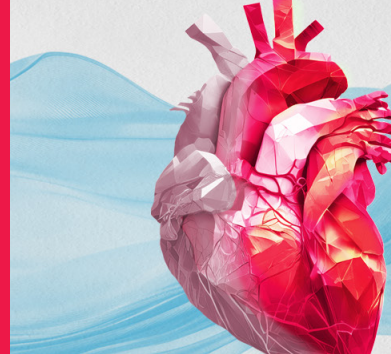


WORKSHOP PROGRAMME



XXIX Warsaw Course on Cardiovascular Interventions



April 9-10, 2025 | Airport Okęcie Hotel, Warsaw

Wednesday, 9th April, 2025

GALAXY 1

• **9:00-10:15 CAD intravascular imaging race.**

Session organized in cooperation with EAPCI Young Committee.

Session in English

Prowadzenie: P. Gąsior (Katowice), F. Rubino (Verona)

Panel: M. Jaguszewski (Gdańsk), W. Wańha (Katowice), P. Kleczyński (Kraków)

• 9:00-9:12 **Case 1 + quiz questions.** Miłosz Jaguszewski (Gdańsk)

• 9:12-9:24 **Case 2 + quiz questions.** Wojciech Wańha (Katowice)

• **9:24-10:00 LIVE CASE – PCI with IVUS/OCT guidance**

Operators: P. Modzelewski (Warszawa), Sylwia Iwańczyk (Poznań)

IVUS/OCT driver: T. Pawłowski (Warszawa)

• 10:00-10:10 **Take-home message.** Paweł Gąsior (Katowice)

• 10:10-10:12 **Choice of the Session Winners: Panel**

• 10:12-10:15 **Final comments and advices.** Paweł Gąsior (Katowice), Francesca Rubino (Verona)

Zespół 1: Rafał Wolny, Karolina Konsek

Zespół 2: Artur Pawlik, Łukasz Gabryel

GALAXY 2

• **9:00-10:15 Innovations in cardiovascular interventions: state-of the art 2025.**

Session under auspices of Club 30 of the PCS.

Session in English

Chairman: K. Bryniarski (Kraków), M. Tomaniak (Warszawa)

Panel: A. Janas (Tychy), S. Darocha (Otwock), R. Wolny (Anin)

• 9:00-9:10 **Interventional therapies for pulmonary embolism.**

S. Sławek-Szmyt (Poznań)

• 9:10-9:20 **AI-enhanced intravascular imaging guided PCI.**

K. Stępień (Kraków)

• 9:20-9:30 **Calcium modification - lithotripsy, atherectomy or laser?**

P. Gąsior (Katowice)

• 9:30-9:40 **Refractory angina caused by microvascular dysfunction**

- **promise of coronary sinus reducer.** M. Tomaniak (Warszawa)

• 9:40-9:50 **Mechanical circulatory support for complex interventions**

and cardiogenic shock. M. Sokolski (Wrocław)

• 9:50-10:00 **Interventional approaches for renal denervation.**

A. Janas (Tychy)

• 10:00-10:15 **Discussion**

GALAXY 3

• **8:45-10:15 My most demanding case in 2024.**

Session under the patronage of the e-journal Interventional Cardiology Academy in cooperation with Club 30 of the PCS.

Session in English

Chairmen: Arkadiusz Pietrasik (Warszawa), Błażej Michalski (Łódź)

Panel: Maciej Wybraniec (Katowice), Piotr Buszman (Kraków), Mariusz Kowalewski (Warszawa)

• 8:45-8:52 **Nirs-IVUS guided PCI.** Tomasz Roleder (Wrocław)

• 8:52-8:55 **Discussion**

• 8:55-9:02 **CTO PCI - Hydrodynamic Contrast Recanalization.**

Jakub Drozd (Lublin)

• 9:02-9:05 **Discussion**

• 9:05-9:12 **PCI of calcified LAD in a patient with low EF, supported by an Impella MCS via subclavian artery access.**

Maciej Karwowski (Wejherowo)

• 9:12-9:15 **Discussion**

• 9:15-9:22 **Mechanical thrombectomy and thrombolysis in a patient with STEMI and cardiogenic shock requiring MCS support.**

Piotr Szolc (Kraków)

• 9:22-9:25 **Discussion**

• 9:25-9:32 **Acute left main occlusion during TAVI: the role of cardiopulmonary bypass.** Łukasz Lewicki (Wejherowo)

• 9:32-9:35 **Discussion**

• 9:35-9:42 **Demanding aorto-femoral access for TAVI.**

Bartosz Rymuza (Warszawa)

• 9:42-9:45 **Discussion**

• 9:45-10:15 **Voting and announcing the results of the competition for the best clinical case presented.**

10:25-11:35 OPENING CEREMONY OF THE 29th WARSAW COURSE ON CARDIOVASCULAR INTERVENTIONS

Chair: Robert J. Gil, WCCI Director, Adam Witkowski, WCCI Director & Directors of the: NIK-PIB & PIM MSWiA

ADDRESSES:

- 10:25-10:28 Adam Witkowski, WCCI Co-Director
- 10:28-10:31 Robert J. Gil, President of the Polish Cardiac Society (PCS)
- 10:31-10:36 Alaide Chieffo, Chair of EAPCI
- 10:36-10:39 Michał Hawranek, Chairman of Association on Cardiovascular Interventions of the PCS
- 10:39-10:52 ANDREAS 2024

PRESENTATIONS:

- 10:52-11:07 Gary Mintz, Keynote WCCI 2025 Lecture: **Functional and Intracoronary visualization – milestones of Interventional Cardiology**
- 11:07-11:22 Franz Weidinger, past president of the ESC, Keynote WCCI 2025 Lecture: **Recent evidence in coronary artery disease and how they impact our practice**
- 11:22-11:34 Grzegorz L. Kaluza, Senior Director of Research CRF Skirball Center for Innovation: **Progress in Device-Based Diagnosis and Treatment of Heart Failure – Insights from Transcatheter Heart Failure Therapeutics 2025**

GALAXY 1

- **11:45-12:45 Physiology in the cathlab – what we should know in 2025.**

Session of the AINS PTK&WCCI.

Chair: Michał Hawranek (Zabrze), Zenon Huczek (Warszawa), Marek Grygier (Poznań)

Panel: Krzysztof Milewski (Bielsko-Biała), Grzegorz Smolka (Katowice), Mariusz Tomaniak (Warszawa), Wacław Kochman (Warszawa)

- 11:45-11:57 **The role of physiology in obstructive coronary artery disease.** Michał Hawranek (Zabrze)
- **Pro and cons for available methods based on clinical cases**
- 11:57-12:09 **Hyperemic indices.** Maksymilian Opolski (Warszawa)
- 12:09-12:21 **Non-hyperemic indices.** Marta Kałużna-Oleksy (Poznań)
- 12:21-12:33 **Angio-based.** Mariusz Tomaniak (Warszawa)
- **Discussion:** (15 min)
- 12:33-12:45 **The role of physiology in non-obstructive coronary artery disease.** Paweł Kleczyński (Kraków)

GALAXY 2

- **11.45-12.45 Pulmonary embolism as a cause of heart failure.**

Session of the ANS & Working Group on Pulmonary Circulation PTK.

Chair: Agnieszka Pawlak (Warszawa), Ewa Lewicka (Gdańsk)

Panel: Jarosław Zalewski (Kraków), Marcin Kurzyna (Otwock), Aleksander Araszkievicz (Poznań)

- 11:45-12:00 **Pulmonary embolism and acute right ventricular failure - can we reverse adverse outcome with interventional treatment?** Marcin Kurzyna
- 12:00-12:15 **Pulmonary Embolism Response Teams and National Program for the Treatment of Cardiogenic Shock - how to link it together?** Aleksander Araszkievicz
- 12:15-12:30 **Chronic thromboembolic pulmonary hypertension - a cause of persistent right ventricular failure that can be effectively treated.** Szymon Darocha
- 12:30-12:45 **Panel discussion**

GALAXY 3

- **11:45-12:45 WARCHIP 25 – session 1:**

How to limit the consequences of CHIP procedures? Contrast medium overload and X-ray overdose.

Chair: Robert J. Gil (Warszawa), Arkadiusz Pietrasik (Warszawa)

Panel: Dobrin Vassilev (Ruse), Adam Kern (Olsztyn), Janusz Kochman (Warszawa), Paweł Gąsior (Katowice)

- 11:45-11:57 **CHIP procedures – scope of the problem for patients & interventionalists.** Alaide Chieffo (Milan)
- 11:57-12:09 **Modern, passive x-ray solutions to protect patients & operators.** Krzysztof Milewski (Bielsko-Biała)
- 12:09-12:21 **Simple but underused technique to limit contrast use – IVUS, please!** Jacek Legutko (Kraków)
- 12:21-12:33 **X-ray overdose – what to do after?** Tomasz Pawłowski (Warszawa)
- 12:33-12:45 **Discussion**

GALAXY 1

- 12:45-13:45 **Everything you should know beyond regular angiography...**
Session supported by the unrestricted educational grant by Philips.
Chairmen: Robert J. Gil, Jacek Legutko
- 1. **Beyond Horizons – How can ELCA change our daily Cathlab practice?** Piotr Waciński (12 min)
- 2. **The choice is yours – IVUS for stent optimisation.**
Gary Mintz (12 min)
- 3. **The choice is yours – FFR/iFR for stent optimisation.**
Jacek Legutko (12 min)
- 4. **Live in a box case – Complex PCI with ELCA.**
Tomasz Pawłowski, Paweł Kleczyński (10 min)
- 5. **Discussion** (12 min)
- 6. **Wrap-up.** Robert J. Gil

GALAXY 2

- 12:45-13:45 **SAdvancing PCI: how could we further improve clinical outcomes vs standard of care?**
Session supported by the unrestricted educational grant by Elixir Medical Corporation.
Chairmen: Michał Hawranek, Zenon Huczek
Faculty: Valeria Paradies, Maciej Lesiak, Janusz Kochman, Piotr Wańczura
- 1. **Opening.** Michał Hawranek & Zenon Huczek (2 min)
- 2. **Restoring Vessel Function and Improving Long-term PCI Outcomes with Bioadaptor.** Michał Hawranek (15 min)
- 3. **Discussion and questions.** Michał Hawranek (10 min)
- 4. **Hertz Contact Stress IVL as a novel approach in calcium modification.** Valeria Paradies (10 min) - online
- 5. **Discussion and questions.** Michał Hawranek (10 min)
- 6. **Take-home message.** Michał Hawranek & Zenon Huczek (3 min)

DOUGLAS

- 11.45-12.45 **Debate supported by the unrestricted educational grant by Cordis Poland only for invited guests)**
Session in Polish
 - **Titel: Drug coated ballons (DCBs) – do we know all we need for daily practical usage?**
Chairman: Robert J. Gil (Warsaw), Jacek Piegza (Zabrze)
- Topics to be discussed:**
- **Mechanisms of lumen enlargement after POBA, technologies using for DCB, evidence based indications: ISR, small or big de novo lesions?, results of the newest clinical registers and trials**
 - **Aims of the debate: to built recommendations for the 2nd generation DCB**

13:45-13:55 COFFEE BREAK

- 13:55-14:55 **Session organized by DCB Academy and the working group “Modern Technologies of Drug-Eluting Stents and Drug-Coated Balloons” of the Association of Cardiovascular Interventions of the Polish Cardiac Society.**
Faculty: Bernardo Cortese (Cleveland), Sylwia Iwańczyk (Poznań), Wojciech Wańha (Katowice), Filippo Luca Gurgoglione (Parma), Jasim Hasan (Amiens), Michał Hawranek (Zabrze), Zenon Huczek (Warszawa)
- 13:55-14:05 **Current management of In-Stent Restenosis – Is there room for DCB after the recent ESC guidelines?** Wojciech Wańha (Katowice)
- 14:05-14:15 **The new perspectives of DCB in de novo lesions - A 2025 scientific update on the clinical performance of DCB.**
Bernardo Cortese (Cleveland)
- 14:15-14:25 **Intracoronary imaging-guided DCB intervention – Is this the key to success?** Sylwia Iwańczyk
- 14:25-14:35 **Role of physiology in DCB-PCI.** Filippo Luca Gurgoglione (Parma)
- **14:31-14:55 LIVE CASE – robotic-assisted PCI with DEB**
Operators: T. Pawłowski (Warszawa), M. Kaczyński (Warszawa)

- 13:55-14:55 **Wstrząs ... - cogito ergo sum**
Sesja AITK PTK
Prowadzący: R. Gil (Warszawa), A. Tycińska (Białystok), M. Hawranek (Zabrze), R. Zymliński (Wrocław)
- 13:55-14:07 **Wstrząs – klasyfikacja, diagnostyka, różnicowanie.**
R. Zymliński (Wrocław)
- 14:07-14:19 **Kiedy wykonywać diagnostykę inwazyjną u chorych po OHCA.** W. Kuliczkowski (Wrocław)
- 14:19-14:31 **Wskazania do wspomaganie krążenia.**
M. Kałużna-Oleksy (Poznań)
- 14:31-14:43 **Farmakoterapia wstrząsu.** A. Świątkowski (Zabrze)
- 14:43-14:55 **Dyskusja panelowa**

GALAXY 3

- 13:55-14:55 **WARCHIP 25 – session 2: Vascular access & closure are not always the easiest part of the CHIP procedure.**
Chair: Jerzy Sacha (Opole), Wojciech Wojakowski (Katowice)
Panel: Valery Gelev (Sofia), Paweł Lewandowski (Warszawa), Paweł Kleczyński (Kraków)
- 13:55-14:07 **Radial, ulnar or brachial access? How to choose the right one.** Paweł Lewandowski (Warszawa)
- 14:07-14:19 **Facilitated femoral access for large bore procedure.**
Zoltan Ruzsa (Szeged)
- 14:19-14:31 **One, two, mixed suture-based closure or just plug-in to closure large bore arteriotomy.** Radosław Parma (Katowice)
- **14:31-14:55 LIVE CASE – complex PCI – live transmission from Brno**

14:55-15:05 COFFEE BREAK

GALAXY 1

- **15:05-16:35 European Bifurcation Club & WCCI symposium: Coronary bifurcation treatment in 2025.**

Session in English

Chairmen: Alaide Chieffo (Milan), Jens Flensted Lassen (Odense), Robert J. Gil (Warszawa), Adam Witkowski (Warszawa)

Panel: Jacek Legutko (Kraków), Gary Mintz (New York), Dobrin Vassiliev (Ruse), Mirosław Ferenc (Bad Krozingen), Maciej Lesiak (Poznań)

- **15:05-15:45 LIVE CASE 1&2 Live from Warsaw & Cracow – Bifurcation stenting with IVUS or OCT.**
- **Case 1:** T. Pawłowski (Warszawa), M. Tajstra (Zabrze)
- **Case 2:** S. Bartuś (Kraków), Ł. Rzeszutko (Kraków)
- 15:45-15:57 **Do we have already new devices for bifurcation treatment?** Dobrin Vassilev (Ruse)
- 15:57-16:09 **Unintended stent deformation during bifurcation treatment – how we can deal with.** Jacek Legutko (Kraków)
- 16:09-16:21 **DEB in bifurcations – is it right time for routine usage?** ShaoLiang Chen (Nanjing)
- 16:21- 16:33 **EBC 2025 achievements so far and what is the way forward.** Jens Flensted Lassen (Odense)
- 16.33-16.35 **Summary** by A. Chieffo (Milan)

GALAXY 2

GALAXY 3

16:35-16:45 COFFEE BREAK

- **16:45-18:15 Warsaw Course on Complex and High Risk Indicated Patients (WAR-CHIP) organized in cooperation with Euro4C group. Main session.**
- **16:45-18:15 WARCHIP 25 – session 3: Decalcification tools battle – what is the right choice.**

Session in English

Chair: Alaide Chieffo (Milan), Robert J. Gil (Warszawa), Sławomir Dobrzycki (Białystok)

Panel: Valery Gelev (Sofia), Krzysztof Reczuch (Wrocław), Jacek Legutko (Kraków)

- 16:45-16:50 **Objectives of the session.** Robert J. Gil (Warszawa)
- 16:50-17:05 **Calcific nodules – orbital atherectomy or lithotripsy.** Mirosław Ferenc (Bad Krozingen)
- 17:05-17:20 **Superficial calcium – rotational atherectomy or cutting balloon.** Krzysztof Reczuch (Wrocław)

GALAXY 1

- **17:20-17:50 LIVE CASE – Complex PCI with LVAD support**
Operators: T. Pawłowski (Warszawa), P. Kleczyński (Kraków)
- 17:50-18:05 **Calcium and imaging – guide for choice.**
Gary Mintz (New York)
- 18:05-18:15 **Take home message.** Alaide Chieffo (Milan)

- **18:15-19:15 Symposium: Innovations in Cardiology – Let`s have a look what is and will be available in Cath Lab.**
Session in English
Chairmen: Zbigniew Chmielak (Warszawa), Jarosław Wójcik (Lublin), Valery Gelev (Sofia)
Panelists: TBD

- 18:15-18:25 **Let`s have a look what is and will be available in Cath Lab.** Lecture on Elixir technologies. Michał Hawranek (Zabrze)
- 18:25-18:35 **TricValve.** Adam Rdzanek (Warsaw)
- 18:35-18:45 **VitaFlow – the new, electrically enabled self-expanding TAVI valve.** Wojtek Wojakowski (Katowice)
- 18:45-18:55 **Facilitated Culotte with the dedicated stent.** Maciej Lesiak (Poznan)

- 18:55-19:10 **Presentations of Industry Innovations.** TBD
- 19:10-19:15 **Take-home message.** Jarosław Wójcik

GALAXY 2

GALAXY 3

- **18:15-19:15 Denerwacja tętnic nerkowych - nowe fakty i aktualnie obowiązujące wskazania.**
Session supported by the unrestricted educational grant by Medtronic.
Panel: Robert J. Gil (Warszawa), Adam Witkowski (Warszawa), Andrzej Januszewicz (Warszawa), Krzysztof Narkiewicz (Gdańsk)

- 1. **Podstawy działania denerwacji tt. nerkowych jako metody obniżającej ciśnienie tętnicze krwi u człowieka.** Andrzej Januszewicz (Warszawa)
- 2. **Ablacja wykorzystująca częstotliwości radiowe - podstawowe zasady, bezpieczeństwo oraz trwałość efektu.** Jacek Kądziała (Warszawa)
- 3. **Co mówią nam badania randomizowane i rejestry?** Adam Witkowski (Warszawa)
- 4. **Aktualne wskazania do RDN w oparciu o wytyczne ESC, ESH** (polska propozycja PTK&PTNT) Aleksander Prejbisz (Warszawa)
- 5. **Dyskusja z uwzględnieniem następujących wątków:**
 - **jak kwalifikować pts do RDN - rola sieci współpracujących specjalistów (kardiolodzy, hipertensjologdy, nefrologdy)**
 - **kto najbardziej korzysta z RDN?**
 - **jak radzić sobie z farmakoterapią nadciśnienia tętniczego po RDN?** Krzysztof Narkiewicz (Gdańsk)
- 6. **Podsumowanie – dokąd zmierza RDN.** Robert J. Gil (Warszawa)

GALAXY 1

- **8:00-9:50 Walne Zgromadzenie członków Asocjacji Interwencji Sercowo-Naczyniowych Polskiego Towarzystwa Kardiologicznego. General Assembly of the Association on Cardiovascular Interventions of the Polish Cardiac Society.**

Session in Polish

9:50-10:00 COFFEE BREAK

- **10:00-12:00 Kardiologia w Polsce. Perspektywy na przyszłość. Cardiology in Poland. Future perspective.**

Session in Polish

Przewodniczący: Robert J. Gil, Prezes PTK; Janina Stępińska, Przewodnicząca KRK; Adam Witkowski, Pełnomocnik MZ ds. NPCHUK
Panel: Piotr Suwalski (Warszawa), Krystian Wita (Katowice), Mariusz Gąsior (Zabrze), Piotr Ponikowski (Wrocław), Krzysztof Chlebus (Gdańsk), Michał Hawranek (Zabrze), Marek Gierlotka (Opole), Wojciech Wojakowski (Katowice), Konrad Korbiński (Warszawa), Dariusz Dudek (Kraków)

- 10:00-10:12 **Obecne możliwości leczenia choroby niedokrwiennej serca.** Mariusz Gąsior (Zabrze)
- 10:12-10:24 **Obecne możliwości leczenia chorób strukturalnych serca.** Wojciech Wojakowski (Katowice)
- 10:24-10:36 **Obecne możliwości leczenia niewydolności serca.** Piotr Ponikowski (Wrocław)
- 10:36-11:16 **POKAZ ZABIEGÓW:**
 - 10:36-10:56 **Przeszkórna angioplastyka wieńcowa wysokiego ryzyka z zastosowaniem urządzenia wspomagającego pracę lewej komory serca (LVAD).** M. Opolski, R. Wolny (NIKARD, Warszawa)
 - 10:56-11:16 **Zabieg TAVI.** A. Witkowski, M. Dąbrowski (NIKARD, Warszawa)
- 11:16-11:30 **Krajowa Sieć Kardiologiczna.** Konrad Korbiński, Dyrektor Dep. Opieki Koordynowanej MZ
- 11:30-12:00 **Dyskusja. Dokąd idziemy? Jaki będzie docelowy kształt opieki nad pacjentami z chorobami układu sercowo-naczyniowego w Polsce?** Dyskusję prowadzi Janina Stępińska (Warszawa)

GALAXY 2



- **8:00-17:15 WARSAW CTO SYMPOSIUM (6TH EDITION), 10TH APRIL 2025**

Course Co-Directors: Maksymilian Opolski (Warsaw), Paul Knaapen (Amsterdam).

All sessions in English

- **8:00-10:45 Morning Session 1**

Chairs: Mauro Carlino (Milano), Maksymilian Opolski (Warsaw)
Panel: Gabriele Gasparini (Milano), Wojciech Skorupski (Poznań), Mateusz Tajstra (Zabrze), Felix Woitek (Dresden), Wojciech Zimoch (Wrocław)

- 8:00-8:10 **How to build CTO PCI program: "It must be love".** Paul Knaapen (Amsterdam)
- 8:10-8:20 **Quantum leaps in CTO PCI: "Everything you can imagine is real".** Maksymilian Opolski (Warsaw)
- **8:20 LIVE CASE 1 (Military Hospital in Lublin) – Traditional Japanese Style**
Shunsuke Matsuno (Tokyo), Grzegorz Sobieszek (Lublin), Bartosz Zięba (Lublin)

- **9:00 Live Case 2 (From Sapporo Heart Center) – HDR, TD-HDR, TD-ADR**
Tutomu Fujita (Sapporo), Daitaro Kanno (Sapporo), Yutuka Tadano (Sapporo)

- **9:40 LIVE CASE 3 (National Institute of Cardiology) – Amsterdam Style**
Alexander Paulus Knapp (Amsterdam), Artur Dębski (Warsaw)

10:45-11:00 COFFEE BREAK

GALAXY 3

- **9:00-16:30 Structural Heart Disease Track**

All sessions in English

- 9:00-11:45 **Session 1.**

Changing indications to TAVI.

Chairmen: Ariel Finkelstein (Tel Aviv), Marek Grygier (Poznań), Dariusz Jagielak (Gdańsk), Maciej Dąbrowski (Warszawa)
Discussants: Marcin Protasiewicz (Wrocław), Mirosław Ferenc (Bad Krozingen), Paweł Kleczyński (Kraków), Zbigniew Chmielak (Warszawa), Krzysztof Wilczek (Zabrze), Pranas Serpytis (Vilnius)

- **9:00-9:40 LIVE 1. TAVI in a patient with extremely large bicuspid valve. National Institute of Cardiology, Warsaw.**
Z. Chmielak, A. Witkowski, R. Wolny

- 9:40-9:55 **TAVI in degenerated surgical aortic bioprostheses.** Petr Kala (Brno)
- 9:55-10:10 **TAVI in degenerated transcatheter aortic bioprostheses.** Alaide Chieffo (Milan)
- 10:10-10:25 **TAVI for asymptomatic severe aortic stenosis.** Radosław Parma (Katowice)
- 10:25-10:40 **PCI in Patients Undergoing Transcatheter Aortic-Valve Implantation.** Janusz Kochman (Warszawa)
- **Non-femoral access to TAVI:**
 - 10:40-10:55 **Transcaval.** TBD
 - 10:55-11:10 **Subclavian.** Jerzy Sacha (Opole)
 - 11:10-11:25 **Carotid.** Damian Hudziak (Katowice)
 - 11:25-11:45 **Discussion and wrap-up.** Ariel Finkelstein (Tel Aviv)

11:45-12:00 TECHNICAL BREAK

GALAXY 1

GALAXY 2

GALAXY 3

- **11:00-12:00 Morning Session 2**

Chairs: Jurij Avramovic (Izola), Goran Olivecrona (Lund)

Panel: Sylwia Iwańczyk (Poznań), Mihajlo Kovacic (Cakovec), Marek Radomski (Inowrocław), Piotr Wańczura (Rzeszów)

- 11:00-11:05 **CTO toolkit in 2025: "Put your iron hand in a velvet glove"**. Mihajlo Kovacic (Cakovec)

- 11:05-11:10 **A brief update on the CTO-DENOVO registry: "Under pressure"**. Magdalena Dobrolińska (Katowice)

- **Battle talk**

- 11:10-11:20 **Much fanfare, little function: CTO skills are obsolete.** Jurij Avramovic (Izola)

- 11:20-11:30 **A parachute when things get out of hand: CTO skills are essential.** Gabriele Gasparini (Milano)

- **11:30 LIVE CASE 4 (Military Institute of Medicine in Warsaw) – Polish-Italian HDR**

Piotr Kwiatkowski (Warsaw), Jakub Drozd (Lublin), Mauro Carlino (Milano)

12:00-13:00 LUNCH BREAK

INDUSTRY SPONSORED SESSIONS

- **13:00-17:30 Transseptal puncture for LAAC and Mitral Interventions with Hands-on Training**

Chairmen: Wojciech Wojakowski (Katowice), Łukasz Lewicki (Wejherowo), Marek Grygier (Poznań)

Panellists: Piotr Scisło (Warsaw), Krzysztof Kaczmarek (Łódź), Andreas Rück (Stockholm), Sławomir Dobrzycki (Białystok), Mirosław Ferenc (Bad Krozingen)

- 13:00-13:12 **How to optimally perform transseptal puncture for Left Atrial Appendage Closure?** Krzysztof Kaczmarek (Łódź)

- **13:12-13:52 RECORDED CASE 1. LAAC**

Adam Witkowski, Jerzy Pręgowski, Patrycjusz Stokłosa (NIKARD, Warsaw)

- 13:52-14:04 **How to optimally perform transseptal puncture for transcatheter mitral interventions?** Adam Rdzanek (Warszawa)

- **13:00-16:00 Afternoon Session 1**

Chairs: Gabriele Gasparini (Milano), Ilya Litovchik (Be'er Yaakov)

Panel: Grzegorz Horszczaruk (Łomża), Grzegorz Mężyński (Białystok), Goran Olivecrona (Lund), Daniel Rzeźnik (Cracow), Aleksander Zeliaś (Nowy Sącz)

- **13:00 LIVE CASE 5 (Military Hospital in Lublin) – Polish-French Hybrid**

Grzegorz Sobieszek (Lublin), Sina Porouchani (Lille), Bartosz Zięba (Lublin)

- **13:40 LIVE CASE 6 (National Institute of Cardiology) – Proctored Case**

Umberto Barbero (Savigliano), Maksymilian Opolski (Warsaw), Jarosław Skowroński (Warsaw)

- 14:30-14:40 **IVUS: "I want to hold your hand"**. Sa'ar Minha (Be'er Yaakov)

- **13:00-15:00 Session 2.**

- **New evidence for edge-to-edge therapy in mitral regurgitation**

Chairmen: Adam Witkowski (Warsaw), Kazimierz Widenka (Rzeszów), Robert J. Gil (Warsaw), Alaide Chieffo (Milan)

Panellists: Dariusz Dudek (Kraków), Piotr Waciński (Lublin), Petr Kala (Brno), Piotr Pysz (Katowice), Zoltan Ruzsa (Szeged)

- **3:00-13:40 LIVE CASE 2. TEER Mitral. TBD National Institute of Cardiology, Warsaw**

J. Pręgowski-Z. Chmielak-P. Stokłosa

- 13:40-13:55 **Lessons learned from COAPT and RESHAPE-2.** Piotr Ponikowski (Wrocław)

- 13:55-14:10 **Mitral transcatheter edge-to-edge repair vs. isolated mitral surgery for severe mitral Regurgitation.** TBD

- 14:10-14:25 **Evolving indications for transcatheter mitral edge-to-edge repair.** Jerzy Pręgowski (Warszawa)

- 14:25-14:40 **Carillon Update.** Tomasz Siminiak (Poznań)

GALAXY 1

- **14:04-14:44 RECORDED CASE 2. TEER Mitral**

Jerzy Pręgowski, Zbigniew Chmielak, Patrycjusz Stokłosa (NIKARD, Warsaw)

14:44-15:00 COFFEE BREAK

- **15:00-17:30 Hands-on Training on simulators.**

Jerzy Pręgowski, Patrycjusz Stokłosa
(Room Cumulus, 9th floor)
Earlier sing-up is required

17:30 GALAXY 1: END OF WCCI 2025

GALAXY 2

- 14:40-14:50 **Retrograde or ADR: “We boil at different degrees”.**
Goran Olivecrona (Lund)

- **14:50 LIVE CASE 7 (Victoria, Canada) – Difficult Retrograde**
Bilal Iqbal (Victoria) – Ram Vijayagharavan (Victoria)

16:00-16:30 COFFEE BREAK

- **16:30-17:15 Afternoon Session 2**

Chairs: Leszek Bryniarski (Cracow), Vojtěch Novotný (Pardubice)
Panel: Jakub Drozd (Lublin), Alex Nap (Amsterdam), Piotr Pawluczuk (Grodzisk Mazowiecki), Marek Radomski (Inowrocław), Sławomir Surowiec (Warsaw)

- 16:30-16:40 **Complication management: “It requires more courage to continue than to stop”.** Ilya Litovchik (Be’er Yaakov)
- 16:40-16:45 **Complication Case 1: “The impossible is what takes a little longer.”** Felix Woitek (Dresden)
- 16:45-16:50 **Complication Case 2: “Comfortably numb”.**
Arkadiusz Pietrasik (Warsaw), Alex Nap (Amsterdam)
- 16:50-16:55 **Complication Case 3: “Chasing Ghosts”.**
Nichita-Brendea Mihnea (Oradea)
- 16:55-17:10 **Keynote lecture: “If you think it’s going to rain it will”.**
Keynote TBA
- 17:10-17:15 **Closing remarks and adjourn.**
Maksymilian Opolski (Warsaw)
- 18:00 **Warsaw CTO Combat Training** (by invitation only)

GALAXY 3

- 14:40-14:55 **Progress in Device-Based Diagnosis and Treatment of Heart Failure – Insights from Transcatheter Heart Failure Therapeutics 2025.** Greg Kaluza (New York)
- 14:55-15:00 **Discussion and wrap-up.** Alaide Chieffo (Milan)

- **15:00-16:00 Session 3.**

Leveraging Artificial Intelligence in the Management of Aortic Stenosis.

Session organized by AISN Artificial Intelligence Working Group.
Chairmen: Zenon Huczek (Warszawa), Piotr Olszówka (Rzeszów), Dariusz Dudek (Kraków)
Discussants: Radosław Pracoń (Warszawa), Zoltan Ruzsa (Szeged), Andrzej Ochała (Katowice), Michał Hawranek (Zabrze), Jerzy Sacha (Opole), Kajetan Grodecki (Warszawa), Maciej Dąbrowski (Warszawa), Pranas Serpytis (Vilnius)

- 15:00-15:12 **Comprehensive echocardiography exam interpretation using AI.** Milos Vukadinovic (Poznań)
- 15:12-15:24 **Heart Team Decision-Making Enhanced by Large Language Models.** Mikołaj Buchwald (Los Angeles)
- 15:24-15:36 **Procedural Planning for Aortic Valve Intervention Using Generative AI.** Kajetan Grodecki (Warszawa)
- 15:36-15:48 **Post-Procedural Risk Stratification Using Machine Learning.** Damini Dey (Los Angeles)
- 15:48-16:00 **Discussion and wrap-up.** Zenon Huczek (Warszawa)

- **16:00-17:50 Session 4.**

Transcatheter edge-to-edge and valve treatment for tricuspid regurgitation.

Chairmen: Adam Rdzanek (Warszawa), Wojciech Wojakowski (Katowice), Zoltan Ruzsa (Szeged)
Panellists: Marek Grygier (Poznań), Sławomir Dobrzycki (Białystok), Tomasz Siminiak (Poznań), Krzysztof Wilczek (Zabrze)

- **16:00-16:40 RECORDED CASE 3. TEER Tricuspid**

J. Pręgowski, A. Mioduszevska, P. Stokłosa (NIKARD, Warsaw)

- 16:40-16:52 **Review of research and clinical evidence for edge-to-edge therapy for tricuspid regurgitation.** Mirosław Ferenc (Bad Krozingen)
- 16:52-17:04 **TEE guidance: tips and tricks.** Patrycjusz Stokłosa (Warszawa)
- 17:04-17:16 **ICE guidance: tips and tricks.** Andreas Rück (Stockholm)

GALAXY 1

GALAXY 2

GALAXY 3

- **Transcatheter valve therapy for TR: what is clinical evidence with...**
- 17:16-17:28 **Orthotopic valves.** Jerzy Pręgowski (Warszawa)
- 17:28-17:40 **Heterotopic valves.** Dariusz Dudek (Kraków)
- 17:40-17:50 **Discussion and wrap-up.** Zoltan Ruzsa (Szeged)

17:50 GALAXY 3: END OF WCCI 2025