

CSI 2022 Program

Day	Room	Time	Session	Speaker	Min
Wednesday, June 22					
	Main room - Harmonie	8:30-10:30	What's new in imaging?		120
			Moderators: Martin Swaans, Shakeel Qureshi		
			Panelists: Tarique Hussain, Malaika Mendonca, Stephen Little		
			Q&A moderator: Burkhard Mackensen		
			Live case transmission from CardioVascular Center Frankfurt CVC, Frankfurt, Germany	Operator: Horst Sievert	40
			3D echo and CT fusion imaging as guidance for percutaneous procedures	Marcin Fijalkowski	10
			Dielectric imaging for LAAO	Apostolos Tzikas	8
			3D ICE guidance for LAAO	Bushra Rana	8
			Impact of right heart anatomy on Transcatheter device delivery systems	Dee Dee Wang	8
			Surgical mitral bioprosthesis selection for TMVR VIV: new surgical bioprosthesis vs conventional designs	Dee Dee Wang	8
			CT-derived ICE views for transcatheter implant preparation	Nina Ajmone Marsan	8
			FEops	tbc	...
			<i>Discussion</i>		...
Focus workshop: Tricuspid valve interventions					
	Main room - Harmonie	11:00-13:05	TRICUSPID VALVE INTERVENTIONS: Troubleshooting for future tricuspid interventions		125
			Moderators: Matthew Daniels, John Carroll		
			Panelists: Felix Kreidel, Azeem Latib, Nina Ajmone Marsan		
			Q&A moderator: Fabien Praz		

Preliminary program

		Recorded case from St. Antonius Ziekenhuis, Nieuwegein, Netherlands	Martin Swaans	10
		<i>Discussion</i>		15
		Challenges of early generation tricuspid technologies	Pradeep Yadav (virtual)	10
		<i>Discussion</i>		4
		What I wish R&D teams knew about the anatomy of the right heart (humans)	Juan Granada	10
		<i>Discussion</i>		4
		Key intraprocedural TEE images for tricuspid replacement and repair	Nina Wunderlich	10
		<i>Discussion</i>		4
		Teach me TEE knobology for tricuspid imaging	Nadira Hamid	7
		<i>Discussion</i>		4
		Teach me ICE knobology for tricuspid imaging	Alok Sharma	7
		<i>Discussion</i>		4
		Key CT planning evaluation for tricuspid replacement and repair	Dee Dee Wang	7
		<i>Discussion</i>		5
		Building a structural CT program: troubleshooting tricuspid CTs	Omar Khalique	7
		<i>Discussion</i>		5
		Assessing RV parameters by echo and MRI	Amit Patel (virtual)	7
		<i>Discussion</i>		5
Exhibition area	13:05-13:20	Lunch box		15
Main room - Harmonie	13:20-15:35	TRICUSPID VALVE INTERVENTIONS: Available devices, treatment options and potential improvements		135
		Moderators: Martin Swaans, Matthew Price		
		Panelists: Giora Weisz, Alok Sharma, Axel Linke		
		Q&A moderator: Dee Dee Wang		



Preliminary program

		Live case transmission from Ludwig Maximilian University of Munich, Munich, Germany	Operator: Jörg Hausleiter	40
		Triclip: favorite anatomy, my most challenging anatomies	Ralph Stephan von Bardeleben	10
		<i>Discussion</i>		4
		Other devices	Azeem Latib	7
		<i>Discussion</i>		5
		Debate: When to medicate, when to repair, when to replace		
		<ul style="list-style-type: none"> GDMT: you're treating too early, let me teach you GDMT for the right heart 	Andreas Brieke	8
		<i>Discussion</i>		5
		<ul style="list-style-type: none"> Don't replace a perfectly good valve, repair it 	Scott Lim	8
		<i>Discussion</i>		5
		<ul style="list-style-type: none"> Reduction, 2 grade or 4 grade, replacement obliterates TR 	Adam Greenbaum	8
		<i>Discussion</i>		5
		Up and coming tricuspid replacement technologies		
		- TricValve	Rishi Puri	8
		- Other devices	tbc	7
		<i>Discussion</i>		5
Exhibition area	15:35-16:05	Coffee break		30
Main room - Harmonie	16:05-18:30	TRICUSPID VALVE INTERVENTIONS: Building a "tricuspid program"		145
		Moderators: Martin Leon, Issam Moussa		
		Panelists: Nadira Hamid, Hendrik Treede, Christoph Hammerstingl		
		Q&A moderator: Omar Khalique		

Preliminary program

CSI 2022
JUNE 22 - 25
FRANKFURT, GERMANY



		Live case transmission from Ludwig Maximilian University of Munich, Munich, Germany	Operator: Jörg Hausleiter	40
		Finding TR patients		
		<ul style="list-style-type: none"> Is it pulmonary hypertension or is it tricuspid disease? Where are the patients? 	Alison Duncan	7
		<i>Discussion</i>		4
		<ul style="list-style-type: none"> What to understand about pacemakers and TR? 	Nina Ajmone Marsan	7
		<i>Discussion</i>		4
		<ul style="list-style-type: none"> Atrial functional TR, where are those patients? 	Philip Lurz	7
		<i>Discussion</i>		4
		Congenital heart disease and tricuspid intervention	Kent Chak-yu So	7
		<i>Discussion</i>		5
		Staging interventions: Multi-valvular heart disease		
		<ul style="list-style-type: none"> What's your practice pattern: drive-by or staged mitral then tricuspid interventions? 	Scott Lim	7
		<i>Discussion</i>		5
		<ul style="list-style-type: none"> Is surgery still an option: what's the ideal patient? 	Thomas Caranasos	7
		<i>Discussion</i>		5
		Personnel		
		<ul style="list-style-type: none"> The forgotten physician: who holds the ICE probe, who holds the TEE? 	Edwin Ho	7
		<i>Discussion</i>		5
		<ul style="list-style-type: none"> Imaging training requirements for tricuspid interventions: are we there yet? 	Stephen Little	7
		<i>Discussion</i>		5
		<ul style="list-style-type: none"> Implanting training requirements for tricuspid interventions: are we there yet? 	Vinayak Bapat (virtual)	7
		<i>Discussion</i>		5



Focus workshop: LAA closure

Spektrum	11:00 - 13:05	LAA CLOSURE: Imaging		125
		Moderator: Bushra Rana, Mohamad Alkhoul		
		Panelists: Randall Lee, Teguh Santoso, Krzysztof Kaczmarek		
		Q&A moderator: Hidehiko Hara		
		Facilitator: Marcus Sandri		
		Live case transmission from CardioVascular Center Frankfurt CVC, Frankfurt, Germany	Operator: Horst Sievert	30
		Intraprocedural TEE - Tips & tricks for guiding transseptal puncture	Bushra Rana	8
		<i>Discussion</i>		6
		Intraprocedural TEE - Tips & tricks for guiding successful LAA closure	Martin Swaans	8
		<i>Discussion</i>		6
		CT evaluation before LAA closure step-by-step	Ole De Backer	8
		Debate		
		• Pre-procedural CT is necessary for ICE- guided LAA closure	Lars Sondergaard	6
		• Stand-alone ICE for LAA closure: no fancy CT/TEE imaging needed	Matthew Price	6
		<i>Discussion</i>		13
		Mini, micro, pediatric TEE: will it replace traditional TEE?	Lucas Boersma	7
		Fusion imaging: Real-world application and value in clinical practice	Philippe Garot	7
		What is and how to detect a DRT and (peri-device) leak?	Burkhard Mackensen	7
		<i>Discussion</i>		13

Preliminary program

Exhibition area	13:05 - 13:20	Lunch break		20
Spektrum	13:20 - 15:35	LAA CLOSURE: Current guidelines, studies and new indications		135
		Moderators: Apostolos Tzikas, Maurice Buchbinder		
		Panelists: Teguh Santoso, Nicolas Amabile, Jacqueline Saw		
		Q&A moderator: Jens-Erik Nielsen-Kudsk		
		Facilitator: Burkhard Mackensen		
		Two million candidates for LAA closure in US!!!	Torsten Vahl	8
		<i>Discussion</i>		4
		New indications to consider	Led by Apostolos Tzikas	
		<ul style="list-style-type: none"> • Percutaneous LAA closure for patients with atrial fibrillation and cerebral microbleeds on brain imaging 	tbc	7
		<i>Discussion</i>		4
		<ul style="list-style-type: none"> • Percutaneous LAA closure for patients with atrial fibrillation and cerebral amyloid angiopathy on brain imaging? 	Iqbal Malik	7
		<i>Discussion</i>		4
		<ul style="list-style-type: none"> • Routine LAA closure in patients undergoing atrial fibrillation ablation? 	Boris Schmidt	7
		<i>Discussion</i>		4
		<ul style="list-style-type: none"> • Should we consider LAA closure in TAVI patients with atrial fibrillation? 	Lars Søndergaard	7
		<i>Discussion</i>		4
		<ul style="list-style-type: none"> • Any evidence for LAA closure in patients with ischemic stroke under (D)OAC? 	Xavier Freixa	7
		<i>Discussion</i>		5
		<ul style="list-style-type: none"> • Percutaneous LAAC in patients with a thrombus in the LAA: protective or high risk? 	Randall Lee	7
		<i>Discussion</i>		5



Preliminary program

		A paradigm shift due to recent studies?	Led by Maurice Buchbinder	
		<ul style="list-style-type: none"> LAAOS III 	Gry Dahle	5
		<ul style="list-style-type: none"> AMAZE trial 	Suneet Mittal	5
		<ul style="list-style-type: none"> Updates on other ongoing RCTs 	Ulf Landmesser	5
		Panel discussion on new studies and upcoming CATALYST and CHAMPION-AF trials	Panel discussion	15
		Perils of long-term OAC in patients at brain hemorrhage risk: recent updates and RCTs	<i>Edip Gurol</i>	8
		<i>Discussion</i>		5
		Ischemic stroke on OAC or after LAAC: what do we know, what do we need to learn?	<i>Edip Gurol</i>	8
		<i>Discussion</i>		5
Exhibition area	15:35 - 16:05	Coffee break		30
Spektrum	16:05 - 18:30	LAA CLOSURE: Tips & tricks– Prevention & management of complications		145
		Moderators: Lars Sondergaard, Hidehiko Hara		
		Panelists: Lucas Boersma, Ulf Landmesser, David Meerkink		
		Q&A moderator: Marek Grygier		
		Facilitator: Thorsten Hanke		
		Live case transmission from University Hospital of Salamanca, Salamanca, Spain	Operator: Ignacio Cruz Gonzalez	35
		The perfect transseptal puncture when performing LAA closure	Jacqueline Saw	7
		New technologies for transseptal puncture	Randall Lee	6
		<i>Discussion</i>		8



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		Tips & tricks and lessons learned:		
		• Amplatzer Amulet	Jens-Erik Nielsen-Kudsk	6
		• WatchmanFLX	Neil Gheewala	6
		• LAmbre	Simon Lam (virtual)	6
		• Omega	Boris Schmidt	6
		• Tips & tricks when having to close specific LAA anatomies	Ole De Backer	7
		Discussion		14
		Prevention & management of complications		
		• Tamponade	Kolja Sievert	7
		Discussion		4
		• Embolized device	Dabit Arzamendi	7
		Discussion		4
		• Residual leaks	Jaqueline Saw	7
		Discussion		4
		• Device related thrombus (DRT)	Kerstin Piayda	7
		Discussion		4
PDA stenting				
Fantasie	11:00 – 13:05	PDA stenting		125
		Moderators: Martin Schneider, Shakeel Qureshi		
		Panelists: John Breinholt, Amal El-Sisi, Tin Do Nguyen		
		Q&A moderator: Peter Zartner		
		Facilitator: Matthew Jones		
		Imaging of the PDA	Phuoc Duong	9
		Discussion		7
		PDA stenting: choosing the right access, using the best technique	Behzad Alizadeth	9
		Discussion		7

Preliminary program

		The Tortuosity index of the arterial duct: anatomical limitation for stenting	Nathalie Mini	9
		<i>Discussion</i>		7
		Stenting in duct-dependent systemic circulation	Ina Michel-Behnke	9
		<i>Discussion</i>		7
		Stenting in duct-dependent pulmonary circulation	Oliver Kretschmar	9
		<i>Discussion</i>		7
		Stenting of difficult arterial ducts: tips and tricks	Dietmar Schranz	9
		<i>Discussion</i>		7
		Debate:		
		• I prefer shunt operation	John Thomson	8
		• I prefer duct stenting	Boulos Asfour	8
		<i>Discussion</i>		13
Exhibition area	13:05 - 13:20	Lunch break		15

Focus workshop: ASD closure

Fantasie	13:20 - 15:35	ASD CLOSURE: Special considerations for special patients		135
		Moderators: Neil Wilson, Ziyad Hijazi		
		Panelists: Tin Do Nguyen, Prasanth Thakur, Philip MacCarthy		
		Q&A moderator: Mann Chandavimol		
		Facilitator: Sebastien Hascoet		
		Live case transmission CardioVascular Center Frankfurt CVC, Frankfurt, Germany	Operator: Horst Sievert	30
		Special considerations in ASD closure in small babies	Nageswara Rao Koneti	8
		<i>Discussion</i>		6
		Special considerations in ASD closure in elderly patients	Teiji Akagi	8

Preliminary program

		<i>Discussion</i>		6
		ASD closure for small hole: How small is too small?	Alain Fraisse	8
		<i>Discussion</i>		6
		ASD closure for a big hole: How big is too big?	Bharat Dalvi	8
		<i>Discussion</i>		6
		Assessment and technical considerations in ASDs with pulmonary artery hypertension	Kevin Walsh	8
		<i>Discussion</i>		6
		Debate: ESC Guidelines for ASD closure in pulmonary artery hypertension are rubbish!!		
		• Yes	Nikolaus Haas	5
		• No	Massimo Chessa	5
		<i>Discussion</i>		10
		Special considerations in ASD closure for residual shunt	Omar Galal	8
		<i>Discussion</i>		7
Exhibition area	15:35 - 16:05	Coffee break		30
Fantasie	16:05 - 18:30	ASD CLOSURE: New horizons		145
		Moderators: Zahid Amin		
		Panelists: Matthew Gillespie, Rajesh Kumar R, Srinath T. Gowda		
		Q&A moderator: Jae-Young Choi		
		Facilitator: Iqbal Malik		
		Live case transmission from Institute of Cardio Vascular Diseases, the Madras Medical Mission, Chennai, India	Operator: Kothandam Sivakumar	40

Preliminary program

		When does echo/fluoro fusion and/or 3D TEE help?	Clement Karsenty	8
		Discussion		5
		How to do an ASD closure without fluoroscopy	Peter Ewert	8
		Closure of coronary sinus ASDs	Jou-Kou Wang	8
		<i>Discussion</i>		5
		Closure of rim deficiency ASDs	Hideshi Tomita (virtual)	8
		<i>Discussion</i>		5
		Closure in septal malalignment ASDs	Teiji Akagi	8
		<i>Discussion</i>		5
		Closure of multiple holes	Martin Schneider	8
		<i>Discussion</i>		5
		With multiple device choices, how to choose?	Panel discussion	12
		ASD closure with biodegradable devices		
		• Lepu	Xiangbin Pan (virtual)	5
		• Mallow Medical	tbc	5
		<i>Discussion</i>		10
LIVE theatre				
Congress theatre	11:00 - 13:05	LIVE theatre		125
		Moderators: Evan Zahn, Iqbal Malik		
		Panelists: Vaikom Mahadevan, Srinath Reddy		
		Q&A moderator: Eric Rosenthal		
		Live center coordinator: Allison Cabalka		



Preliminary program

		Live case transmission from Queen Sirikit National Institute of Child Health, Pediatric Cardiac Center, Bangkok, Thailand	Operator: Worakan Promphan	40
		Live case transmission from Shanghai Institute of Cardiovascular Diseases, Zhongshan Hospital, Fudan University, Shanghai, China	Operator: Wenzhi Pan	40
		Live case transmission from CardioVascular Center Frankfurt CVC, Frankfurt, Germany	Operator: Horst Sievert	45
Exhibition area	13:05 - 13:20	Lunch boxes		15
Congress theatre	13:20 - 15:35	LIVE theatre		135
		Moderators: Suresh Kumar, Joseph Vettukattil		
		Panelists: Mahua Roy, Johannes Nordmeyer		
		Q&A moderator: Nageswara Rao Koneti		
		Live center coordinator: Alison Cabalka		
		Live case transmission from Institute of Cardio Vascular Diseases, the Madras Medical Mission, Chennai, India	Operator: Kothandam Sivakumar	135
Exhibition area	15:35 - 16:05	Coffee break		30
Congress theatre	16:05 - 18:30	LIVE theatre		145
		Moderators: Vaikom Mahadevan, Apostolos Tzikas		
		Panelists: Nicolas Amabile, Sergio Berti		
		Q&A moderator: Martin Bergmann		
		Live center coordinator: Mohamad Alkhouli		
		Live case transmission from Minneapolis Veterans Affairs Medical Center, Minneapolis, USA	Operator: Stefan Bertog	55



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			Live case transmission from CardioVascular Center Frankfurt CVC, Frankfurt, Germany	Operator: Horst Sievert	45
			Live case transmission from Minneapolis Veterans Affairs Medical Center, Minneapolis, USA	Operator: Stefan Bertog	45
Day	Room	Time	Session	Speaker	Min
Thursday, June 23					
	Main lecture hall - Harmonie	08:30 - 10:30	What's new?		120
			Moderators: Shakeel Qureshi, Martin Leon		
			Panelists: Federico DeMarco, Rajendra Makkar, Alison Duncan		
			Q&A moderator: Oliver Kretschmar		
			Live case transmission from Leeds General Infirmary, Leeds, United Kingdom	Operator: James Bentham	40
			From surgical chordal repair to transcatheter chordal repair	Stephan von Bardeleben	5
			Live system for non-invasive intracardiac measurement	Avraham Lorber	5
			Transcatheter pulmonary artery banding [PAB] for adults with dilated cardiomyopathy [DCM]: Initial results from the First-in-Human trial	Elchanan Bruckheimer	5
			V-sling, A Left Ventricular Transcatheter Repair Device for HFrEF	Horst Sievert	5
			Mechanical barostimulation	Horst Sievert	5
			Laminar	Jason Rogers	5
			Append Medical	Zachi Berger	5
			SealA	Horst Sievert	5
			Coramaze	Horst Sievert	5
			Snowy biodegradable PFO device	Horst Sievert	5
			Discussion		30

Preliminary program

Exhibition area	10:30 - 11:00	Coffee break		30
Focus workshop: Pulmonary valve implantation				
Main lecture hall - Harmonie	11:00 - 13:15	PULMONARY VALVE IMPLANTATION: Pre-procedure imaging		135
		Moderators: Shakeel Qureshi, Evan Zahn		
		Panelists: Alaa Mahmoud Roushdy, Amitabha Chattopadhyay, Regina Bokenkamp		
		Q&A moderator: Nageswara Rao Koneti		
		Anatomic variability and pitfalls in patients requiring PPVI	Andrew Cook	8
		<i>Discussion</i>		7
		Pre-procedural selection - Is MRI sufficient?	Kuberan Pushparajah	8
		Pre-procedural selection - Just go straight to CT!	Phuoc Duong	8
		<i>Discussion</i>		15
		Overview of available softwares	<i>Xavier Iriart</i>	8
		Case example with 3mensio	<i>Xavier Iriart</i>	8
		<i>Discussion</i>		14
		The coronaries in native PPVI - How much should we worry?	Peter Ewert	8
		<i>Discussion</i>		7
		Practical selection tips from experienced centers		
		• Patient selection and assessment for native PPVI - American approach	tbc	8
		• Patient selection and assessment for native PPVI - Munich approach	Marc Gewillig	8
		• Algorithm for patient selection for native PPVI – Asian perspective	Worakan Promphan	8

Preliminary program

		<i>Discussion</i>		20
Exhibition area	13:15 - 13:40	Lunch break		25
Main lecture hall - Harmonie	13:40 - 16:00	PULMONARY VALVE IMPLANTATION: Valves		140
		Moderators: Mario Carminati, Marc Gewillig		
		Panelists: Tomohito Kogure, Stephan Schubert, Prabhat Kumar Dash		
		Q&A moderator: Sachin Khambadkone		
		Live case transmission from Leeds General Infirmary, Leeds, United Kingdom	Operator: James Bentham	40
		Strengths, weaknesses and practical limitations		
		• Melody	Philip Roberts (virtual)	8
		• Edwards Sapien 3	Gianfranco Butera	8
		• Alterra	Shabana Shahanavaz	8
		• Pulsta	Gi Beom Kim	8
		• Venus P-valve	Kevin Walsh	8
		• Harmony	Matthew Gillespie	8
		• Practical considerations for V-i-V implantation	Allison Cabalka	8
		• What else is out there and what to expect in the future	Shakeel Qureshi	8
		<i>Discussion</i>		36
Exhibition area	16:00 - 16:30	Coffee break		30

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Main lecture hall - Harmonie	16:30 - 18:30	PULMONARY VALVE IMPLANTATION: Controversies and debates		120
		Given the available technology, we are still implanting pulmonary valves too late in the post ToF repair population		
		• For	Marc Gewillig	7
		• Against	tbc	7
		<i>Discussion</i>		10
		Surgeons should be repairing ToF with PPVI in mind... techniques need to change!		
		• For	Kevin Walsh	7
		• Against	Viktor Hraska	7
		<i>Discussion</i>		10
		Endocarditis risk should be a key consideration in choice of PPVI		
		• For	Federico DeMarco	7
		• Against	Peter Ewert	7
		<i>Discussion</i>		10
		Self-expanding PV technology will make balloon expandable PVs in the native outflow tract redundant?		
		• For	Shakeel Qureshi	7
		• Against	Damien Kenny	7
		<i>Discussion</i>		10
		Recorded case from Colorado Children's Hospital, Denver, USA	Gareth Morgan	10
		<i>Discussion</i>		14
Focus workshop: PFO closure				



Preliminary program

	Spektrum	11:00-13:15	PFO CLOSURE: History, diagnosis, imaging, data		135
			Moderators: Bushra Rana, Lars Sondergaard		
			Panelists: Sergio Berti, Christian Pristipino, Adam Kolesnik		
			Q&A moderator: Miroslava Stolcova		
			Facilitator: Dabit Arzamendi		
			Live case transmission from CardioVascular Center Frankfurt CVC, Frankfurt, Germany	Operator: Horst Sievert	30
			PFO: a historical perspective: first description to first closure	Stefan Bertog	8
			<i>Discussion</i>		4
			Proposal for updated nomenclature and classification of potential causative mechanism in PFO associated stroke	Jonathan Tobis	8
			<i>Discussion</i>		4
			PFO diagnosis: protocol, shunt grading and pitfalls	Achille Gaspardone	8
			<i>Discussion</i>		4
			New trial data after 2017	John Carroll	10
			<i>Discussion</i>		8
			TEE: tips, tricks, role for 3-D imaging?	Bushra Rana	8
			<i>Discussion</i>		4
			ICE for PFO closure: all you need to know	Sergio Berti	8
			<i>Discussion</i>		4
			Guidelines/position papers	Christian Pristipino	8
			<i>Discussion</i>		4
			What the guidelines get right and what the guidelines get wrong	Matthew Daniels	8
			<i>Discussion</i>		5
	Exhibition area	13:15 - 13:40	Lunch break		25
	Spektrum	13:40 - 16:00	PFO CLOSURE: Work-up, procedural tips and special circumstances		140
			Moderators: Matthew Daniels, Lars Sondergaard		

Preliminary program

		Panelists: Iqbal Maliq, John Carroll, Achille Gaspardone		
		Q&A moderator: Neeraj Awasthy		
		Facilitator: Mohamad Alkhouli		
		This is my approach to the work-up of patients with stroke and patent foramen ovale	Marcus Sandri	7
		<i>Discussion</i>		5
		RoPE score: Why did we come up with it and how it should be used?	David Thaler	7
		<i>Discussion</i>		5
		My approach to an aneurysmal septum	Magnus Settergren	7
		<i>Discussion</i>		5
		My approach to a long tunnel	Jason Anderson	7
		<i>Discussion</i>		5
		Anatomical and physiological pitfalls to PFO closure	Matthew Daniels	7
		<i>Discussion</i>		5
		Challenging cases for Gore septal occluder	Niki Walker	8
		<i>Discussion</i>		5
		Challenging cases for Amplatzer PFO occluder	David Hildick-Smith	8
		<i>Discussion</i>		5
		Challenging cases for Cocoon	Alain Fraise	8
		<i>Discussion</i>		5
		Challenging cases for Occlutech PFO occluder	Neil Ruparelia	8
		<i>Discussion</i>		5
		<i>Challenging cases for Ceraflex</i>	Stephan von Bardeleben	
		<i>Discussion</i>		
		<i>Challenging cases for NobleStich</i>	tbc	8
		<i>Discussion</i>		5
		PFO closure for arterial deoxygenation syndromes	Jonathan Tobis	7
		<i>Discussion</i>		5
Exhibition area	16:00 - 16:30	Coffee break		30

Preliminary program

Spektrum	16:30 - 18:30	PFO CLOSURE: Complications and postprocedural care		120
		Moderators: John Carroll, Scott Lim		
		Panelists: Teiji Akagi, Xavier Freixa, Jacqueline Saw		
		Q&A moderator: Jan Kovac		
		Facilitator: Eustaquio Onorato		
		Live case transmission from CardioVascular Center Frankfurt CVC, Frankfurt, Germany	Operator: Horst Sievert	35
		Routine postprocedural care and follow-up: here is my approach	Christian Pristipino	8
		<i>Discussion</i>		5
		Residual leak: Hildick Smith debate: to close or not to close	David Hildick-Smith	8
		<i>Discussion</i>		5
		Case example: residual leak closure	Nicholas Hayes	5
		<i>Discussion</i>		5
		Case example postprocedural atrial fibrillation	Stefan Bertog	3
		Atrial fibrillation: now what?	Jens Erik Nielsen-Kudsk	7
		<i>Discussion</i>		5
		Case example atrial fibrillation and concomitant PFO	Mohamad Alkhouli	3
		<i>Discussion</i>		5
		Transseptal access after PFO closure	Jason Anderson	6
		<i>Discussion</i>		7
		Device erosion: is this anything that I need to worry about using PFO occluders?	Zahid Amin	7
		<i>Discussion</i>		5
Focus workshop: Mitral valve interventions				
Fantasie	11:00 - 13:15	MITRAL VALVE INTERVENTIONS: Secondary mitral valve disease – one entity or many		135
		Moderators: Martin Swaans, Matthew Price		

Preliminary program

		Panelists: Alison Duncan, Chad Kliger, Stephan Fichtlscherer		
		Q&A moderator: Tobias Ruf		
		Facilitator: Nilesh Sutaria		
		Live transmission from MZV Prof. Mathey, Prof. Schofer, Hamburg, Germany: The COAPT like patient	Operator: Joachim Schofer	40
		Recorded case: The Non-COAPT like patient	tbc	10
		<i>Discussion</i>		15
		Secondary mitral valve disease: three different aetiologies!	Edwin Ho	8
		<i>Discussion</i>		5
		Three decades of mitral valve repair: the surgeon has all the data and experience		
		• Nobody competes with my knowledge	Michael Borger	7
		• I can compete!	Ralph Stephan von Bardeleben	7
		<i>Discussion</i>		8
		Treatment focus?		
		• Longer life	Jörg Hausleiter	7
		• Better life	Fabien Praz	7
		<i>Discussion</i>		9
		Should we treat secondary mitral regurgitation earlier?	John Carroll	7
		<i>Discussion</i>		5
Exhibition area	13:15 - 13:40	Lunch break		25
Fantasie	13:40 - 16:00	MITRAL VALVE INTERVENTIONS: Mitral valve treatment pathways in view of recent guidelines		140

Preliminary program

		Moderators: Martin Leon, Issam Moussa		
		Panelists: Philipp Blanke, Rafael Hirsch, Lucas Boersma		
		Q&A moderator: Alan Nugent		
		Facilitator: Adam Greenbaum		
		Live case transmission from Erasmus Medical Center, Rotterdam, Netherlands	Operator: Nicolas van Mieghem	40
		A – My patient with primary mitral valve regurgitation		
		What do the US and ESC guidelines say?	Torsten Doerst	8
		Treatment controversies: a patient with P2 prolapse:		
		• Patient 1: A frail 50-year-old?	Andrea Colli	8
		Heart team discussion		12
		• Patient 2: A healthy 80-year-old?	Scott Lim	8
		Heart team discussion		12
		B – My patient with secondary mitral valve regurgitation		
		What do the US and ESC guidelines say?	Stefan Anker	8
		Treatment controversies: a patient with heart failure and MR		
		• Patient 1: An ischemic young patient	Jason Rogers (virtual)	8
		Heart team discussion		12
		• Patient 2: An 80-year old with chronic atrial fibrillation and HFpEF	Martin Bergmann	8
		Heart team discussion		12
		<i>Take-home messages</i>		4
Exhibition area	16:00 - 16:30	Coffee break		30
Fantasie	16:30 - 18:30	MITRAL VALVE INTERVENTIONS: Mitral transcatheter hot topic innovation – repair to replace		120
		Moderators: Azeem Latib, Ralph Stephan von Bardeleben		



Preliminary program

		Panelists: Neil Ruparelia, Michael Borger, Sidakpal Paniach		
		Q&A moderator: Christoph Hammerstingl		
		Facilitator: Martin Bergmann		
		Acute mitral regurgitation in cardiogenic shock – role of interventions?	tbc	8
		<i>Discussion</i>		5
		Late breaker – transcatheter chordal repair on the horizon	Azeem Latib	8
		<i>Discussion</i>		5
		The initial experience with transseptal (TS) AltaValve system	Naeem K. Tahirkheli	8
		<i>Discussion</i>		5
		Other new devices for treating mitral regurgitation	Georg Nickenig	8
		<i>Discussion</i>		5
		MitraClip Implantation under Holography guidance	Elchanan Bruckheimer	8
		<i>Discussion</i>		5
		Innovations in mitral valve treatment: two debates		
		The MAC debate		
		• MAC is difficult, but I can deal with it!	Gilles Dreyfus	8
		• Yes, you can deal with it, but I have safer options.	Alison Duncan	8
		<i>Discussion</i>		10
		The 2030 debate		
		• Surgery!	tbc	8
		• Interventions!	Eberhard Grube	8
		<i>Discussion</i>		13
From fetus to adult: aortic stenosis				
Illusion 2+3	11:00 – 13:15	From fetus to adult: aortic stenosis		135
		Moderators: Petru Liuba, Dietmar Schranz		

Preliminary program

		Panelists: Ina Michel-Behnke, Thomas Krasemann, Mirella Molenschot		
		Q&A moderator: Boulos Asfour		
		Facilitator: Dietmar Schranz		
		How to set-up a fetal interventional program	Joanna Dangel	8
		<i>Discussion</i>		9
		Fetal aortic valvoplasty: is it justified?	Gerald Tulzer	8
		<i>Discussion</i>		9
		Critical aortic stenosis in neonates with borderline left ventricle: what is the best treatment?		
		• Balloon	Jaana Pihkala	8
		• Surgery	<i>Mats Synnergren</i>	8
		<i>Discussion</i>		18
		Neonatal Ross-Konno after fetal aortic valvoplasty: mid- and longterm outcome	<i>Eva Sames Dolzer</i>	8
		<i>Discussion</i>		9
		Balloon valvoplasty is an option in children		
		• Pro	Maiy El Sayed	8
		• Con	Serban Stoica	8
		<i>Discussion</i>		18
		Transcatheter aortic valve replacement in children and young adults: is it justified?	Damien Kenny	8
		<i>Discussion</i>		11

Preliminary program

Exhibition area	13:15 - 13:40	Lunch break		25
Lymphatic interventions				
Illusion 2+3	13:40 – 16:00	Lymphatic interventions		140
		Moderators: Max Itkin, Peter Zartner		
		Panelists: Oliver Kretschmar, Elchanan Bruckheimer, Mark Turner		
		Q&A moderator: John Thomson		
		Facilitator: Demetris Taliotis		
		Physiology and anatomy of the lymphatic system (focus on heart failure)	Daniel Burkhoff	8
		<i>Discussion</i>		5
		Physiology and anatomy of the lymphatic system (focus on congenital heart disease)	Sven Dittrich	8
		<i>Discussion</i>		5
		Imaging methods of the lymphatic system	Claus Pieper	8
		<i>Discussion</i>		5
		Decision making in the treatment of lymphatic complications: case examples	Petru Liuba	8
		<i>Discussion</i>		5
		Percutaneous treatment of thoracic lymphatic complications	Deborah Rabinowitz	8
		<i>Discussion</i>		5
		Percutaneous treatment of PLE	Maxim Itkin	8
		<i>Discussion</i>		5
		Surgical treatment of lymphatic complications	Viktor Hraska	8
		<i>Discussion</i>		5
		Recorded case: PLE	Maxim Itkin	10
		Recorded case: PB	Maxim Itkin	10
		<i>Discussion</i>		29

Preliminary program

Exhibition area	16:00 - 16:30	Coffee break		30
Hemodynamics for interventionalists				
Illusion 2+3	16:30 - 18:30	Hemodynamics for interventionalists		120
		Moderators: Gianfranco Butera, Nikolaus Haas		
		Panelists: Juan Pablo Sandoval, David Crossland, William O'Neil		
		Q&A moderator: Salim Jivanji		
		Facilitator: Kuberan Pushparajah		
		Hemodynamics in pulmonary artery hypertension in children	Mazeni Alwi	10
		<i>Discussion</i>		7
		Determining "true" venous pressures in Fontan patients	Sebastien Hascoet	10
		<i>Discussion</i>		7
		Sedation versus general anesthesia: their roles in studying hemodynamics	Regina Bokenkamp	10
		<i>Discussion</i>		7
		How to access hemodynamics in complex ASDs – when and how to use fenestrated ASD devices	Giuseppe Santoro	10
		<i>Discussion</i>		7
		How and when to perform pharmacological tests in patients with aortic coarctation/recoarctation	Matthew Jones	10
		<i>Discussion</i>		7
		PDA and pulmonary hypertension: how to test to predict successful closure	<i>Marhisham Chee Mood</i>	10
		<i>Discussion</i>		7
		MRI-Cath is the best tool to study physiology	Daniel Knight	10
		<i>Discussion</i>		8
LIVE theatre				

Preliminary program

	Congress theatre	11:00-11:45	LIVE theatre		45
			Moderators: Mario Carminati, Massimo Chessa		
			Panelists: Alban-Elouen Baruteau, Johannes Nordmeyer		
			Q&A moderator: Jamil Aboulhosn		
			Live center coordinator: Matthew Daniels		
			Live case transmission from Leeds General Infirmary, Leeds, United Kingdom	Operator: James Bentham	45
Israel structural revolution					
	Congress theatre	13:30 - 14:50	Israel structural revolution		80
			Moderators: Rafael Beyar, Giora Weisz		
			Panelists: William Abraham, Daniel Burkhoff		
			Q&A moderator: Shmuel Banai		
			Facilitator: Azeem Latib		
			Cardiovascular innovation - how Israel turned into start-up nation	Rafael Beyar	8
			<i>Discussion</i>		3
			V-sling - a left ventricular transcatheter repair device for HFrEF	Boaz Manash	5
			<i>Discussion</i>		3
			Filterlex full body protection during TAVR	Giora Weisz	5
			<i>Discussion</i>		3
			Cuspa - a novel device for aortic regurgitation	Yair Feld	5
			<i>Discussion</i>		3
			Clinical experience Bendit's deflectable neuro catheter	Yossi Mazel	5
			<i>Discussion</i>		3
			The V-Lap - remote LA pressure monitoring	Leor Perl	5



Preliminary program

		<i>Discussion</i>		3
		Abdominal ultrafiltration for heart failure	Yair Feld	5
		<i>Discussion</i>		3
		Trisol – tricuspid valve solution	Ran Kornowski	5
		<i>Discussion</i>		3
		Innovalve: central wrapping for TMVR	<i>Boris Orlov</i>	5
		<i>Discussion</i>		8
Exhibition area	13:15 - 13:40	Lunch break		25

LIVE theatre

Congress theatre	13:40-16:00	LIVE theatre		140
		Moderators: Ole De Backer, Apostolos Tzikas		
		Panelists: Juan Granada, Maurice Buchbinder		
		Q&A moderator: Ata Firouzi		
		Live center coordinator: tbc		
		Live transmission from CardioVascular Center Frankfurt CVC, Frankfurt, Germany	Operator: Horst Sievert	30
		Live transmission from MZV Prof. Mathey, Prof. Schofer, Hamburg, Germany	Operator: Joachim Schofer	80
		Live transmission from CardioVascular Center Frankfurt CVC, Frankfurt, Germany	Operator: Horst Sievert	30
Exhibition area	16:00 - 16:30	Coffee break		30

China structural revolution

Preliminary program

	Congress theatre	16:30 - 18:30	China structural revolution		85
			Moderators: Eberhard Grube, Jian'an Wang		
			Panelists:		
			Q&A moderator: <i>Xianbao Liu</i>		
			Facilitator:		
			Opening	Junbo Ge	3
			China revolution in TAVR	Jian'an Wang	7
			<i>Discussion</i>		4
			China revolution in TMVr/TMVR	Junbo Ge	7
			<i>Discussion</i>		4
			China revolution in TTVr/TTVR	Fanglin Lu (virtual)	7
			<i>Discussion</i>		4
			China revolution in TPVR	Mao Chen	7
			<i>Discussion</i>		4
			China revolution in LAAC	Yat-Yin Lam	7
			<i>Discussion</i>		4
			China revolution in HOCM	Li-Wen Liu	7
			<i>Discussion</i>		4
			Roundtable discussion: China structural revolution in next 10 years	Panel discussion	13
			Closing	Junbo Ge	3
Day	Room	Time	Session	Speaker	Min



Friday, June 24

	Main lecture hall - Harmonie	08:30 - 10:30	Congress opening		120
			Moderators: Shakeel Qureshi, Mario Carminati		
			Panelists: Neil Wilson, Eberhard Grube, tbc		
			Q&A moderator: tbc		
			Live case transmission from CardioVascular Center Frankfurt CVC, Frankfurt, Germany	Operator: Horst Sievert	...
	Exhibition area	10:30 - 11:00	Coffee break		30
Focus workshop: Coarctation					
	Main lecture hall - Harmonie	11:00 - 13:15	COARCTATION: Intervention from very low birth weight to 20kg - unwelcome guests?		135
			Moderators: Shakeel Qureshi, Gregor Krings		
			Panelists: Sok-Leng Kang, Thomas Krasemann, Iris Grunwald, Jesus Damsky Barbosa		
			Q&A moderator: Nicholas Hayes		
			Morphology and anatomy in neonates and infants	Andrew Cook	8
			<i>Discussion</i>		7
			When do we need more than an ECHO? Pre-procedural MRI vs CT in infants and small children	Kuberan Pushparajah	8
			<i>Discussion</i>		7
			When to place a stent? When to balloon?	Henri Justino (virtual)	8

Preliminary program

		Discussion		7
		Recorded case: complex post-op coarctation	James Bentham	12
		Discussion		20
		Re-coarctation / arch stenosis after single ventricle arch reconstruction	<i>Roland Gitter</i>	8
		Discussion		7
		Debate:		
		• Few lesions will still require an open procedure 10 years from now	Gregor Krings	8
		• Most lesions will still require an open procedure 10 years from now	Osama Jaber	8
		Discussion		12
		"A stent for life"- dream or reality?	Evan Zahn	8
		Discussion		7
Exhibition area	13:15 - 13:30	Lunch break		15
Main lecture hall - Harmonie	13:30 - 15:40	COARCTATION: Conundrums		130
		Moderators: Gareth Morgan, Gianfranco Butera		
		Panelists: Worakan Promphan, Martin Bocks, Shakeel Qureshi, Andrew Cook		
		Q&A moderator: Michiel Voskuil		
		Live case transmission from Our Lady's Children's Hospital, Dublin, Ireland	Operators: Kevin Walsh and Damien Kenny	40



Preliminary program

		Assessment and implications of cerebral aneurysms in coarctation patients - my approach	Mark Turner, Sok-Leng Kang, Iris Grunwald	15
		Follow-up and management of aortic aneurysms in coarctation patients - My approach	Mark Turner, Sok-Leng Kang, Iris Grunwald	15
		Borderline coarctation – How do I provoke a hemodynamic indication in the cath lab?	Bharat Dalvi, Evan Zahn, Rizwan Rehman	15
		Borderline coarctation - Strategies to prevent stent dislodgement	Bharat Dalvi, Evan Zahn, Rizwan Rehman	15
		Head and neck vessels – When and how to protect?	Marc Gewillig, Shabana Shahanavaz	15
		Fusion imaging and 3DRA - What you need to know?	Gregor Krings, Jenny Zablah	15
Exhibition area	15:40 - 16:10	Coffee break		30
Main lecture hall - Harmonie	16:10 - 18:30	COARCTATION: Intervention in older adults - From bread and butter to the best worst approach?		140
		Moderators: Jamil Aboulhosn, Allison Cabalka		
		Panelists: Sachin Khambadkone, John Thompson, Thomas Krasemann		
		Q&A moderator: Demetris Taliotis		
		Referral, MDT discussion and comorbid considerations for the “elderly” (over 40)	Claudia Montanaro	7
		<i>Discussion</i>		4
		Near atresia (case based)	Jamil Aboulhosn	15
		<i>Discussion</i>		5
		Real atresia (case based)	Peter Ewert	15
		<i>Discussion</i>		5

Preliminary program

		Surgical standby - planning for irredeemable disaster?	Lars Nölke	7
		<i>Discussion</i>		3
		Panel discussion: when to do nothing in adult coarctation cases	Led by Allison Cabalka	14
		Prepare for the unexpected! (case based)	Gareth Morgan	15
		<i>Discussion</i>		5
		Self-expanding stent grafts in coarctation patients – what do we need to know?	Mark Turner	7
		<i>Discussion</i>		3
		Transverse arch stenting in persistent hypertension- worth the stretch?	Gregor Krings	7
		<i>Discussion</i>		3
		Portfolio of covered stents:		
		• Bentley	Elchanan Bruckheimer	3
		• Optimus	Guiti Milani	3
		• CP	Marc Gewillig	3
		• G-Armor	Gareth Morgan	3
		• AndraStent	Ahmet Celebi	3
		<i>Discussion</i>		10
Focus workshop: Heart failure				
Fantasie	11:00 - 12:20	HEART FAILURE: Right heart failure		80
		Moderators: Gry Dahle, Ralph Stephan von Bardeleben		
		Panelists: Marco Metra, Jonathan Byrne, Todd Brinton		
		Q&A moderator: Markus Reinartz		
		Facilitator: Martin Bergmann		

Preliminary program

		Overview of right heart failure physiology and hemodynamics	Gry Dahle	7
		<i>Discussion</i>		3
		Overview of right heart failure imaging	Martin Swaans	7
		<i>Discussion</i>		3
		Medical treatment for pulmonary hypertension	Marco Metra	7
		<i>Discussion</i>		5
		Interatrial shunt for treatment of primary pulmonary hypertension	Martin Bergmann	7
		<i>Discussion</i>		5
		Pulmonary artery denervation	Ori Ben-Yehuda	7
		<i>Discussion</i>		5
		NXT	William Abraham	7
		<i>Discussion</i>		5
		Treatment for WHO Group 1 PH	Daniel Burkhoff	7
		<i>Discussion</i>		5
Fantasie	12:20 - 13:15	HEART FAILURE: Interatrial shunts		55
		Moderators: Andreas Zeiher, Martin Bergmann		
		Panelists: Todd Brinton, Matjaz Bunc, Sachin Khambadkone		
		Q&A moderator: Nikolaus Haas		
		Facilitator: Habib Gamra		
		Physiology and rationale for therapeutic Interatrial shunts	tbc	5
		Corvia primary results and subgroup analyses	<i>Tim Seidler</i>	8
		<i>Discussion</i>		7
		V-Wave: Open label results and update on pivotal study	Ralph Stephan von Bardeleben	5
		<i>Discussion</i>		3
		Occlutech	tbc	5
		<i>Discussion</i>		3
		Alleviant	tbc	5
		<i>Discussion</i>		3



Preliminary program

		NoYa	Xiangqing Kong	5
		Discussion		6
Exhibition area	13:15 - 13:30	Lunch break		15
Fantasie	13:30 - 14:40	HEART FAILURE: Acute decompensated heart failure		70
		Moderators: William Abraham, Daniel Burkhoff		
		Panelists: Avraham Lorber, Gry Dahle		
		Q&A moderator: Andreas Brieke		
		Facilitator: Rishi Puri		
		Overview of ADHF and the pathophysiology of diuretic resistance	tbc	10
		Discussion		8
		Pushers: Second Heart	Leslie Miller (virtual)	6
		Pullers: Precardia	tbc	6
		Discussion		8
		AquaPass	Doron Aronson	5
		WhiteSwell	Michael Jonas	5
		Novel diuretic delivery strategies	tbc	5
		Discussion		17
Fantasie	14:40 - 15:40	HEART FAILURE: Cardiogenic shock		60
		Moderators: William Abraham, Gry Dahle		
		Panelists: Rishi Puri, Doron Aronson		
		Q&A moderator: Jonathan Byrne		

Preliminary program

		Facilitator: Michael Jonas		
		State of the art: Overview of ongoing clinical trials	tbc	9
		<i>Discussion</i>		4
		Latest innovations:		
		• Impella	tbc	5
		<i>Discussion</i>		4
		• IABP	tbc	5
		<i>Discussion</i>		4
		• LivaNova LV, RV and ECMO Support	tbc	5
		<i>Discussion</i>		4
		• PulseCath – iVAC	tbc	5
		<i>Discussion</i>		4
		• ECMO	tbc	5
		<i>Discussion</i>		6
Exhibition area	15:40 - 16:10	Coffee break		30
Fantatsie	16:10 - 17:45	HEART FAILURE: Telemedicine		95
		Moderators: Daniel Burkhoff, Martin Swaans		
		Panelists: Avraham Lorber, Leor Perl, Miroslava Stolicova		
		Q&A moderator: Kolja Sievert		
		Facilitator: Krzysztof Kaczmarek		



Preliminary program

		Current status of Telemonitoring (TIM-HF)	tbc	7
		<i>Discussion</i>		5
		Cardiomems: latest randomized and registry data	<i>Birgit Aßmus</i>	7
		<i>Discussion</i>		5
		Multiparametric monitoring to manage heart failure	Robert Kowal	7
		<i>Discussion</i>		5
		Novel left atrial monitoring device		
		<ul style="list-style-type: none"> Results of VECTOR-HF I 	Domenico D'Amario	6
		<ul style="list-style-type: none"> Physician directed patient self-management 	William Abraham	6
		<i>Discussion</i>		5
		Changes in Voice Pattern for monitoring volume status	William Abraham	7
		<i>Discussion</i>		5
		How to move the field forward – barriers to the adoption of telemedical therapies	Friedrich Koehler	7
		<i>Discussion</i>		11
Fantasie	17:45 - 18:30	HEART FAILURE: Neuromodulation		45
		Moderators: Howard Levin, Daniel Burkhoff		
		Panelists: Krzysztof Kaczmarek, Matjaz Bunc, Markus Reinartz, James Januzzi (virtual)		
		Q&A moderator: Domenico D'Amario		
		Facilitator: Philipp Lurz		
		Overview of neuromodulation for heart failure: Neurocardiology	<i>Kalyanam Shivkumar</i>	6
		<i>Discussion</i>		5



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		Mechanical barostimulation	tbc	6
		<i>Discussion</i>		5
		Vagal nerve simulation -- ANTHEM	tbc	6
		<i>Discussion</i>		5
		Aortic arch stimulation -- Enopace	Felix Mahfoud (virtual)	6
		<i>Discussion</i>		6
Focus workshop: TAVI				
Spektrum	11:00 - 13:15	TAVI: Aortic regurgitation – the next frontier		135
		Moderators: Eberhard Grube, Nicolas Van Mieghem		
		Panelists: Tsuyoshi Kaneko, Rafael Beyar, Richard Jabbour		
		Q&A moderator: Hasan Jilaihawi		
		Facilitator: David Wood		
		Intro	Moderators	5
		Live case transmission from University Hospital Mainz, Mainz, Germany	Operator: Hendrik Treede	45
		Pure aortic regurgitation - The clinical spectrum	Nikos Werner	8
		<i>Discussion</i>		12
		Aortic Regurgitation: Anchoring mechanisms and clinical analysis	Philip Blanke	8
		<i>Discussion</i>		12
		Device platforms & clinical experience for TAVI in pure AR	Rajendra Makkar	8
		<i>Discussion</i>		12
		Initial in-human experience with the conveyor cardiovascular system	William O'Neill	8
		<i>Discussion</i>		12
		Final remarks	Moderators	5

Preliminary program

	Exhibition area	13:15 - 13:30	Lunch break		15
	Spektrum	13:30 - 15:40	TAVI: Paradigm shift in timing of aortic stenosis treatment		130
			Moderators: Nicolas Van Mieghem, Philipp Blanke		
			Panelists: Nalan Schnelle, Ravinder Singh Rao, Stephan Fichtlscherer		
			Q&A moderator: Kent Chak-yu So		
			Facilitator: Ralph Stephan von Bardeleben		
			Intro	Moderators	6
			Live case transmission from University Hospital Mainz, Mainz, Germany: Early aortic stenosis treatment	Operator: Hendrik Treede	45
			Why wait for symptoms in severe aortic stenosis?	Jeroen Bax (virtual)	10
			<i>Discussion</i>		8
			Anticipating EARLY TAVR Trial results – latest updates	Martin Leon	10
			<i>Discussion</i>		8
			Ongoing trials in moderate aortic stenosis	Stefan Bertog	10
			<i>Discussion</i>		8
			Interactive case of TAVI in moderate aortic stenosis including PV loop assessment	Daniel Burkhoff	10
			<i>Discussion</i>		9
			Final remarks	Moderators	6

Preliminary program

Exhibition area	15:40 - 16:10	Coffee break		30
Spektrum	16:10 - 17:35	TAVI: Shared decision making in aortic stenosis anno 2022		85
		Moderators: Joachim Schofer, Jörg Hausleiter		
		Panelists: Neil Gheewala, Thomas Walther, Torsten Doenst		
		Q&A moderator: Jung-Min Ahn		
		Facilitator: Thomas Caranasos		
		Intro	Moderators	3
		Debate - Current guidelines are too liberal for TAVI		
		• Yes	Hendrik Treede	7
		• No	Michael Borger	7
		<i>Panel discussion</i>		12
		Recorded case: streamlined TAVI	Nicolas Van Mieghem	10
		<i>Discussion</i>		15
		Next TAVI vs SAVR trials	Martin Leon	8
		<i>Discussion</i>		6
		Antiaggregation/Anticoagulation after TAVI	Andreas Zeiher	8
		<i>Discussion</i>		6
		Conclusion	Moderators	3
Spektrum	17:35 - 18:30	TAVI: Embolic protection		55
		Moderators: Giora Weisz, Rajendra Makkar		
		Panelists: Adam Greenbaum, Sergio Berti		
		Q&A moderator: Nikos Werner		

Preliminary program

		Facilitator: Stefan Bertog		
		Debate:		
		<ul style="list-style-type: none"> The unmet need for embolic protection during TAVR 	Nicolas Van Mieghem	7
		<ul style="list-style-type: none"> Our patients are doing fine. Focus on the TAVI 	Eberhard Grube	7
		<i>Discussion</i>		4
		devices parade: available and upcoming devices		
		<ul style="list-style-type: none"> Sentinel 	<i>Rishi Puri</i>	5
		<ul style="list-style-type: none"> TriGUARD 	Michiel Voskuil	5
		<ul style="list-style-type: none"> Flower 	Elvin Kedhi	5
		<ul style="list-style-type: none"> Emboline 	Issam Moussa	5
		<ul style="list-style-type: none"> Pretembo 	<i>Rishi Puri</i>	5
		<i>Discussion</i>		12
Interventions and support in the critically ill child				
Illusion 2+3	11:00 - 13:15	Interventions and support in the critically ill child		135
		Moderators: Alain Fraise, Gareth Morgan		
		Panelists: Malaika Mendonca, Alban-Elouen Baruteau, Robert Sabiniewicz		
		Q&A moderator: Demetris Taliotis		
		Facilitator: Jason Anderson		
		Panel discussion: Percutaneous ECMO - anonymous but a growing group	Vivian Dimas, Daniel McLennan, Jenny Zablah, Malaika Mendonca, Gareth Morgan	12



Preliminary program

		Defining support- ECMO, LVAD, RVAD, CPB, VV, VA- OMG?????	Simone Speggorin	8
		<i>Discussion</i>		5
		Evolution of percutaneous ECMO in children	Gareth Morgan	8
		<i>Discussion</i>		5
		Interventions on ECMO - "Relax... they are on pump"	Daniel McLennan	8
		<i>Discussion</i>		5
		Novel ECMO support in Covid - opportunities through adversity	Jenny Zablah	8
		<i>Discussion</i>		5
		Left atrial decompression on ECMO		
		• Percutaneous LA vent	Alan Nugent	8
		<i>Discussion</i>		5
		Septoplasty and stent placement	David Crossland	8
		<i>Discussion</i>		5
		PROTECK Duo and Impella in children	Vivian Dimas	8
		<i>Discussion</i>		5
		EXIT strategies with an arterial cannula		
		• Surgical repair after Seldinger cut-down	Lars Nolke	8
		<i>Discussion</i>		5
		• Preclose, Manta or Pressure	Gareth Morgan	8
		<i>Discussion</i>		11
Exhibition area	13:15 - 13:30	Lunch break		15
Focus workshop: PDA closure				



Preliminary program

	Illusion 2+3	13:30 - 15:40	PDA CLOSURE: Premature infants		130
			Moderators: Alain Fraisse, Evan Zahn		
			Panelists: Jaana Pihkala, Robert Sabiniewicz, Sudipta Bhattacharya		
			Q&A moderator: Petru Liuba		
			Facilitator: Jae Young Choi		
			What is hemodynamically significant PDA in premature infants?	Peter Zartner	8
			<i>Discussion</i>		6
			Pharmacologic treatment of PDA in premature infants	Kothandam Sivakumar	8
			<i>Discussion</i>		6
			Treatment algorithm	Shyam Sathanandam (virtual)	8
			<i>Discussion</i>		6
			Devices & equipment	tbc	8
			<i>Discussion</i>		6
			Step by step	Jieh-neng Wang	8
			<i>Discussion</i>		6
			PDA closure in neonatal intensive care unit	Evan Zahn	8
			<i>Discussion</i>		7
			Less than 1 kg		
			• Bedside surgical closure	<i>Hakan Akintuerk</i>	5
			• Device closure	Robert Sabiniewicz	5
			• Medical treatment	tbc	5
			<i>Discussion</i>		15
			3-year clinical outcomes for the ADO II AS (Piccolo) IDE/CAP trial	Evan Zahn	8
			<i>Discussion</i>		7
	Exhibition area	15:40 - 16:10	Coffee break		30

Preliminary program

	Illusion 2+3	16:10 - 18:30	PDA CLOSURE: Current issues		140
			Moderators: Mario Carminati, Worakan Promphan		
			Panelists: Bagrat Alekryan, Gi Beom Kim, Sanjiban Ghosh		
			Q&A moderator: Behzad Elizadeth		
			Facilitator: Juan Pablo Sandoval		
			Recorded case: tbc	Masood Sadiq	10
			<i>Discussion</i>		15
			Variations in morphology in different age groups	Mario Carminati	8
			<i>Discussion</i>		4
			Matching devices to the morphology: case examples	Supaporn Roymanee	8
			<i>Discussion</i>		4
			PDA closure in FT infants and small children: indications and technique	Maiy El Sayed	8
			<i>Discussion</i>		5
			Closure of large PDA in adults	Ingo Daehnert	8
			<i>Discussion</i>		5
			Closure of PDA with pulmonary hypertension	Kothandam Sivakumar	8
			<i>Discussion</i>		5
			How to avoid device related aortic or PA obstruction	Matthew Gillespie	8
			<i>Discussion</i>		5
			Staged closure of large hypertensive PDA – does the treat and repair strategy work?	Dietmar Schranz	8
			<i>Discussions</i>		5
			PDA device embolization – how to deal with?	Jae Young Choi	8
			<i>Discussions</i>		5
			Hemolysis and/or residual shunt – how to deal with?	Teiji Akagi	8
			<i>Discussions</i>		5



Self-expanding pulmonary valves (SEPV)

Congress theatre	7:00 - 8:30	Self-expanding pulmonary valves (SEPV)		90
		Moderators: Shakeel Qureshi, Jamil Aboulhosn		
		Panelists: Ziyad Hijazi, Supaporn Roymanee		
		Q&A moderator: Kothandam Sivakumar		
		Facilitator: Mario Carminati		
		The slope of enlightenment for SEPV	tbc	8
		<i>Discussion</i>		4
		Hard cases make bad law? Arrhythmia's and SEPV	Gareth Morgan	8
		<i>Discussion</i>		4
		Patient substrate or device design in arrhythmogenesis	Worakan Promphan	8
		<i>Discussion</i>		4
		Challenges in the deployment of Harmony, Alterra, Venus P-Valve and Pulsta	Evan Zahn	8
		<i>Discussion</i>		4
		Early valve dysfunction - equipment, decision making and operator issues	John Thomson	8
		<i>Discussion</i>		4
		There is a problem with the devices - they need to be redesigned		
		• Yes	Marc Gewillig	8
		• No	Allison Cabalka	8
		<i>Discussion</i>		14

LIVE theatre

Preliminary program

Congress theatre	11:00 - 13:15	LIVE theatre		135
		Moderators: Randal Lee, Vaikom Mahadevan		
		Panelists: Philippe Garot, Philip MacCarthy		
		Q&A moderator: Marcus Sandri		
		Live center coordinator: tbc		
		Live case transmission from National Center for Cardiovascular Diseases, Beijing, China	Operator: Xiangbin Pan	45
		Live case transmission from Brighton and Sussex University Hospitals NHS Trust, Brighton, United Kingdom	Operator: David Hildick-Smith	45
		Live case transmission from CardioVascular Center Frankfurt CVC, Frankfurt, Germany	Operator: Horst Sievert	45
Exhibition area	13:15 - 13:30	Lunch boxes		15
From newborn to adult: coronary fistulas				
Congress theatre	13:30 – 15:40	From newborn to adult: coronary fistulas		100
		Moderators: Mario Carminati, Ziyad Hijazi		
		Panelists: Sudeep Verma, Bagrat Alekryan		
		Q&A moderator: Shabana Shahavanaz		
		Facilitator: Matthew Daniels		
		Advanced imaging (MRI, CT, 3D modeling) for planning closure	Phuoc Duong	8
		<i>Discussion</i>		4
		Best method for closure in children	Tin Do Nguyen	8
		<i>Discussion</i>		4



Preliminary program

		Indications and results in adults	Allison Cabalka	8
		<i>Discussion</i>		4
		How to deal with large aneurysms	John Thomson	8
		<i>Discussion</i>		4
		Early and late complications	Bharat Dalvi	8
		<i>Discussion</i>		5
		Coronary artery fistula – long term management	Srinath Gowda	8
		<i>Discussion</i>		5
		My most challenging successful case	Ingo Daehnert	8
		<i>Discussion</i>		5
		A case I should not have done	Sachin Khambatkone	8
		<i>Discussion</i>		5
Exhibition area	15:405 - 16:10	Coffee break		30
LIVE theatre				
Congress theatre	16:10 - 18:30	LIVE theatre		140
		Moderators: Maurice Buchbinder, Ole De Backer		
		Panelists: Ulf Landmesser, Suneet Mittal		
		Q&A moderator: Jan Kovac		
		Live center coordinator: Jacqueline Saw		
		Live case transmission from Brighton and Sussex University Hospitals NHS Trust, Brighton, United Kingdom	Operator: David Hildick-Smith	50
		Live case transmission from Hospital Privado del Sur, Bahia Blanka, Argentina	Operator: Alejandro Alvarez Lorio	50

Preliminary program

			Live case transmission from CardioVascular Center Frankfurt CVC, Frankfurt, Germany	Operator: Horst Sievert	50
Day	Room	Time	Session	Speaker	Min

Saturday, June 25

Focus workshop: VSD closure

Main lecture hall - Harmonie	08:00 - 10:05	VSD CLOSURE: All about perimembranous VSD closure: device or divorce			125
		Moderators: Worakan Promphan, Gregor Krings			
		Panelists: Amal El-Sisi, Won-Keun Kim, Prasanth Patil, Masood Sadiq			
		Q&A moderator: Jesus Damsky Barbosa			
		TTE and TOE for case selection	Gregor Krings		8
		<i>Discussion</i>			5
		Which defect I won't touch? Why?	John Thomson		8
		<i>Discussion</i>			5
		Crossing PmVSD: from 3D printed model to real practice	Srinivas Lakshmivenkateshiah		8
		<i>Discussion</i>			5
		Which device for which morphology?			
		• self-expanding devices	Mario Carminati		8
		• coil devices	Ender Ödemiş		8
		<i>Discussion</i>			12
		How small is too small for PmVSD closure?	Behzad Alizadeh		8
		<i>Discussion</i>			5

Preliminary program

		Old problems - New solutions: complete heart block, aortic valve, tricuspid valve	Tin Do Nguyen	8
		<i>Discussion</i>		5
		My worst day of PmVSD closure: what should I do if I could turn back the clock?	Mazeni Alwi	8
		<i>Discussion</i>		5
		Round table discussion: is it time to consider PmVSD device closure a standard procedure?	Panel discussion	19
Exhibition area	10:05 - 10:30	Coffee break		25
Main lecture hall - Harmonie	10:30 - 12:45	VSD CLOSURE: Doubly-committed (DCSA) VSD: fact or fiction or divorce		135
		Moderators: Tin Do Nguyen, John Thomson		
		Panelists: Martin Bocks, Regina Bokenkamp, Ingo Daehnert, Nageswara Rao Koneti		
		Q&A moderator: Srinivas Lakshmivenkateshiah		
		Live case transmission from Our Lady's Children's Hospital, Dublin, Ireland	Operator: Kevin Walsh and Damien Kenny	40
		Morphology of DCSAVSD	Adam Kolesnik	8
		<i>Discussion</i>		5
		How does the surgeon close the DCSAVSD?	Viktor Hraska	8
		<i>Discussion</i>		5
		How does the interventionist close the DCSAVSD?	Supaporn Roymanee	8
		<i>Discussion</i>		5
		Long term fate of aortic valve: any available evidence?	Kritvikrom Durongpisitkul	8
		<i>Discussion</i>		5

Preliminary program

		DCSAVSD, the one you would not close	Petru Liuba	8
		<i>Discussion</i>		5
		Retrograde and antegrade approach for DCSAVSD closure: which one is better?	Worakan Promphan	8
		<i>Discussion</i>		5
		My worst in DCSA closure	Tin Do Nguyen	8
		<i>Discussion</i>		9
Exhibition area	12:45 - 13:00	Lunch break		15
Main lecture hall - Harmonie	13:00 - 15:00	VSD CLOSURE: Muscular, PI, and other VSDs		120
		Moderators: Allison Cabalka, Kritvikrom Durongpisitkul		
		Panelists: Sherien Abdelsalam Mohamed, Supaporn Roymanee, Gianfranco Butera, Kothandam Sivakumar		
		Q&A moderator: Mirella Molenschot		
		Vascular access site for muscular VSD closure	Neeraj Awasthy	8
		<i>Discussion</i>		6
		Virtual reality for VSD closure: Is it the real option?	Elchanan Bruckheimer	8
		<i>Discussion</i>		6
		Apical muscular VSD: how to close?	Nikolaus Haas	8
		<i>Discussion</i>		6
		Hybrid approach for MVSD in small children	Zahid Amin	8
		<i>Discussion</i>		6
		Post infarction VSD: technique and timing for closure	Allison Cabalka	8
		<i>Discussion</i>		6
		Post-surgical residual VSD: tips and tricks	Mann Chandavimol	8



Preliminary program

		Discussion		6
		VSD closure without fluoroscopy: how does this technique become general practice?	Radityo Prakoso	8
		Discussion		6
		Challenging VSD closures	Martin Schneider	12
		Discussion		10
LIVE ONLY				
Main lecture hall - Harmonie	15:00 - 16:00	LIVE ONLY		60
		Moderators: Shakeel Qureshi, Martin Leon		
		Panelists: John Thomson, Nicholas Van Mieghem, Eberhard Grube, Martin Swaans		
		Q&A moderator: Dee Dee Wang		
		Live center coordinator: Stefan Bertog		
		Live case transmission from CardioVascular Center Frankfurt CVC, Frankfurt, Germany	Operator: Horst Sievert	30
		Live case transmission from Los Robles Regional Medical Center, Thousand Oaks, USA	Operator: Saibal Kar	30
Focus workshop: Paravalvar leaks				
Spektrum	08:00 - 10:05	PARAVALVAR LEAKS: Multimodality imaging		125
		Moderators: Bushra Rana, Dee Dee Wang		
		Panelists: Martin Swaans, Burkhard Mackensen, Leonard Shapiro		
		Q&A moderator: Rafael Hirsch		
		Facilitator: Matthew Price		

Preliminary program

		Live case transmission from Hammersmith Hospital, London, United Kingdom	Operator: Iqbal Malik	40
		How to treat paravalvar leaks: close or not, always transcatheter?	Nilesh Sutaria	7
		<i>Discussion</i>		5
		Pre-procedure planning step by step: role of CT	tbc	7
		<i>Discussion</i>		5
		Patient specific modeling for paravalvar leak closure (3D printing and digital modeling)	Stephen Little	7
		<i>Discussion</i>		5
		TOE assessment before and during procedure	Saleha Kabir	7
		<i>Discussion</i>		5
		Methods for device sizing (TOE, CT, fluoroscopy)	Bushra Rana	7
		<i>Discussion</i>		5
		Peri-procedure guidance: fusion imaging	Omar Khalique	7
		<i>Discussion</i>		5
		When and how to follow-up	Eustaquio Onorato	7
		<i>Discussion</i>		6
Exhibition area	10:05 - 10:30	Coffee break		25
Spektrum	10:30 - 12:45	PARAVALVAR LEAKS: Procedural tips and tricks		135
		Moderators: Nicolas Van Mieghem, Martin Leon		
		Panelists: Christian Frerker, Chad Kliger, Jian'an Wang		
		Q&A moderator: Andreas Brieke		
		Facilitator: Felix Kreidel		



Preliminary program

		Live case transmission from CardioVascular Center Frankfurt CVC, Frankfurt, Germany	Operator: Horst Sievert	45
		Planning the approach:		
		• Mitral paravalvar leaks	Kolja Sievert	8
		• Aortic paravalvar leaks	David Northridge	8
		• Right heart paravalvar leaks	Alain Fraisse	8
		<i>Discussion</i>		18
		Approach with multiple devices	Leonard Shapiro	8
		<i>Discussion</i>		7
		Devices:		
		• Why I prefer Occlutech	Hidehiko Hara	6
		• Why I prefer AVP	David-Hildick Smith	6
		• When I might use a VSD, ASD, PDA device	Mohamad Alkhouli	6
		<i>Discussion</i>		15
Exhibition area	12:45 - 13:00	Lunch break		15
Spektrum	13:00 - 15:00	PARAVALVAR LEAKS: Devices, complications & esoteric uses		120
		Moderators: Eberhard Grube, Leonard Shapiro		
		Panelists: Bushra Rana, Andrew Cook, Alok Sharma		
		Q&A moderator: Hidehiko Hara		
		Facilitator: Ignacio Cruz Gonzalez		
		Live case transmission from Our Lady's Children's Hospital, Dublin, Ireland	Operators: Kevin Walsh and Damien Kenny	40

Preliminary program

		Potential complications during a case of:		
		• Valve migration	David Northridge	8
		• Device embolization	Niki Walker	8
		• Haemolysis	Grzegorz Smolka	8
		• Non-fenestrated device	Sidakpal S. Paniach	8
		<i>Discussion</i>		20
		Closure of unusual paravalvar leaks		
		• Leaflet perforation	Adam Greenbaum	8
		• Patch dehiscence	tbc	8
		<i>Discussion</i>		12
Neil Wilson's challenging cases				
Congress theatre	07:00 - 08:00	Neil Wilson's challenging cases		60
		Moderator: Neil Wilson		
		10
		10
		10
		<i>Discussion</i>		30
Sinus venosus ASD closure				
Congress theatre	8:00 - 10:05	Sinus venosus ASD closure		125
		Moderators: Eric Rosenthal, Gareth Morgan		
		Panelists: Radwa Bedair, Matthew Gillespie		

Preliminary program

		Q&A moderator: Vivian Dimas		
		Facilitator: Neil Wilson		
		Live case transmission from CardioVascular Center Frankfurt CVC, Frankfurt, Germany	Operator: Horst Sievert	30
		Pathology of SVASD – reinterpreted in era of stent correction	Matthias Sigler	7
		Imaging of SVASD reinterpreted in era of stent correction	Phuoc Duong	7
		TOE as adjunct to stent correction	Saleha Kabir	7
		<i>Discussion</i>		15
		Rapid fire SVASD stenting		
		<ul style="list-style-type: none"> • I keep it simple 	Matthew Jones	4
		<ul style="list-style-type: none"> • I like a sandwich 	Gianfranco Butera	4
		<ul style="list-style-type: none"> • Mine is like a yoyo 	Ziyad Hijazi	4
		<ul style="list-style-type: none"> • Mine go up by themselves 	Muthukumaran Chinnasamy Sivaprakasam	4
		<ul style="list-style-type: none"> • I like a long one 	Sebastien Hascoet	4
		<ul style="list-style-type: none"> • I stitch mine up 	Jamil Aboulhosn	4
		<ul style="list-style-type: none"> • Age is in the mind 	Kothandam Sivakumar	4
		<ul style="list-style-type: none"> • Mine is glamorous 	Gareth Morgan	4
		<ul style="list-style-type: none"> • I sometimes make a meal of it <ul style="list-style-type: none"> - A four course meal - A one pot meal 	Eric Rosenthal	6
		<i>Discussion</i>		26
Exhibition area	10:05 - 10:30	Coffee break		25



CASPIAN@CSI – CASPIAN challenging cases

Congress theatre	10:30 - 12:45	CASPIAN@CSI – CASPIAN challenging cases		120
		Moderators: Behzad Alizadeh, Shakeel Qureshi		
		Panelists: Mario Carminati, Omar Galal		
		Q&A moderator: Kothandam Sivakumar		
		Facilitator: Nikolaus Haas		
		Introduction	Behzad Alizadeh, Shakeel Qureshi	3
		LPA rescue, MAPCA occlusion, post-surgical residual VSD closure. The story of a patient with TOF_PA	Behzad Alizadeh	7
		<i>Discussion</i>		7
		Placement of pulmonary valve in right pulmonary artery in a patient with absent LPA and large RVOT	Zahid Amin	7
		<i>Discussion</i>		7
		Bilateral duct stenting in a neonate with single ventricle physiology, nonconfluent PA branches and bilateral ductus arteriosus	Keyhan Sayadpour	7
		<i>Discussion</i>		7
		PPVI, balloon interrogation matters for valve selection	Worakan Promphan	7
		<i>Discussion</i>		7
		Successful stenting in a patient with interrupted aortic arch	Mahmoud Shabestari	7
		<i>Discussion</i>		7
		Neonatal Fallots: RVOT or PDA stent?	Mazeni Alwi	7
		<i>Discussion</i>		7
		Complicated coarctation interventions	Ata Firouzi	7
		<i>Discussion</i>		7
		Challenging VSD closure when the membranous defect is like a tunnel	Hojjat Mortezaian	7

Preliminary program

		Discussion		7
Exhibition area	12:45 - 13:00	Lunch break		15
LIVE theatre				
Congress theatre	13:00 - 15:00	LIVE theatre		120
		Moderators: Stefan Bertog, Matthew Price		
		Panelists: Hasan Jilaihawi, Torsten Doenst		
		Q&A moderator: Achille Gaspardone		
		Live center coordinator: tbc		
		Live case transmissions from Los Robles Regional Medical Center, Thousand Oaks, USA	Operator: Saibal Kar	40
		Live case transmissions from Hammersmith Hospital, London, United Kingdom	Operator: Iqbal Malik	40
		Live case transmissions from CardioVascular Center Frankfurt CVC, Frankfurt, Germany	Operator: Horst Sievert	40