeys*

**13.40 EACTS - STS guidelines on diagnosis and treatment of the diseases of the aortic organ**

*M. Czerny*

**13.50 Aortic Valve Repair: pure art or only technique?**

*L. De Kerchove*

**14.00 Valve sparing root replacement: are the sinuses really important?**

*R. De Paulis*

**14.10 Long term results of Ross Procedure**

*I. El-Hamamsy*

### **Video Presentation**

**14.20 Valve-Sparing procedure: tips and tricks**

*A. Leone*

**14.25 Personalized External Aortic Root Support (PEARS)**

*A. Conal*

**14.30 BAV and TAV Repair with internal ring**

*M. Rinaldi*

**14.35 Root repair with patch technique**

*P. Urbansky*

**14.50 Discussion**

**16.30 Coffee break**

**17.00-19.00 SESSION III**

**AORTIC ARCH**

**Moderators:** *A. Martens, H. Matsuda*

- 17.00 How to optimize cerebral perfusion during circulatory arrest**  
*M. Kuduwalli*
- 17.10 Arterial cannulation in aortic arch surgery: which one, when and why**  
*L. Di Marco*
- 17.20 Is conventional aortic arch surgery justifiable in octogenarians?**  
*K. Minatoya*
- 17.30 Managment of residual distal dissection**  
*H. Takayama*
- 17.40 Frozen Elephant Trunk: the bright and the dark side of the moon**  
*M. Shrestha*
- 17.50 Endovascular Arch repair: single, double or triple branched?**  
*L. Lovato*

**Video Presentation**

- 18.00 REDO Arch surgery**  
*A. Oo*
- 18.05 New developments in Frozenix**  
*H. Ogino*
- 18.10 New device for FET**  
*M. Di Eusanio*
- 18.15 Evita Neo: tips and tricks**  
*K. Tsagakis*
- 18.20 Aortic arch repair with trifurcated graft**  
*D. Spielvogel*
- 18.25 Initial experience with Thoraflex Hybrid graft in complex anatomy**  
*T. Yamabe*
- 18.30 How to simplify the FET. Our approach**  
*F. Fleischman*
- 18.35 Annulus to aortic bifurcation replacement - A two stage repair**  
*M. Idhrees*

**18.40 Discussion**

**19.00 End of the fist day**

**MONDAY, OCTOBER 28<sup>th</sup>**

**PARALLEL SESSION**

**17.00-19.00 PERFUSIONIST SESSION I  
FLOW-DYNAMICS**

**Moderators:** *G. Debeuckelaere, F. Zanzico*

- 17.00**    **Arterial cannulation in the aortic surgery: sites, cannulas, advantages and disadvantages. Perfusion implications**  
*M. Corradini*
- 17.15**    **How to decide cerebral perfusion flow during ASCP. Real or ideal weight, which one is the best?**  
*TBD*
- 17.30**    **Willis circle: a pentagone life saver**  
*M. Ranucci*
- 17.45**    **Roller pump vs Centrifugal pump for CPB during aortic arch surgery focus on cerebral resistences**  
*I. Wiese*
- 18.00**    **Cerebral metabolic rate of O<sub>2</sub> (CMRO<sub>2</sub>)**  
*F. Cucciniello*
- 18.15**    **Integrated and non-integrated leukocytes filters in CPB circuits: the impact on the inflammatory reaction during aortic surgery**  
*L.F. Mantovani*
- 18.30**    **Discussion**
- 19.00**    **End of the fist day**



**PLENARY ROOM**

**8.30-10.30 SESSION IV**

**DESCENDING AND THORACO-ABDOMINAL**

**Moderators:** V. Bashi, M. Grabenwöger

- 8.30 **Thoracic and TAAA: evidence, uncertainties and future treatment**  
*J. Coselli*
- 8.40 **Differences in surgical long-term outcomes between HTAD and non-HTAD patients**  
*F. Schoenoff*
- 8.50 **Sex related differences in thoracic aortic surgery**  
*O. Preventza*
- 9.00 **Single and multistaged strategies FEVAR/BEVAR**  
*N. Tslimparis*
- 9.10 **Current evidence and management of thoracoabdominal Stent-graft Infection**  
*L.N. Girardi*
- 9.20 **Endovascular Aortic Intervention in patient with Connective Tissue Disease:**  
**Cons:** A. Estrera / **Pros:** G. Oderich

**Video Presentation**

- 9.40 **Thoraflex Hybrid and Relay Extension (EXTEND) Study: preliminary results**  
*C. Malaisrie*
- 9.45 **Intercostal artery reconstruction: techniques and results**  
*N. Shiiya*
- 9.50 **How I do Thoraco-Abdominal Aortic Aneurysm Repair**  
*A. Z. Apaydin*
- 9.55 **Homemade fenestrated physician-modified stent grafts for arch aortic degenerative aneurysms**  
*L. Canaud*
- 10.00 **In-Situ Fenestration for Isolate Left Subclavian Artery Preservation during Thoracic Endovascular Aortic Repair Using an Adjustable Needle Puncturing System**  
*G. Piffaretti*
- 10.05 **Left subclavian Artery Preservation with Thoracic branched endoprosthesis**  
*H. Patel*
- 10.10 **A new hybrid graft for open thoracoabdominal aortic aneurysm repair**  
*S. Wipper*
- 10.15 **The stabilise concept to address malperfusion on acute and subacute type B aortic dissections**  
*G. Melissano*
- 10.20 **Discussion**
- 10.40 **Coffee break**

**PLENARY ROOM**

**11.00-13.00 SESSION V**

**ACUTE AORTIC SYNDROME**

*Moderators: M. Ehrlich, H. Shimizu*

- 11.00 Acute Aortic Dissection: an update from IRAD**  
*S. Trimarchi*
- 11.10 Cerebral and visceral Malperfusion: how to deal with it?**  
*E. Chen*
- 11.20 Aortic Arch stenting with uncovered graft: indications and results**  
*M. Ouzanian*
- 11.30 External wrapping for acute type A aorta dissection: rationale, technique and results**  
*R. Ramadan*
- 11.40 The Penn Classification System for Malperfusion in Acute type A Dissection**  
*J. Bavaria*
- 11.50 Hemiarch and total arch replacemet +FET for acute type A aortic dissection  
-10 years Experience of Nanjing First Hospital, Nanjing, China**  
*X. Chen*

**Video Presentation**

- 12.00 How I perform FET in Acute Aortic Dissection**  
*A. Yoshitake*
- 12.05 Techniques and outcome of total arch replacement for acute type I  
dissection: TARFET vs. TAR with conventional elephant trunk**  
*K.H. Park*
- 12.10 Semi-custom fenestrated endograft for the treatment of chronic type B  
dissections**  
*S. Gennai*
- 12.15 Arch management in Acute Aortic Dissection: our approach**  
*E. Turner*
- 13.00 Lunch**

**TUESDAY, OCTOBER 29<sup>th</sup>**

**PLENARY ROOM**

**14.00 LECTURE**  
**A TRIBUTE TO THE PIONEERS OF AORTIC SURGERY**  
*S. Lansman*

**14.30-15.00**

**Video Presentation**

**Moderators:** *H. Takayama, M. Ouzanian*

**14.30 The sleeve operation: how I do it**  
*C. Muneretto*

**15.00-16.00 THE GREAT DEBATE**

**THE FUTURE OF CARDIOVASCULAR SURGERY IN THE TRANSCATHETER ERA**

**Moderators:** *J. Bavaria, D. Pacini*

- **Heart/Aortic Team and Heart Valve/Aortic centers**
- **Education of the next generation of CV Surgeon**
- **Role of open aortic surgery**  
*R. Chiesa, J. Elefteriades, A. Estrera, Y. Okita, O. Preventza, C. Smith*

**15.30 Closing remarks**  
*D. Pacini*

**TUESDAY, OCTOBER 29TH**

**PARALLEL SESSION**

**8.30-10.30 PERFUSIONIST SESSION II**

**FLUID-DYNAMICS**

**Moderators:** M. Ranucci, M. Cotza

- 8.30**    **Optimisation of extracorporeal circulation and its applications in aortic surgery**  
*D. Bredice*
- 8.45**    **Ultrafiltration: when it's time to stop**  
*F. Esposito*
- 9.00**    **Iperkaliemic cardioplegia vs hyposodic cardioplegia: comparing cardioplegia**  
*C.J. Preusse*
- 9.15**    **Del Nido cardioplegia in aortic arch surgery: our experience**  
*E. Pilato*
- 9.30**    **Hypercapnia during cerebral perfusion: is it still a good strategy or an obsolete practice?**  
*I. Mandatori*
- 9.45**    **Intra-operative and post-operative auto-transfusion during aortic surgery**  
*D. Castellani*
- 10.00**    **3 Voice symposium about blood management: a real team work**  
*E. Neri, D. Marianello, D. Castellani*
- 10.25**    **Discussion**
- 10.40**    **Coffee break**

**PARALLEL SESSION**

**11.00-13.00 PERFUSIONIST SESSION III**

**DYNAMIC PATHWAYS**

**Moderators:** F. Nicolini, C. De Vincentiis

- 11.00**    **Whole body perfusion strategies for thoraco-abdominal aortic surgery**  
*C. Revilla-Martin*
- 11.15**    **How to manage visceral ischemia during thoraco-abdominal aortic surgery**  
*S. de Jong*
- 11.30**    **Invasive monitoring during arch and thoracic-abdominal surgery:  
a monitor rich of values**  
*V. Roncarati*
- 11.45**    **Keeping patency of artery of Adamkiewicz: tips and tricks**  
*H. Matsuda*
- 12.00**    **A multidisciplinary multistage approach of a urgent TAAA in a young  
pregnant patient with LDS: McECC and Hybrid Room management by  
perfusionist team ... Our experience**  
*S. Mercurio*
- 12.15**    **Testimony of Acute Aortic Dissection Charity**  
*G. Cooper, C. Fowler*
- 12.35**    **Discussion**
- 13.00**    **Lunch Industry Symposium**

## FACULTY\*

**Anil Ziya Apaydin**, Izmir - Turkey  
**Velayudhan V. Bashi**, Manapakkam Chennai - India  
**Joseph Bavaria**, Philadelphia - USA  
**Daniele Bredice**, Charleroi - Belgium  
**Ludovic Canaud**, Montpellier - France  
**Mauro Cassese**, San Giovanni Rotondo - Italy  
**Debora Castellani**, Siena - Italy  
**Edward Chen**, Durhan - USA  
**Xin Chen**, Nanjing - China  
**Roberto Chiesa**, Milano - Italy  
**Austin Conal**, London - UK  
**Graham Cooper**, Chesterfield - UK  
**Michela Corradini**, Bologna - Italy  
**Joseph Coselli**, Houston - USA  
**Mauro Cotza**, Milano - Italy  
**Fabrizio Cucciniello**, Bologna - Italy  
**Martin Czerny**, Freiburg - Germany  
**Gerdy Debeuckelaere**, Bruxelles - Belgium  
**Sytse de Jong**, Nieuwegein - Netherlands  
**Laurent De Kerchove**, Bruxelles - Belgium  
**Ruggero De Paulis**, Roma - Italy  
**Carlo De Vincentiis**, Milano - Italy  
**Roberto Di Bartolomeo**, Bologna - Italy  
**Francesca Esposito**, Bologna - Italy  
**Marco Di Eusanio**, Ancona - Italy  
**Luca Di Marco**, Bologna - Italy  
**Marel Ehrlich**, Vienna - Austria  
**Gebrine El Khoury**, Brussels - Belgium  
**John Eleftheriades**, New Haven - USA  
**Ismail El-hamamsy**, New York - USA  
**Anthony L. Estrera**, Houston - USA  
**Fernando Fleischman**, Los Angeles - USA  
**Catherine Fowler**, Chesterfield - UK  
**Stefano Gennai**, Modena - Italy  
**Mehrdad Ghoreishi**, Baltimore - USA  
**Leonard N. Girardi**, New York - USA  
**Martin Grabenwöger**, Wien - Austria  
**Michael Grimm**, Innsbruck - Austria  
**A. Mohammed Idhrees**, Chennai - India  
**Manoj Kuduvali**, Liverpool - UK  
**Steven Lansman**, Valhalla - USA  
**Alessandro Leone**, Bologna - Italy  
**Bart Loeys**, Gent - Belgium  
**Luigi Lovato**, Bologna - Italy  
**Chris Malaisrie**, Evanston - USA  
**Ilenia Mandatori**, Bologna - Italy  
**Lorenzo Filippo Mantovani**, Cotignola - Italy  
**Daniele Marianello**, Siena - Italy

**Luis Maroto**, Madrid - Spain  
**Andreas Martens**, Oldenburg - Germany  
**Hitoshi Matsuda**, Suita, Osaka - Japan  
**Germano Melissano**, Milano - Italy  
**Stefano Mercurio**, Charleroi - Belgium  
**Patrick Myers**, Lausanne - Switzerland  
**Kenji Minatoya**, Kyoto - Japan  
**Claudio Muneretto**, Brescia - Italy  
**Giacomo Murana**, Bologna - Italy  
**Francesco Musumeci**, Roma - Italy  
**Eugenio Neri**, Siena - Italy  
**Francesco Nicolini**, Parma - Italy  
**Gustavo S. Oderich**, Houston - USA  
**Hitoshi Ogino**, Tokyo - Japan  
**Yutaka Okita**, Kobe - Japan  
**Aung Y Oo**, London - UK  
**Maral Ouzanian**, Toronto - Canada  
**Davide Pacini**, Bologna - Italy  
**Kay-Hyun Park**, Seoul - Republic of Korea  
**Himanshu Patel**, Ann Arbor - USA  
**Gabriele Piffaretti**, Varese - Italy  
**Emanuele Pilato**, Napoli - Italy  
**Clauss Jurgen Preusse**, Bonn - Germany  
**Ourania Preventza**, Charlottesville - USA  
**Ramzi Ramadan**, Paris - France  
**Marco Ranucci**, Milano - Italy  
**Cristina Revilla-Martin**, London - UK  
**Mauro Rinaldi**, Torino - Italy  
**Valentina Roncarati**, Bologna - Italy  
**Florian Schoenhoff**, Bern - Switzerland  
**Norihiko Shiiya**, Hamamatsu - Japan  
**Hideyuki Shimizu**, Tokyo - Japan  
**Malakh Lal Shrestha**, Rochester - USA  
**Craig R. Smith**, New York - USA  
**David Spielvogel**, Valhalla - USA  
**Nevio Taglieri**, Bologna - Italy  
**Hiroo Takayama**, New York - USA  
**Santi Trimarchi**, Milano - Italy  
**Konstantinos Tzagakis**, Essen - Germany  
**Nicolas Tslimparis**, Munich - Germany  
**Eduardo Turner**, Santiago - Chile  
**Paul P. Urbansky**, Bad Neustadt - Germany  
**Ingo Wiese**, Essen - Germany  
**Sabine Wipper**, Innsbruck - Austria  
**Suoyoshi Yamabe**, Kamakura - Japan  
**Akihiro Yoshitake**, Saitama - Japan  
**Federica Zanzico**, Bologna - Italy

\* Faculty subject to change

## GENERAL INFORMATION

### SYMPOSIUM VENUE

[Palazzo della Cultura e dei Congressi](#)

Piazza della Costituzione, 4/a  
40128 Bologna - Italy

### HOW TO GET TO BOLOGNA

#### **By Plane**

Several airlines connect Bologna with many Italian and foreign cities.

[The International airport “G. Marconi”](#) is located just 7 km from the Symposium Venue. About 15 minutes by taxi. Taxi: +39 051.372727 - +39 051.4950 - +39 051.534141  
The airport is connected to the central railway station by the [Marconi Express service](#), which takes only 7 minutes. The monorail costs € 11,00 one way and € 20,00 round trip.

#### **By Train**

The [Bologna Central Station](#) is one of the largest railway interconnections in both Italy and Europe. It is a few minutes from Palazzo della Cultura e dei Congressi.

Buses no. 35/39 link the station with the Symposium Venue.

The prices of the tickets are € 1,50 – validity: 75 minutes from time of ticket validation on bus. One-day ticket price is € 6,00 – validity: 24 hours from time of ticket validation on bus. Tickets can also be purchased on board by credit card - at the same fare, or by coins at the automatic machines for € 2.00

#### **By Car**

From motorway A1, A13, A14: from the ring road take exit n. 7 (Via Stalingrado) or exit Bologna Fiera direction city centre.

Car parking Parking facilities are available near the Symposium Venue.

### HOTEL RESERVATION

A number of rooms have been booked for participants.

### OFFICIAL LANGUAGES

The official Symposium language is English.

### VIDEOS

Participants are invited to send videos on any of the topics addressed. Please use Windows Media Player compatible formats. Maximum video length is 5 minutes. The Videos should be sent to the Organizing Secretariat by **1<sup>st</sup> August 2024** by uploading them on WeTransfer ([www.wetransfer.com](http://www.wetransfer.com), recipient's e-mail address: [info@noemacongressi.it](mailto:info@noemacongressi.it)).

## REGISTRATION FEES

(price including 22% VAT)

	Before September 10 <sup>th</sup>	After September 10 <sup>th</sup>
Physician	€ 400,00	€ 450,00
Physician SICCH, TSCVS, IACTS Members*	€ 300,00	€ 350,00
Nurse	€ 120,00	€ 120,00
Resident	€ 120,00	€ 120,00
Perfusionist	€ 120,00	€ 120,00
Conference dinner	€ 120,00	€ 120,00

*\*Reduced fee for individual registrations only*

### Registration fee includes:

Admittance to all sessions, access to the exhibition, Congress kit, coffee breaks, light lunches on October 28<sup>th</sup> and 29<sup>th</sup>.

## HOW TO REGISTER

### On-line registration

on the website: <https://bhss2024.noemacongressi.it>

## ORGANIZING SECRETARIAT

N O E M A

Via Orefici, 4 - 40124 Bologna (Italy)  
Ph. +39 051 230385  
[info@noemacongressi.it](mailto:info@noemacongressi.it)  
[www.noemacongressi.it](http://www.noemacongressi.it)

