

WORKSHOP PROGRAMME



XXVIII Warsaw Course on Cardiovascular Interventions

April 24-26, 2024 | Airport Okęcie Hotel, Warszawa



Wednesday, 24th April, 2024

GALAXY 1

- **9:00-10:00 Cardiogenic Shock - the greatest challenge in the cathlab and intensive care unit**
Joint Session of the Association on Cardiovascular Interventions & Intensive Cardiological Care Associations of the Polish Cardiac Society
Session in Polish
Prowadzenie: Michał Hawranek (Zabrze), Robert Zymliński (Wrocław), Przemysław Trzeciak (Zabrze)
Panel: Zenon Huczek, Adam Witkowski, Marek Gierlotka, Paweł Kleczyński, Agnieszka Kapłon-Cieślicka, Agnieszka Tycińska
- **9:00-9:12 Risk stratification in cardiogenic shock - the role of clinical parameters and additional tests.**
Robert Zymliński (Wrocław)
- **9:12-9:24 Revascularization in cardiogenic shock.**
Michał Hawranek (Zabrze)
- **9:24-9:36 Eligibility for mechanical circulatory support - when, for whom, and how.** Wiktor Kuliczkowski (Wrocław)
- **9:36-9:48 MCS in CCU - key aspects of patient management - monitoring, de-escalation and escalation.**
Marta Kałużna-Oleksy (Poznań)
- **9:48-10:00 Dyskusja**

GALAXY 2

- **9:00-10:15 Artificial Intelligence (AI) in catheter based coronary intervention - a glimpse into the future.**
Session under auspicy of Club 30 of the PCS
Session in Polish
Prowadzenie: Robert Gil, Karolina Kupczyńska
Panel: Agnieszka Kapłon-Cieślicka (Warszawa), Miłosz Jaguszewski (Gdańsk), Arkadiusz Pietrasik (Warszawa)
- **9:00-9:10 AI & machine learning general concepts for interventional cardiologists.** K. Pieszko (Zielona Góra)
- **9:10-9:20 AI-based intravascular imaging.**
S. Iwańczyk (Poznań)
- **9:20-9:30 AI-based coronary physiology.**
M. Tomaniak (Warszawa)
- **9:30-9:40 AI-in structural heart procedures.**
W. Waříha (Katowice) 10 min
- **9:40-9:50 AI - based prediction of bleeding and ischemia.** A. Janas (Tychy) 10 min
- **9:50-10:00 Robotics and AI-empowered cathlab.**
P. Gąsior (Katowice) 10 min
- **10:00-10:15 Dyskusja**

GALAXY 3

- **CPR with an external defibrillator with real time quality monitoring of depth and rate** (30 minutes) – participants – 2-3
- 11:00
- 11:30
- 12:00
- 15:00
- 15:30
- **Wearable Cardioverter Defibrillator LifeVest (WCD) in clinical practice for patients after a cardiac incident** (60 minutes) – participants – up to 20
- **16:00 WCD for selected patients after coronary interventions** (Robert J. Gil 10-15 minutes)

ATLANTIS

DISCOVERY

- **Warsztaty szkoleniowe z zakresu użytkowania, obsługi i benefitów wykonywania zabiegów PCI ze wsparciem robota R-One+ firmy Robocath**
1-2 uczestników na jeden slot czasowy (ok.30 min)
- 09:00-11:00 Tomasz Pawłowski
- 11:30-13:30 Tomasz Pawłowski
- 14:00-16:00 Wojciech Wojakowski
- 16:30-18:30 Wojciech Wojakowski

10:15-10:25 BREAK

GALAXY 1

GALAXY 2

GALAXY 3

10:15-11:15 OPENING CEREMONY OF THE 28th WARSAW COURSE ON CARDIOVASCULAR INTERVENTIONS

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

ADDRESSES:

- 10:25-10:30 Adam Witkowski, WCCI Co-Director
- 10:30-10:35 Robert J. Gil, President of the Polish Cardiac Society (PCS)
- 10:35-10:40 Franz Weidinger, President of ESC (online)
- 10:40-10:43 Emanuele Barbato, Chairman of EAPCI
- 10:43-10:48 Michał Hawranek, Chairman of Association on Cardiovascular Interventions of the PCS

PRESENTATIONS:

- 10:48-11:03 **Keynote WCCI 2024 Lecture: Valve Therapy in 2030, a futuristic view.** Chaim Lotan
- 11:03-11:15 **Keynote WCCI 2024 Lecture: The emergence of image-based computational interventional physiology: a new wind for PCI.** William Wijns

11:25-11:30 BREAK

11:30-12:45 SESJA SYSTEMOWA

- **Narodowy Program leczenia chorych ze wstrząsem kardiogenym oraz po nagłym zatrzymaniu krążenia szansą dla najcięższej choroby.**

Prowadzący: Robert J. Gil, Prezes PTK (Warszawa), Adam Witkowski, Pełnomocnik Ministra Zdrowia ds NPCHUK (Warszawa), Mariusz Gąsior, Kierownik Kliniki Kardiologii SCCS w Zabrze (Zabrze), Janina Stępińska, Dyrektorka Narodowego Instytutu Kardiologii (Warsaw)

Panel: Konsultant krajowy ds. Kardiologii, konsultant krajowy ds. Kardiochirurgii, konsultant krajowy ds. Intensywnej terapii i anestezjologii, krajowy konsultant ds. Intensywnej terapii interdyscyplinarnej, krajowy konsultant ds. Ratownictwa medycznego plus: przedstawiciele MZ, NFZ, AOTMiT

- 11:30-11:40 **Obecne postępowanie z chorymi we wstrząsie kardiogenym w PL oraz jego wyniki kliniczne.** M. Gąsior (Zabrze)
- 11:40-11:50 **Warunki i czynniki ograniczające efektywność obecnego leczenia wstrząsu kardiogenego.** W. Kuliczowski (Wrocław)
- 11:50-12:05 **Proponowany program: założenia organizacyjne, schematy postępowania w konkretnych sytuacjach klinicznych.** R.J. Gil (Warszawa)
- 12:05-12:45 **Dyskusja z uczestników panelu**

12:45-12:55 BREAK (Lunchboxes will be available)

GALAXY 1

- **12:55-13:55 Session supported by the unrestricted educational grant by Philips Volcano Europe**
Facing challenging patients and lesions with recent technology developments
Session Chairmen: Robert J. Gil, Jacek Legutko

PROGRAMME:

1. **Diffuse or focal coronary lesions – a new role for physiology & imaging co-registration.** Jacek Legutko (12 min)
2. **Fibrous coronary plaque can be overcome with scoring balloons.** Paweł Kleczyński (12 min)
3. **Excimer laser atherectomy could be a universal device for all CHIP patients based on recorded case.** Tomasz Pawłowski (15 min)
4. **Discussion** (15 min)

GALAXY 2

- **12:55-13:55 Session supported by the unrestricted educational grant by**

GALAXY 3

- **12:55-13:55 Session supported by the unrestricted educational grant by**

GALAXY 1

- **14:00-15:00 Extracorporeal therapies in ICCU in practice - how to optimally guide a patient with...**
Workshop organized by the Association of Intensive Cardiac Care of the Polish Cardiac Society
Session in Polish
Prowadzący: Przemysław Trzeciak, Janina Stępińska, Robert Zymliński
Panel: Robert Gil, Marta Załęska-Kocięcka, Adam Witkowski, Anna Fojt, Joanna Płonka
- 14:00-14:12 **ECMO – treatment, safety principles and de-escalation rules.** Andrzej Świątkowski (Zabrze)
- 14:12-14:24 **Mechanical circulatory support - management of the most common complications.** Marta Kałużna-Oleksy (Poznań)
- 14:24-14:36 **Renal replacement therapy - selection, optimization and completion rules.** Robert Zymliński (Wrocław)
- 14:36-14:48 **Non-invasive and invasive ventilation: therapy individualization in patients with acute respiratory failure.** Agnieszka Tycińska (Białystok)
- 14:48-15:00 **Discussion**

GALAXY 2

- **14:00-15:00 Joint Polish-Korean session WCCI 2024**
Session in English
Chairman: Robert J. Gil, Sang-Wook Kim, Adam Witkowski, Jerzy Pręgowski
Panelists: Wojciech Wojakowski (Katowice), Zbigniew Chmielak (Warsaw), Sławomir Dobrzycki (Białystok), Piotr Waciński (Lublin)
- 14:00-14:11 **Computed tomography angiography planning for percutaneous interventions in non-CTO lesions.** Prof Mariusz Kruk (Warsaw)
- 14:11-14:22 **Computed tomography angiography planning for percutaneous interventions in CTO lesions.** Dr Rafał Wolny
- 14:22-14:33 **Coronary Atherosclerosis Characterization By Integration of CT/Angio-derived Imaging & Physiologic Indices.** Prof Doh Joon Hyung (Seoul)
- 14:33-14:44 **IVUS for guidance of dissection and re-entry technique during CTO interventions.** Prof Maksymilian Opolski (Warsaw)
- 14:44-14:55 **Role of intravascular imaging during interventions for calcified lesions.** Prof Sang-Wook Kim (Seoul)
- 14:55-15:00 **Wrap up** by Prof. A. Witkowski

GALAXY 3

- **14:00-15:00 Percutaneous Revascularization in Multivessel Coronary Disease – State-of-the-Art 2024**
Session organized by the Association of Cardiovascular Interventions of the Polish Cardiac Society
Session in Polish
Chair: Marek Grygier, Michał Hawranek, Zenon Huczek
Panelists: Jacek Legutko, Stanisław Bartuś, Krzysztof Milewski, Grzegorz Smolka, Jarosław Zalewski
- 14:00-14:11 **Chronic Coronary Syndromes.** Mariusz Tomaniak (Warsaw)
- 14:11-14:22 **Acute Coronary Syndromes.** Maksymilian Opolski (Warsaw)
- 14:22-14:33 **Cardiogenic Shock.** Paweł Kleczyński (Krakow)
- 14:33-14:44 **Chronic Heart Failure.** Marta Kałużna-Oleksy (Poznan)
- 14:44-14:55 **Valvular Heart Diseases.** Zenon Huczek
- 14:55-15:00 **Podsumowanie Przewodniczących**

- **15:15-17:22 European Bifurcation Club &WCCI symposium: Coronary bifurcation treatment in 2024**
Session in English
Part 1: Lights on preprocedural assessment
Chairmen: R.J. Gil (Warsaw), Adam Witkowski (Warsaw), Shao Liang Chen (Nanjing), Goran Stankovic (Belgrade)
Panel: Dobrin Vassilev (Sofia), Jacek Legutko (Cracow), Adam Kern (Olsztyn), Maciej Lesiak (Poznań), Zbigniew Chmielak (Warsaw)
- **15:15-15:50 LIVE CASE 1.** (National Institute of Medicine) **PCI of bifurcation lesion under functional guidance by different techniques.**
Operators: Tomasz Pawłowski (Warsaw), Sławomir Dobrzycki (Białystok)
- 15:50-16:00 **CT-guided PCI in bifurcation lesions - is it right time?** **Niya Mileva** (Ruse)/Dobrin Vassilev (Sofia)
- 16:00-16:10 **QFR as angiography based functional assessment – is it realiable?** William Wijns (Galway)

- **15:15-16:15 Session: Przeznaczyniowe/Małoinwazyjne interwencje w niewydolności serca: ekscytacja, postęp i wątpliwości?**
Sesja Asocjacji Niewydolności Serca PTK
Session in Polish
Przewodniczący: Prof. Agnieszka Pawlak, Prof. Paweł Rubiś
Panel: Janusz Kochman (Warszawa), Jarosław Zalewski (Kraków), Piotr Kwiatkowski (Warszawa), Sławomir Dobrzycki (Białystok)
- 15:15-15:27 **Kardiolog interwencyjny.** Dr hab. Marta Kałużna-Oleksy
- 15:27-15:39 **Elektrofizjolog.** Dr hab. Michał Farkowski
- 15:39-15:51 **Kardiochirurg.** Prof. Piotr Suwalski
- 15:51-16:03 **Kardiolog.** Prof. Jarosław Kasprzak
- 16:03-16:15 **Podsumowanie**

- **15:15-16:15 Functional assessment of coronary stenosis 2024 – update for interventional cardiologist**
Session in English
Chairmen: Cezary Kępka, Krzysztof Milewski
Panelists: Arkadiusz Pietrasik, Miłosz Jaguszewski, Mariusz Kruk, Sylwia Iwańczyk
- 15:15-15:27 **Angio-based assessment – is it realiable?** Adam Kern
- 15:27-15:39 **Invasive Angio-based FFR – invasive but gold standard?** Michał Hawranek
- 15:39-15:51 **FFR-CT – is it ready for daily routine practice?** Mariusz Kruk
- 15:51-16:05 **Clinical cases presentation:**
 - QFR Miłosz Jaguszewski (5 min)
 - iFR/FFR Łukasz Niewiara (5 min)
 - CT FFR Mariusz Kruk (5 min)
- 16:05-16:10 **Summary**

GALAXY 1

Part 2: Summary on coronary bifurcation treatment

Chairmen: R.J. Gil (Warsaw), Maciej Lesiak (Poznań), Goran Stankovic (Belgrade)

Panel: Adam Witkowski (Warsaw), Jarosław Wójcik (Nałęczów), Gianluca Rigatelli (Padova), TBD

- 16:10-16:22 **What are the current data supporting DCB bifurcation treatment?** Shao Liang Chen (Nanjing)
- 16:22-16:32 **Is Intracoronary imaging indispensable for bifurcation PCI treatment?** Jacek Legutko (Cracow)
- **16:32-17:12 LIVE CASE 2.** (National Institute of Medicine) **Patient with distal left main stenosis (DK Culotte technique).**
Operators: Jacek Legutko (Cracow), Tomasz Pawłowski (Warsaw)
- 17:12-17:22 **EBC`2024 recommendations.** Goran Stankovic (Belgrade)

GALAXY 2

GALAXY 3

17:22-17:30 COFFEE BREAK

- **17:30-18:40 Session: Intracoronary visualization – what an interventionalist has in contemporary cathlab**

Session in English

Chairmen: Robert J. Gil (Warsaw), Elvin Kedhi (Montreal), Jacek Legutko (Cracow)

Panelists: Paweł Tyczyński, Shinjo Sonoda, Wojciech Wojakowski, Tomasz Roleder

- 17:30-17:42 **Characteristics of the vulnerable plaque.** Elvin Kedhi (Montreal)
- 17:42-17:54 **AI supported OCT – is the best interventionalist needs?** Paweł Tyczyński (Warsaw)
- 17:54-18:06 **Optical Frequency Domain Imaging versus Intravascular Ultrasound in Percutaneous Coronary Intervention for Acute Coronary Syndrome.** Shinjo Sonoda (Saga)
- 18:06-18:18 **NIRS & IVUS catheter – when and whom?** Wojciech Wojakowski (Katowice)
- 18:18-18:37 **Recorded cases presentation:**
 - IVUS – Paweł Kleczyński (Cracow)
 - OCT Adrian Włodarczyk (Lubin)
 - NIRS&IVUS Tomasz Roleder (Wroclaw)
- 18:37-18:40 **Wrap-up.**

- **17:30-18:30 Session supported by the unrestricted educational grant by**

GALAXY 1

- **18:30-20:00 Symposium: Innovations in Cardiology – Let's have a look what is and will be available in Cath Lab.**

Session in English

Chairmen: Zbigniew Chmielak (Warsaw), Marek Grygier (Poznań), Michał Hawranek (Zabrze)

Panelists: Adam Kern (Olsztyn), Pranas Serpytis (Vilnius), Zoltan Ruzsa (Szeged), Valery Gelev (Sofia)

- **18:30-19:55 Presentations of Industry Innovations**

TBD

- **19:55-20:00 Take-home message.** Marek Grygier (Poznań), Zbigniew Chmielak (Warsaw)

GALAXY 2

GALAXY 3

- **18:30-20:00 My most demanding case in 2023. Session under the patronage of the e-journal Interventional Cardiology Academy in cooperation with Club 30 of the PCS.**

Session in English / Polish

Chairmen: Miłosz Jaguszewski (Gdańsk), Arkadiusz Pietrasik (Warsaw)

Panel: Maciej Lesiak, Janusz Kochman, Piotr Buszman

PRZYPADKI:

1. **Second aspiration thrombectomy on ECMO? Trust your anesthesiologist...** Tomasz Figatowski
2. **Lost and found – Fishing expedition.** Maciej Karwowski
3. **The Calcium Wars- Calcified Empire Strikes Back.** Piotr Rola
4. **OZW/IZW po TAVI.** Anna Mikołowicz-Mosiądz
5. **Współistnienie przemijającej globalnej amnezji, zespołu takotsubo i spontanicznej dyssekcji tętnicy wieńcowej.**
Anna Mikołowicz-Mosiądz
6. **Optymalna, złożona interwencja u pacjenta z frakcją wyrzutową 20% i jej odległy efekt kliniczny.** Jan Roczniak
7. **High-risk PCI procedures in nonagenarians and centenarians.**
Mateusz Kachel

• 18:30-18:40 **Case 1**

• 18:40-18:43 Discussion

• 18:43-18:53 **Case 2**

• 18:53-18:56 Discussion

• 18:56-19:06 **Case 3**

• 19:06-19:09 Discussion

• 19:09-19:19 **Case 4**

• 19:19-19:22 Discussion

- 19:22-19:45 **Voting and announcing the results of the competition for the best clinical case presented.**

GALAXY 1

- **8:30-9:20 Meeting of the ACVI of PCS/ zebranie Członków AISN PTK**
(in Polish)
- **9:30-12:30 Warsaw Course on Complex and High Risk Indicated Patients (WAR-CHIP) organized in cooperation with Euro4C group.**
Course Directors: T. Pawłowski (Warsaw) and M. Ferenc (Bad Krozingen)
Scientific Committee: R.J. Gil (Warsaw), A. Witkowski (Warsaw), K. Reczuch (Wrocław), L. Bryniarski (Krakow), S. Dobrzycki (Białystok)
- **9:30-12:30 Warsaw Course on Complex and High Risk Indicated Patients (WARSAW-CHIP)**
- **9:30-11:00 SESSION 1. Tailored management of coronary calcifications**
Chairs: Robert Gil (Warsaw), Emanuele Barbato (Rome), Shao Liang Chen (Nanjing)
Panelists: Valery Gelev (Sofia), Zoltan Ruzsa (Szeged), Miłosz Jaguszewski (Gdansk), Waclaw Kochman (Warszawa)
- 09:30-09:35 **Introduction.** Shao Liang Chen (Nanjing)
- 09:35-09:50 **Treatment of coronary calcifications - State of the art.** Emanuele Barbato (Rome)
- 09:50-10:00 **Imaging is a crucial modality for device selection.** Jacek Legutko (Cracow)
- 10:00-10:10 **My tricks & tips for selection of atherectomy device.** Krzysztof Reczuch (Wrocław)
- 10:10-10:20 **Unexpanded stent ablation with rotational atherectomy.** Hoyoun Won (Seul)
- **10:20-11:00 LIVE CASE** from National Institute of Medicine – **Complex coronary angioplasty with atherectomy device & LVAD**
Operators: Tomasz Pawłowski (Warsaw), Mirosław Ferenc (Bad Krozingen)
- **11:00-12:30 Session 2. Large bore in details**
Chairman: M. Hawranek (Zabrze), M. Dąbrowski

GALAXY 3

- **9:30-11:00 Zastawkowe wady serca – jak diagnozujemy i leczymy w 2024 roku.**
Session organized by Association of Valvular Heart Diseases of the Polish Cardiological Society
Session in Polish
Chairman: T. Hryniewiecki, E. Płońska-Gościńskiak, L. Tomkiewicz-Pająk
Panelists: G. Smolka, P. Scisło, M. Demkow
- 9:30-9:45 **Stenoza aortalna – dla kogo zastawka TAVI.** dr n med. Jarosław Trębacz
- 9:45-9:50 **Discussion**
- 9:50-10:05 **Zabiegi przezskórnego leczenia ciężkiej niedomykalności mitralnej – kogo obecnie kwalifikujemy.** Dr hab. med. Grzegorz Smolka
- 10:05-10:10 **Discussion**
- 10:15-10:30 **Niedomykalność trójdzielna - kiedy leczyć interwencyjnie.** Dr hab. med. Piotr Scisło
- 10:30-10:35 **Discussion**
- 10:35-10:50 **Wada zastawki płucnej – nowe możliwości leczenia przezskórnego.**
Prof. dr hab. med. Marcin Demkow
- 10:50-10:55 **Discussion**
- 10:55-11:00 **Wrap-up**
- **PCR SESSION @ WCCI 2024**
- **11:00-12:30 How Should I treat a patient with multivessel disease and low LVEF? LVAD - when and whom.**
Session in English
Chairmen: Adam Witkowski (Warsaw), Robert J. Gil (Warsaw), William Wijns (Galway)
Panelists: Emanuele Barbato (Rome), Pranas Serpytis (Vilnius), Janusz Kochman (Warsaw), Petr Kala (Brno)
- 11:00-11:05 **Introduction and objectives.** A. Witkowski **Case 1** (w/o LM involvement).
- Speaker 1: Case presentation (5 minutes).
- Expert 1: How would I treat? (7 minutes). Petr Kala?

ATLANTIS

- **Wearable Cardioverter Defibrillator LifeVest (WCD) in clinical practice for patients after a cardiac incident** (60 minutes) – participants – up to 20
- 10:00 **WCD for selected patients with newly diagnosed HF or MYC** (Agnieszka Pawlak 10-15 minutes)
- 16:00 **WCD service case-by-case reimbursement pathway** (Przemysław Mitkowski 10-15 minutes)
- **CPR with an external defibrillator with real time quality monitoring of depth and rate** (30 minutes) – participants – 2-3
- 9:30
- 11:00
- 15:00
- 15:30

DISCOVERY

- **Warsztaty szkoleniowe z zakresu użytkowania, obsługi i benefitów wykonywania zabiegów PCI ze wsparciem robota R-One+ firmy Robocath**
1-2 uczestników na jeden slot czasowy (ok.30 min)
- 09:00-11:00 Paweł Gąsior
- 11:30-13:30 Paweł Gąsior
- 14:00-16:00 Krzysztof Dyrbuś
- 16:30-18:30 Krzysztof Dyrbuś

CHALLENGER

TBD

VEGA

- **OCT not only for masters.**
- **Image interpretation common and rare pictures.**
- **MLD-MAX algorithm**
- **CA++ lesion how to treat**
- **Bifurcation 3D, a new tool in Ultreon 2.0**
- Planowana liczba uczestników na każdy slot – do 15 osób
- 12:00-14:00
- 14:00-16:00

GALAXY 1

(Warsaw)

Panelists: Shao Liang Chen (Nanjing), S. Bartuś (Kraków), Paweł Lewandowski (Warszawa), Paweł Kleczyński (Kraków)

- 11:15-11:30 **Planning large bore based on computed tomography.** C. Kępką
- 11:30-11:45 **Peripheral ultrasound is a mandatory skill for every.** J. Sacha
- 11:45-12:00 **IVI & IVL facilitated access.** Z. Ruzsa
- 12:00-12:15 **Vascular Closure devices.** T. Pawłowski
- 12:15-12:30 **Avoiding complications – surgeon’s view.** K. Bojakowski
- **LIVE CASE** from National Institute of Medicine: **Complex CHIP PCI w/wo LVAD support.**
Operators: Tomasz Pawłowski (Warsaw), Sylwia Iwańczyk (Poznań)

GALAXY 3

- Expert 2: How would I treat? (7 minutes). Valery Gelev (Sofia)
- Speaker 1 (5 minutes).
- Discussion (10 minutes)
- Consensus (5 minutes) Emanuele Barbato (Rome)

Case 2 (with LM involvement).

- Speaker 2: Case presentation (5 minutes) A. Pietrasik (Warsaw)
- Expert 1: How would I treat? (7 minutes) Chaim Lotan (Jerusalem)
- Expert 2: How would I treat? (7 minutes) M. Gierlotka (Opole)
- Speaker 2: How did I treat. (5 minutes) A. Pietrasik (Warsaw)
- Discussion. (10 minutes)
- Consensus (5 minutes). R.J. Gil (Warsaw)

GALAXY 2

12:30-13:30 LUNCH BREAK

INDUSTRY SPONSORED SESSIONS

- **12:30-13:30 Session supported by the unrestricted educational grant by ZOLL Medical Corp.**
Wearable Cardioverter Defibrillator in clinical practice in Poland – temporary protection of patients against SCD after cardiac events.
Session Chairman: Robert J. Gil
- **13:30-15:00 Session: Drug-Coated Balloons for Complex Coronary Artery Disease**
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, Michał Hawranek, Adam Janas, Kamil Bujak, Sylwia Iwańczyk, Wojciech Wańha
- 13:30-13:40 **The new perspective of DCB in complex PC.**
Sylwia Iwańczyk
- 13:40-13:50 **The impact of the dissection after DCB treatment.**
Wojciech Wańha
- 13:50-14:00 **Discussion**
- 14:00-14:10 **DCB in the treatment of coronary bifurcation lesions.**
Rafał Wolny

- **12:30-13:30 Session supported by the unrestricted educational grant by Novartis**
ASCVD oczami kardiologia interwencyjnego – nowe wyzwania i możliwości.
Moderator: prof. dr hab. n. med. A. Witkowski
- 1. **Kardiolog interwencyjny w walce z miażdżycą.**
Prof. dr hab. n. med. A. Witkowski
- 2. **A.D. 2024 vs 2023 nowa rzeczywistość profilaktyki wtórnej.**
Prof. dr hab. n. med. P. Mitkowski
- 3. **Lp(a) – kiedy oznaczać i dlaczego?**
Prof. dr hab. n. med. P. Dobrowolski
- 4. **Dyskusja**
- **13:30-15:00 Session on Innovations in Cardiovascular Medicine**
Chair persons: Piotr Buszman, Krzysztof Milewski, Wojciech Wojakowski, Chaim Lotan
Panelists: Marek Gzik, Grzegorz Kaluza, Paweł Buszman, Jerzy Sacha
- 1. **The Most Promising Cardiovascular Technologies in Development: Reflections on the Decade of the TCT Shark Tank Innovation Competition,** Grzegorz Kaluza (New York, USA)
- 2. **The future of cardiovascular imaging.** Krzysztof Milewski (Bielsko-Biała)

- **12:30-13:15 Wielonaczyniowa choroba wieńcowa u pacjentów wysokiego ryzyka z zawałem serca – wybór optymalnej strategii i najlepszych narzędzi**
 1. Złożone interwencje wieńcowe u pacjentów wysokiego ryzyka powikłań niedokrwienych i krwotocznych. Prof. Maciej Lesiak
 2. Dyskusja: prof. M.Lesiak, prof. Miłosz Jaguszewski, dr Jechy Sacha. Dyskusję poprowadzi Aleksandra Gąsecka van der Pol.
- **13:50-15:20 Transcatheter closure of PFO** (90 min)
Moderators: Marcin Demkow (Warsaw), Eustachio Maria Onorato (Milan), Marek Grygier (Poznań)
Discussants: Monika Komar (Kraków); Stanisław Bartuś (Kraków), Grzegorz Smolka (Katowice), Hoyoun Won (Seoul)
- 1. **Screening for PFO - which patients and what tools? Guidelines vs daily clinical practice.**
Neurologist perspective – 12 min M. Karliński (Warsaw)
Cardiologist perspective – 12 min R. Pracoń (Warsaw)
Discussion – 6 min
- 2. **RoPE, Pascal and other scores – to use or not use in the “real” world.**
12 min. G. Smolka (Katowice)
- 3. **“Hostile” PFO anatomy – procedural tips and tricks** – 12 min.
A. Araszkiwicz (Poznań)

- 14:10-14:20 **Tips and tricks from lesion selection to preparation and final optimization.** Sławomir Dobrzycki
- 14:20-15:00 **Live case of complex PCI with DCB treatment.** Bernardo Cortese & Tomasz Pawłowski

- 3. **New generation bioresorbable scaffolds – hope or hype?** Piotr Buszman (Katowice)
- 4. **Polimeric valves – a new solution to current limitations?** Paweł Buszman (Katowice)
- 5. **New areas for interventional treatment of structural heart diseases.** Wojciech Wojakowski (Katowice)
- 6. **The role and future of circulatory support devices as an adjunctive for coronary angioplasties.** Tomasz Pawłowski (Warszawa)

- 4. **Medication after PFO closure: single/ dual antiplatelet, how long?** – 12 min. Z. Huczek (Warsaw)
- 5. **PFO closure – live in a box case, 20 min**
- 6. **Wrap-up. Eustachio Maria Onorato (Milan), 4 min**

15:00-15:15 BREAK

GALAXY 1

- **15:15-16:45 Joint Session of the Working Group on Cardiac Surgery & Association On Cardiovascular Interventions of the Polish Cardiac Society: How we should overcome the lack of current Guidelines on revascularization? Do we have right consensus?**

Session in English

Chairmen: Robert J. Gil, Zenon Huczek, Piotr Suwalski, Tomasz Hirnle
Panelists: Tomasz Pawłowski, Marek Jasiński, Stanisław Bartuś

- 15:15-15:35 **Cardiologist's answer.** T. Pawłowski
- 15:35-15:55 **Cardiac Surgeon's answer.** M. Jasiński / T. Hirnle
- 16:15-16:35 **Roundtable discussion**
- 16:35-16:45 **Wrap-up**

GALAXY 3

- **15:15-16:45** Session on robotic methods in pts with CV diseases.

Session in English

Chairmen: Robert Gil, Piotr Suwalski, Dariusz Dudek
Panelists: Petr Kala

- **15:15-15:30 Robotics in interventional cardiology – a whim or a requirement?** Robert Gil
- **15:30-16:00 LIVE CASE: Robotic assisted PCI**
Operators: Tomasz Pawłowski (Warsaw), Mateusz Kaczyński (Warsaw)
- 16:00-16:10 **Discussion on fully robotic revascularization including hybrid**
- 16:10-16:22 **Robotic assisted operations in contemporary cardiac surgery – status as of today.** Piotr Suwalski
- 16:22-16:30 **Presentation of da Vinci robot possibilities.** Piotr Suwalski
- 16:30-16:42 **The future of robotics in medical procedures – cardiac surgeon point of view.** Zbigniew Nawrat
- 16:42-16:45 **Summary**

16:45-17:00 TECHNICAL BREAK

- **17:00-18:00 Session supported by the unrestricted educational grant by Gedeon Richter Comp.**

What interventionalist should know about NOACs.

Session Chairman: Robert J. Gil, Mateusz Tajstra

GALAXY 1

Programme:

1. **Vitamin K Antagonists and New Oral Anticoagulants: should we prefer just one?** Aleksandra Gąsecka
2. **Antithrombotic management in patients after PCI.** Jarosław Zalewski
3. **New indications for NOACs in patients with CAD – acute coronary syndromes and thromboembolism.** Piotr Pruszczyk
4. **Discussion**
5. **Take home message.** Robert J. Gil, Mateusz Tajstra

18:00-18:15 BREAK

• **18:15-19:15 Otyłość a choroby serca. Jak poprawić rokowanie pacjenta z otyłością po zabiegach kardiologii interwencyjnej**
Session supported by the unrestricted educational grant by Novo Nordisk Pharma

1. **Dlaczego otyłość to choroba kardiometaboliczna.**
Prof. Beata Matyjaszek-Matuszek
2. **Skuteczność semaglutynu w redukcji ryzyka sercowo-naczyniowego u pacjentów z CVD i otyłością. Nowe doniesienia.** Prof. Robert Gil

GALAXY 1

CASE-BASED CLINICAL PRACTICE IN STRUCTURAL HEART DISEASE

• 9:00-10:20 CLINICAL PRACTICE 1.

Multivalve Disease (80 min)

Chairs: Gregg Stone (NY) - online, Adam Witkowski (Warsaw), Kazimierz Widenka (Rzeszów)

Discussants: Marek Grygier (Poznan), Wojciech Wojakowski (Katowice), Zenon Huczek (Warsaw), Dariusz Jagielak (Gdansk), Pascal Meier (Fribourg)

• Presentations – 10 min

• Discussion – 10 min

- Gaps in Guidelines.** Emanuele Barbato (Rome)
Discussion moderated by Marek Grygier (Poznan)
- Aortic Stenosis and Secondary (Functional) Mitral Regurgitation.** Konstantinos Spargias (Athens)
– online
Discussion moderated by Wojciech Wojakowski (Katowice)
- Aortic Stenosis and Mitral Annular Calcification (MAC).** Zoltan Ruzsa (Szeged)
Discussion leads by Zenon Huczek (Warsaw)
- Mitral and Tricuspid Regurgitation.** Jerzy Pręgowski (Warsaw)
Discussion moderated by Pascal Meier (Fribourg)

10:20-10:30 COFFEE BREAK

• 10:30-12:40 CLINICAL PRACTICE 2.

Mitral Transcatheter Edge-to-Edge Repair Manual (130 min)

Chairs: Jerzy Pręgowski (Warsaw), Gregg Stone (NY)
Discussants: Wojciech Wojakowski (Katowice), Piotr Waciński (Lublin), Petr Kala (Brno), Krzysztof Kaczmarek (Łódź), Thomas Schmitz (Essen), Piotr Pysz (Katowice), Adam Witkowski (Warsaw)

• Presentations – 10 min

• Discussion – 10 min

- What Devices are Currently Available?**

GALAXY 2

• 9:00-11:40 CLINICAL PRACTICE 5.

TAVI from A to Z (160 min)

Chairs: Ariel Finkelstein (Tel Aviv), Dariusz Dudek (Krakow), Eberhard Grube (Bonn)

Discussants: Marcin Protasiewicz (Wrocław), Michał Hawranek (Zabrze), Jerzy Sacha (Opole), Mirosław Ferenc (Bad Krozingen), Paweł Kleczyński (Krakow), Janusz Kochman (Warsaw), Marek Grygier (Poznan), Zbigniew Chmielak (Warsaw)

• Presentations – 10 min

• Discussion – 10 min

- Patient Assessment and Procedural Decision -Making by Heart Team.** Dariusz Jagielak (Gdansk)
Discussion moderated by Marcin Protasiewicz (Wrocław)
- Imaging Essentials for TAVI and Procedural Planning.** Maciej Dąbrowski (Warsaw)
Discussion moderated by Michał Hawranek (Zabrze)
- TEE monitoring during TAVI to reduce contrast – zero contrast concept.** Anna Polewczyk (Kielce)
- Arterial Access and Closing.** Tomasz Pawlowski (Warsaw)
Discussion leads by Jerzy Sacha (Opole)
- Tips and Tricks for Optimal Valve Position and Deployment and Commissural Alignment.** Paweł Kleczyński (Krakow)
Discussion moderated by Mirosław Ferenc (Bad Krozingen)
- Live or Live in a Box Case** (30 min)
- Minimalist TAVI: How, When and for Whom?** Elved Roberts (Leicester)
Discussion moderated by Marek Grygier (Poznan)
- Before A Patient Leaves Hospital: Conduction Disturbances, Medical Therapies and Other Issues.** Rafał Wolny (Warsaw)
Discussion moderated by Janusz Kochman (Warsaw)

GALAXY 3



WARSAW CTO SYMPOSIUM

WARSAW CTO SYMPOSIUM (5th EDITION)

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

• 8:00-10:30 MORNING SESSION 1

Chairs: Paul Knaapen (Amsterdam), Elliot Smith (London)

Panel: Piotr Kwiatkowski (Warsaw), Mateusz Tajstra (Zabrze), Wojciech Zimoch (Wrocław), Sang Kim (Seoul)

• 8:00-8:05 Opening Adam Witkowski (Warsaw) Battle Talk – CTO PCI in 2024

• 8:05-8:15 **Restricted use: “You don’t need that eye surgery”** Paul Knaapen (Amsterdam)

• 8:15-8:25 **Liberal use: “Just can’t get enough!”** Elliot Smith (London)

• **8:25 LIVE CASE 1** (Military Clinical Hospital in Lublin) Alex Nap (Amsterdam) – Grzegorz Sobieszek (Lublin) – Bartosz Zięba (Lublin)

• **9:00 LIVE CASE 2** (National Institute of Cardiology) Maksymilian Opolski (Warsaw) – Umberto Barbero (Savigliano) – Artur Dębski (Warsaw)

10:30-11:00 COFFEE BREAK

• 11:00-13:15 MORNING SESSION 2

Chair: Daniel Weilenmann (St. Gallen)

Panel: Sylwia Iwańczyk (Poznań), Mihajlo Kovacic (Cakovec), Piotr Kwiatkowski (Warsaw), Marek Radomski (Inowrocław), Shinjo Sonoda (Saga)

• 11:00-11:10 **CTO PCI planning: “By failing to prepare, you are preparing to fail”** Daniel Weilenmann (St. Gallen)

• 11:10-11:20 **My CTO TESLA toolkit of 2024: “Don’t eat the yellow snow”** Mihajlo Kovacic (Cakovec)

CUMULUS

• 13:30-14:30 GR TAVI/AISN Fast Track TAVI

Session in Polish

Chairmen: A. Witkowski, D. Dudek, Z. Huczek

Panel: P. Olszówka, M. Hawranek, W. Wojakowski, R. Wolny

• 13.30-13.42 **How to select a patient for fast-track TAVI based on CT imaging?** B. Rymuza

• 13.45-13.57 **Optimal TAVI prosthesis selection – CT-based (SMART).** P. Olszówka

• 14.00-14.12 **Non-invasive hemodynamic monitoring during TAVI procedure.** J. Cylwik

• 14.15-14.27 **Fast track TAVI case - Live in a Box.** Z. Huczek/M. Dabrowski

GALAXY 1

Adam Rdzanek (Warsaw)

Discussion moderated by Thomas Schmitz (Essen)

2. **Case Selection: Who is (Sub)Optimal Candidate?** Gregg Stone (NY)

Discussion moderated by Wojciech Wojakowski (Katowice)

3. **Transseptal Puncture: The Key to Success.** Krzysztof Kaczmarek (Łódź)

Discussion moderated by Petr Kala (Brno)

4. **Procedural Imaging: Views, Assessing of the Results and When do I Need a Second Clip?** Piotr Scisło (Warsaw)

Discussion moderated by Piotr Pysz (Katowice)

5. **Real-World Outcomes of Fourth-Generation Mitral Transcatheter Repair. 1-Year results From EXPAND G4. Recorded lecture.**

Stephan Ralf von Bardeleben (Mainz)

6. **"Randomized-World" Outcomes of Edge-to-Edge Therapy.**

Gregg Stone (NY)

Discussion moderated by Adam Witkowski (Warsaw)

7. **The Procedure: Live in a Box case from the National Institute of Cardiology in Warsaw. Device Steering and Navigation.** (20 min)

Discussion moderated by Piotr Waciński (Lublin)

12:40-12:50 COFFEE BREAK

- **12:50-14:30 CLINICAL PRACTICE 3.**

Tricuspid Valve Transcatheter Repair and Replacement Manual (80 min)

Chairs: Adam Rdzanek (Warsaw), Arkadiusz Pietrasik (Warsaw), Konstantinos Spargias (Athens) - online

Discussants: Piotr Szymański (Warsaw), Andrzej Gackowski (Krakow), Jerzy Sacha (Opole), Pascal Meier (Fribourg)

- Presentations – 10 min
- Discussion – 10 min

1. **The Natural History and Classification of Tricuspid Regurgitation.** Wojciech Wojakowski (Katowice)

2. **The Role of Imaging before the Intervention: TTE, TEE, MSCT.**

Piotr Pysz (Katowice)

Discussion moderated by Piotr Szymański (Warsaw)

3. **Procedural Imaging: Views, Assessing the Results, and When do I need a Second Clip?** Adam Rdzanek (Warsaw)

Discussion moderated by Andrzej Gackowski (Krakow)

GALAXY 2

11:30-11:40 COFFEE BREAK

- **11:40-13:10 CLINICAL PRACTICE 6.**

The TAVI Complication Triad: Stroke, Paravalvular Leaks and Conduction Disturbances (100 min)

Chairs: Robert J. Gil (Warsaw), Ariel Finkelstein (Tel Aviv), Chaim Lotan (Jerusalem)

Discussants: Radosław Prać (Warsaw), Zoltan Ruzsa (Szeged), Andrzej Ochała (Katowice), Zbigniew Chmielak (Warsaw), Michał Hawranek (Zabrze), Adam Witkowski (Warsaw)

- Presentations – 10 min
- Discussion – 10 min

1. **Stroke: Prevention and Management.** Emanuele Barbato (Rome)

Discussion moderated by Radosław Prać (Warsaw)

2. **Does Mild PVL really Matter? When and How to Treat PVL?** Zenon Huczek (Warsaw)

Discussion moderated by Zoltan Ruzsa (Szeged)

3. **Conduction Disturbances: Prevention and Management.**

Dariusz Jagielak (Gdańsk)

Discussion moderated by Andrzej Ochała (Katowice)

4. **LIVE CASE** (40 min) (National Institute of Cardiology) Zbigniew

Chmielak (Warsaw), Maciej Dąbrowski (Warsaw)

Discussion leads by Michał Hawranek (Zabrze)

13:10-13:20 COFFEE BREAK

- **13:20-15:10 CLINICAL PRACTICE 7.**

My Most Remarkable Coronary or Structural Case in 2023-24 (110 min)

Chairs: Zbigniew Chmielak (Warsaw), Andrzej Ochała (Katowice), Marek Jasiński (Wrocław)

Discussants: Tomasz Pawłowski (Warsaw), Łukasz Lewicki (Wejherowo), Michał Hawranek (Zabrze), Mirosław Ferenc (Bad Krozingen), Aleksander Araszkievicz (Poznan)

- Presentations – 10 min
- Discussion – 10 min

- **Case 1.**

Discussion moderated by Tomasz Pawłowski (Warsaw)

- **Case 2.**

Discussion moderated by Łukasz Lewicki (Wejherowo)

GALAXY 3

- **11:20 LIVE CASE 3** (Medical University of Warsaw) Paul Knaapen (Amsterdam) – Arkadiusz Pietrasik (Warsaw)

- **12:00 LIVE CASE 4** (Military Clinical Hospital in Lublin) Grzegorz Sobieszek (Lublin) – Gregor Leibundgut (Basel) – Bartosz Zięba (Lublin)

13:15-14:15 LUNCH

INDUSTRY SPONSORED SESSIONS

- **14:15-16:30 AFTERNOON SESSION 1**

Chair: Gabriele Gasparini (Milan)

Panel: Mihajlo Kovacic (Cakovec), Grzegorz Mężyński (Białystok), Daniel Rzeźnik (Cracow), Shinjo Sonoda (Saga), Rafał Wolny (Warsaw)

- 14:15-14:20 **IVUS-guided proximal cap puncture: "Nobody puts Baby in a corner"**, Rafał Wolny (Warsaw)

- 14:20-14:25 **Difficult X-CART: To hell with circumstances you should create opportunities**, Gabriele Gasparini (Milan)

- 14:25-14:30 **The CONDOM technique: expert's testimony**, Carlo Zivelonghi (Antwerp)

- **14:30 LIVE CASE 5** (National Institute of Cardiology)

Yoshifumi Kashima (Sapporo) – Artur Dębski (Warsaw) – Wojciech Skorupski (Warsaw)

- **15:10 LIVE CASE 6** (Linhares, Brasil)

João Tinoco (Linhares) – Breno Falcão (São Paulo)

- **16:30-17:15 AFTERNOON SESSION 2**

Chair: Leszek Bryniarski (Cracow)

Panel: Umberto Barbero (Savigliano), Jakub Drozd (Lublin), Marek Radomski (Inowrocław), Carlo Zivelonghi (Antwerp)

- 16:30-16:40 **Case 1: Fall seven times, get up eight**, Wojtech Novotny

- 16:40-16:50 **Case 2: In the middle of chaos lies opportunity.**

Umberto Barbero

- **16:50-17:00 Case 3: In Heaven, there is no beer.** Grzegorz Mężyński (Białystok)

- 17:00-17:05 **Best case selection.** Jakub Drozd

- 17:05-17:15 **Closing remarks and adjourn.** Maksymilian Opolski (Warsaw)

- **18:00 CTO Warsaw Challenge Tour** (by invitation only)

GALAXY 1

4. **The Procedure: Live in a Box case from Warsaw Medical University. Device Steering and Navigation** (20 min)
Discussion moderated by Pascal Meier (Fribourg)
5. **Transcatheter Tricuspid Valve Replacement. Live-in-a box from Athens** Konstantinos Spargias and Team - online (20 min)

14:30-15:10 LUNCH

INDUSTRY SPONSORED SESSIONS

- **15:10-16:30 CLINICAL PRACTICE 4.**
LAAO Current Practice with Masters (80 min)
Chairs: Marcin Demkow (Warsaw), Łukasz Lewicki (Wejherowo), Krzysztof Kaczmarek (Łódź)
Discussants: Piotr Waciński (Lublin), Witold Streb (Zabrze), Zenon Huczek (Warsaw)
- Presentations – 10 min
- Discussion – 10 min
- 1. **Currently Available Different Guideline and Statement-Oriented Indications for LAAO.** Aleksander Araszkiwicz (Poznań)
Discussion moderated by Piotr Waciński (Lublin)
- 2. **This is the Way I Use Amulet for LAAO.** Grzegorz Smolka (Katowice)
Live in a Box and Discussion (30 min) moderated by Zenon Huczek (Warsaw)
- 3. **This is the Way I Use Watchman Flex for LAAO.** Marek Grygier (Poznań)
Live in a Box and Discussion (30 min) moderated by Witold Streb (Zabrze)

GALAXY 2

- **Case 3.**
Discussion moderated by Aleksander Araszkiwicz (Poznań)
- **Case 4.**
Discussion moderated by Mirosław Ferenc (Bad Krozingen)
- **Case 5.** Presented by Jaroslav Januska (Trinec)
Discussion moderated by Aleksander Araszkiwicz (Poznań)
- **Case 6.**
Discussion moderated by Michał Hawranek (Zabrze)