

# WORKSHOP PROGRAMME



XXVII April 19-21, 2023

## Warsaw Course on Cardiovascular Interventions

Wednesday, 19th April, 2023

### GALAXY 1

- 9:00-10:00 Joint Session of the Association on Cardiovascular Interventions & Intensive Cardiological Care Associations of the Polish Cardiac Society: **Sztuczna inteligencja w ITK oraz kardiologii interwencyjnej, czyli...**

*SESSION IN POLISH*

Prowadzenie: Marek Grygier (Poznań), Przemysław Trzeciak (Zabrze), Robert Gil (Warszawa)  
Panel: Agnieszka Tycińska (Białystok), Robert Zymliński (Wrocław), Stanisław Bartuś (Kraków), Michał Hawranek (Zabrze)

- 9:00-9:12 **Czy AI jest w stanie za nas ocenić EKG?**  
Marta Kałużna-Oleksy (Poznań)
- 9:12-9:24 **Czy ta zmiana na pewno jest istotna? Spytaj AI!**  
Krzysztof Milewski (Bielsko-Biała)
- 9:24-9:36 **Czy AI prawidłowo oceni blaszkę miażdżycową?**  
Stanisław Bartuś (Kraków)
- 9:36-9:48 **O rety, on to naprawdę zmalował! Nowe możliwości da Vinci.**  
Piotr Suwalski (Warszawa)
- 9:48-10:00 **Dyskusja: Czy to możliwe, że maszyny same leczą?**  
Moderator: Robert Gil (Warszawa)

### GALAXY 2

- 9:00-10:00 Session under auspice of Club 30 of the PCS and e-journal Academy of Interventional Cardiology:

**New national registries in interventional cardiology.**

*SESSION IN POLISH*

Prowadzenie: Agnieszka Kapłon-Cieślicka (Warszawa), Miłosz Jaguszewski (Gdańsk), Arkadiusz Pietrasik (Warszawa)  
Panel: Mariusz Gąsior (Zabrze), Radosław Targoński (Gdańsk), Karolina Kupczyńska (Łódź), Jacek Bil (Warszawa)

- 9:00-9:08 **DEB-DRAGON**  
Wojciech Wańha (Katowice)
- 9:08-9:16 **IMPELLA-PL**  
Arkadiusz Pietrasik (Warszawa)
- 9:16-9:24 **POL-TAKO**  
Monika Budnik (Warszawa)
- 9:24-9:32 **POL-MKW**  
Rafał Januszek (Kraków)
- 9:32-9:40 **SALAMANDER**  
Mariusz Kowalewski (Warszawa)
- 9:40-9:48 **Registries on tricuspid regurgitation and related transcatheter interventions**  
Adam Rdzanek (Warszawa)
- 9:48-10:00 **Dyskusja i podsumowanie przewodniczących sesji**

### DISCOVERY/CHALLENGER

- 9:00-10:15 **WARSAW-CHIP Workshop 1: Interactions with clinical experts on complex&high risk lesions treatment.**

*WORKSHOP IN POLISH* (Participation must be confirmed)

- **Hands -on & simulator-based training including:**

- 1. Impella CP & Impella RV: Abiomed**  
Jerzy Sacha (Opole)
- 2. Rotational atherectomy: Boston Scientific**  
Rafał Wyderka (Wrocław)
- 3. Orbital Atherectomy: Procardia**  
Łukasz Lewicki (Wejcherowo)
- 4. Manta - Teleflex**  
Radosław Parma (Katowice)
- 5. IVUS: Philips-Volcano**  
Paweł Kleczyński (Kraków)
- 6. iVAC-2L – Medaccess**  
Tomasz Pawłowski (Warszawa)
- 7. OCT Ultreon system - Abbott**  
Łukasz Rzeszutko (Kraków)

- 12:15-13:25 **WARSAW-CHIP Workshop 2: Interactions with clinical experts on complex&high risk lesions treatment.**

*WORKSHOP IN POLISH* (Participation must be confirmed)

• **Hands -on & simulators based training including:**

1. **Impella CP & Impella RV: Abiomed**  
Arkadiusz Pietrasik (Warszawa)
2. **Rotational atherectomy: Boston Scientific**  
Paweł Kralisz (Białystok)
3. **Orbital Atherectomy: Procardia**  
Maksymilian Opolski (Warszawa)
4. **Large bore closure – Manta**  
Grzegorz Smolka (Katowice)
5. **IVUS: Philips-Volcano**  
Sylwia Iwańczyk (Poznań)
6. **iVAC-2L – Medaccess**  
Tomasz Pawłowski (Warszawa)
7. **OCT Ultreon system - Abbott**  
Tomasz Roleder (Wrocław)

**10:15-11:15 OPENING CEREMONY OF THE 27th WARSAW COURSE ON CARDIOVASCULAR INTERVENTIONS**

Chair: Robert J. Gil, WCCI Director, Adam Witkowski, WCCI Director, Łukasz Szumowski (Warsaw), Waldemar Wierzba (Warsaw)

**PRESENTATIONS:**

- 10:15-10:20 Łukasz Szumowski, Director of National Institute of Cardiology. Opening remarks.
- 10:20-10:27 Przemysław Mitkowski, President of the Polish Cardiac Society
- 10:27-10:34 Marek Grygier, Chairman of Association on Cardiovascular Interventions of the Polish Cardiac Society

- 10:34-10:41 Emanuele Barbato, Chairman of EAPCI

- 10:41-10:55 William Wijns, Chairman of PCR. Keynote WCCI 2023 Lecture.

- 10:55-11:10 ANDREAS AWARDS. Robert J. Gil and Adam Witkowski

- 11:10-11:15 Waldemar Wierzba, Director of the National Medical Institute of the Internal Affairs and Administration Ministry. Session Wrap-up.

**11:15-11:20 BREAK**

**GALAXY 1**

- 11:20-12:20 **Session supported by the unrestricted educational grant by Novartis. Pacjent po zawale A.D. 2023**

*SESSION IN POLISH*

Chair: prof. Przemysław Mitkowski (Poznań)

1. **Ścieżka pacjenta po zawale – co mamy, a czego nadal brakuje?**  
prof. Krystian Wita (Katowice), 15 min
2. **Jak osiągać cele terapeutyczne dla LDL-C u pacjenta z bardzo wysokim i ekstremalnym ryzykiem sercowo-naczyniowym**  
prof. Mariusz Gąsior (Zabrze), 15 min
3. **Inklisiran – nowy gracz w programie lekowym B.101. Dla kogo? Dlaczego? Jak?**  
Przemysław Mitkowski (Poznań), 15 min
4. **Dyskusja**, 15 min

**GALAXY 2**

- 11:20-12:20 **Session supported by the unrestricted educational grant by Philips Healthcare IGT. Practical utilization of of IVUS and iFR/FFR in daily practice.**

*SESSION IN ENGLISH*

Chair: Robert J. Gil (Warsaw)

1. **Introduction.**  
Robert J. Gil (Warsaw), 3 min
2. **Co-registration angio & iFR or IVUS – when, whom and why?**  
Jacek Legutko (Kraków), 15 min
3. **How to deal with Intravascular ultrasound in pts with bifurcation lesions**  
Gary S. Mintz (New York), 15 min
4. **ELCA & IVUS - last hope devices for highly calcified lesions**  
Tomasz Pawłowski (Warsaw), 15 min
5. **Discussion**, 12 min

**GALAXY 3**

- 11:20-12:20 **Session supported by the unrestricted educational grant by MEDTRONIC**

*SESSION IN POLISH*

Chairs: Adam Witkowski (Warsaw), Dariusz Dudek (Kraków)

Panelists: Marek Grygier (Poznań), Piotr Olszówka (Rzeszów)

1. **Coronary access after TAVI.**  
Dariusz Dudek (Kraków), 15 min
2. **Discussion**, 10 min
3. **Resistant hypertension.**  
Andrzej Januszewicz (Warsaw), 15 min
4. **Is it a time for the come back of renal denervation in the treatment of arterial hypertension?**  
Adam Witkowski (Warsaw), 12 min
5. **Dyskusja**, 8 min

- 12:30-13:40 Workshop organized by the Association of Intensive Cardiac Care of the Polish Cardiac Society: **Codzienne problemy na oddziale intensywnej terapii kardiologicznej - wstrząs...**  
*SESSION IN POLISH*

Prowadzący: Przemysław Trzeciak (Zabrze), Agnieszka Tycińska (Białystok), Marek Gierlotka (Opole)  
Panel: Karol Kamiński (Białystok), Barbara Zawiślak (Kraków)

- 12:30-12:45 **Utrzymujące się objawy wstrząsu pomimo rewaskularyzacji – co możemy jeszcze zrobić?**  
Marta Kałużna-Oleksy (Poznań)
- 12:45-13:00 **Ocena wolemii z wykorzystaniem monitorowania nieinwazyjnego i inwazyjnego.** Agnieszka Kapłon-Cieślicka (Warszawa)
- 13:00-13:15 **Monitorowanie niewydolności wielo-narządowej.**  
Robert Zymliński (Wrocław)
- 13:15-13:30 **Deeskalacja mechanicznego wspomaganie krążenia.**  
Joanna Płonka (Opole)
- 13:30-13:40 **Dyskusja i podsumowanie**

- 12:30-13:40 **Session: Image-based FFR – 2023 update for interventional cardiologist**  
*SESSION IN POLISH*

Chairmen: Adam Witkowski (Warszawa), Robert J. Gil (Warszawa), Michał Hawranek (Zabrze)  
Panelists: Krzysztof Milewski (Bielsko-Biała), Wojciech Wojakowski (Katowice), Tomasz Roleder (Wrocław)

- 12:30-12:45 **Introduction to angio-based FFR – rationale & techniques available in 2023.**  
K. Milewski (Bielsko-Biała)
- 12:45-13:00 **Angio-based FFR - Clinical Data and subgroup analyses.**  
M. Tomaniak (Warszawa)
- 13:00-13:15 **FFR-CT - how to incorporate it in the cathlab?**  
C. Kępka / M. Kruk (Warszawa)
- 13:15-13:30 **Imaged-based FFR in daily practice: case-based clinical scenarios.**  
P. Buszman (Bielsko Biała/Kraków)
- 13:30-13:40 **Discussion & Summary**

- 12:30-13:40 **Session/workshop organized by the Association of Cardiovascular Interventions of the Polish Cardiac Society: Ochrona radiologiczna w pracowni kardiologii inwazyjnej**  
*SESSION IN POLISH*

Prowadzenie: Marek Grygier (Poznań), Krzysztof Milewski (Bielsko-Biała), Tomasz Pawłowski (Warszawa), Wojciech Wojakowski (Katowice), Andrzej Lekston (Zabrze)

- 12:30-12:42 **Promieniowanie jonizujące, organizacja pracowni kardiologii inwazyjnej.**  
Joanna Kidoń (Katowice)
- 12:42-12:54 **Systemy ochrony radiologicznej.**  
Krzysztof Milewski (Bielsko-Biała)
- 12:54-13:06 **Narażenie na promieniowanie personelu w odniesieniu do pełnionych zadań w obrębie pracowni kardiologii inwazyjnej.**  
Piotr Szymański (Warszawa)
- 13:06-13:18 **Następstwa chorobowe promieniowania RTG dla personelu i ich leczenie.**  
Tomasz Pawłowski (Warszawa)
- 13:18-13:30 **Ochrona radiologiczna pacjenta.**  
Mariusz Tomaniak (Warszawa)
- 13:30-13:40 **Dyskusja panelowa oraz podsumowanie Przewodniczących**

## GALAXY 1

- 14:10-16:15 **European Bifurcation Club symposium: Coronary bifurcation treatment in 2023**  
*SESSION IN ENGLISH*

- **Part 1: Lights on a side branch assessment and treatment**

Chairmen: R.J. Gil (Warsaw), Adam Witkowski (Warsaw), Yves Louvard (Paris), Gary Mintz (New York)  
Panel: Dobrin Vassilev (Sofia), Jacek Legutko (Krakow), Adam Kern (Olsztyn), Maciej Lesiak (Poznań)

- 14:10-14:40 **Live case 1. PCI of bifurcation lesion under guidance of iFR&FFR**  
Operators: Tomasz Pawłowski (Warsaw), Sławomir Dobrzycki (Białystok)

- 14:40-14:52 **How to assess whether SB needs to be treated?**  
Dobrin Vassilev (Sofia)
- 14:52-15:04 **How I can protect SB occlusion?**  
Yves Louvard (Paris)

## GALAXY 3

- 14:10-15:40 **Sesja "Klubu 30" PTK: Drug-Coated Balloons (DCB) for coronary artery disease - a new perspective in PCI.**

Przewodniczący: Waclaw Kochman (Warszawa), Miłosz Jaguszewski (Gdańsk)  
Panel: Wojciech Wojakowski (Katowice), Piotr Buszman (Bielsko-Biała), Maciej Wybraniec (Katowice), Radosław Targoński (Gdańsk)

1. **The role of DCB in the era of modern PCI.**  
Wojciech Wańha (Katowice)
2. **DCB for the treatment of complex coronary artery disease.**  
Sylwia Iwańczyk (Poznań)
3. **DCB in high bleeding risk patients: an alternative treatment to DES?**  
Mariusz Tomaniak (Warszawa)

• **Part 2: Summary on Left Main bifurcation treatment**

Chairmen: R.J. Gil (Warsaw), Maciej Lesiak (Poznań), ShaoLiang Chen (Nanjing), Gary Mintz (New York)

Panel: Dobrin Vassilev (Sofia), Gianluca Rigatelli (Padova), Adam Witkowski (Warsaw)

• 15:04-15:16 **Optimal strategy for side branch treatment in patients with left main coronary bifurcation lesions: POBA, DEB or DES?**

ShaoLiang Chen (Nanjing)

• 15:16-15:28 **Impact of Technique on LM Bifurcation Stent Outcomes.**

Gianluca Rigatelli (Padova)

• 15:24-16:08 **Live case 2. Patient with distal left main stenosis (DK Culotte technique).**

Operators: Tomasz Pawłowski (Warsaw), Jacek Legutko (Cracow)

• 16:08-16:15 **Master`s comment** by Gary Mintz (New York)

16:15-16:30 BREAK

## GALAXY 1

• 16:30-18:00 **Symposium: Functional assessment of coronary lesion severity – Status on 2023**

*SESSION IN ENGLISH*

Chairmen: Robert J. Gil (Warsaw), Jacek Legutko (Krakow), Gary Mintz (New York)

Panelists: Wojciech Wojakowski (Katowice), Stanisław Bartuś (Kraków), Janusz Kochman (Warsaw), Mateusz Tajstra (Zabrze), Adam Witkowski (Warsaw)

• 16:30-16:42 **Which is more Important? Imaging or Physiology?**

Gary Mintz (New York)

• 16:42-16:47 **FFR after FAME 3 and FLOWER – Where do we stand?**

Tomasz Pawłowski (Warszawa)

• 16:47-16:59 **Invasive vs Resting Indices – what is better?**

Michał Hawranek (Zabrze)

• 16:59-17:11 **Physiological stent optimisation - Is it a new standard?**

Jacek Legutko (Krakow)

• 17:11-17:23 **Microvascular assessment: when, whom and how...**

Łukasz Kołtowski (Warsaw)

• 17:11-17:23 **Optimization of the PCI - How should it look like for a stent and balloon (including a drug-eluting balloon)**

Giuseppe DeLuca (Novara)

• 17:23-18:00 **Live case 3. PCI with iFR, FFR and microcirculatory assessment**

Operator: Tomasz Pawłowski (Warsaw), Radosław Targoński (Gdańsk)

18:00-18:15 BREAK

4. **DCB for de novo coronary lesions: clinical applications.**

Miłosz Jaguszewski (Gdańsk)

5. **The role of intravascular imaging during PCI with DCB.**

Paweł Gąsior (Katowice)

## GALAXY 3

• 16:30-17:45 **Session organized by the Association of Heart Failure of the Polish Cardiac Society: OZW u pacjenta z niewydolnością serca**

*SESSION IN POLISH*

Przewodniczący: Agnieszka Pawlak (Warszawa), Marek Grygier (Poznań)

Panel: Jarosław Zalewski (Kraków), Jan Zbigniew Peruga (Łódź), Waclaw Kochman (Warszawa)

• 16:30-16:45 **Niewydolność serca u chorych z OZW wg danych PL/ ACS.**

Jacek Niedziela (Zabrze)

• 16:45-17:00 **Pacjent z OZW i ostrą niewydolnością serca.**

Krzysztof Ozierański (Warszawa)

• 17:00-17:15 **Dylematy kliniczne – kiedy PCI?**

Jacek Bil (Warszawa)

• 17:15-17:30 **Dylematy kliniczne: kiedy kardiochirurg?**

Mariusz Kuśmierczyk (Warszawa)

• 17:30-17:45 **Dyskusja i podsumowanie**

## GALAXY 1

- 18:15-19:36 **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)

Panelists: Adam Kern (Olsztyn), Pranas Serpytis (Vilnius)

- 18:15-19:31 **Presentations of Industry Innovations**
- 18:15-18:22 **Meril.** Marcin Protasiewicz (Wrocław)
- 18:22-18:29 **Balmed. TricValve® – Transcatheter Valves System for the treatment of patients with hemodynamically relevant tricuspid insufficiency and caval reflux. Introduction, procedure step-by step, and current clinical data.** Stefano Guarracini (Italy)
- 18:29-18:36 **Siemens Healthineers**
- 18:36-18:43 **Medtronic. Onyx TruCor & TruStar - new players in the DES`s field.** Robert Gil (Warsaw)
- 19:31-19:36 **Take-home message.**  
Marek Grygier (Poznań), Zbigniew Chmielak (Warsaw)

## GALAXY 3

- 18:15-19:45 **My most demanding case in 2021-2022. Session under the patronage of the e-journal Interventional Cardiology Academy in cooperation with Club 30 of the PCS.**

*SESSION IN ENGLISH/POLISH*

- **My best & worst case. Competition for diplomas.**  
Chairmen: Miłosz Jaguszewski (Gdańsk), Arkadiusz Pietrasik (Warsaw)
- 1. **MVD: Expect the unexpected. Triple orbital arterectomy.**  
Łukasz Furtan (Lubin)
- 2. **Sky is the limit for Impella-assisted PCI: 4 technologies, 3 vessels, 2 bifurcations and 1 CTO.** Aleksandra Gąsecka (Warszawa)
- 3. **Can IVL make coronary artery disappear?**  
Mateusz Kaczyński (Warszawa)
- 4. **Sounds Saves Lives.** Adam Janas (Bielsko Biala)
- 5. **Rescue PCI following CABG.** Wojciech Wańha (Katowice)
- 6. **Wstrząs kardiogeny: od IABP przez pompy Impella po przeszczep serca.** Piotr Gajewski (Wrocław)
- 7. **Angioplastyka prawej tętnicy wieńcowej z użyciem litotrypsji i wysokociśnieniowego balonu powikłana perforacją tętnicy, tamponadą i wstrząsem.** Maciej Karwowski (Wejherowo).

19:40 AISN BOARD MEETING/POSIEDZENIE ZARZĄDU AISN PTK – sala STRATUS, 9 ptr.

20:00 KOLACJA / DINNER (RESTAURACJA MIRAGE)

## Thursday, 20th April 2023

### GALAXY 1

- 7:45-9:20 **GENERAL ASSEMBLY OF ACVI PCS**  
**WALNE ZGROMADZENIE 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 IN ENGLISH*

Course Directors: Tomasz Pawłowski (Warsaw) and M. Ferenc (Bad Krozingen)

Scientific Committee: Robert J. Gil (Warsaw), Adam Witkowski (Warsaw), Krzysztof Reczuch (Wrocław), Leszek Bryniarski (Krakow), Sławomir Dobrzycki (Białystok)

- 9:30-11:00 **Session 1. CathLab live case guided session.**

Chairs: Robert J. Gil (Warsaw), Jacek Legutko (Krakow)

Panelists: Adam Kern (Olsztyn), Adam Sukiennik (Bydgoszcz),

### GALAXY 3

- 9:30-11:00 **Session 1. Revascularization in patients with HF: when, whom and which...**

*SESSION IN ENGLISH*

Chairman: Wojciech Wojakowski (Katowice), Adam Witkowski (Warsaw), Jarosław Wójcik (Nałęczów)  
Panelists: Stanisław Bartuś (Kraków), Chmielak (Warszawa), Zoltan Ruzsa (Szeged), Agnieszka Pawlak (Warsaw), Tomasz Hirnle (Białystok)

- 9:30-9:42 **Trials review and current ESC guidelines.**

Paweł Rubiś (Kraków)

- 9:42-9:47 **Discussion**

- 9:47-9:59 **Tissue consequences of acute and chronic myocardial ischemia – hibernation, stun vs viability.**

Jarosław Zalewski (Kraków)

- 9:59-10:04 **Discussion**

### DISCOVERY/CHALLENGER

- **WARCHIP training corner**

Interactions with clinical experts: day with industry experts

- Hands-on & simulators based training including:
- Impella CP & Impella RV – Procardia/Abiomed
- Rotational atherectomy – Boston Scientific
- Orbital Atherectomy – Procardia
- Large bore closure – Manta
- iVAC-2L – Medaccess
- IVUS – Philips Volcano
- OCT Ultreon - Abbott



Valery Gelev (Sofia), Pranas Serpytis (Vilnius)

- 9:30-9:33 **Introduction** by Robert J. Gil
- 9:33-10:03 **Live case – high risk PCI with left ventricular support and atherectomy devices**

Operators: Tomasz Pawłowski, Mirosław Ferenc

- 10:03-10:11 **Low ejection fraction – do they need LVAD?**  
Arkadiusz Pietrasik (Warsaw)
- 10:11-10:19 **Large bore access – tricks.**  
RadosławParma (Katowice)
- 10:19-10:27 **Calcifications – Do they need orbital or rotational atherectomy?**  
Krzysztof Reczuch (Wrocław)
- 10:27-10:35 **Another devices - High pressure & scoring balloons?**  
Maciej Lesiak (Poznań)
- 10:35-10:54 **Which stent for calcified and long lesions?**  
Sławomir Dobrzycki (Białystok)
- 10:43-10:51 **Large bore closure.**  
J. Sacha (Opole)
- 10:51-11:00 **Summary** by J. Legutko (Krakow)

#### • 11:05-12:30 **Session 2. Pro&contra in CHIPs**

Chairman: Wojciech Wojakowski (Katowice), Adam Witkowski (Warsaw), Mirosław Ferenc (Bad Krozingen)

Panelists: Stanisław Bartuś (Kraków), Zbigniew Chmielak (Warszawa), Zoltan Ruzsa (Szeged), Leszek Bryniarski (Krakow), Krzysztof Reczuch (Wrocław)

#### • 11:05-11:25 **Imaging for every calcified lesion!**

Pro – Janusz Kochman (Warsaw)

Contra - Tomasz Roleder (Wroclaw)

#### • 11:25-11:45 **Left main stenting is different in every aspect!**

Pro – Jacek Legutko (Kraków)

Contra – Maciej Lesiak (Poznań)

#### • 11:45-12:05 **CTO PCI is a kind of CHIP procedure!**

Pro – MateuszTajstra (Zabrze)

Contra – Maksymilian Opolski (Warsaw)

#### • 12:05-12:30 **Live case 1. Complex CHIP PCI with LVAD support**

Operators: Tomasz Pawłowski (Warsaw), Łukasz Lewicki (Wejherowo)

#### • 10:04-10:16 **Which parameter is most important regarding selection for revascularization?**

Zoltan Ruzsa (Szeged)

#### • 10:16-10:21 **Discussion**

#### • 10:21-10:33 **Echo Dobutamine, PET, SPECT and cMRI – are they equal?**

Andreas Baumbach (London)

#### • 10:33-10:38 **Discussion**

#### • 10:38-10:50 **Proposal of the algorithm for proper patient`s selection for myocardial revascularization.**

Ravi Nair (Cleveland)

#### • 10:55-11:00 **Discussion & wrap-up**

## Session 2. PCR SESSION @ WCCI 2023

#### • 11:00-12:20 **How Should I treat Cardiogenic Shock in patient with multivessel disease suffering from STEMI?**

*SESSION IN ENGLISH*

Chairmen: Adam Witkowski (Warsaw), Robert J. Gil (Warsaw), Pranas Serpytis (Vilnius)

Panelists: Janusz Kochman (Warsaw), Valery Gelev (Sofia), Miłosz Jaguszewski (Gdańsk)

#### • 11:00-11:05 **Introduction and objectives.**

A. Witkowski

#### • **Case 1 (w/o LM involvement).**

• Speaker 1: Case presentation (5 minutes).

Piotr Desperak (Zabrze)

• Expert 1: How would I treat? (7 minutes).

Leszek Bryniarski (Krakow)

• Expert 2: How would I treat? (7 minutes).

Valery Gelev (Sofia)

• Speaker 1 (5 minutes).

Piotr Desperak (Zabrze)

• Discussion (10 minutes)

• Consensus (5 minutes)

William Wijns (Galway)

#### • **Case 2 (with LM involvement).**

• Speaker 2: Case presentation (5 minutes)

Dobrin Vassiliev (Sofia)

• Expert 1: How would I treat? (7 minutes)

Miłosz Jaguszewski (Gdańsk)

- Expert 2: How would I treat? (7 minutes)  
Jerzy Pręgowski (Warsaw)
- Speaker 2: How did I treat. (5 minutes)  
Dobrin Vassiliev (Sofia)
- Discussion. (10 minutes)
- Consensus (5 minutes).  
R.J. Gil (Warsaw)

12:30-13:30 LUNCH BREAK

## GALAXY 1

### INDUSTRY SPONSORED SESSIONS

- 12:30-13:30 **Boehringer-Ingelheim: Od prewencji do farmakoterapii niewydolności serca**

*SESSION IN POLISH*

Przewodniczący: Agnieszka Pawlak

- Prof. dr hab. n. med. Robert Gil  
**Co kardiolog inwazyjny powinien wiedzieć o SGLT2i?** (15 min)
- Prof. dr hab. n. med. Agnieszka Pawlak  
**Wpływ empagliflozyny na remodelling serca** (15 min)
- Prof. dr hab. n. med. Adam Witkowski  
**Czy w przyszłości będziemy mogli zapobiegać rozwojowi niewydolności serca?** (15 min)
- **Dyskusja** (15 min)

- 13:30-15:00 **Session: Robotic PCI: real need or just invention of bored interventionalist?**

*SESSION IN ENGLISH*

Chairmen: Robert Gil (Warsaw), Dariusz Dudek (Kraków)  
Panelists: Adam Witkowski (Warsaw), Ravi Nair (Cleveland),  
Yves Louvard (Paris), Dobrin Vassiliev (Sofia)

- 13:30-13:45 **Robotic PCI systems: current technology overview (CorPath® GRX&R-One).**  
Dariusz Dudek (Kraków)
- 13:45-14:00 **Robotic-assisted PCI: Clinical evidences.**  
Piotr Waciński (Lublin)
- 14:00-14:15 **The benefits of robotic-assisted PCI: is it real?**  
Andrzej Ochała (Katowice)
- 14:15-14:27 **Live in a box case. R-PCI for mid LAD.**  
Operators: Robert J. Gil (Warsaw), Tomasz Pawłowski (Warsaw)

## GALAXY 3

- 12:30-13:30 **ABBOTT: Advances in the treatment of coronary and structural heart diseases Anno Domini 2023**

*SESSION IN POLISH*

Chairpersons: Prof. Stanisław Bartuś, Prof. Marek Grygier,  
Prof. Wojciech Wojakowski

- **How to Train Your Dragon...Fly OCT system.**  
Prof. Stanislaw Bartuś
- **MitraClip - 15 years of experience, 150k patients treated and COAPT 5- Year Follow up.**  
Prof. Wojciech Wojakowski
- **TriClip - the first choice to treat TR- lessons learned from recent clinical trials.**  
Prof. Marek Grygier
- **Quo vadis 2023...**  
Prof. Stanisław Bartuś, Prof. Marek Grygier, Prof. Wojciech Wojakowski

- 13:30-15:00 **Session 3. Intracoronary visualization – do we have clear recommendation regarding usage of IVUS and OCT?**

*SESSION IN ENGLISH*

Chairmen: Andreas Baumbach (London), Jacek Legutko (Kraków),  
Gary Mintz (New York)  
Panelists: Jerzy Sacha (Opole), Paweł Tyczyński (Warsaw),  
Krzysztof Dyrbuś (Zabrze), Paweł Kleczyński (Kraków)

- 13:30-13:38 **IVUS vs OCT: master position.**  
Gary Mintz (New York)
- 13:38-13:54 **How to perform PCI procedure in patients with acute coronary syndromes with use of:**  
IVUS – Paweł Kleczyński (Kraków)  
OCT – S. Bartuś (Kraków)

- 14:27-14:55 **Live case 2. R-PCI for MVD with iFR/FFR and IVUS guidance**

Operators: Robert J. Gil (Warsaw), Tomasz Pawłowski (Warsaw)

- 14:55-15:00 **Wrap-up.**  
Dariusz Dudek (Kraków)

- 13:54-14:11 **How to use PCI procedure with left main disease with use of:**

IVUS – P. Tyczyński (Warsaw)

OCT – P. Gąsior (Katowice)

- 14:11-14:27 **Complications of PCI: diagnosis and treatment:**  
I prefer IVUS guidance – M. Tajstra (Zabrze)  
I prefer OCT guidance – T. Roleder (Wrocław)

- 14:27-14:55 **Live case 3. R-PCI for MVD with iFR/FFR and IVUS guidance**

Operators: Robert J. Gil, (Warsaw) Tomasz Pawłowski (Warsaw)

- 14:55-15:00 **Wrap-up.**  
Jacek Legutko (Kraków)

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: Invasive Cardiology & Cardiac Surgery & Interventional Cardiology: Are we able to build new recommendations on myocardial revascularizations?**

*SESSION IN ENGLISH/POLISH*

Chairmen: Adam Witkowski (Warsaw), Wojciech Wojakowski (Katowice), Marek Deja (Katowice)

Panelists: Piotr Suwalski (Warsaw), Adam Kern (Olsztyn), Piotr Waciński (Lublin), Paweł Kleczyński (Kraków), Tomasz Hirnle (Białystok)

- 15:15-15:35 **Acute Coronary Syndromes:**
- **Interventionalist point of view.**  
Mateusz Tajstra (Zabrze)
- **Cardiac Surgeon point of view.**  
Tomasz Hirnle (Białystok)
- 15:35-15:55 **Chronic Coronary Syndrome with MVD (w&w/o LM)**
- **Interventionalist point of view.**  
Maciej Lesiak (Poznań)
- **Cardiac Surgeon point of view.**  
Marek Deja (Katowice)
- 15:55-16:15 **The current controversies of Multivessel disease treatment – current update and future trials.**  
Patrick W. Serruys (Galway)

## GALAXY 3

- 15:15-16:45 **Session 4. Mechanical cardiac support in cardiovascular & pulmonary care**

Chairmen: Robert Gil (Warsaw), Konstanty Szułdrzyński (Warsaw)

Panelists: Jacek Legutko (Kraków), Jerzy Sacha (Opole), Stanisław Bartuś (Kraków), Wiktor Kuliczkowski (Wrocław), Ravi Nair (Cleveland)

- 15:15-15:27 **Percutaneous MCS– which is the best for complex PCI & cardiogenic shock?**  
Tomasz Pawłowski (Warsaw)
- 15:27-15:39 **Extracorporeal membrane oxygenation in cardiogenic shock & post cardiectomy syndrome.**  
Piotr Suwalski (Warsaw)
- 15:39-15:51 **Every ECMO therapy needs ventricular venting – how to achieve it – IABP / LVAD.**  
Wiktor Kuliczkowski (Wrocław)
- 15:51-16:03 **VV ECMO and RVAD for pulmonary support – together or not?**  
Konstanty Szułdrzyński (Warsaw)
- 16:03-16:40 **Live case 4. PCI in a patients with severe depressed LV with LVAD support**  
Operators: Tomasz Pawłowski (Warsaw), Janusz Kochman (Warsaw)
- 16:40-16:45 **Wrap-up**



- 16:15-16:35 **Roundtable discussion**
- 16:35-16:45 **Wrap-up** by A. Witkowski (Warsaw)

16:45-17:00 TECHNICAL BREAK

- 17:00- 18:00 **Workshop supported by unrestricted grant from SMT**
  1. SMT introduction movie, 5 min
  2. Cruz in MVD. Patrick W. Serruys (Galway), 20 min
  3. Hydra valve – new option for TAVI. A. Ielasi (Milan), 15 min
  4. Hydra aortic valve and Cruz stent as a combined treatment of patients with aortic stenosis and coronary artery disease AS &MVD. Robert J. Gil, 10 min
  5. Discussion (10 min)

18:00-18:15 BREAK

- 18:15-19:00 **Od zawału do niewydolności serca AD 2023**
  - **Jak poprawić rokowanie pacjenta wg najnowszych doniesień?**
  - Sesja firmy AstraZeneca** – 45 min
  - Prowadzący: prof. dr hab. med. Robert J. Gil
- 18:15-18:30 **Jak poprawić rokowanie pacjenta z OZW w świetle najnowszych danych klinicznych**  
Prof. M. Hawranek (Zabrze)
- 18:30-18:45 **Nowa strategia na poprawę rokowań u pacjentów z niewydolnością serca**  
Prof. A. Pawlak (Warszawa)
- 18:45-19:00 **Dyskusja podsumowująca**

# Friday, 21st April, 2023

## GALAXY 1

### WARSAW CTO SYMPOSIUM (4TH EDITION)

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

• 8:00-10:30 **Morning Session 1 (Scholar Squats)**

Chairs: Paul Knaapen (Amsterdam), Carlo di Mario (Florence)

Panel: Piotr Kwiatkowski (Warsaw), Andrew Lucking (Oxford), Shamim Rahman (Birmingham), Mateusz Tajstra (Zabrze)

• 8:00-8:05 **Opening.**

Adam Witkowski (Warsaw)

• 8:05-8:15 **Easy-peasy: the universal CTO skills for PCI operators.**

Paul Knaapen (Amsterdam)

• 8:15-8:25 **CTO PCI after ISCHEMIA and REVIVED: rise from the ashes?**

Carlo di Mario (Florence)

• 8:25-8:35 **Float like a butterfly, sting like a bee: when to choose polymeric wires?**

Andrew Lucking (Oxford)

• 8:35 **Live Case 1 (National Institute of Cardiology)**

Maksymilian Opolski (Warsaw) – Artur Dębski (Warsaw)  
– Umberto Barbero (Savigliano)

• 9:00 **Live Case 2 (Medical University of Warsaw)**

Gabriele Gasparini (Milano) – Arkadiusz Pietrasik (Warsaw)

10:30-11:00 COFFEE BREAK

• 11:00-13:15 **Morning Session 2 (CTO Crunches)**

Chairs: Pierfrancesco Agostoni (Antwerp), Jo Dens (Genk)

Panel: Jakub Drozd (Lublin)

• 11:00-11:10 **When to stop antegrade wiring?: “The trouble is, you think you have time”.**

Pierfrancesco Agostoni (Antwerp)

• 11:10-11:20 **Difficult ADR: “Just Can’t Get Enough”.**

Jo Dens (Genk)

• 11:20 **Live Case 3 (Military Clinical Hospital in Lublin)**

Alex Nap (Amsterdam) – Grzegorz Sobieszek (Lublin) – Bartosz Zięba (Lublin)

## GALAXY 2

• 08:00-09:00 **Workshop with attorney.**

Warsztaty z prawnikiem.

Prokurator Ewa Kiec, Kierownik Zakładu Szkolenia Biegłych CMKP.

SESSION IN POLISH

• 09:00-18:00 **STRUCTURAL HEART DISEASE INTERVENTIONS**

• 09:00-11:45 **Session 1. Optimizing TAVI procedural and long-term results for life-time patients management**

Chair: Jan Kovac (Leicester), Ariel Finkelstein (Tel Aviv), Dariusz Dudek (Kraków), Dariusz Jagielak (Gdańsk)

Panel: Sławomir Dobrzycki (Białystok), Radosław Parma (Katowice), Marcin Protasiewicz (Wrocław), Marek Grygier (Poznań)

• 09:00-09:40 **Live case 1. Valve in Valve TAVI from NIKARD**

Operators: Adam Witkowski (Warsaw), Maciej Dąbrowski (Warsaw)  
ECHO: Paweł Tyczyński (Warsaw)

• 09:40-09:55 **Optimal technique for TAVI in SAVR and TAVI in TAVI.**

Dariusz Jagielak (Gdańsk)

• 09:55-10:35 **Live case / live in a box case 2. TAVI in Bicuspid Aortic Valve from Central Hospital of MSWiA (Warsaw)**

Operators: Robert J. Gil (Warsaw), Andrzej Ochała (Katowice)

• 10:35-10:50 **Implantation technique in bicuspid aortic valve.**

Corrado Tamburino (Catania)

• 10:50-11:05 **How to preserve coronary access for future interventions in balloon- and self-expandable transcatheter aortic valves?**

Lars Søndergaard (Copenhagen)

• 11:05-11:20 **TAVI in Patients with Previous Mitral Valve Replacement.**

Zbigniew Chmielak (Warsaw)

• 11:20-11:35 **Life journey with TAVI. What we have learned after 20 years and future perspective.**

Eberhard Grube (Bonn)

• 11:35-11:45 **Session wrap-up.**

Ariel Finkelstein (Tel Aviv)

11:45-12:00 COFFEE BREAK

## GALAXY 3

### HIGH-RISK CORONARY INTERVENTIONS, NEW DEVICES, CORONARY AND VALVE COMPLICATIONS

• 09:00-11:45 **Session 1. Left Ventricular Assist Devices**

Chair: Andreas Baumbach (London), Tomasz Hirnle (Białystok),

Marek Gierlotka (Opole), Zoltan Ruzsa (Szeged)

Panel: Zbigniew Chmielak (Warszawa), Jacek Legutko (Kraków), Łukasz Lewicki (Wejherowo), Andrzej Ochała (Katowice)

• 09:00-09:15 **How safely to do a closure of the femoral artery after PCI with percutaneous left ventricular assist device? Lessons learned from valve interventions.**

Jerzy Sacha (Opole)

• 09:15-10:15 **Live case 1. High-risk elective PCI with the assistance of IMPELLA and IVUS-NIRS imaging from University Hospital in Brno.**

Operator: Petr Kala

• 10:15-10:25 **Results and conclusions from the Impella-PL Registry.**

Arkadiusz Pietrasik (Warsaw)

• 10:25-10:35 **How to select a patient for different LVADs? A practical approach.**

Tomasz Pawłowski (Warsaw) (recorded)

• 10:35-11:35 **Live case. High-risk elective PCI with the assistance of IVAC from University Hospital, Cracow**

Operators: Stanisław Bartuś (Kraków), Tomasz Pawłowski (Warsaw)

• 11:35-11:45 **Do we need ECMO in Cath Lab in the era of transcatheter LVADs?**

Stanisław Bartuś (Kraków), (recorded)

• 12:00 **Live Case 4 (National Institute of Cardiology, Warsaw)**

Yoshifumi Kashima (Sapporo) – Paul Knaapen (Amsterdam)

– Maksymilian Opolski (Warsaw)

• 12:00-13:15 **Session 2. Stroke Prevention and Treatment**

*SESSION IN ENGLISH*

Chair: Marek Grygier (Poznań), Zenon Huczek (Warsaw),

Tadeusz Przewłocki (Kraków)

Panel: Grzegorz Smolka (Katowice), Krzysztof Kaczmarek (Łódź),

Łukasz Lewicki (Wejherowo), Tomasz Bochenek (Katowice), Wiktor

Kuliczkowski (Wrocław), Ronen Leker (Jerusalem)

• 12:00-12:35 **Live case 3. LAO from NIKARD**

Operators: Marcin Demkow (Warsaw), Piotr Rudziński (Warsaw)

ECHO: Marek Konka (Warsaw)

• 12:35-12:45 **Left atrial appendage closure for all?**

Marek Grygier (Poznań)

• 12:45-12:55 **Post LAAC treatment in patients with good result, with Device-Related Thrombus, and with para-device Leak.**

Radosław Pracoń (London)

• 12:55-13:05 **Periprocedural stroke during LAA interventions.**

Witold Streb (Zabrze)

• 13:05-13:15 **Intervention in acute stroke.**

Ronen Leker (Jerusalem)

• 12:00-13:15 **Session 2. Percutaneous ablation of hard/calcified coronary plaques**

Chair: Gary Mintz (New York), Petr Kala (Brno), Jacek Legutko (Kraków),

Piotr Waciński (Lublin), Patrick Serruys (Galway)

Panel: Adam Witkowski (Warsaw), Jerzy Sacha (Opole), Krzysztof Re-

czuch (Wrocław), Wojciech Wojakowski (Katowice), Sławomir Dobrzycki

(Białystok)

• 12:00-13:00 **Live case 8 (simultaneous transmission from Warsaw CTO Course). CTO PCI with the use of LVAD from NIKARD (Warsaw)**

Operators: Yoshifumi Kashima (Sapporo) - Paul Knaapen (Amsterdam)

– Maksymilian Opolski (Warsaw)

• 13:00-15:15 **The devices we have on shelf: Rotablation, Orbital Atherectomy, Shockwave Lithotripsy and Laser. The conundrum of appropriate selection.**

Ralf Birkemeyer (Ulm)

**13:15-14:15 LUNCH AND INDUSTRY SPONSORED SESSIONS**

• 14:15-16:30 **Afternoon Session 1 (IVUS Sit Up's)**

Chair: Andrea Gagnor (Turin), Rafał Wolny (Warsaw)

Panel: Pierfrancesco Agostoni (Antwerp), Mihajlo Kovacic (Cakovec),

Grzegorz Mężyński (Białystok), Marek Radomski (Inowrocław)

• 14:15-14:25 **My dear mistress IVUS: Blue eyes are cool, but grey eyes rule.**

Andrea Gagnor (Turin)

• 14:25-14:35 **Mortal combat IVUS Competition.**

Rafał Wolny (Warsaw)

• 14:35 **Live Case 5 (Atlanta, USA)**

Stéphane Rinfret (Atlanta) – William Nicholson (Atlanta)

• 15:10 **Live Case 6 (Military Clinical Hospital in Lublin)**

Gregor Leibundgut (Basel) – Grzegorz Sobieszek (Lublin) – Bartosz

Zięba (Lublin)

• 16:30-17:15 **Afternoon Session 2 (CTO Push-Ups)**

Chair: Leszek Bryniarski (Cracow) / Jarosław Wójcik (Nałęczów)

Panel: Umberto Barbero (Savigliano), Jakub Drozd (Lublin), Mihajlo

Kovacic (Cakovec), Grzegorz Mężyński (Białystok), Shamim Rahman

(Birmingham)

• 14:15-18:00 **Session 3. Mitral and Tricuspid Valve Transcatheter Interventions**

Chair: Ralph Stephan von Bardeleben (Mainz), Dan Haberman (Rehovot),

Jerzy Pręgowski (Warsaw), Adam Witkowski (Warsaw)

Panel: Marek Grygier (Poznań), Patrycjusz Stokłosa (Warsaw), Piotr Wa-

ciński (Lublin), Jarosław Skowroński (Warsaw), Wojciech Wojakowski

(Katowice), Robert Gil (Warsaw), Krzysztof Reczuch (Wrocław)

• 14:15-14:20 **Session key learnings.**

Adam Witkowski (Warsaw)

• 14:20-15:20 **Live / live in a box case 3. Mitral Valve TEER from Warsaw Medical University**

• 15:20-16:20 **Live / live in a box case 4. Tricuspid Valve TEER/TTVR from NIKARD (Warsaw)**

Operators: J. Pręgowski, Adam Witkowski

Echo: P. Stokłosa

• 16:20-16:30 **The assessment of residual mitral and tricuspid regurgitation after TEER. How to understand the 4-tier grading scale?**

Piotr Pysz (Katowice)

• 16:30-16:40 **Comparison of two TEER devices (MitraClip vs Pascal) for mitral and tricuspid regurgitation.**

Jerzy Pręgowski (Warsaw)

• 14:15-16:00 **Session 3. The Most Remarkable Cases**

Chair: Marek Jasiński (Wrocław), Zoltan Ruzsa (Szeged),

Zbigniew Chmielak (Warsaw)

Panel: Dariusz Jagielak (Gdańsk), Krzysztof Reczuch (Wrocław), Piotr

Waciński (Lublin), Piotr Pysz (Katowice), Stanisław Bartuś (Kraków),

Aleksander Araszkiwicz (Poznań)

• 14:15-14:30 **Case 1. TAVI in bicuspid aortic valve.**

Maciej Dąbrowski (Warsaw)

• 14:30-14:40 **Comments** by Dariusz Jagielak (Gdańsk)

• 14:40-14:55 **Case 2.** Robert J. Gil (Warsaw)

• 14:55-15:05 **Comments** by Marek Grygier (Poznań)

• 15:05-15:20 **Case 3.** Radosław Targoński (Gdańsk)

• 15:20-15:30 **Comments** by Piotr Suwalski (Warsaw)

• 15:30-15:45 **Case 4.** Jarosław Trębacz (Kraków)

• 15:45-15:55 **Comments** by Zenon Huczek (Warsaw)

• 15:55-16:00 **Chairmen wrap-up.** Zbigniew Chmielak (Warsaw)

- 16:30-16:40 **Contrast and radiation: I fear more than my wife.**  
Mihajlo Kovacic (Cakovec)
- 16:40-16:50 **Tamponade troubleshooting: “Dress me slowly, I’m in a hurry”.**  
Umberto Barbero (Savigliano)
- 16:50-17:00 **Proctoring in CTO PCI: when the host and the guest meet for a CTO date.**  
Jakub Drozd (Lublin)
- 17:00-17:10 **The KNAP school of CTO PCI: legacy of two “Magicians” from Amsterdam.**  
Shamim Rahman (Birmingham)
- 17:10-17:15 **Closing remarks and adjourn.**  
Maksymilian Opolski (Warsaw)
- 18:00 **CTO Warsaw Challenge Tour** *(by invitation only)*
- 16:40-16:50 **Simultaneous vs. staged TEER repair in patients with concomitant mitral and tricuspid regurgitation.**  
Adam Rdzanek (Warsaw)
- 16:50-17:00 **The long-term management of patients after TEER for functional mitral regurgitation.**  
Aleksandra Mioduszevska (Warsaw)
- 17:00-17:10 **Transcatheter annuloplasty for the treatment of TR.**  
Dan Haberman (Rehovot)
- 17:10-17:20 **TR treatment: early clinical experience with CroiValve.**  
Wojciech Wojakowski (Katowice)
- 17:20-17:30 **The perspectives of repair (TEER) versus replacement for mitral regurgitation.**  
Kazimierz Widenka (Rzeszów)
- 17:30-17:40 **The perspectives of repair (TEER) versus replacement for tricuspid regurgitation.**  
Ralph Stephan von Bardeleben (Mainz)
- 17:40-17:50 **Transcatheter interventions for MR and TR. Perspective of EAPCI.**  
Dariusz Dudek (Kraków)
- 17:50-18:00 **Session wrap-up.**  
Ralph Stephan von Bardeleben (Mainz)