

WORK BOOK²⁰¹⁷

CSI FOCUS IMAGING / JUNE 28

CSI FOCUS PFO / JUNE 28

CSI FOCUS INNOVATION / JUNE 28

CSI CONFERENCE / JUNE 29 – JULI 1

FRANKFURT, GERMANY



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AND SHARE!



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LIVE CASES

143



CSI FOCUS IMAGING / WEDNESDAY

	MAIN ARENA HARMONIE	ROOM CONCLUSIO	ROOM D1	ROOM B1
07.00–08.00	BREAKFAST IN THE INDUSTRY EXHIBITION			
08.00–09.00	p. 50 WHAT'S NEW IN IMAGING?			
09.00–10.00	p. 51 THE ATRIAL SEPTUM	p. 51 PULMONARY VALVE		
10.00–10.30	TEA AND COFFEE BREAK IN THE INDUSTRY EXHIBITION			
10.30–12.30	p. 52 TRICUSPID VALVE REPAIR	p. 53 ASSESSMENT OF AORTIC VALVE FOR TAVI		Booklet training hub HANDS-ON TRAINING WITH ECHO NAVIGATOR Philips
12.40–14.10	p. 54 FETAL ECHO	p. 54 IMAGING OF CORONARY FISTULAS		
14.10–16.20	p. 55 MITRAL VALVE REPAIR	p. 56 COARCTATION AND HYPOPLASTIC AORTIC ARCH	p. 57 LAA CLOSURE	Booklet training hub HANDS-ON TRAINING WITH ECHO NAVIGATOR Philips
16.20–16.50	TEA AND COFFEE BREAK IN THE INDUSTRY EXHIBITION			
16.50–18.50	p. 58 PARAVALVAR LEAK CLOSURE	p. 59 VSD CLOSURE		



LEGEND

- Live case
- Lecture & discussion
- Lunch session with lunch boxes
- Training hub – Hands-on training
- CSI Focus Imaging Sessions
- CSI Focus PFO Sessions
- CSI Focus Innovation Sessions

FREE WIFI

- SSID: Congress WiFi
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Password: CSI62017



CSI FOCUS PFO / WEDNESDAY

ROOM SPEKTRUM	
07.00–08.00	BREAKFAST IN THE INDUSTRY EXHIBITION
08.00–10.00	p. 62 BACKGROUND, ANATOMY, PFO ASSOCIATED DISORDERS  
10.00–10.30	TEA AND COFFEE BREAK IN THE INDUSTRY EXHIBITION
10.30–12.30	p. 63 DEVICES AND TRIALS RESULTS 
12.40–15.10	p. 64 HOW TO CLOSE   
15.10–16.20	p. 65 OTHER PFO CLOSURE DEVICES 
16.20–16.50	TEA AND COFFEE BREAK IN THE INDUSTRY EXHIBITION
16.50–18.50	p. 66 HOW TO SELECT APPROPRIATE PATIENTS AND HOW TO BUILD A PFO PROGRAM  



CSI FOCUS INNOVATION / WEDNESDAY

ROOM FANTASIE	
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08.30–08.50	p. 70 WELCOME AND INNOVATION LECTURE 
08.50–09.50	p. 70 FINDING AND ASSESSING A NEED 
09.50–11.00	p. 71 EARLY CONCEPT GENERATION: PROTOTYPES, IP AND ITERATION 
11.00–11.20	TEA AND COFFEE BREAK IN THE INDUSTRY EXHIBITION
11.20–12.30	p. 72 FEASIBILITY ASSESSMENT AND PRECLINICAL TRIALS 
12.30–13.30	NETWORKING LUNCH 
13.30–14.30	p. 73 REGULATORY ENVIRONMENTS 
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15.30–16.40	p. 74 RUNNING A STARTUP COMPANY 



YOUR CSI PROGRAM OVERVIEW



PICK UP YOUR
LUNCH BOX
IN THE INDUSTRY
EXHIBITION

CSI PROGRAM STRUCTURE

- **During blue colored “Live Only” sessions**, our live centers will take center stage, showing a wide range of cases from both the adult and pediatric fields, uninterrupted by lectures!
- **The red colored “Focus Live” sessions**, which consist of lectures and a step by step live case, will give you more in depth knowledge of a particular topic.
- **The green colored “Seminar” sessions** will consist of lectures only and will run parallel to all live case sessions.

Use the program overview on this page to plan which sessions to attend! For detailed information refer to the scientific program from page 45 to 127.

REFRESHMENTS, BREAKFAST & LUNCH BOXES

Breakfast will be served daily from 7.00 to 8.00 and lunch boxes from 12.00 to 13.30 in the exhibition area on the 1st and 2nd floor. All bars on the 1st and 2nd floor will be open all day, every day!

SOCIAL DINNER

You are cordially invited to join us for the CSI social dinner at restaurant “ALEX” Frankfurt Skyline Plaza, on Friday, June 30, 2017 from 19.30 to 23.00. The restaurant is situated 10 minutes walking distance from the congress center. We will meet at 19.00 in front of the entrance of the congress center to walk to the dinner location. Don’t forget to bring your coat. Dress code is casual.
www.dein-alex.de

LEGEND

-  Live case
-  Lecture & discussion
-  Lunch session with lunch boxes
-  Training hub – Hands-on training
-  “Live Only” sessions
-  “Focus Live” sessions
-  “Seminar” sessions
-  “Keynote lecture” & “Breakout” sessions

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CSI CONFERENCE / THURSDAY

	MAIN ARENA HARMONIE	ROOM SPEKTRUM	ROOM FANTASIE	ROOM CONCLUSIO	ROOM E1	EXHIBITION AREA
07.00–08.00	p. 79 / ABSTRACT ORAL SESSION + BREAKFAST IN THE INDUSTRY EXHIBITION					
08.00–10.00	p. 80 LIVE CASE TRANSMISSIONS AND WHAT'S NEW					
10.00–10.30	TEA AND COFFEE BREAK IN THE INDUSTRY EXHIBITION					
10.30–12.40	p. 81 FOCUS LIVE LAA closure	p. 82 FOCUS LIVE TAVI	p. 84 SEMINAR Interventions for duct-dependent pulmonary circulation	Booklet training hub HANDS-ON WORKSHOP FOR THE INTERVENTIONALIST (10.30 – 12.40)	Booklet training hub 3MENSIO WORKSHOP MITRAL VALVE PIE Medical (10.30 – 11.30)	Booklet training hub HANDS-ON WORKSHOP: NEOCHORD BEATING HEART MITRAL REPAIR NeoChord / LifeTec Group (all day)
11.35–12.40			p. 85 SEMINAR Stent technologies			Booklet training hub SURGICAL PLANNING: IT'S ABOUT 3D STRUCTURE PS-Medtech (all day)
12.45–14.25	p. 85 LIVE ONLY 1	p. 86 SEMINAR Interventions for duct-dependent systemic circulation	p. 87 SEMINAR Mitral valve repair Part 1		Booklet training hub CT TRAINING: CT EVALUATION FOR TRANSCATHETER VALVE THERAPIES (12.45 – 14.25)	
14.30–16.15	p. 88 FOCUS LIVE PDA closure	p. 89 SEMINAR Stenting RVOT in Tetralogy of Fallot and related pathology	p. 90 SEMINAR Mitral valve repair Part 2			
16.15–16.45	TEA AND COFFEE BREAK IN THE INDUSTRY EXHIBITION					
16.45–18.30	p. 91 LIVE ONLY 2	p. 92 FOCUS LIVE Coronary artery fistulas – Imaging and treatment techniques	p. 93 SEMINAR Coarctation		Booklet training hub 3MENSIO WORKSHOP MITRAL VALVE Pie Medical (16.30 – 17.30)	



CSI CONFERENCE / FRIDAY

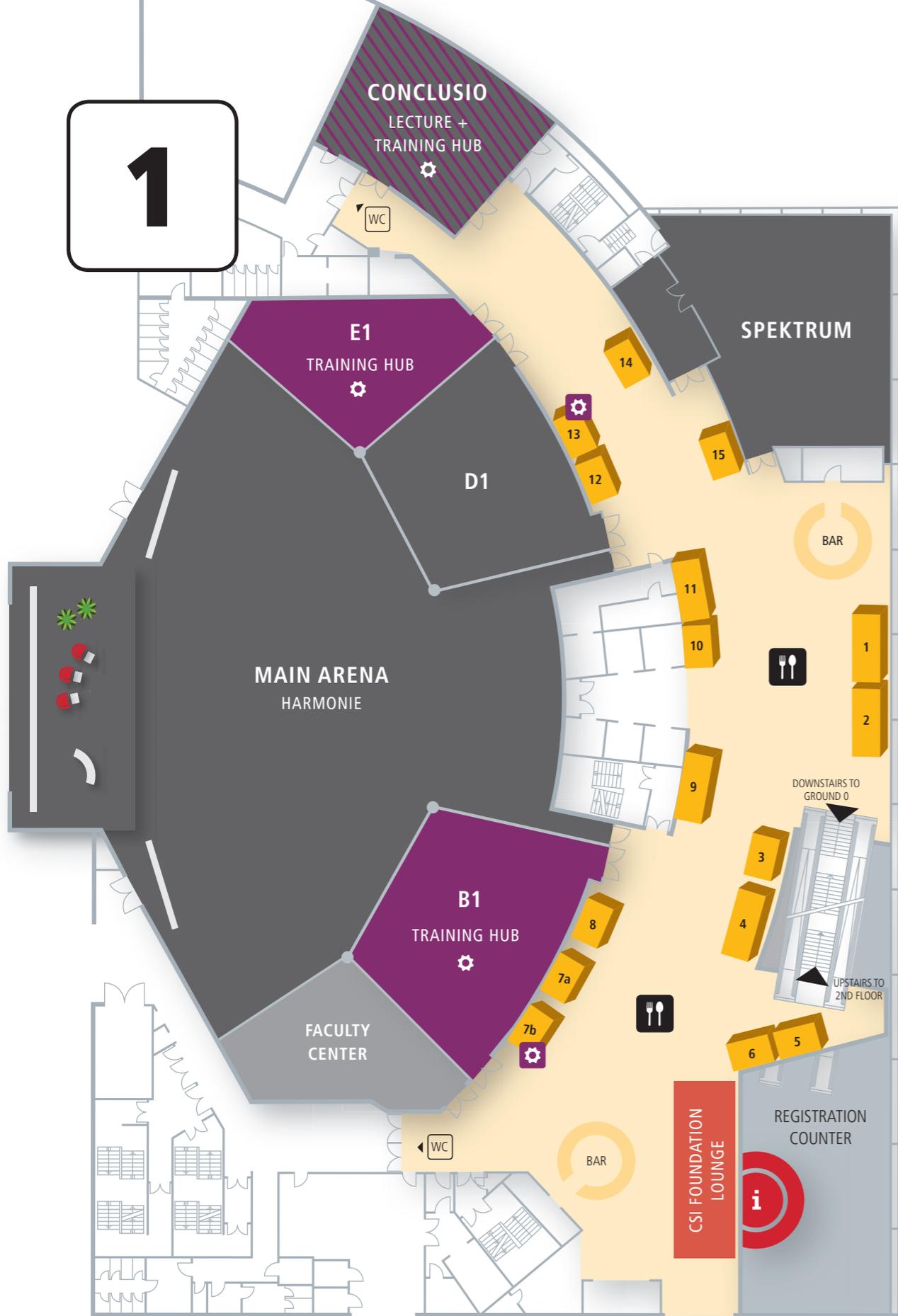
	MAIN ARENA HARMONIE	ROOM SPEKTRUM	ROOM FANTASIE	ROOM CONCLUSIO	ROOM E1	EXHIBITION AREA
07.00–08.00	p. 97 / E-POSTER SESSION + BREAKFAST IN THE INDUSTRY EXHIBITION					
08.00–10.00	p. 98 LIVE ONLY 3					
09.30–10.00	p. 98 INTERVIEW WITH JAMES LOCK					
10.00–10.30	TEA AND COFFEE BREAK IN THE INDUSTRY EXHIBITION					
10.30–12.40	p. 99 SEMINAR Challenges with TAVI	p. 100 FOCUS LIVE ASD closure	p. 101 SEMINAR Update on established and upcoming LAA closure devices			Booklet training hub HANDS-ON WORKSHOP: NEOCHORD BEATING HEART MITRAL REPAIR NeoChord / LifeTec Group (all day)
12.45–14.25	p. 102 LIVE ONLY 4	p. 102 FOCUS LIVE LAA closure with the new LAMBRE occluder	p. 103 SEMINAR Heart failure interventions Part 1	p. 104 SEMINAR Transseptal puncture		Booklet training hub SURGICAL PLANNING: IT'S ABOUT 3D STRUCTURE PS-Medtech (all day)
14.30–16.05	p. 106 FOCUS LIVE Stenting pulmonary arteries	p. 107 SEMINAR From fetus to adult – coarctation	p. 108 SEMINAR Heart failure interventions Part 2	p. 109 SEMINAR How to do ICE: case-based lectures	Booklet training hub 3D PRINTING WORKSHOP Materialise (14.30–16.00)	
16.15–16.45	TEA AND COFFEE BREAK IN THE INDUSTRY EXHIBITION					
16.45–18.30	p. 110 LIVE ONLY 5	p. 111 SEMINAR Mitral valve replacement	p. 112 SEMINAR Interventions in pulmonary hypertension	p. 113 PICES Breakout session		
19.30–23.00	SOCIAL DINNER – Meetingpoint: 19.00 in front of the entrance of the congress center					



CSI CONFERENCE / SATURDAY

	MAIN ARENA HARMONIE	ROOM SPEKTRUM	ROOM FANTASIE	ROOM CONCLUSIO	ROOM E1	EXHIBITION AREA
07.00–08.00	BREAKFAST IN THE INDUSTRY EXHIBITION					
07.00–08.00	p. 117 SEMINAR NEIL WILSON'S CHALLENGING CASES					
08.00–10.10	p. 118 LIVE ONLY 6	p. 118 FOCUS LIVE MitraClip	p. 119 SEMINAR Pulmonary valve implantation	Booklet training hub CT TRAINING: HANDS-ON TRAINING FOR LAA CLOSURE (08.30 – 10.30)		Booklet training hub HANDS-ON WORKSHOP: NEOCHORD BEATING HEART MITRAL REPAIR NeoChord / LifeTec Group (all day)
10.10–10.40	TEA AND COFFEE BREAK IN THE INDUSTRY EXHIBITION					
10.40–13.05	p. 120 FOCUS LIVE VSD closure	p. 121 SEMINAR Access to the heart transseptal, pericardial, transhepatic, aortic, transapical access	p. 122 SEMINAR Tricuspid repair and replacement	Booklet training hub CT TRAINING: HANDS-ON TRAINING OF CT EVALUATION FOR TAVI (11.00 – 13.00)		Booklet training hub SURGICAL PLANNING: IT'S ABOUT 3D STRUCTURE PS-Medtech (all day)
13.10–15.10	p. 124 LIVE ONLY 7	p. 125 FOCUS LIVE Paravalvar leak	p. 126 SEMINAR Hemodynamics for interventionalists			
15.10–15.40	TEA AND COFFEE BREAK IN THE INDUSTRY EXHIBITION					
15.40–18.00	p. 126 LIVE ONLY 8					





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SECOND FLOOR

- ROOM FANTASIE
- BREAKFAST AND LUNCH BOXES
- INDUSTRY EXHIBITION
- E-POSTER LOUNGE

1

FIRST FLOOR

- MAIN ARENA HARMONIE
- ROOM B1
- ROOM D1
- ROOM E1
- ROOM CONCLUSIO
- ROOM SPEKTRUM
- BREAKFAST AND LUNCH BOXES
- CSI FOUNDATION LOUNGE
- TRAINING HUB
- FACULTY CENTER
- INDUSTRY EXHIBITION

0

GROUND FLOOR

- REGISTRATION COUNTER
- FACULTY CHECK-IN
- CSI INFORMATION (i)
- WARDROBE
- ENTRANCE



FINDING YOUR WAY AROUND



WEDNESDAY

CSI FOCUS IMAGING

Main Arena Harmonie
Room Conclusio
Room B1

CSI FOCUS PFO

Room Spektrum

CSI FOCUS INNOVATION

Room Fantasie

THURSDAY TO SATURDAY

CSI CONGRESS

Main Arena Harmonie
Room Spektrum
Room Fantasie
Room Conclusio

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CSI EXHIBITING COMPANIES 2017

1

FIRST FLOOR

- 1 pfm medical
- 2 ABBOTT
- 3 Boston Scientific
- 4 GORE & Associates
- 5 Bentley
- 6 Comed B.V.
- 7a NeoChord
- 7b LifeTec Group / **Hands-on training** ⚙️
- 8 Lifetech Scientific
- 9 Venus MedTech
- 10 Medtronic
- 11 Occlutech
- 12 SentreHEART
- 13 PS-Medtech / **Hands-on training** ⚙️
- 14 Reichert / Buchhandlung für Medizin
- 15 PediaVascular

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SECOND FLOOR

- 16 Heartstitch
- 17 NVT
- 18 Materialise
- 19 Mitralign
- 20 Baylis Medical
- 21 Corvia Medical
- 22 Bavaria Medizin Technologie
- 23 AtriCure
- 24 Siemens



CSI 2017
GENERAL
INFORMATION





WELCOME TO CSI 2017 IN FRANKFURT

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WELCOME GENERAL INFORMATION

It is a great pleasure to welcome you to CSI Frankfurt 2017 and we look forward to spending the next four days with you. We have developed an exciting program with more than 250 lectures and over 30 scheduled live cases. As always, we will run a number of Focus Workshops on the first day of the conference, followed by a 3-day comprehensive overview of catheter interventions in congenital, structural and valvar heart disease.

New this year is a full day Focus Workshop on patent foramen ovale closure. The procedure first started to draw the attention of cardiologists back in the 90ies – flash back to the very first CSI Frankfurt in 1996 when the CSI directors presented their first experiences of PFO closure! A long period of controversy surrounding the procedure followed due to early trials of PFO closure failing to meet their

primary endpoints. In the past year however there have been promising developments: meta-analyses and longer-term data have shown benefits for PFO closure in terms of reducing recurrent stroke, leading the FDA to approve the Amplatzer PFO Occluder device (St. Jude Medical). In recent months, the REDUCE (Gore) and CLOSE trial data have provided further support for endovascular PFO closure by showing that use of an occluder in conjunction with antiplatelet therapy is superior in reducing recurrent events compared with antiplatelet therapy alone. Whilst currently the Amplatzer device is the only one approved by the FDA for PFO closure, the results of REDUCE and CLOSE will trigger change to practice and guidelines not only in the US but worldwide making PFO closure the hot topic of the year!



At CSI Frankfurt it is our goal to stay at the forefront of technology, innovation and medical device development.

We have introduced our Focus Workshops to address topics that are particularly relevant due to recent developments, and to cater to particular interests of attendees of CSI. During CSI our Focus Workshops will cover imaging for congenital, structural and valvar heart interventions (CSI Focus Imaging); innovation and processes of device design (CSI Focus Innovation) and of course patent foramen ovale closure (CSI Focus PFO). Aside from this, we run a workshop on left atrial appendage closure (CSI Focus LAA – November 17 – 18, 2017) and devices in heart failure (CSI Focus D-HF – December 15 – 16, 2017). We organize these workshops for your benefit and we welcome your feedback and suggestions.

Please don't be afraid to speak up during sessions or stop any of the directors or faculty for a chat during the breaks. With your help we hope to make CSI even more interesting in the future and we value input from each and every one of you. Thank you for being part of CSI!

Sincerely yours,
The CSI course directors
Horst Sievert, MD
Mario Carminati, MD
Neil Wilson, MD
Shakeel A. Qureshi, MD





MAKE THE MOST OF THE CSI EXPERIENCE



ASK QUESTIONS AND SHARE YOUR EXPERIENCE

You – as an attendee – can contribute to make our congress even more interesting and successful if you engage in detailed and open discussions with the panel and fellow colleagues. For this reason, we encourage you to **participate actively by asking questions, sharing your experience, and disagreeing, when you feel that something should be done differently.** To encourage interactive dialogue, a microphone will be placed on every table in the main lecture hall. Push the button to ask a question or make a comment and become interactive by contributing to the session. In other rooms members of our faculty – session facilitators – will run to you with a portable microphone the moment you raise your hand! **Your feedback makes us all better and we are here to learn from each other.**

BECOME A MEMBER OF THE SPONTANEOUS FACULTY

Many colleagues in the CSI audience have great experience on a certain device or procedure being shown in the live cases during the conference. Prior to or during the sessions,

the moderator will ask one of the attendees to join the panel to share their experience with the live case presenter, the scientific faculty and their colleagues in the hall.

PROGRAM STRUCTURE

The scientific program of CSI Frankfurt allows you to customize your learning experience according to your personal requirements: **There will be three parallel main sessions at all times offering different types of learning experience,** ranging from 100% live cases (Live Only), a mixture between step by step live case presentations and lectures on particular topics (Focus Live), or seminar sessions consisting of lectures and debates only. Parallel streams of adult, pediatric or mixed sessions enable you to tailor the program to your particular needs. **Use the program overview from page 4 to 7 to plan which sessions to attend!**



DO NOT MISS ...

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DO NOT MISS ... GENERAL INFORMATION

THE JAMES LOCK INTERVIEW

As a special highlight this year, James Lock, inventor and developer of many cardiac catheterization devices and non-surgical procedures will speak to us about his achievements, his recent innovative program to standardize clinical care and the future of cardiovascular interventions. The interview will take place **on Friday, 9.30.**

/p. 98

THE HILDICK-SMITH DEBATE FEATURING MARTYN THOMAS

This type of debate was first performed by David Hildick-Smith a number of years ago ... hence the name! This year Martyn Thomas will debate with himself whether the future of TAVI is self-expanding or balloon expandable.

The debate will take place during the Seminar on "Challenges with TAVI", **Friday, 10.30 – 12.40.**

/p. 99

NEIL WILSON'S CHALLENGING CASES

Neil Wilson has been a feature of CSI since 1999 and his British sense of humour coupled with serious debate has established this early morning session as a favorite for many regular attendees. Neil is unable to attend this year so his sidekick Shakeel A. Qureshi will chair the session on challenging cases on **Saturday morning, 7.00 – 8.00.**

/p. 117

THE APPROACH CHALLENGE

The speaker will present his approach to a particular topic, device or procedure. He will then need to defend his approach against two challengers and their opinions. We have two approach challenges planned in the program:

During the session on LAA closure on **Thursday, 10.30 – 12.40,** Maurice Buchbinder will argue that LAA occlusion should be performed in cases of valve disease or after valve surgery. Sameer Gafoor and Stefan Bertog will be the challengers.

/p. 81

During the VSD closure session on **Saturday, 10.40 – 13.05,** Bharat Dalvi will defend his opinion that small VSDs should be closed against the challengers Gareth Morgan and Shakeel A. Qureshi.

/p. 120

THE E-POSTER PRESENTATION

This will take place on **Friday morning, 7.00 – 8.00** in the E-Poster session on the second floor of the congress centre. You can also visit the lounge at any time to browse through over 100 posters that were submitted for the meeting.

Get an overview of all abstracts submitted for CSI 2017 on page 129 to 141.

/p. 97

THE TRAINING HUB

CSI 2017 will, once again, offer hands-on simulation workshops and model training. Benefit from case based or hands-on training sessions organized by our industry partners. Spaces are limited, so make sure to pre-register with the industry representatives in the exhibition.

/ Refer to the separate training hub booklet

THE INDUSTRY EXHIBITION

Meet our partners at the industry exhibition on the first and second floor and learn about the latest products, data and resources to facilitate your daily practice and improve patient outcomes. The very latest cardiovascular developments will be represented at the exhibition and debated during the congress.

THE DAILY BREAKFAST

We will serve breakfast **every morning at 7.00** in the industry exhibition on the first and second floor.

THE CSI FOUNDATION LOUNGE

Sit back and relax on the first floor in the CSI Foundation Lounge. Use this opportunity to network with your peers, the faculty and industry representatives. There will be live streaming from the Main Arena so you will not miss any of the action!

Refreshments will be available all day, every day at the CSI Foundation bar.

THE SOCIAL DINNER

You are cordially invited to join us for the CSI social dinner at restaurant "ALEX" Frankfurt Skyline Plaza, on **Friday, June 30, 2017 from 19.30 – 23.00**. Dress code is casual.

The restaurant is situated 10 minutes walking distance from the congress center. We will meet at 19.00 in front of the entrance of the congress center to walk to the dinner location.

www.dein-alex.de





LEARNING OBJECTIVES

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LEARNING OBJECTIVES GENERAL INFORMATION

WEDNESDAY, JUNE 28 CSI FOCUS IMAGING: INTERVENTIONAL IMAGING – MORE THAN IMAGES!

Many new catheter-based treatment options have become available in the last decade, revolutionizing the management of congenital, structural and valvar heart disease. Successful planning, performance and aftercare of these interventions depend heavily on accurate imaging. Intraprocedural guidance can be facilitated by established imaging modalities such as transesophageal 2D and 3D echocardiography and by novel techniques including echo-fluoroscopy overlay and 3D modeling/printing. Computed tomography and magnetic resonance imaging are particularly helpful for precise preprocedural morphology assessment and device sizing. New imaging tools such as holography are on the horizon. CSI Focus Imaging 2017 is designed specifically to provide physicians involved in congenital, structural and valvar interventions with the necessary imaging tools for safe and

effective procedural performance. Furthermore, it familiarizes attendees with imaging techniques that are on the horizon, but not yet used in routine clinical practice. Lectures by leading experts in the field will be complemented by live transmissions to illustrate basic and advanced concepts of imaging for structural heart disease interventions. CSI Focus Imaging is one of a kind and a natural complement to CSI.

WEDNESDAY, JUNE 28 CSI FOCUS PFO: PATENT FORAMEN OVALE CLOSURE

In October 2016 the FDA finally gave the green light to St. Jude Medical's Amplatzer device for patent foramen ovale (PFO) closure making it the first device of its kind to be approved in the US. More recently, data from the CLOSE and REDUCE (Gore) studies was published, suggesting that PFO closure combined with antiplatelet therapy is superior in reducing recurrent cryptogenic stroke compared



to antiplatelet therapy alone. PFO closure has been controversial over the past 10 years but these recent developments are likely to trigger changes to guidelines and procedures as well as further innovation in this field worldwide. At CSI Focus PFO you will learn everything you need to know about this field: indication, imaging, device selection, technique and complication management. Live cases will be an important part of this learning experience.

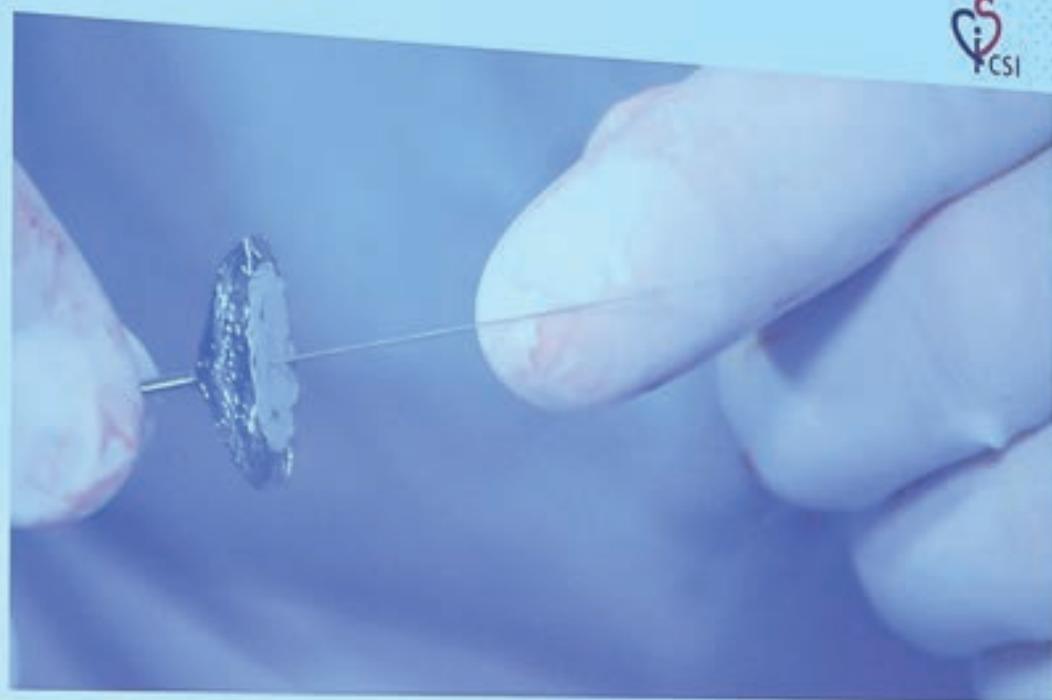
WEDNESDAY, JUNE 28
CSI FOCUS INNOVATION:
PROCESSES IN DEVICE
DESIGN

Congenital, structural and valvar interventions are the fastest growing fields in cardiology, with less invasive, percutaneous methods continuing to prevail. The field has progressed from the ability to treat atrial septal defects, to now having percutaneous interventions for many intracardiac defects, valvar repairs and replacements, heart failure and beyond.

The process begins with defining a clinical need which engages device developers, engineers and companies to analyze and create solutions. Solutions are developed, tested, put forward in animal trials, re-tested, brought to regulatory authorities, tested in First-in-Man trials – all with the hopes of leading to regulatory approvals, reimbursement and market adoption.

CSI Focus Innovation brings together people with differing areas of expertise to discuss the processes needed to design a device from the beginning, all the way to the creation, management and growth strategy of a medical device company and therapy.





LEARNING OBJECTIVES



THURSDAY, JUNE 29 TO
SATURDAY, JULY 1

CSI CONFERENCE:

A UNIQUE LEARNING
EXPERIENCE IN CONGENITAL,
STRUCTURAL AND VALVAR
HEART INTERVENTIONS

CSI Frankfurt will provide a deep dive into major topics in catheter-based therapy of congenital, structural and valvar heart disease for adult and paediatric interventional cardiologists, cardiothoracic surgeons, anesthesiologists, nurses, technicians and any other medical specialty involved in these procedures. The program will include lectures from leading experts in the field, live case demonstrations, hands-on simulation training, debates, a poster presentation and of course an industry exhibition.

Use this opportunity to discover new areas of interest: you will be able to gain hands-on experience on simulators in our training hub; we will cover the newest devices, techniques and procedures and you can take this chance to explore new fields such as device therapies for heart failure.

We pride ourselves on offering a personal experience to our faculty and attendees. **Interaction between panel, operators and audience is encouraged at all times.** We try not to take ourselves too serious – we debate with humour, question with a smile and disagree with respect.

We hope that CSI 2017 will provide you with an exciting learning and networking experience and allow you to become familiar with the newest techniques, technology and concepts.

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LEARNING OBJECTIVES GENERAL INFORMATION





KEY ADDRESSES

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KEY ADDRESSES GENERAL INFORMATION

CONGRESS VENUE CONGRESS CENTER FRANKFURT

Ludwig-Erhard-Anlage 1
60327 Frankfurt, Germany
www.congresscenter.de

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SOCIAL DINNER VENUE ON FRIDAY JUNE 30, 2017 ALEX FRANKFURT SKYLINE PLAZA

Europa-Allee 6
60327 Frankfurt, Germany
www.dein-alex.de



ATTENDEE INFORMATION



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ATTENDEE INFORMATION GENERAL INFORMATION

We hope that you will enjoy the conference. Please note the following points of general information:

OPENING HOURS

- Wednesday, June 28, 2017
7.00 – 19.00
- Thursday, June 29, 2017
7.00 – 18.30
- Friday, June 30, 2017
7.00 – 18.30
- Saturday, July 1, 2017
7.00 – 18.00

FREE WIFI

SSID: Congress WiFi
Username: CSI62017
Password: CSI62017

CONGRESS LANGUAGE

The official language of the conference is English. There will be no simultaneous interpretation.

STAY UP TO DATE

Sign up for the CSI newsletter on www.csi-congress.org/news to keep yourself informed about the latest news on CSI.

DOWNLOADS

Content of CSI 2017 will be available for download at CSI@home. We will e-mail you the log-in data in August 2017. So please ensure that we have your e-mail address when you pick up your badge from the welcome team.

All abstracts and cases are available for download on the CSI website:

**[www.csi-congress.org/
csi-frankfurt/abstracts-cases](http://www.csi-congress.org/csi-frankfurt/abstracts-cases)**

IF YOU REQUIRE FURTHER INFORMATION OR NEED ANY ASSISTANCE PLEASE STOP BY THE REGISTRATION COUNTER.

Thank you for your attention,
cme4u GmbH
Congress organization



ACCREDITATION BY THE GERMAN CARDIAC SOCIETY AND EBAC

CSI FOCUS IMAGING 2017

- 6 CME credits by the EBAC Board
- 6 CME credits by the DGK (applied for)



German Cardiac Society

CSI FOCUS PFO 2017

CME credits by the EBAC are applied

CSI FOCUS INNOVATION 2017

CME credits by the EBAC are applied

CSI 2017

- 18 CME credits by the EBAC Board
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HOW CAN YOU GET YOUR CERTIFICATE OF ATTENDANCE AND CME CREDITS?

Thank you for attending CSI Focus Imaging, CSI Focus PFO, CSI Focus Innovation and CSI 2017!

Please keep in mind that due to rules and regulations we can provide your CME credits and certificate only if you have filled in the evaluation form which you will find on the congress homepage www.csi-congress.org or directly on www.csi-congress.org/evaluation.



As the certificate of attendance will be sent by email, please ensure that your contact details are up to date when you pick up your badge from the welcome team at the registration counter.

The certificate of attendance will be sent by email by July 15, 2017.

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CSI FOUNDATION

DEDICATED TO THE DEVELOPMENT OF
CONGENITAL, STRUCTURAL AND VALVAR
HEART INTERVENTIONS WORLDWIDE



www.csi-foundation.org



WHAT IS THE CSI FOUNDATION?



Minimally invasive, catheter-based treatment of congenital, structural and valvar heart disease is one of the fastest growing fields in medicine. Today, all kinds of congenital and acquired cardiac defects as well as valvar heart diseases can be treated percutaneously.

THERE IS A NEED FOR FURTHER DEVELOPMENT

Research and multidisciplinary collaboration is key to unlocking the potential for further and more advanced treatment modalities. Additionally, there remains a large potential to further develop and improve training, infrastructure and treatment worldwide.

WHAT IS THE CSI FOUNDATION?

The CSI Foundation is a not-for-profit organization that has been formed to aid the development of congenital, structural and valvar heart interventions worldwide. Primarily, the CSI Foundation aims to achieve this by encouraging and promoting research in the field and by providing training initiatives and educational opportunities to doctors, technicians and nurses. It supports

and promotes global and multi-disciplinary collaboration, particularly in regions that currently lack progress and infrastructure for diagnosis and effective treatment. The CSI Foundation is passionate about the interface of clinical medicine and the rapid spreading of ideas, including educational meetings and physician training initiatives.

WE AIM TO PROVIDE

- educational conferences and workshops
- a forum for exchange of information
- training opportunities for updating practical skills
- networking opportunities
- help and advice on research and publication in international journals

BECOME A MEMBER AND SUPPORT THE FOUNDATION

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WWW.CSI-FOUNDATION.ORG



CSI-UCSF

SEPTEMBER 8 – 9, 2017 | SAN FRANCISCO, USA



University of California
San Francisco

This conference will give you a comprehensive overview of major topics in catheter and device therapy for structural and valvar heart disease, in addition to novel therapies for atrial fibrillation and heart failure. There will also be sessions on catheter therapy for congenital heart disease in adults.



CSI FOCUS LAA

NOVEMBER 17 – 18, 2017 | FRANKFURT, GERMANY

Left atrial appendage closure for stroke prevention in atrial fibrillation is a good alternative to anticoagulation therapy. Learn everything you need to know about LAA closure at this workshop!



CSI AFRICA

DECEMBER 1 – 2, 2017 | NAIROBI, KENYA

CSI Africa is a 2-day course, designed to give attendees an overview of the most important catheter therapies of congenital, structural and valvar heart disease in children and adults. It is aimed in particular at physicians from the African continent.



D-HF

DECEMBER 15 – 16, 2017 | BERLIN, GERMANY

Heart failure is the next frontier in cardiovascular interventions. We will be discussing new approaches to treat heart failure in the context of the 2016 ESC clinical practice guidelines.

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CSI ASIA-PACIFIC
JANUARY 31 – FEBRUARY 3, 2018
HO CHI MINH CITY, VIETNAM

Focused on practice in the Asia-Pacific region, this meeting will give a comprehensive overview of major topics in catheter therapy of congenital, structural and valvar heart disease. CSI Asia-Pacific 2018 will be a joint meeting with the Vietnam Congress of Congenital and Structural Heart Disease.



CSI FRANKFURT
JUNE 27 – 30, 2018 | FRANKFURT, GERMANY

This conference will give you a comprehensive overview of catheter therapy of congenital, structural and valvar heart interventions. It is aimed at adult and pediatric interventional cardiologists, cardiothoracic surgeons, anesthesiologists, imaging specialists and any other specialty involved in these procedures.

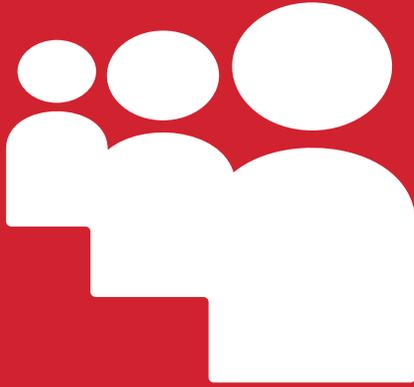
As always, on the first day of the conference we will run a number of focus workshops, including CSI Focus Innovation and Imaging. Updates on other focus topics will be available soon.





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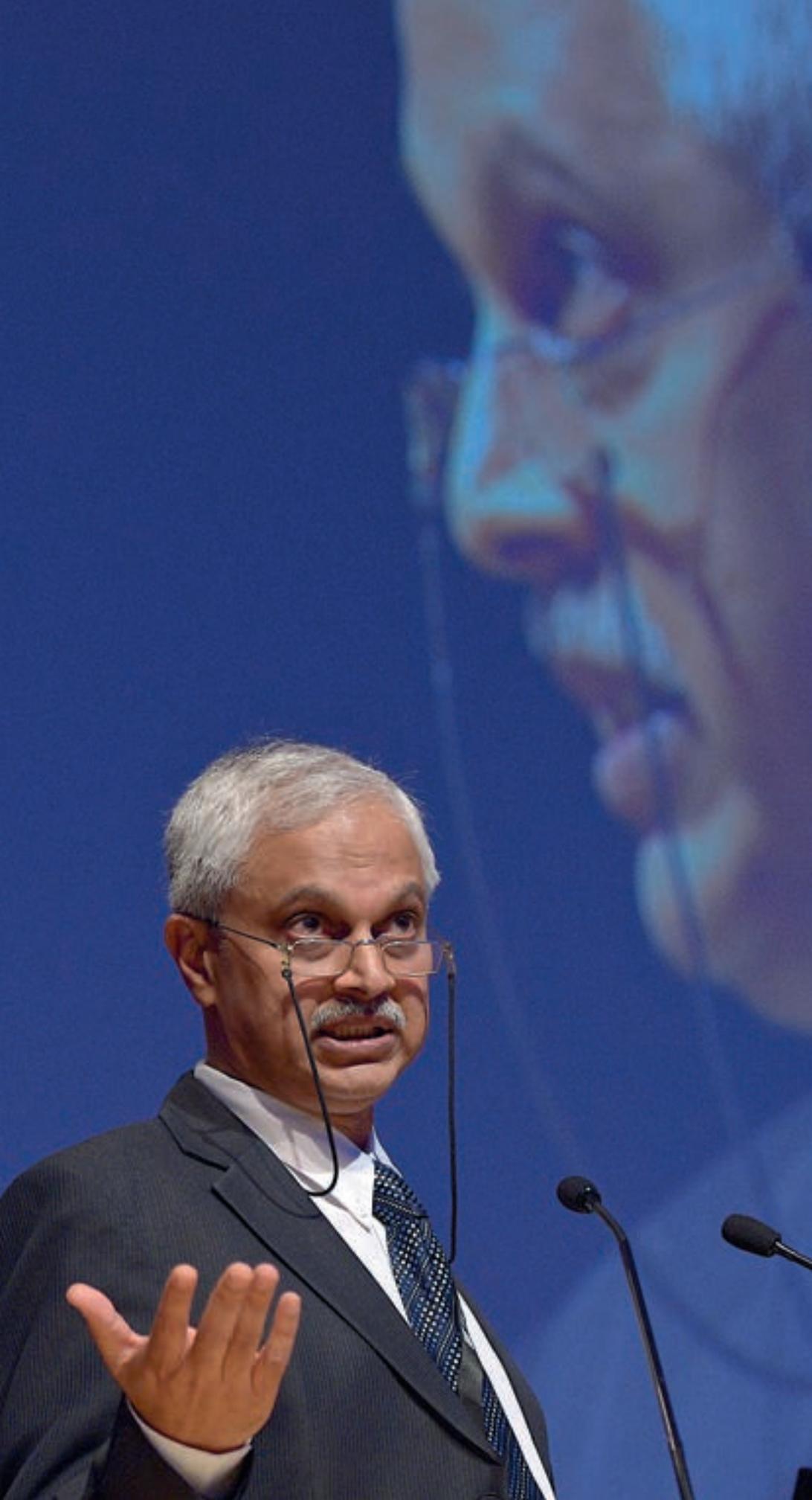
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JUNE 28, 2017

PROGRAM

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2017 JUNE 28 PROGRAM

WEDNESDAY



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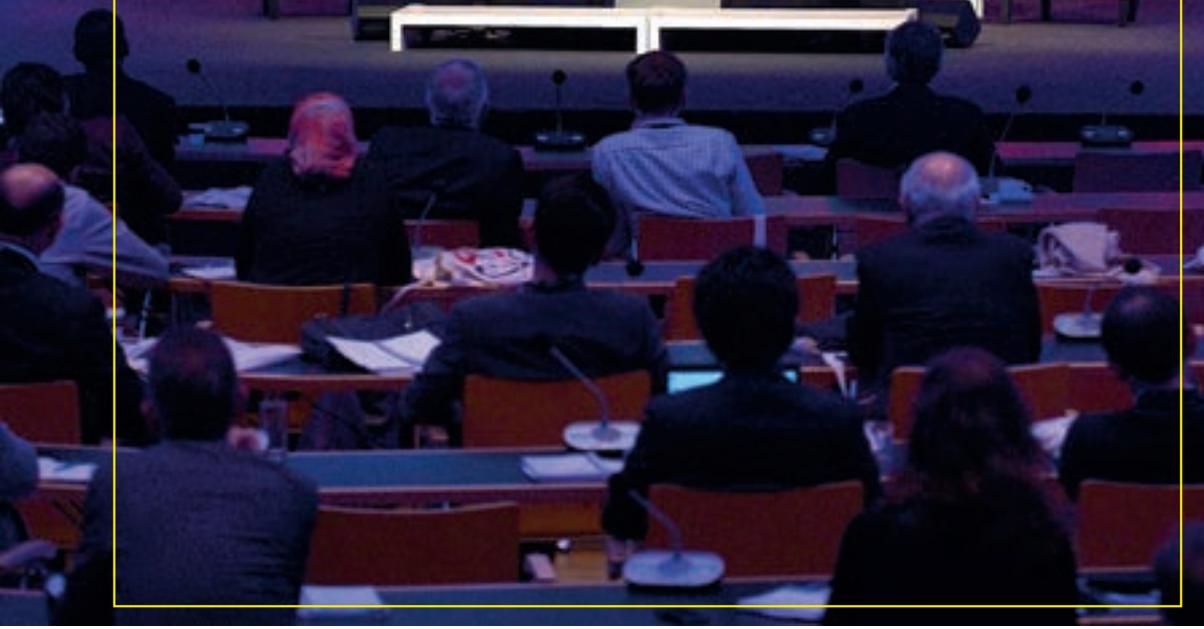


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TEE T: 39.4C
FW 22



82 bpm





CSI FOCUS WORKSHOPS WEDNESDAY

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WE WANT TO HEAR
YOUR OPINION !



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IMAGING

CSI FOCUS





07.00 – 09.00

07.00 – 08.00 / EXHIBITION AREA

BREAKFAST

08.00 – 08.05 / MAIN ARENA HARMONIE

WELCOME AND INTRODUCTION

/ Bushra Rana / Martin Swaans / Shakeel A. Qureshi / Horst Sievert

08.05 – 09.00 / MAIN ARENA HARMONIE



WHAT'S NEW IN IMAGING?

MODERATORS */ John Carroll / Elchanan Bruckheimer*

Patient specific computer simulation for structural and valvar heart interventions

/ Matthieu De Beule

Holography

/ Elchanan Bruckheimer

Virtual reality (Vesalius3D)

/ Mark Lausberg

Image guidance during structural procedures – Advancement in echo fusion imaging

/ John Carroll

What's new in 3D planning and printing for structural interventions?

/ Peter Verschueren

DISCUSSION



09.00 – 10.00 / MAIN ARENA HARMONIE



THE ATRIAL SEPTUM

MODERATORS / *Bushra Rana / Shakeel A. Qureshi*

Development and functional anatomy (PFOs & ASDs)

/ *Annalisa Angelini*

Echocardiographic assessment of PFOs and ASDs

/ *Bushra Rana*

LIVE CASES

from *CardioVascular Center Frankfurt CVC, Germany*

Periprocedural TEE-Imaging

/ *Matthew Daniels*

DISCUSSION

09.00 – 10.00 / ROOM CONCLUSIO



PULMONARY VALVE

MODERATORS / *Mario Carminati / Marc Gewillig*

Pulmonary valve/RVOT anatomy and pathophysiology

/ *Karen McCarthy*

Strength and weakness of MDCT and MRI prior to transcatheter pulmonary valve replacement

/ *Carlos Ruiz*

How to assess pulmonary regurgitation and RV function

/ *Alessandra Frigiola*

Are the current indications for pulmonary valve implantation adequate

/ *Marc Gewillig*

DISCUSSION

10.00 – 10.30 / EXHIBITION AREA

TEA AND COFFEE BREAK



10.30 – 12.30

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CSI FOCUS IMAGING PROGRAM WEDNESDAY

10.30 – 12.30 / MAIN ARENA HARMONIE



TRICUSPID VALVE REPAIR

MODERATORS / *Rebecca Hahn / Allison Cabalka*

Tricuspid valve anatomy and pathophysiology

/ *Annalisa Angelini*

How do we identify the suitable patient using different imaging modalities?

/ *Rebecca Hahn*

LIVE CASES

from CardioVascular Center Frankfurt CVC, Germany

How to guide a Mitraclip procedure for tricuspid regurgitation

/ *Christoph Hammerstingl*

How to guide a Cardioband procedure for tricuspid regurgitation

/ *Stephan von Bardeleben*

How to guide a 4tech procedure

/ *Paolo Denti*

How to guide a Tricalign procedure

/ *Rebecca Hahn*

How to follow up after tricuspid valve repair

/ *Rebecca Hahn*

DISCUSSION



10.30 – 12.30 / ROOM CONCLUSIO



ASSESSMENT OF AORTIC VALVE FOR TAVI

MODERATORS / *Carlos Ruiz / Jian'an Wang*

How to predict PVL after TAVI

/ *Martin Swaans*

DEBATE

– TAVI sizing can be done with TEE

/ *Bushra Rana*

– CT scan is really necessary

/ *Carlos Ruiz*

Assessing vascular access risk using imaging

/ *Jian'an Wang*

How to grade PVL during and after TAVI: a multimodality approach

/ *Bushra Rana*

Angiographic quantification of PVL after TAVI

/ *Martin Swaans*

How can non-invasive imaging help in valve choice?

/ *Thomas Walther*

When to treat and when not to treat the failing bioprosthesis: indications and contraindications for TAVI

/ *Philip MacCarthy*

TAVI degeneration: assessment and management

/ *Bushra Rana*

DISCUSSION





12.35 – 14.05

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CSI FOCUS IMAGING PROGRAM WEDNESDAY

12.35 – 14.05 / MAIN ARENA HARMONIE



FETAL ECHO

MODERATORS / *Sally Ann Clur / Roland Gitter*

Fetal echocardiography – How and when to do?

/ Sally Ann Clur

LIVE CASES

from CardioVascular Center Frankfurt CVC, Germany

Common congenital heart abnormalities: who will need early intervention postnatally?

/ Sally Ann Clur

Borderline hearts: predicting postnatal management and considerations for fetal intervention

/ Roland Gitter

Pitfalls in prenatal diagnosis

/ Gurleen Sharland

New modalities in fetal cardiac diagnosis

/ Kuberan Pushparajah

DISCUSSION

12.35 – 14.05 / ROOM CONCLUSIO



IMAGING OF CORONARY FISTULAS

MODERATORS / *Israel Valverde / Shakeel A. Qureshi*

Limitations of echo – Strengths and weaknesses of CT and MRI

/ Kuberan Pushparajah

Prenatal diagnosis of coronary artery fistulas

/ Gurleen Sharland

3D printing in planning treatment

/ Israel Valverde

Circle of Vieussens in adults – Does it need treatment?

/ Shakeel A. Qureshi

DISCUSSION

14.10 – 16.20 / MAIN ARENA HARMONIE



MITRAL VALVE REPAIR

MODERATORS / *Ted Feldman / Ulrich Schaefer*

The anatomical and physiological complexity of the mitral valve

/ Karen McCarthy

Echocardiographic assessment of mitral regurgitation before, during and after intervention

/ Christoph Hammerstingl

LIVE CASES

from CardioVascular Center Frankfurt CVC, Germany

Anatomical challenges for percutaneous E2E repair

/ Ted Feldman

Anatomical challenges for mitral annuloplasty

/ Stephan von Bardeleben

Anatomical challenges for mitral replacement

/ Lars Sondergaard

One clip, two clips, more clips: how to guide the decision

/ Stephan von Bardeleben

MitraClip in HOCM patients

/ Ulrich Schaefer

MitraClip for left ventricular outflow tract obstruction after mitral valve ring repair: case example

/ Stefan Bertog

DISCUSSION





14.10 – 16.20

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CSI FOCUS IMAGING PROGRAM WEDNESDAY

14.10 – 16.20 / ROOM CONCLUSIO



COARCTATION AND HYPOPLASTIC AORTIC ARCH

MODERATORS / *Marc Gewillig / Felix Berger*

Morphology for coarctation in different age groups

/ *Annalisa Angelini*

Multimodality imaging of coarctations

/ *Rafael Hirsch*

Planning the procedure based on imaging

/ *Felix Berger*

Which type of coarctation should be referred for surgery?

/ *Alessandro Frigiola*

CT or MRI? What to look for during follow-up

/ *Sujeev Mathur*

Hypoplastic aortic arch – How to select the best treatment on imaging?

/ *Marc Gewillig*

DISCUSSION





14.10 – 16.20 / ROOM D1



LAA CLOSURE

MODERATORS / *Bushra Rana / Dee Dee Wang*FACILITATORS / *Kolja Sievert / Henning Ebel*

Echo contrast for determining Thrombi in LAA

/ *Henning Ebel*

Echo/Fluoro evaluation speaking the same language

/ *Bushra Rana*

Pre-procedural CT changed my approach: case examples

/ *Dee Dee Wang*

Using fusion imaging to guide LAA closure

/ *John Carroll*

3D Angiography during LAA closure: best technique, tips and tricks

/ *Tom De Potter*

Predicting peri-device leakage of left atrial appendage device closure using Novel three-dimensional geometric CT analysis

/ *Claudio Tondo*

Using MDCT for follow-up?

/ *Dee Dee Wang*

Special anatomic requirements for transpericardial LAA closure with the LARIAT system: how to analyze CT

/ *Krzysztof Bartus*

TEE follow-up: how to assess residual leak and thrombus on the device

/ *Martin Swaans*

Catheter closure of residual leaks after LAA closure

/ *Kolja Sievert*

DISCUSSION

16.20 – 16.50 / EXHIBITION AREA

TEA AND COFFEE BREAK



16.50 – 18.50

16.50 – 18.50 / MAIN ARENA HARMONIE



PARAVALVAR LEAK CLOSURE

MODERATORS / *Matthew Daniels / Martin Swaans*

Paravalvar leak therapy in mitral valve prosthesis: anatomical considerations

/ Annalisa Angelini

LIVE CASES

from CardioVascular Center Frankfurt CVC, Frankfurt, Germany

Periprocedural imaging: device sizing using echo

/ Jeffrey Khoo

Limitation of imaging in paravalvar leaks

/ Matthew Daniels

Paravalvar versus transvalvar leaks: differentiation and classification

/ Nilesh Sutaria

CT-planning and fusion imaging with CT for paravalvar leak closure

/ Carlos Ruiz

Paravalvar mitral and aortic leak case presentation: focus on imaging

/ Nilesh Sutaria

Paravalvar leak closure guided by Fluoro-3D TEE fusion imaging

/ Eustaquio Onorato

DISCUSSION





16.50 – 18.50 / ROOM CONCLUSIO



VSD CLOSURE

MODERATORS / *Shakeel A. Qureshi / Do Nguyen Tin*

The anatomy of VSDs

/ *Karen McCarthy*

Echocardiographic assessment before interventions

/ *Carmelo Arcidiacono*

LIVE AND/OR RECORDED CASES

from CardioVascular Center Frankfurt CVC, Frankfurt, Germany

Intra-procedural TEE guidance

/ *Lucy Eun*

How can we use CT in post-myocardial infarction VSDs

/ *Mark Turner*

What to look for during follow-up

/ *Do Nguyen Tin*

Transcatheter reconstruction of subaortic ridge with closure of perimembranous subaortic VSD with or without AR

/ *Hussein Abdulwahab M. Abdullah*

Case examples – Focus on imaging

/ *Lucy Fun*

DISCUSSION

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CSI FOCUS IMAGING PROGRAM WEDNESDAY







PFO

CSI FOCUS



07.00 – 10.00

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CSI FOCUS PFO PROGRAM WEDNESDAY

07.00 – 08.00 / EXHIBITION AREA

BREAKFAST

08.00 – 08.05 / ROOM SPEKTRUM

WELCOME AND INTRODUCTION

/ Bernhard Meier / Horst Sievert

08.05 – 10.00 / ROOM SPEKTRUM



BACKGROUND, ANATOMY, PFO ASSOCIATED DISORDERS

MODERATORS */ Bernhard Meier / Franz Kleber*

PANELISTS */ Zahid Amin / Mark Turner / Stefan Bertog*

LIVE CASES

from CardioVascular Center Frankfurt CVC, Germany

The first description of a PFO case

/ Stefan Bertog

PFO: license to kill

/ Bernhard Meier

Incidence of large and small PFOs in stroke patients and in the general population: a critical analysis of the literature

/ Stefan Bertog

Potential for opening with very important surrounding neighbors

/ Zahid Amin

Migraine and other diseases associated with PFOs: from deep divers to high altitude climbers

/ Eustaquio Onorato

PFO as a cause of paradoxical embolism in children – Review of the literature

/ Gareth Morgan

PFO as a cause of paradoxical embolism in elderly patients

/ Mark Turner

PFO as a cause of myocardial infarction

/ Franz Kleber

DISCUSSION



10.00 – 10.30 / EXHIBITION AREA

TEA AND COFFEE BREAK

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10.30 – 12.30 / ROOM SPEKTRUM



DEVICES AND TRIAL RESULTS

MODERATORS / *John Carroll / Lars Sondergaard*PANELISTS / *Michael Hennerici / Mark Turner / Fabian Nietlispach*

The Amplatzer PFO device: clearly a conundrum

/ Zahid Amin

Update on RESPECT

/ John Carroll

Update on the PC and PRIMA trials

/ Bernhard Meier

OPPOSE-Registry

/ Iqbal Malik

GORE CARDIOFORM septal occluder

/ John Thomson

REDUCE primary endpoint data

/ Lars Sondergaard

CLOSE primary endpoint data

/ Stefan Bertog

A critical analysis of REDUCE and CLOSE

/ Michael Hennerici

Debate about secondary stroke prevention

– PFO closure only in patients with prior embolic stroke!

/ Stefan Bertog

– I would rather like to also treat patients with prior embolic TIA!

/ Fabian Nietlispach

Debate about primary stroke prevention

– This would really be ridiculous!

/ Stefan Bertog

– Wait a moment!

*/ Fabian Nietlispach***DISCUSSION**



12.40 – 15.10

12.40 – 15.10 / ROOM SPEKTRUM



HOW TO CLOSE

MODERATORS / *Fabian Nietlispach / Xiangbin Pan*

PANELISTS / *Nilesh Sutaria / Kevin Walsh / Zahid Amin / Patrick Calvert*

LIVE CASES

from CardioVascular Center Frankfurt CVC, Germany

Pre and intraprocedural imaging

/ Nilesh Sutaria

PFO closure step by step and advanced tips and tricks

/ Kevin Walsh

Debate

– PFO closure can and should be done with fluoro guide only!

/ Fabian Nietlispach

– PFO (and ASD) closure can and should be done with echo guide only!

/ Xiangbin Pan

Challenging cases

/ Eustaquio Onorato

How to manage periprocedural complications

/ Zahid Amin

Post procedural medication and follow-up

/ Teiji Akagi

Long-term complications after PFO closure: case examples and review of the literature

/ Zahid Amin

DISCUSSION





15.10 – 16.20 / ROOM SPEKTRUM



OTHER PFO CLOSURE DEVICES

MODERATORS / *Bernhard Meier / Eustaquio Onorato*PANELISTS / *Michael Mullen / Kolja Sievert / Nilesh Sutaria*

The Occlutech PFO occluder

/ *Julian Widder*

The IrisFit PFO occluder

/ *Marius Hornung*

The Ultrasept PFO occluder

/ *Jean-Jacques Goy*

The PFM PFO occluder

/ *Philipp Lurz*

The new Comed long-tunnel PFO occluder

/ *TBD*

Suture-based PFO closure

/ *Michael Mullen*

Bioresorbable devices for PFO closure

/ *Kolja Sievert*

DISCUSSION

16.20 – 16.50 / EXHIBITION AREA

TEA AND COFFEE BREAK

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CSI FOCUS PFO PROGRAM WEDNESDAY

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16.50 – 18.55

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CSI FOCUS PFO PROGRAM WEDNESDAY

16.50 – 18.50 / ROOM SPEKTRUM



HOW TO SELECT APPROPRIATE PATIENTS AND HOW TO BUILD A PFO PROGRAM

MODERATORS / *Bernhard Meier / Michael Hennerici*

PANELISTS / *Franz Kleber / Eustaquio Onorato*

LIVE CASES

from CardioVascular Center Frankfurt CVC, Germany

Guidelines in Europe, the US and around the world

/ Franz Kleber

What is the RoPE score and does it help?

/ Michael Hennerici

What are effective and appropriate means to educate referring colleagues and patients?

/ Eustaquio Onorato

How to convince payers? Can PFO closure be cost effective?

/ John Carroll

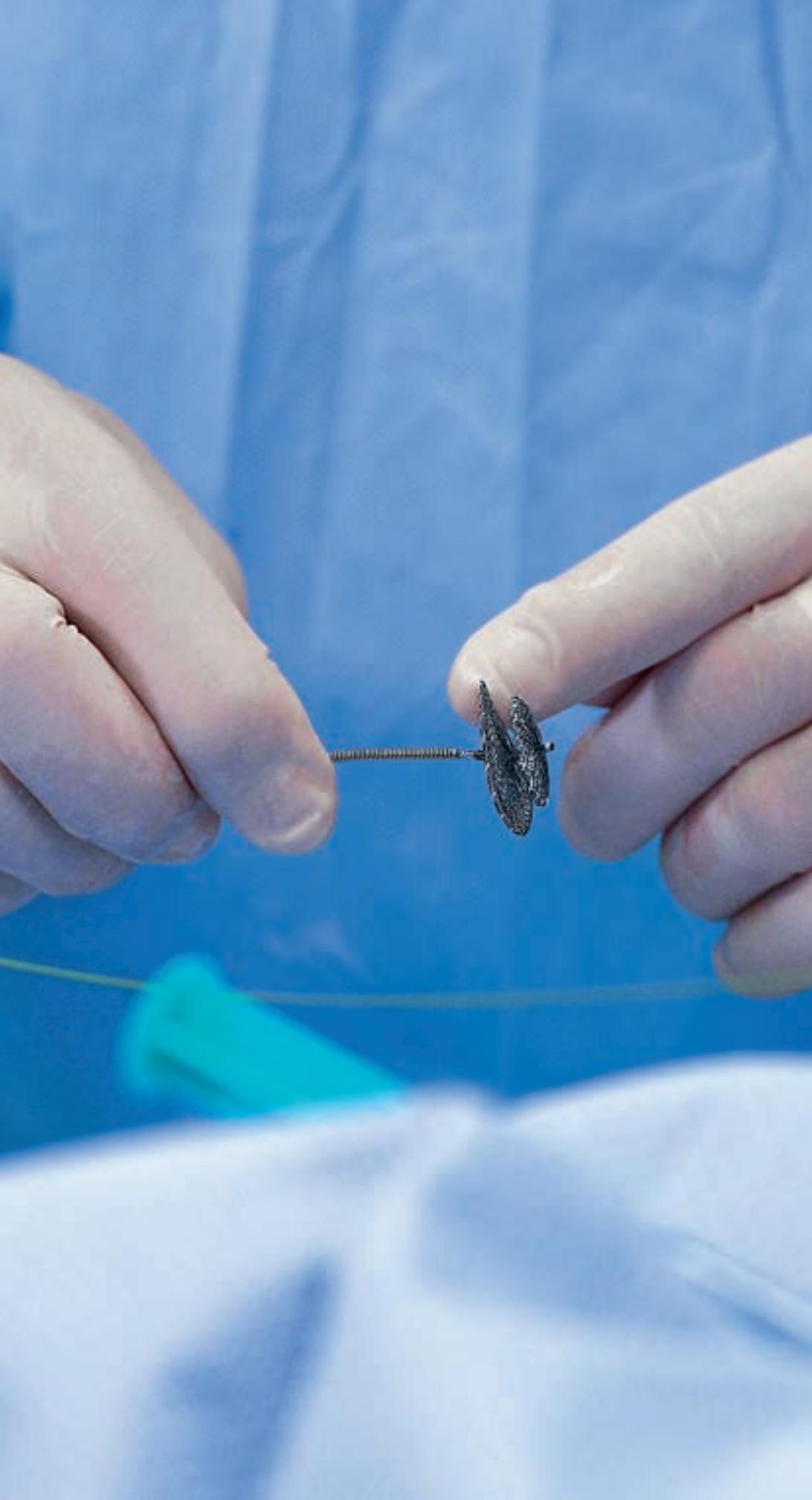
DISCUSSION

18.50 – 18.55 / ROOM SPEKTRUM

CLOSING REMARKS

/ Bernhard Meier







Todd Brinton, MD

Balloon-based lithotripsy of
aortic valve



Active Lithoplasty





INNOVATION

CSI FOCUS



07.00 – 09.50

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CSI FOCUS INNOVATION PROGRAM WEDNESDAY

07.00 – 08.00 / EXHIBITION AREA

BREAKFAST

08.30 – 08.40 / ROOM FANTASIE

WELCOME AND INTRODUCTION

/ Sameer Gafoor / Todd Brinton

08.40 – 08.50 / ROOM FANTASIE

INNOVATION LECTURE: STATE OF CARDIOVASCULAR INNOVATION IN 2017

/ Yuval Binur

08.50 – 09.50 / ROOM FANTASIE



FINDING AND ASSESSING A NEED

MODERATOR */ Sameer Gafoor*

FACILITATOR */ Kate Marshall*

What is a need and how do I characterize it?

/ Todd Brinton

How do I choose and react to clinical advisors

/ Howard Levin

How do I do a market assessment and gap analysis

/ Hanson Gifford

Making a map for early concept generation

/ Todd Brinton

Discussion and war stories

/ Todd Brinton / Hanson Gifford / Howard Levin / Tor Peters

DISCUSSION



09.50 – 11.00 / ROOM FANTASIE



EARLY CONCEPT GENERATION: PROTOTYPES, IP AND ITERATION

MODERATOR / *Sameer Gafoor*FACILITATOR / *Hanson Gifford*

Concept generation, brainstorming, and embodiment

/ *Hanson Gifford*

How do I fix something that isn't working well?

/ *Howard Levin*

It's a good need – but a bad device. When do I start over?

/ *Stan Rabinovich*

How do I track what I invent?

/ *Jim Shay*

How do I protect what I invent globally?

/ *Jim Shay*

Discussion and war stories

/ *Jim Shay / Hanson Gifford / Howard Levin / Alex Khairkahan / Stan Rabinovich*

DISCUSSION

11.00 – 11.20 / EXHIBITION AREA

TEA AND COFFEE BREAK





11.20 – 13.30

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CSI FOCUS INNOVATION PROGRAM WEDNESDAY

11.20 – 12.30 / ROOM FANTASIE



FEASIBILITY ASSESSMENT AND PRECLINICAL TRIALS

MODERATOR / *Todd Brinton*

FACILITATORS / *Sameer Gafoor / Alope Finn*

Feasibility: building value and reducing risk

/ *Santosh Prabhu*

Methods for feasibility assessment: in vivo, in vitro, and in virtual

/ *Alope Finn*

Value of histopathology in feasibility assessment

/ *Laurence Fiette*

Synchronizing clinical and R&D timelines

/ *Todd Brinton*

Discussion and war stories

/ *Santosh Prabhu / Hanson Gifford / Laurence Fiett / Alope Finn*

DISCUSSION

12.30 – 13.30 / EXHIBITION AREA



NETWORKING LUNCH





13.30 – 14.30 / ROOM FANTASIE



REGULATORY ENVIRONMENTS

MODERATOR / *Sameer Gafoor*FACILITATOR / *Kathleen A. Marshall*

Current state of European regulatory environment

/ *Autumn Lang*

Current state of US/FDA regulatory environment

/ *Kathleen A. Marshall*

Discussion: viewpoint on global venue options

/ *Yuval Binur / Jeffrey Jump / Georg Matheis / Autumn Lang / Carlos Granada***DISCUSSION**

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PROGRAM WEDNESDAY
CSI FOCUS INNOVATION

14.30 – 15.30 / ROOM FANTASIE



EARLY IMPLEMENTATION PLANNING: OPERATIONAL PLAN, FUNDING, MILESTONES

MODERATOR / *Yuval Binur*FACILITATOR / *Sameer Gafoor*

Are you better off being a project or a company?

/ *Kathleen A. Marshall*

How to give an effective operational plan

/ *Ronald J. Solar*

How to sell your idea and create an effective pitch

/ *Georg Matheis*

Discussion and war stories

/ *Georg Matheis / Kathleen A. Marshall / Martyn Thomas / Yuval Binur*

Transition from clinician to corporate VP Medical Affairs

/ *Martyn Thomas***DISCUSSION**



15.30 – 17.00

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CSI FOCUS INNOVATION PROGRAM WEDNESDAY

15.30 – 16.40 / ROOM FANTASIE



RUNNING A STARTUP COMPANY

MODERATOR / *Todd Brinton*

FACILITATOR / *Sameer Gafoor*

Roles needed within a startup

/ *Alex Khairkhahan*

Assembling a company, board, and advisors

/ *Kathleen A. Marshall*

Is there a perfect board?

/ *Jeffrey Jump*

Financing: equity, notes, debt, grants, nondelusional capital

/ *Andrew ElBardissi*

How to sell medical devices in the Antarctic?

/ *Shakeel Osman*

Discussion and war stories

/ *Ronald J. Solar / Alex Khairkhahan / Andrew ElBardissi / Jeff Jump*

/ *Tor Peters / Yuval Binur*

DISCUSSION

16.40 – 17.00 / ROOM FANTASIE



CONCLUDING REMARKS

/ *Sameer Gafoor / Todd Brinton*

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- Reduced Worsening NIHSS With DW-MRI Lesions (0% vs. 19%, $p=0.002$)
- Higher Absence of CNS Infarction (28% vs. 8%, $p=0.008$)
- Reduced Total Lesion Volume Compared to No Protection (101.4mm³ vs. 174.0mm³, $p=0.04$)

Lansky et al. EuroPCR 2016.

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to view the latest data available for
this emerging medical device.

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A medical monitor in the center displays a table of data. The table has four columns and several rows. The text is partially obscured but appears to be a summary of patient data.

Parameter	Value	Unit	Reference
Heart rate	72	1/min	60-100
Blood pressure	120/80	mmHg	120/80
Respiration rate	18	1/min	12-20
SpO2	98	%	95-100





JUNE 29, 2017

PROGRAM

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2017 JUNE 29 PROGRAM

THURSDAY





07.00 – 08.00 / EXHIBITION AREA

BREAKFAST

07.00 – 08.00 / EXHIBITION AREA



ABSTRACT ORAL SESSION

MODERATORS / *Yat-Yin Lam / Teiji Akagi*

True to false lumen implantation of endovascular graft in type B aortic dissection, rescued by puncturing the false lumen with Brockenbrough needle and implantation of another graft overlapping the first

/ Pavan Rasalkar

Transcatheter occlusion of sinus venous atrial septal defect – New therapeutic option?

/ Francisco Chamie

Unusual complication of fontan circulation – Successful percutaneous closure of fistula between extracardiac tunnel an coronary sinus

/ Jacek Kusa

Intraoperative coronary obstruction undergoing transcatheter aortic valve replacement

/ Xianbao Liu

A challenging TAVI case

/ Jianfang Luo

DISCUSSION

08.00 – 08.10 / MAIN ARENA HARMONIE

WELCOME AND INTRODUCTION

/ Shakeel A. Qureshi / Mario Carminati / Horst Sievert

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08.10 – 10.00

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CSI PROGRAM THURSDAY

08.10 – 10.00 / MAIN ARENA HARMONIE



LIVE CASES AND WHAT'S NEW

MODERATORS / *Shakeel A. Qureshi / Mario Carminati / Adam Greenbaum*
LIVE CENTER COORDINATOR / *John Thomson*

LIVE CASES

from the Madras Medical Mission, Chennai, India

The Harpoon device for mitral chordae replacement: results of the FIM trial

/ Krzysztof Bartus

GORE CARDIOFORM ASD occluder

/ John Thomson

They called me the "Poking man"

/ Adam Greenbaum

Percutaneous treatment of cardiac tumors

/ Krzysztof Kaczmarek

Percutaneous tricuspid valve implantation

/ Samir Kapadia

A novel transcatheter prosthesis for the treatment of severe and massive tricuspid valve insufficiency

/ Christian Schlensak

Transvalvular lithotripsy for aortic leaflet restoration – First in man results

/ Todd Brinton

The Venibri valve

/ Jian'An Wang

The MANTA closure device

/ Azeem Latib

Percutaneous and non-fluoroscopic procedures for structure heart diseases

/ Xiangbin Pan

Initial results with the Occlutech paravalvular leak device

/ Iqbal Malik

Novel transradial device for intra-aortic embolic deflection

/ Darren Mylotte

DISCUSSION



10.00 – 10.30 / EXHIBITION AREA

TEA AND COFFEE BREAK

10.30 – 12.40 / MAIN ARENA HARMONIE



FOCUS LIVE LAA CLOSURE

MODERATORS / *Peter Sick / Bushra Rana*

LIVE CASES

from the CardioVascular Center Frankfurt CVC, Germany

What does “anticoagulation contraindicated” mean in guidelines, clinical trials, package inserts, clinical practice, according to FDA and CMS and according to common sense?

/ Sameer Gafoor

EWOLUTION: 1 year follow-up data

/ Martin Bergmann

Update on other clinical trials: LAA closure and NOACs

/ Stefan Bertog

Advantages and disadvantages of available LAA closure devices

/ Peter Sick

How to close the LAA: my 8 most important advanced tips and tricks for difficult cases

/ Maurice Buchbinder or Stefan Bertog

How to manage complications

/ Martin Bergmann

A case of patch closure of an ASD followed by patch closure of the LAA 14 years later

/ Eleftherios Sideris

The approach challenge

– LAA occlusion should be performed in cases of valve disease or after valve surgery

*/ Maurice Buchbinder*THE CHALLENGERS / *Sameer Gafoor / Stefan Bertog***DISCUSSION**



10.30 – 12.40

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CSI PROGRAM THURSDAY

10.30 – 12.40 / ROOM SPEKTRUM



FOCUS LIVE TAVI

MODERATORS / *Eberhard Grube / Jian'an Wang*

FACILITATORS / *Danny Dvir / Albrecht Roemer*

LIVE CASES

from the Rigshospitalet, Copenhagen, Denmark

Valve-in-valve

/ Danny Dvir

TAVI in pure regurgitation

/ Eberhard Grube

Strategies and considerations for bicuspid aortic valves

/ Mao Chen

Predictors of need for permanent pacemaker – When to use a temporary or permanent pacemaker

/ Stephan Fichtlscherer

How to mobilize the patients early with a temporary pacemaker – A new approach

/ Albrecht Roemer

Flow profile of different TAVI valves

/ Jan-Malte Sinning

Transcaval approach

/ Adam Greenbaum

Thrombus formation on biological valves: incidence and clinical implications

/ Hasan Jilaihawi

Reprise 3 & Respond – Update

/ Stephan Kische

DISCUSSION

AMPLATZER™ AMULET™

LEFT ATRIAL APPENDAGE OCCLUDER

STROKE RISK REDUCTION

in patients with Atrial Fibrillation.¹

Designed to reduce the risk of stroke in AF patients with a contraindication to OACs.*¹



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1. Tzikas, A. Left atrial appendage occlusion for stroke prevention in atrial fibrillation: multicentre experience with the AMPLATZER Cardiac Plug EuroIntervention 2015;10-online publish-ahead-of-print January 2015.

* Refers to an absolute or long-term contraindication to OACs.

Brief Summary: Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use.

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10.30 – 11.35

10.30 – 11.35 / ROOM FANTASIE



SEMINAR

INTERVENTIONS FOR DUCT-DEPENDENT PULMONARY CIRCULATION

MODERATORS / *Do Nguyen Tin / Dietmar Schranz*

FACILITATORS / *Gareth Morgan / Martin Schneider*

Assessment of PDA prior to stenting with echo, CT, MRI

/ *Kuberan Pusparajah*

Vascular access for duct stenting

/ *John Thomson*

Stenting ducts in dual pulmonary blood supply

/ *Martin Schneider*

Stenting ducts as sole pulmonary blood supply

/ *Do Nguyen Tin*

Complications of PDA stenting

/ *Giuseppe Santoro*

DISCUSSION

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CSI PROGRAM THURSDAY





11.35 – 12.40 / ROOM FANTASIE



SEMINAR

STENT TECHNOLOGIES

MODERATORS / *John Thomson / Felix Berger*FACILITATORS / *Peter Zartner / Daniel Tanase*

Bare metal stents

/ *Felix Berger*

Covered stents

/ *Joseph DeGiovanni*

Growth stents

/ *Martin Schneider*

Is there a role of self-expandable stents in coarctation

/ *Peter Zartner*

Biodegradable stents

/ *Maarten Witsenburg*

How to crack stents

/ *Daniel Tanase***DISCUSSION**

12.45 – 14.25 / MAIN ARENA HARMONIE



LIVE ONLY 1

MODERATORS / *Eberhard Grube / James Lock*LIVE CENTER COORDINATOR / *Allison Cabalka*

LIVE CASES

*from the Madras Medical Mission, Chennai, India
and the CardioVascular Center Frankfurt CVC, Germany***DISCUSSION**



12.45 – 14.25

12.45 – 14.25 / ROOM SPEKTRUM



SEMINAR

INTERVENTIONS FOR DUCT-DEPENDENT SYSTEMIC CIRCULATION

MODERATORS / *Dietmar Schranz / Teiji Akagi*

FACILITATORS / *Ina Michel-Behnke / Gareth Morgan*

HLHS: the Giessen way

/ *Dietmar Schranz*

Extended hybrid for complex aortic arch obstruction

/ *Gareth Morgan*

Self-expanding vs. balloon-expandable stents

/ *Ina Michel-Behnke*

Who needs hybrid anyway: Japanese concept of longer medical treatment

/ *Teiji Akagi*

Borderline LVs – Can they support systemic circulation

/ *Shakeel A. Qureshi*

Fate of branch PAs related to PA banding

/ *Hakan Akintuerk*

DISCUSSION

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PROGRAM THURSDAY

CSI



12.45 – 14.25 / ROOM FANTASIE



SEMINAR

MITRAL VALVE REPAIR PART 1: LEAFLET CLIP/REPAIR

MODERATORS / *Ted Feldman / Anthony Nobles*

FACILITATORS / *Giovanni Speziali / Anthony Nobles*

MitraClip: trial update

/ *Ted Feldman*

Who would not be a candidate for MitraClip?

/ *Martin Swaans*

Would a clip interfere with mitral valve repair?

A surgeon's perspective

/ *Anton Moritz*

MitraClip challenges, tips and tricks

/ *Mamta Buch*

How to surgically implant new mitral chords

/ *Anton Moritz*

NeoChord

/ *Giovanni Speziali*

Harpoon

/ *Krzysztof Bartus*

HeartStitch

/ *Anthony Nobles*

DISCUSSION

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CSI PROGRAM THURSDAY





14.30 – 16.15

14.30 – 16.15 / MAIN ARENA HARMONIE



FOCUS LIVE PDA CLOSURE

MODERATORS / *Omar Galal / Franz Freudenthal / Shakeel A. Qureshi*

LIVE CASES

from the Madras Medical Mission, Chennai, India

Closing PDA in small babies

/ Giuseppe Santoro

Large PDA and pulmonary hypertension

/ Franz Freudenthal

Device selection according to PDA size/morphology

/ Nicolaus Haas

When is a PDA too small to require closure?

/ Omar Galal

Management of complications

/ Do Nguyen Tin

Setting up a program for closing PDAs in preterm babies

/ Neil Wilson

DISCUSSION

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PROGRAM THURSDAY
CSI





14.30 – 16.15 / ROOM SPEKTRUM



SEMINAR

STENTING RVOT IN TETRALOGY OF FALLOT AND RELATED PATHOLOGY

MODERATORS / *Gianfranco Butera / Kevin P. Walsh*FACILITATORS / *Joseph DeGiovanni / Oliver Stumper*

Techniques of RVOT stenting

/ *Younes Boudjemline*

PA growth following stenting of the RVOT

/ *Gareth Morgan*

Techniques of surgical repair of the RVOT

/ *Alessandro Frigiola*

Results of RVOT stenting

/ *Oliver Stumper*

Complications of RVOT stenting

/ *Joseph DeGiovanni*

DISCUSSION

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CSI PROGRAM THURSDAY



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14.30 – 16.15

14.30 – 16.15 / ROOM SPEKTRUM



SEMINAR

MITRAL VALVE REPAIR PART 2: ANNULAR AND VENTRICULAR REMODELING

MODERATORS / *Carlos Ruiz / Eberhard Grube*

FACILITATORS / *Stephan von Bardeleben / Christian Butter*

What is functional mitral regurgitation (FMR)?

/ Mark Reisman

Edwards Cardioband mitral valve repair

/ Robert Schueler

Mitralign

/ Azeem Latib

Middle Peak Medical

/ Alex Khairkahan

Millipede

/ Eberhard Grube

Cardiac Implant Complete Ring

/ Carlos Ruiz

Ancora annuloplasty system

/ Christian Butter

MVRx

/ Bernard Prendergast

VenTouch® System, a mechanic-focused FMR solution

/ Jim Buck

Combined procedures are the future! A case example of Carillon plus NeoChord

/ Stephan von Bardeleben

DISCUSSION



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CSI PROGRAM THURSDAY



16.15 – 16.45 / EXHIBITION AREA

TEA AND COFFEE BREAK

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16.45 – 18.30 / MAIN ARENA HARMONIE



LIVE ONLY 2

MODERATORS / *Antonio Colombo / Eberhard Grube*
LIVE CENTER COORDINATOR / *Allison Cabalka*

LIVE CASES

*from the Rigshospitalet, Copenhagen, Denmark
and the CardioVascular Center Frankfurt CVC, Germany*

DISCUSSION





16.45 – 18.30

16.45 – 18.30 / ROOM SPEKTRUM



FOCUS LIVE

CORONARY ARTERY FISTULAS – IMAGING AND TREATMENT TECHNIQUES

MODERATORS / *Gurleen Sharland / Bharat Dalvi / James Lock*

FACILITATORS / *Worakan Promphan / Kolja Sievert*

LIVE CENTER COORDINATOR / *Shakeel A. Qureshi*

LIVE CASES

from the Madras Medical Mission, Chennai, India

Progression of prenatally detected coronary artery fistulas in the fetus

/ Gurleen Sharland

The natural history of coronary artery fistulas

/ James Lock

Imaging and 3D printing in planning interventions

/ Israel Valverde

Coronary artery fistulas – When to close and when not to close?

/ Bharat Dalvi

Dealing with complex fistulas with aneurysms

/ Worakan Promphan

Long-term follow up and complications of closing coronary fistulas

/ Shakeel A. Qureshi

DISCUSSION



16.45 – 18.30 / ROOM FANTASIE



SEMINAR

COARCTATION

MODERATORS / *Gianfranco Butera / Marc Gewillig*FACILITATOR / *Joseph DeGiovanni*

Indication for treating asymptomatic coarctation with controlled hypertension

/ Alessandra Frigiola

CT/MRI imaging prior to interventions

/ Sujeev Mathur

3D rotational angiography

/ Gregor Krings

Stenting in aortic coarctation – Bare versus covered

/ Gianfranco Butera

Dealing with covering of neck vessels by stents

/ Marc Gewillig

Long term results of stenting – Is the problem of hypertension solved?

/ John Thomson

Complications of stents – Early and long term

/ Joseph DeGiovanni

DISCUSSION







JUNE 30, 2017 PROGRAM

FRIDAY

TRANSCATHETER CLOSURE OF LARGE (> 20 MM) ATRIAL SEPTAL DEFECT: PROCEDURAL CHALLENGE AND LIMITATIONM. J. G. de Groot¹, M. J. G. de Groot², M. J. G. de Groot³, M. J. G. de Groot⁴, M. J. G. de Groot⁵, M. J. G. de Groot⁶, M. J. G. de Groot⁷, M. J. G. de Groot⁸, M. J. G. de Groot⁹, M. J. G. de Groot¹⁰¹Department of Cardiology, ²Department of Radiology, ³Department of Cardiology, ⁴Department of Cardiology, ⁵Department of Cardiology, ⁶Department of Cardiology, ⁷Department of Cardiology, ⁸Department of Cardiology, ⁹Department of Cardiology, ¹⁰Department of Cardiology

Background: To assess the feasibility and safety of transcatheter closure of large ASDs.

Methods: Using the feasibility and safety of transcatheter closure of large ASDs.

Results: The procedure was successfully performed in 7 patients.

Conclusion: The procedure is safe and effective for the treatment of large ASDs.

This study is a retrospective analysis of patients who underwent the procedure.

Table 1. Baseline characteristics of patients who underwent the procedure.

Characteristic	n (%)	n (%)	n (%)
Age (years)	58.5 (10.5)	58.5 (10.5)	58.5 (10.5)
Sex (M/F)	4/3	4/3	4/3
ASD size (mm)	28.5 (3.5)	28.5 (3.5)	28.5 (3.5)
ASD type (%)			
Secundum	7 (100)	7 (100)	7 (100)
Primum	0 (0)	0 (0)	0 (0)
Coronary sinus	0 (0)	0 (0)	0 (0)
Unroofed	0 (0)	0 (0)	0 (0)
Other	0 (0)	0 (0)	0 (0)
ASD location (%)			
Right atrium	7 (100)	7 (100)	7 (100)
Left atrium	0 (0)	0 (0)	0 (0)
Common atrium	0 (0)	0 (0)	0 (0)
Other	0 (0)	0 (0)	0 (0)
ASD location (mm)			
Superior	0 (0)	0 (0)	0 (0)
Inferior	7 (100)	7 (100)	7 (100)
Other	0 (0)	0 (0)	0 (0)
ASD location (mm)			
Superior	0 (0)	0 (0)	0 (0)
Inferior	7 (100)	7 (100)	7 (100)
Other	0 (0)	0 (0)	0 (0)



Figure 1. Echocardiographic images showing the atrial septal defect and the transcatheter closure device in place.

A: Baseline echocardiogram showing the atrial septal defect.

B: Echocardiogram showing the transcatheter closure device in place.

C: Echocardiogram showing the atrial septal defect after transcatheter closure.

D: Echocardiogram showing the atrial septal defect after transcatheter closure.

E: Echocardiogram showing the atrial septal defect after transcatheter closure.

F: Echocardiogram showing the atrial septal defect after transcatheter closure.

G: Echocardiogram showing the atrial septal defect after transcatheter closure.

H: Echocardiogram showing the atrial septal defect after transcatheter closure.

I: Echocardiogram showing the atrial septal defect after transcatheter closure.

J: Echocardiogram showing the atrial septal defect after transcatheter closure.

K: Echocardiogram showing the atrial septal defect after transcatheter closure.

L: Echocardiogram showing the atrial septal defect after transcatheter closure.

M: Echocardiogram showing the atrial septal defect after transcatheter closure.

N: Echocardiogram showing the atrial septal defect after transcatheter closure.

O: Echocardiogram showing the atrial septal defect after transcatheter closure.

P: Echocardiogram showing the atrial septal defect after transcatheter closure.

Q: Echocardiogram showing the atrial septal defect after transcatheter closure.

R: Echocardiogram showing the atrial septal defect after transcatheter closure.

S: Echocardiogram showing the atrial septal defect after transcatheter closure.

T: Echocardiogram showing the atrial septal defect after transcatheter closure.

U: Echocardiogram showing the atrial septal defect after transcatheter closure.

V: Echocardiogram showing the atrial septal defect after transcatheter closure.

W: Echocardiogram showing the atrial septal defect after transcatheter closure.

X: Echocardiogram showing the atrial septal defect after transcatheter closure.

Y: Echocardiogram showing the atrial septal defect after transcatheter closure.

Z: Echocardiogram showing the atrial septal defect after transcatheter closure.

AA: Echocardiogram showing the atrial septal defect after transcatheter closure.

AB: Echocardiogram showing the atrial septal defect after transcatheter closure.

AC: Echocardiogram showing the atrial septal defect after transcatheter closure.

AD: Echocardiogram showing the atrial septal defect after transcatheter closure.

AE: Echocardiogram showing the atrial septal defect after transcatheter closure.

AF: Echocardiogram showing the atrial septal defect after transcatheter closure.

AG: Echocardiogram showing the atrial septal defect after transcatheter closure.

AH: Echocardiogram showing the atrial septal defect after transcatheter closure.

AI: Echocardiogram showing the atrial septal defect after transcatheter closure.

AJ: Echocardiogram showing the atrial septal defect after transcatheter closure.

AK: Echocardiogram showing the atrial septal defect after transcatheter closure.

AL: Echocardiogram showing the atrial septal defect after transcatheter closure.

AM: Echocardiogram showing the atrial septal defect after transcatheter closure.

AN: Echocardiogram showing the atrial septal defect after transcatheter closure.

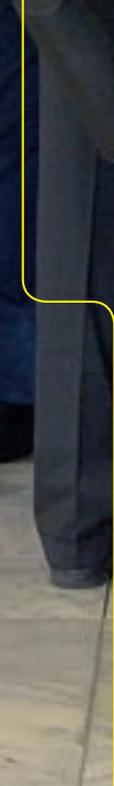
AO: Echocardiogram showing the atrial septal defect after transcatheter closure.

AP: Echocardiogram showing the atrial septal defect after transcatheter closure.

AQ: Echocardiogram showing the atrial septal defect after transcatheter closure.

AR: Echocardiogram showing the atrial septal defect after transcatheter closure.

AS: Echocardiogram showing the atrial septal defect after transcatheter closure.





07.00 – 08.00 / EXHIBITION AREA

BREAKFAST

07.00 – 08.00 / EXHIBITION AREA / 2ND FLOOR

MODERATED E-POSTER SESSION

Septal defects

MODERATORS / *Rafael Hirsch / John Carroll*

Pulmonary circulation

MODERATORS / *Stefan Bertog / Jennifer Franke / Matthew Daniels*

Valves

MODERATORS / *Nalan Schnelle / Marius Hornung*

Various topics

MODERATORS / *Allison Cabalka / Marc Gewillig*

Coarctation and ducts

MODERATORS / *Simon Lam / Gareth Morgan*

DISCUSSION

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CSI PROGRAM FRIDAY

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08.00 – 10.30

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CSI PROGRAM FRIDAY

08.00 – 09.30 / MAIN ARENA HARMONIE



LIVE ONLY 3

MODERATORS / *Shakeel A. Qureshi / James Lock / Gregor Krings*
LIVE CENTER COORDINATOR / *Sameer Gafoor*

LIVE CASES

*from the I.R.C.C.S. Policlinico San Donato, Milan, Italy
and Erasmus Medical Center (MC), Rotterdam, The Netherlands*

DISCUSSION

09.30 – 10.00 / MAIN ARENA HARMONIE



INTERVIEW WITH JAMES LOCK

MODERATORS / *Bharat Dalvi / Shakeel A. Qureshi*

10.00 – 10.30 / EXHIBITION AREA

TEA AND COFFEE BREAK





10.30 – 12.40 / MAIN ARENA HARMONIE



SEMINAR

CHALLENGES WITH TAVI

MODERATORS / *Danny Dvir / Nalan Schnelle / Azeem Latib*

New standards for assessing neurologic damage in CV clinical trials

/ Andreas Baumbach

Can we calculate the cost benefit ratio of embolic protection?

/ Torsten Vahl

Claret

/ Jochen Woehrle

Keystone Heart

/ Azeem Latib

Emboline

/ Amir Belson

Bicuspid and heavily calcified aortic valves: experience with the Venus valve

/ Guangyuan Song

Should we worry about transcatheter heart valve durability?

/ Danny Dvir

Valve in valve implantations: important lessons from bench to bedside

/ Danny Dvir

The valve has embolized – Now what?

/ Bernard Reimers

More than mild regurgitation after TAVI: assessment and management

/ Antonio Colombo

TransGlide Mesh – A new technology to prevent access complications

/ Stefan Toggweiler

Coronary protection: bailout, my successes and failures

/ Hasan Jilaihawi

The Hildick-Smith debate featuring Martyn Thomas

– The future of TAVI is self-expanding!

/ Martyn Thomas

– The future of TAVI is balloon expandable!

/ Martyn Thomas

DISCUSSION



10.30 – 12.40

10.30 – 12.40 / ROOM SPEKTRUM



FOCUS LIVE ASD CLOSURE

MODERATORS / *Bharat Dalvi / Worakan Promphan*

FACILITATORS / *Martin Witsenburg / Daniel Tanase*

LIVE CENTER COORDINATOR / *Stefan Bertog*

LIVE CASES

from the CardioVascular Center Frankfurt CVC, Germany

ASDs in elderly

/ Martin Witsenburg

ASD and pulmonary hypertension: which came first and how to deal with it?

/ Bharat Dalvi

Debate

Can we predict erosion?

– Yes, we can!

/ Zahid Amin

– No, we can not!

/ Bharat Dalvi

Early and follow up complications

/ Teiji Akagi

Retrieval of embolized “difficult” ASD devices: lessons learned from animal tests

/ Daniel Tanase

The Occlutech ASD occluder

/ Nicolaus Haas

CARAG: bioresorbable device

/ Kolja Sievert

Suture based closure

/ Anthony Nobles

Catheter closure of sinus venosus type ASD

/ Kothadam Sivakumar

DISCUSSION

100

CSI PROGRAM FRIDAY



10.30 – 12.40 / ROOM FANTASIE



SEMINAR

UPDATE ON ESTABLISHED AND UPCOMING LAA CLOSURE DEVICES

MODERATORS / *Peter Sick / Yat-Yin Lam / Eleftherios Sideris*
FACILITATOR / *Timo Weimar*

Amulet in difficult anatomies

/ *Peter Sick*

WATCHMAN in difficult anatomies

/ *Marcus Sandri*

Prolipsis

/ *Eleftherios Sideris*

Occlutech LAA device

/ *Ulf Landmesser*

Ultraseal

/ *Carmello Grasso*

LARIAT

/ *Thomas Deneke*

Atriclip

/ *Timo Weimar*

DISCUSSION

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CSI PROGRAM FRIDAY





12.45 – 14.25

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CSI PROGRAM FRIDAY

12.45 – 14.25 / MAIN ARENA HARMONIE



LIVE ONLY 4

MODERATORS / *Allison Cabalka / Antonio Colombo / Gregor Krings*
LIVE CENTER COORDINATOR / *Gareth Morgan*

LIVE CASES

*from the I.R.C.C.S. Policlinico San Donato, Milan, Italy
and the Barts Heart Centre, London, UK*

DISCUSSION

12.45 – 14.25 / ROOM SPEKTRUM



FOCUS LIVE

LAA CLOSURE WITH THE NEW LAMBRE OCCLUDER

Supported by Lifetech with an unrestricted grant

MODERATORS / *Reda Ibrahim / Yat-Yin Lam / Bushra Rana*
LIVE CENTER COORDINATOR / *Ignacio Cruz-Gonzalez*

Why was the LAMBRE device designed as it is and what are the advantages compared to other devices

/ Yat-Yin Lam

LAA closure with the LAMBRE occluder step by step – What is different from other occluders?

/ Kars Neven

LIVE CASES

from the CardioVascular Center Frankfurt CVC, Germany

Introduction to the LAMBRE post marketing trial

/ Horst Sievert

Challenging case

/ Ignacio Cruz-Gonzalez

Challenging case

/ Marcin Demkow

DISCUSSION



12.45 – 14.25 / ROOM FANTASIE



SEMINAR

HEART FAILURE INTERVENTIONS PART 1: INTERVENTIONAL MONITORING DEVICES AND MINIMAL INVASIVE TREATMENT OPTIONS FOR PATIENTS WITH LV ANEURYSMS

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CSI PROGRAM FRIDAY

MODERATORS / *Martin Swaans / Ulrich Schaefer*FACILITATORS / *Sebastian Reith*

Interventional monitoring devices

- Vectorious
/ Ulrich Schaefer
- Cardiomems
/ Mark Petrie

Minimal invasive treatment options for patients with LV aneurysms: concept and recent data

- Parachute: patient selection and results
/ Sebastian Reith
- Parachute recorded case
/ Sebastian Reith
- How to do the Revivent procedure
/ Martin Swaans
- Patient selection and imaging guidance for the Revivent procedure
/ Martin Swaans

DISCUSSION





12.45 – 14.25

12.45 – 14.25 / ROOM CONCLUSIO



SEMINAR

TRANSSEPTAL PUNCTURE

MODERATORS / *Habib Gamra / Samir Kapadia*

FACILITATORS / *Sameer Gafoor / Stefan Bertog*

Various fluoro guided techniques for transseptal puncture –
Tips and tricks

/ *Habib Gamra*

TEE and ICE guided transseptal puncture: how and where to
puncture for which indication

/ *Stefan Bertog*

Transseptal puncture guided by Echonavigator

/ *Sameer Gafoor*

Devices for transseptal puncture

– Radiofrequency

/ *Stefan Bertog*

– ... Kapsus TSP, a novel device for transseptal punctures

/ *Samir Kapadia*

– Superior transeptal access

/ *TBD*

Management of complications

/ *Purshotam Lal*

DISCUSSION

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CSI PROGRAM FRIDAY





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14.30 – 16.05

14.30 – 16.05 / MAIN ARENA HARMONIE



FOCUS LIVE

STENTING PULMONARY ARTERIES

MODERATORS / *Gregor Krings / Martin Schneider*

LIVE CENTER COORDINATOR / *Allison Cabalka*

LIVE CASES

from the I.R.C.C.S. Policlinico San Donato, Milan, Italy

3DRA vs conventional angiography

/ Gregor Krings

Bifurcation stenosis

/ Oliver Stumper

Small pulmonary artery branches: Angioplasty? Cutting balloons?
Stents?

/ Marc Gewillig

Special techniques for stent deployment

/ Martin Schneider

Complications of PA stenting

/ Ingo Daehnert

DISCUSSION

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CSI PROGRAM FRIDAY





14.30 – 16.05 / ROOM SPEKTRUM



SEMINAR

FROM FETUS TO ADULT – COARCTATION

MODERATORS / *Gurleen Sharland / Omar Galal*FACILITATORS / *Peter Zartner / Boulos Asfour*

Prenatal diagnosis – Can we diagnose with confidence?

/ Gurleen Sharland

Alternatives to surgery in infants

/ Omar Galal

Benefits and limitations of stents in small children

/ Peter Zartner

Are there any adult coarctations which should be referred for surgery?

/ Boulos Asfour

How should coarctation stents be followed up – MRI or CT?

/ Sujeev Mathur

Long term results of angioplasty and stenting

/ Mario Carminati

DISCUSSION

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CSI PROGRAM FRIDAY





14.30 – 16.05

14.30 – 16.05 / ROOM FANTASIE



SEMINAR

HEART FAILURE INTERVENTIONS PART 2: INTERATRIAL SHUNTS AND NEW CONCEPTS

MODERATORS / *Ted Feldman / Dietmar Schranz / Jan Otto Solem*

FACILITATORS / *Finn Gustafsson / Nikolaus Haas*

Magnitude of the problem of HF in patients with EF > 40% for clinicians and patients

/ *Mark Petrie*

Potential benefits and risks of interatrial shunts in left heart failure

/ *Finn Gustafsson*

Potential benefits and risks of interatrial shunts in patients with primary pulmonary hypertension

/ *Graham Derrick*

Ballooning and stenting

/ *Dietmar Schranz*

Corvia

/ *Ted Feldman*

AFR

/ *Nikolaus Haas*

Changing the way you look at cardiac pumping – Common misconceptions and new findings on longitudinal function

/ *Marcus Carlsson*

Synergio – A novel concept for long term cardiac assist

/ *Jan Otto Solem*

DISCUSSION



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PROGRAM FRIDAY

CSI



14.30 – 16.05 / ROOM CONCLUSIO



SEMINAR

HOW TO DO ICE: CASE-BASED LECTURES

109

MODERATORS / *John Carroll / Sergio Berti*

ICE for TAVI

/ Thomas Bartel

ICE for mitral valve repair

/ Thomas Bartel

ICE for tricuspid valve repair with 4Tech system

/ Paolo Denti

ICE for PFO/ASD closure

/ Mark Turner

ICE for LAA closure

/ Sergio Berti

ICE in PVL

/ Matthew Daniels

How 3D ICE improved my procedural guidance

/ TBD

DISCUSSION

16.05 – 16.35 / EXHIBITION AREA

TEA AND COFFEE BREAK





16.35 – 18.35

16.35 – 18.35 / MAIN ARENA HARMONIE



LIVE ONLY 5

MODERATOR / *Shakeel A. Qureshi*

LIVE CENTER COORDINATOR / *Martin Swaans*

LIVE CASES

*from the CardioVascular Center Frankfurt CVC, Germany
and the Barts Heart Centre, London, UK*

DISCUSSION

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CSI PROGRAM FRIDAY





16.35 – 18.35 / ROOM SPEKTRUM



SEMINAR

MITRAL VALVE REPLACEMENT

111

MODERATORS / *Eberhard Grube / Marty Thomas / Vaikom Mahadevan*
FACILITATOR / *Danny Dvir*

Anatomical and technical challenges of minimally invasive mitral valve replacement

/ *Ted Feldman*

Mitral valve in valve: update

/ *Danny Dvir*

Mitral valve in ring: update

/ *Martyn Thomas*

Mitral valve in native valves: update

/ *Vaikom Mahadevan*

Dedicated mitral valve devices

– Tiara

/ *Shmuel Banai*

– Intrepid

/ *Hendrick Treede*

– Tendyne

/ *Gry Dahle*

– M-valve Lotus

/ *Maurice Buchbinder*

– Cephea

/ *Ted Feldman*

– NaviGate

/ *Samir Kapadia*

DISCUSSION





16.35 – 18.35

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CSI PROGRAM FRIDAY

16.35 – 18.35 / ROOM FANTASIE



SEMINAR

INTERVENTIONS IN PULMONARY HYPERTENSION

MODERATORS / *Eustaquio Onorato / Dietmar Schranz*

FACILITATORS / *Graham Derrick / Ingo Daehnert*

Monitoring devices: do they work in pulmonary hypertension?
Review of the literature

/ Sameer Gafoor

Atrial septostomy, balloon, stent

/ Graham Derrick

Fenestrated occluders for atrial fenestration: rationale, technology, results

/ Eustaquio Onorato

VSD creation

/ Ingo Daehnert

Transcatheter reverse Potts

/ Dietmar Schranz

Surgery for chronic thromboembolic pulmonary hypertension

/ Stefan Guth

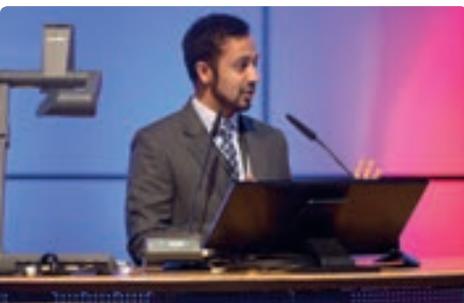
Pulmonary angioplasty for chronic thromboembolic pulmonary hypertension

/ Irene Lang

Pulmonary artery denervation

/ Boris Rudenko

DISCUSSION





16.35 – 18.35 / ROOM CONCLUSIO



PICES BREAKOUT SESSION

MODERATORS / *Gareth Morgan / Jeff Zampi*

PICES activity 2016–2017

/ *Gareth Morgan*

PICES research update

/ *Jeff Zampi*

Debate: the future of interventional imaging

- Pros and cons of MRI guided intervention –
Light at the end of the tunnel or still groping in the dark
/ *Tarique Husain*
- Cath lab conundrum: case presentations
/ *PICES members*

DISCUSSION

19.30 – 23.00

SOCIAL DINNER AT ALEX FRANKFURT SKYLINE PLAZA

Meetingpoint: 19.00 in front of the entrance of the congress center

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CSI PROGRAM FRIDAY

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evaluation](http://www.csi-congress.org/evaluation)





JULY 1, 2017
PROGRAM





07.00 – 08.00 / EXHIBITION AREA

BREAKFAST

07.00 – 08.00 / MAIN ARENA HARMONIE

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SEMINAR

NEIL WILSON'S CHALLENGING CASES

MODERATOR / *Shakeel A. Qureshi*

Crumpled sheath dilator caused catastrophic event during paravalvular leakage closure after TAVR with tortuous aorta

/ *Hidehiko Hara*

Double snare technique for retrieval of nitinol wire mesh devices

/ *Jae Young Choi*

Cardiac rupture after ASD device closure

/ *Sedigheh Saedi*

Blockbuster balloon bombshell

/ *Jenny Zablah-Rodriguez*

DISCUSSION

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YOUR OPINION !



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08.00 – 10.10

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CSI PROGRAM SATURDAY

08.00 – 10.10 / MAIN ARENA HARMONIE



LIVE ONLY 6

MODERATORS / *Gianfranco Butera / Worakan Promphan*
LIVE CENTER COORDINATOR / *Sameer Gafoor*

LIVE CASES

*University Hospitals of Leicester, Leicester, UK
and the Hammersmith Hospital, London, UK*

DISCUSSION

08.00 – 10.10 / ROOM SPEKTRUM



FOCUS LIVE MITRACLIP

MODERATORS / *Ted Feldman / Bushra Rana*
FACILITATORS / *Mamta Buch / Stefan Bertog*
LIVE CENTER COORDINATOR / *Kolja Sievert*

LIVE CASES

from the Cedars Sinai Medical Center, Los Angeles, USA

Results of Mitraclip for functional mitral regurgitation

/ Ted Feldman

Results of Mitraclip for mitral regurgitation in prolapse

/ Mamta Buch

What Mitraclip can't treat

/ Stephan von Bardeleben

Emergency Mitraclip procedure: who benefits?

/ Karl-Heinz Kuck

Benefits of the new Mitraclip NT

/ Antonio Colombo

Complications of Mitraclip

/ Martin Swaans

DISCUSSION

08.00 – 10.10 / ROOM FANTASIE



SEMINAR

PULMONARY VALVE IMPLANTATION

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CSI PROGRAM SATURDAY

MODERATORS / *Shakeel A. Qureshi / Oliver Stumper*
FACILITATORS / *Allison Cabalka / Gareth Morgan*

Challenges of percutaneous pulmonary valve implantation

/ *Shakeel A. Qureshi*

Timing of percutaneous pulmonary valve implantation – Are the current guidelines adequate?

/ *Gareth Morgan*

Medtronic Harmony

/ *Allison Cabalka*

Venus P-Valve

/ *Shakeel A. Qureshi*

Edwards pulmonary valve

/ *Zahid Amin*

Other percutaneous pulmonary valves in the pipeline

/ *Gareth Morgan*

Other options for large native RVOTs

/ *Shakeel A. Qureshi*

Medium to long term data with the different pulmonary valves

/ *Johannes Nordmeyer*

Endocarditis on implantable valve

/ *Marc Gewillig*

Computational simulation for pulmonary valve implantation

/ *Francesca Pluchinotta*

How to manage complications

/ *Zahid Amin*

DISCUSSION





10.10 – 13.05

10.10 – 10.40 / EXHIBITION AREA

TEA AND COFFEE BREAK

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CSI PROGRAM SATURDAY

10.40 – 13.05 / MAIN ARENA HARMONIE



FOCUS LIVE VSD CLOSURE

MODERATORS / *Tin Do Nguyen / Worakan Promphan / Bharat Dalvi*
LIVE CENTER COORDINATOR / *Jennifer Franke*

LIVE AND/OR RECORDED CASES

from CardioVascular Center Frankfurt CVC, Germany

Imaging VSDs: good vs poor candidates for device closure

/ Carmelo Arcidiacono

Matching devices to defect size/morphology

/ Tin Do Nguyen

Hybrid approach

/ Martin Schneider

Residual post-op VSDs

/ Gianfranco Butera

Post MI VSDs

/ Purshotam Lal

Complications of VSD closure

/ Worakan Promphan

Challenges of percutaneous perimembraneous VSD closure and
Le coil solutions

/ Ender Oedemis

The approach challenge

– Small VSDs should be closed!

/ Bharat Dalvi

CHALLENGERS / *Gareth Morgan / Shakeel A. Qureshi*

DISCUSSION



10.40 – 13.05 / ROOM SPEKTRUM



SEMINAR

ACCESS TO THE HEART TRANSSEPTAL, PERICARDIAL, TRANSHEPATIC, AORTIC, TRANSAPICAL ACCESS

MODERATORS / *Iqbal Malik / Adam Greenbaum*FACILITATORS / *Anthony Nobles / Kolja Sievert*

Femoral access in children: how to make it safer

/ *Mark Turner*

Femoral access in the elderly: how to make it safe

/ *Iqbal Malik*

Transseptal

/ *Ted Feldman*

Transhepatic

/ *Zahid Amin*

Transvenous to aorta

/ *Adam Greenbaum*

Percutaneous transapical

/ *Kothandam Sivakumar*

Carotid

/ *Marc Gewillig*

Pericardial

/ *Krzysztof Bartus*

Surgical approaches (transapical, transaortic, transatrial, subclavian)

/ *Thomas Walther*

Right atrium – Pericardial space

/ *Adam Greenbaum*

HeartStitch TA opening and closure device

/ *Anthony Nobles*

Percutaneous subclavian arterial access

/ *Karl-Heinz Kuck***DISCUSSION**

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CSI PROGRAM SATURDAY



10.40 – 13.05

10.40 – 13.05 / ROOM FANTASIE



SEMINAR

TRICUSPID REPAIR AND REPLACEMENT

MODERATORS / *Eberhard Grube / John Thomson / Allison Cabalka*

FACILITATORS / *Simon Lam / Gry Dahle*

Morphology of the tricuspid valve

/ Karen McCarthy

Pathophysiology of tricuspid valve regurgitation

/ Gry Dahle

How to evaluate tricuspid regurgitation – Implications for clinical follow-up and trial design

/ Christoph Hammerstingl

Tricuspid valve repair: concept, case example and predictors of success with:

– Cardioband

/ Karl-Heinz Kuck

– Trialign

/ Azeem Latib

– Forma

/ Karl-Heinz Kuck

– 4Tech

/ Paolo Dentì

– MitraClip

/ Stephan von Bardeleben

Valves in IVC and SVC

/ Alexander Lauten

Other tricuspid valve repair techniques in the pipeline

/ Simon Lam

Tricuspid valve in valve and valve in ring: how to do it, tips and tricks and device specific limitations

– How to implant the Medtronic valve in the tricuspid position

/ Allison Cabalka

– How to implant the Edwards valve in the tricuspid position

/ Michael Mullen

Acute and late results of bioprosthesis valve in valve: (Melody & Sapien)?

/ John Thomson

DISCUSSION

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13.10 – 15.10

13.10 – 15.10 / MAIN ARENA HARMONIE



LIVE ONLY 7

MODERATORS / *Shakeel A. Qureshi / Gareth Morgan*
LIVE CENTER COORDINATOR / *Simon Lam*

LIVE CASES

*from the Cedars Sinai Medical Center, Los Angeles, USA
and the Hammersmith Hospital, London, UK*

DISCUSSION



13.10 – 15.10 / ROOM SPEKTRUM



FOCUS LIVE

PARAVALVAR LEAK

125

MODERATORS / *Martin Swaans / Kothandam Sivakumarn*FACILITATORS / *Kolja Sievert / Ted Feldman*LIVE CENTER COORDINATOR / *Sameer Gafoor*

LIVE CASES

from the CardioVascular Center Frankfurt CVC, Germany

Case examples of periprocedure echo guidance

/ Martin Swaans

Surgical repair of paravalvar leaks: why you shouldn't do it!

/ Ted Feldman

Preferred devices for paravalvar leak closure and why

/ Kothandam Sivakumar

Outcomes in paravalvar leak closure

/ Rafael Hirsch

Paravalvar leak after TAVI

/ Sameer Gafoor

Exotic case examples

– Case 1: always acquire pivot view before releasing a device

/ Rafael Hirsch

– Case 2: surprise, surprise ...

/ Kolja Sievert

DISCUSSION





13.10 – 18.00

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CSI PROGRAM SATURDAY

13.10 – 15.10 / ROOM FANTASIE



SEMINAR

HEMODYNAMICS FOR INTERVENTIONALISTS

MODERATORS / *Bushra Rana / Gareth Morgan*

FACILITATORS / *Sujeey Mathur / Tarique Husain*

Do we always need to assess hemodynamics during structural intervention?

/ Matthew Daniels

Hi Fidelity systems and conductance catheters? Unreliable gimmicks or high-end discriminators?

/ Gareth Morgan

MRI and Hybrid MRI Caths – The modern approach?

/ Tarique Husain

What can high-end ECHO modalities add to our decision making?

/ Bushra Rana

DISCUSSION

15.10 – 15.40 / EXHIBITION AREA

TEA AND COFFEE BREAK

15.40 – 18.00 / MAIN ARENA HARMONIE



LIVE ONLY 8

MODERATORS / *Shakeel A. Qureshi / Sameer Gafoor*

LIVE CENTER COORDINATOR / *Simon Lam*

LIVE CASES

*from the CardioVascular Center Frankfurt CVC, Germany
and the University Hospitals of Leicester, Leicester, UK*

DISCUSSION

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CSI 2017
SCIENTIFIC
ABSTRACTS





CSI 2017

ABSTRACTS AND CASES

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On the following pages you will find a summary of the abstracts and cases that were accepted for CSI 2017.

The moderated e-poster session will take place Friday, June 30, 2017 from 7.00–8.00 on the second floor.

All abstracts and cases are available for download on the CSI website:
www.csi-congress.org/csi-frankfurt/abstracts-cases





[A] SEPTAL DEFECTS

131

- A1 Percutaneous closure of ventricular septal defects in 92 patients: early and midterm results
Khalfan Al Senaidi / Salim Al Maskari / R. Suresh Kumar / Eapen Thomas / Boris Dimitri / Abdullah Al Farqani
- A2 Short, intermediate and long term follow up of device closure of atrial septal defect (secundum) cases: fifteen years experience with special reference to complications
Nurun Nahar Fatema Begum
- A3 Reduction of radiation exposure in transcatheter atrial septal defect closure: how low should we go?
Sitefane Fidelio / Malekzadeh-Milani Sophie / Ladouceur Magalie / Villemain Olivier / Younes Boudjemline
- A4 Midterm follow-up results of transcatheter interatrial septal defect closure
Mehdi Ghaderian / Mohammad Reza Sabri / Ali Reza Ahmadi
- A5 Successful catheter treatment by preoperative simulation using 3D organ model for atrial septal defect with dextrocardia and interrupted inferior vena cava to the superior vena cava
Masao Imai / Toshiaki Toyota / Masaharu Yoshida / Naritatsu Saito / Takeshi Kimura
- A6 Rare cause of difficult device retrieval of an embolized atrial septal occluder using the double snare technique
Jung-Sun Kim / Choong-Ki Kim / Jae Young Choi
- A7 Prevalence and significance of right-to-left shunt in adult patients with atrial septal defect
Koji Nakagawa / Teiji Akagi / Yoichi Takaya / Hiroshi Ito
- A8 Plug the VSD-channel despite septal patches and non-trivial anatomy
Christian Schach / Diane Bitzinger / Christof Schmid / Peter Evert / Christoph Birner / Kurt Debl
- A9 Functional tricuspid regurgitation after transcatheter closure of atrial septal defect in adult patients: long-term follow-up
Yoichi Takaya / Teiji Akagi / Koji Nakagawa / Hiroshi Ito



- A10 Transcatheter closure of patent foramen ovale (PFO) in children –
Summary of 10 years of experience in one center
Sebastian Ciemny
- A11 Assessment of ventricular function in patients of atrial septal defect by
strain imaging before and after correction
Prashant Kumar
- A12 Esophageal hematoma following attempt of atrial septal defect closure:
a case report
*Feridoun Noohi / Bahram Mohebbi / Hosseinali Bassiri / Ahmad Mohebi /
Seifollah Abdi / Hamidreaz Pouraliakbar / Mohammad Javad Alemzadeh-Ansari*
- A13 Use of Alteplase for intracardiac thrombus during ASD closure
*Maximiliano Otero Lacoste / Luis Luciano / Leandro Waldrich /
Roberto Leo da Silva / Luiz Eduardo Koenig Sao Thiago / Luiz Carlos Giuliano*
- A14 Successful repair of anomalous pulmonary venous connection by
catheter intervention
Sedigheh Saedi / Ata Firouzi
- A15 Cardiac rupture after ASD device closure
Sedigheh Saedi / Hamid Reza Sanati / Bahram Mohebbi
- A16 Percutaneous creation of atrial septal defect (ASD) for left atrial
decompression in patients with severe ventricular dysfunction in ECMO
*Justo Jose Santiago Pena / Juan Gallego / Javier Castro / Leonardo Blanco /
Alvaro Duran / Leonardo Salazar / Igor Donis*
- A17 Use of Occlutech muscular VSD occluder in congenital cardiac defects
Keyhan Sayadpour Zanjani / Ehsan Aghaei Moghadam
- A18 Preliminary safety and closure performance from REDUCE –
A randomized PFO closure trial
Lars Sondergaard / Scott E. Kasner / John F. Rhodes / Lars Thomassen
- A19 Estimation of size of ASD closure device
Vaibhavi Sonetha / Jayesh Bellare / Bharat Dalvi
- A20 Short and intermediate term safety and efficacy of percutaneous
device closure for secundum atrial septal defects using Occlutech
Figulla® Occluder N
Khaled Refaat Abd El Meguid / Yasser Abd El Hady / Mohamed Medhat Zaki



- A21 Transcatheter occlusion of sinus venous atrial septal defect –
New therapeutic option?
Francisco Chamie / Renata Pretti / Maximiliano Lacoste
- A22 Double snare technique for retrieval of nitinol wire mesh devices
Jae Young Choi / Se Yong Jung / Jung-Sun Kim / Ki Hyun Byun / Teiji Akagi
- A23 Is younger the better for remodeling for left atrium and ventricle with
transcatheter ASD closure in adult patients regardless of diastolic
dysfunction?
Lucy Eun / Eui Young Choi / Young Won Yoon / Jae Young Choi
- A24 Atrial septal defect closure (ASD and PFO) without fluoroscopy in both
paediatric and adult patients – 17 years of experience
Stephan Schubert / Johannes Nordmeyer / Sven Weber / Bjoern Peters / Felix Berger
- A25 Transcatheter device closure of doubly committed ventricular septal defects
Gemma Penford / Tran Cong Bao Phung / Do Nguyen Tin / Le Trong Phi
- A26 Transcatheter reconstruction of subaortic ridge with closure of
perimembranous subaortic VSD with or without AR
Hussein Abdulwahab M. Abdullah / Hussein Abdulzahra

[B] PULMONARY CIRCULATION

- B1 Single center experience of pulmonary vein stenoses in pediatric patients
Mashail Binobaidan
- B2 Y-stenting in complex pulmonary artery bifurcation stenosis
Maartje Conijn / Gregor Krings / Mirella Molenschot / Hans Breur
- B3 Acute and long-term efficacy of percutaneous transluminal angioplasty
using a peripheral cutting balloon and an ultra high-pressure balloon for
peripheral artery stenosis
Kazuto Fujimoto / Masataka Kitano / Masanori Tsukada / Shiraishi Isao
- B4 Primary pulmonary choriocarcinoma mimicking chronic thromboembolic
pulmonary hypertension: case report
*Nayeli Zayas / Claudia Guillen Lopez / Rodrigo Zebadua / Andrea Hernandez /
Tomas Pulido Zamudio*



- C1 A new technique for one-step procedure in pulmonary valve implantation using Melody valve: simultaneous pre-stenting and Melody valve implantation

Younes Boudjemline

- C2 Balloon dilatation of critical aortic stenosis through ECMO cannula in a neonate

Christoph Happel / Sebastian Tietge / Philipp Beerbaum

- C3 A feasibility study of new self-expandable percutaneous pulmonary valve implantation using knitted nitinol-wire stent mounted with a tri-leaflet porcine pericardial valve

Gi Beom Kim / Mi-Kyung Song / Eun Jung Bae / Chung Il Noh

- C4 Accumulated force on sheath dilator caused catastrophic event during paravalvular leakage closure after TAVR with tortuous aorta

Hidehiko Hara

- C5 Percutaneous treatment of severe paravalvular regurgitation after Portico transcatheter aortic valve implantation

Ana Lopez-Suarez / Ana Manovel / Rosa Cardenal / Jose F. Diaz Fernandez

- C6 Acute degree aorto/mitral angle is a predictor of left ventricle perforation in transcatheter aortic valve replacement

Mohammad El Garhy / Tamer Owais / Juergen Fuchs / Kushtrim Disha / Evaldas Girduškas / Martin Breuer / Andreas Wagner / Mathias Schreiber / Bernward Lauer / Thomas Kuntze

- C7 Successful valve in valve TAVI in pregnancy for severe degenerative bioprosthetic aortic valve stenosis

Javier Ganame / Sumeet Gandhi / Richard Whitlock / Victor Chu / Madhu Natarajan / James Velianou

- C8 Dramatic reversal of ischaemia induced by coronary obstruction due to TAVI skirt by stenting into an angiographically normal coronary artery: when you have to trust the TOE rather than the angiogram

Sandeep Hothi / Jeffrey Khoo / Johan Bence / David Adlam / Giovanni Mariscalco / Derek Chin / Jan Kovac

- C9 Multivalvular heart disease: when transcatheter valve therapy becomes a solution

Laurent Jamart / Guedes Antoine



- C10 Efficacy of intracardiac echocardiography during transcatheter aortic valve implantation: preparation to the local anesthesia era in Japan
Akihisa Kataoka / Miho Mitsui / Yusuke Watanabe / Tadanori Harada / Yugo Nara / Fukuko Nagura / Hideyuki Kawashima / Hirofumi Hioki / Makoto Nakashima / Kumiko Konno / Naoyuki Yokoyama / Tomoki Shimokawa / Ken Kozuma
- C11 A case of multi-plugging for mitral mechanical paravalvular leakage using echo-navigator
Kwan Yong Lee / Woo-Baek Chung / Yeon Su Kang / Seung Hoon Lee / Byung-Hee Hwang / Ik Jun Choi / Mi-Jeong Kim / Doo Soo Jeon / Hae Ok Jung / Ho-Joong Youn / Kiyuk Chang, Chang / Yoon-Seok Koh
- C12 Targeted next-generation sequencing identified ADAMTS5 as novel genetic substrate in patients with bicuspid aortic valve
Xiaoping Lin / Xianbao Liu / Lihan Wang / Jubo Jiang / Yinghao Sun / Qifeng Zhu / Zexin Chen / Yuxin He / Po Hu / Qiyuan Xu / Feng Gao / Yan Lin / Meixiang Xiang / Jian'an Wang
- C13 Intraoperative coronary obstruction undergoing transcatheter aortic valve replacement
Jian'an Wang
- C14 Sheathless transcatheter aortic valve implantation with a self-expandable prosthesis
Xianbao Liu / Jian'an Wang
- C15 Difficulties to enter into the left ventricle during percutaneous transvenous mitral commissurotomy (PTMC) – Our experiences with 50 challenging cases
Abdul Momen / Mir Jamal Uddin / Sabina Hashem / Naharuma Aive Hyder Chowdhury / Humayun Kabir / Monsurul Haque / Reaz Mahmud Huda / Farzana Sultana
- C16 PTMC in a dextrocardia patient – First case report from Bangladesh: innovative technique to cross the difficulties
Abdul Momen / Uddin Mir Jamal / Hashem Sabina / Sakif Shahrier / Naharuma Aive Hyder Chowdhury
- C17 Paravalvular leak closure under intracardiac echocardiographic guidance
Neil Ruparelia / Jacob Cao / James Newton / Neil Wilson / Matthew Daniels / Oliver Ormerod
- C18 Toolbox – Simultaneous double transseptal access for Cardioband-/and MitraClip implantation for treatment of severe functional mitral regurgitation
Ulrich Schaefer / Lenard Conradi / Johannes Schirmer / Florian Deuschl



- C19 Percutaneous interventional treatment of tricuspid bioprosthetic dysfunction: 5 year experience at the National Institute of Cardiology “Ignacio Chavez” in Mexico City, Mexico
Adrian Valdespino-Trejo / Eduardo Arias / Marco Alejandro Solorzano-Vazquez / Felix Damas De los Santos / Marco Antonio Pena-Duque
- C20 Novel transradial device for intra-aortic embolic deflection during transcatheter aortic valve implantation
Joeri van Puyvelde / Filip Rega / Renu Virmani / Frank D. Kolodgie / Darren Mylotte / Victor Jimenez
- C21 Transcatheter aortic valve implantation in a patient with rheumatic aortic stenosis
Tian-Yuan Xiong / Yuan Feng / Mao Chen
- C22 Successful transferal TAVI under local anesthesia for a patient with severe stenosis of bilateral iliac and severe interstitial pneumonia
Mariko Yano / Mizuki Miura / Shinya Ito / Tomohiro Kawaguchi / Takashi Morinaga / Masaomi Hayashi / Akihiro Isotani / Shinichi Kakumoto / Yoshio Arai / Shirai Shinichi / Michiya Hanyu / Kenji Ando
- C23 Vascular plug occlusion of mitral paravalvular leak in a case of double valve replacement
Parag Barwad / Ashish Tiwari
- C24 Looping against TAVI leaks – The hidden hook
Pablo Bazal / Roman Lezaun / Adela Navarro / Elena Escribano / Maite Beunza
- C25 A friendly tie on a hard TAVI
Pablo Bazal / Roman Lezaun / Adela Navarro / Elena Escribano
- C26 A black percutaneous coronary intervention and transcatheter aortic valve implantation
Chiara Bernelli / Simona Pierini / Maurizio Giovanni Ornaghi / Francesco Gentile
- C27 3D guidance of percutaneous pulmonary valve implantation (PPVI) with the use of VesselNavigator
Stephan Schubert / Titus Kuehne / Pawel Dryzek / Tomasz Moszura / Maciej Lukaszewski / Jadwiga Anna Moll / Sarah Nordmeyer / Felix Berger / Sebastian Goreczny



[D] COARCTATION AND DUCTS

137

- D1 Hybrid approach to recoarctation of the aorta in children with hypoplastic left heart syndrome after the Norwood procedure
Tomasz Mroczek / Magdalena Czerzynska / Jacek Kuzma / Julita Sacharczuk / Rafal Zurek / Elzbieta Wojcik / Jerzy Jarosz / Janusz Skalski
- D2 Transthoracic echocardiography guidance percutaneous PDA closure in pediatric population
Mashail Binobaidan
- D3 Experiences with transcatheter closure of patent ductus arteriosus in premature infants weighting less than 2 kilograms
Jieh-Neng Wang / Yung-Chieh Lin / Min-Ling Hsieh / Jing-Ming Wu
- D4 Device induced coarctation post PDA closure
Sherien Abdelsalam Mohamed / Hassan Almeneisi
- D5 Patent ductus arteriosus. It is never too late to close it.
Miriam Jimenez / Vicente Alcalde / Joaquin Sanchez / Juan Caballero / Eduardo Moreno Escobar / Jose Antonio Romero / Jose Antonio Ramirez / Gerardo Moreno / Eduardo Molina
- D6 Treatment of takayasu arteritis with self-expandable stent
Majed Kanaan / Marinos Kantzis / Eugen Sandica / Deniz Kececioğlu
- D7 Coarctation angioplasty and stenting in a complicated case
Zahra Khajali / Ata Firoozi / Hamidreza Sanati / Bahram Mohebbi
- D8 Self-expandable stent for repairing coarctation of the left-circumferential aortic arch with right-sided descending aorta and aberrant right subclavian artery with Kommerell's diverticulum
Hamid Reza Sanati / Bahram Mohebbi / Zahra Khajali / Hamidreza Pouraliakbar / Ata Firoozi / Sedigheh Saedi / Mohammad Javad Alemzadeh-Ansari





- D9 Transcatheter closure of post-coarctation aneurysm with device occlusion of the ascending and descending aorta in a patient with an extra-anatomic bypass

Angel Sanchez-Recalde / Federico Gutierrez Larraya / Gonzalo Garzon / Enrique Balbacid / Cesar Abelleira / Guillermo Galeote / Santiago Jimenez-Valero / Raul Moreno Gomez

- D10 Initial clinical results with the new BeGraft aortic covered stent in coarctation of the aorta

Elchanan Bruckheimer

- D11 PDA occlusion: comparison between two new generation nitinol devices

Francisco Chamie / Renata Pretti / Valerio Fuks

[E] VARIOUS TOPICS

- E1 First report of transcatheter closure of ruptured sinus of valsalva aneurysm using the Nit-Occlud Le VSD occluder

Lidia Wozniak / Robert Sabiniewicz / Piotr Potaz / Maksymilian Mielczarek / Dariusz Cieciewicz

- E2 The use of vascular detachable coil for percutaneous closure of iatrogenic aorto-right atrial fistula

Maksymilian Mielczarek / Robert Sabiniewicz / Tomasz Krolak / Lidia Wozniak-Mielczarek / Dariusz Cieciewicz

- E3 Interventional treatment of a giant carotid artery aneurysm with a Sinus DS ductus stent in a two years old child – Is future stent cracking an option?

Anja Lehner / Silvia Fernandez Rodriguez / Sarah Ulrich / Fischer Markus / Robert Dalla Pozza / Nikolaus Haas

- E4 Outcomes of modified Blalock-Taussig shunts performed in the neonatal period: a single centre experience

Daniel McLennan / Jonathan Mervis

- E5 Expanded use of alternate routes of vascular access: a movement toward performing more complex interventions in younger children

Alejandro Rodriguez Ogando / Fernando Ballesteros / Ramon Perez Caballero / Ana Pita / Adolfo Sobrino / Jose Luis Zunzunegui



- E6 Atrial septal stent implantation for the management of congenital heart disease in infants
Adolfo Sobrino / Alejandro Rodriguez Ogando / Fernando Ballesteros / Ana Pita Fernandez / Nuria Gil Villanueva / Jose Luis Zunzunegui
- E7 Complications I wish I had never seen
Sherien Abdelsalam Mohamed / Susy Kotit / Hassan Almeneisi
- E8 Aortopulmonary fistula closure in infant
Dmitriy Korzh / Ivan Tkachev
- E9 The feasibility of left atrial appendage occlusion in patients with left atrial appendage thrombus
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