



 **NF**  
**IC** | New Frontiers in  
Interventional Cardiology

## 24<sup>th</sup> Interventional Cardiology Workshop

Dec 13<sup>th</sup>-15<sup>th</sup> 2023

Krakow Poland



Wednesday  
December 13

## New Frontiers in Interventional Cardiology 2023

Wednesday, December 13, 2023

**09:00 - 10:45**

### **Hot topics in the diagnosis and interventional treatment of myocardial infarction Grey Room**

Chairpersons: Marek Gierlotka, Robert Gil, Adnan Kastrati, Jacek Legutko

Panel: Stanisław Bartuś, Dariusz Dudek, Artur Dziewierz, Andrejs Erglis, Michał Hawranek, Ota Hlinomaz, Miłosz Jaguszewski, Elvin Kedhi, Paweł Kleczyński, Tomasz Roleder, Zoltan Ruzsa, Adam Witkowski

09:00 - 09:15

#### **KEYNOTE LECTURE**

**Adam Witkowski**

Key messages for interventional cardiologist from the 2023 ESC Guidelines for the management of acute coronary syndromes

09:15 - 09:25

**Jacek Legutko**

Intravascular imaging in acute coronary syndromes - PCI guidance and beyond

09:25 - 10:35

#### **GREAT DEBATE ON THE TREATMENT OF PATIENTS WITH AMI AND MULTIVESSEL DISEASE**

09:25 - 09:35

**Adnan Kastrati**

Timing of Complete Revascularization with Multivessel PCI in STEMI - MULTISTARS AMI trial and beyond

09:35 - 09:40

Panel discussion

09:40 - 09:50

**Dariusz Dudek**

Complete or Culprit-Only PCI in Older Patients with Myocardial Infarction - FIRE trial and beyond

09:50 - 09:55

Panel discussion

09:55 - 10:25 Recorded case presentation and moderated panel discussion

Operators: **Jacek Legutko, Tomasz Roleder, Paweł Kleczyński, Piotr Szolc** (Saint John Paul II Hospital, Krakow)

Non-culprit vessels assessment and PCI in patient with AMI and multivessel disease

10:25 - 10:40

**Elvin Kedhi**

Should we use physiology, intravascular imaging or both to guide non-culprit vessel PCI in myocardial infarction – COMBINE INTERVENE trial and beyond



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10:40 - 10:45

**Robert Gil**

Session summary and take-home message

**10:45 - 11:45**

**Controversies and dilemmas in antiplatelet management of coronary artery disease**

*Session organized thanks to unrestricted educational grant from Berlin-Chemie Menarini*

**Grey Room**

Chairpersons: Robert Gil, Jacek Legutko

Panel: Adnan Kastrati, Janusz Kochman, Tomasz Rakowski

10:45 - 10:50

**Jacek Legutko**

Introduction and session objectives

10:50 - 11:02

**Tomasz Rakowski**

To pretreat or not to pretreat in acute coronary syndromes, that is the question

11:02 - 11:05

Panel discussion

11:05 - 11:17

**Janusz Kochman**

When and why prasugrel should be used in preference to ticagrelor

11:17 - 11:20

Panel discussion

11:20 - 11:35

**Adnan Kastrati**

Potent P2Y12 inhibitor monotherapy – current evidence and future directions

11:35 - 11:40

Panel discussion

11:40 - 11:45

**Robert Gil**

Session summary and take-home messages



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**12:00 - 13:45**

**Hot topics in the diagnosis and interventional treatment of cardiogenic shock**  
**Grey Room**

Chairpersons: Stanisław Bartuś, Alaide Chieffo, Jerzy Sacha, Agnieszka Tycińska

Panel: Dariusz Dudek, Marek Gierlotka, Robert Gil, Ota Hlinomaz, Adnan Kastrati, Marta Kałużna-Oleksy, Paweł Kleczyński, Janusz Kochman, Wiktor Kuliczkowski, Arkadiusz Pietrasik, Zoltan Ruzsa, Łukasz Rzeszutko

12:00 - 12:20

**KEYNOTE LECTURE**

**Alaide Chieffo**

Short-term mechanical circulatory support in cardiogenic shock and high-risk PCI – current recommendations and future perspectives

12:20 - 12:30

**Arkadiusz Pietrasik, Janusz Kochman**

Short-term circulatory support for cardiogenic shock and high-risk PCI – the IMPELLA PL registry

12:30 - 13:00 Recorded case presentation and moderated panel discussion

Operators: **Stanisław Bartuś, Artur Pawlik** (University Hospital, Krakow)

High-risk PCI with pLVAD in patient with myocardial infarction

13:00 - 13:10

**Wiktor Kuliczkowski**

Cardiogenic shock center and network – the Wrocław experience

13:10 - 13:20

**Ota Hlinomaz**

Cardiogenic shock center and network – Bratislava and Brno experience

13:20 - 13:35

**Robert Gil**

How to organize national network of specialized cardiogenic shock centers in Poland - panel discussion and take-home messages

13:35 - 13:45

Discussion



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**13:45 - 14:45**

**Dożylne leki przeciwpłytkowe w ostrych zespołach wieńcowych**  
*Session organized thanks to unrestricted educational grant from Ferrer*  
**Grey Room**

Przewodniczący: Mariusz Gąsior, Robert Gil

Panel: Artur Dziewierz, Maciej Lesiak, Wiktor Kuliczkowski

13:45 - 14:00

**Artur Dziewierz**

Aktualne wskazania do zastosowania inhibitorów GP IIb/IIIa

14:00 - 14:15

**Maciej Lesiak**

Kangrelor – optymalizacja leczenia przeciwpłytkowego ostrych zespołów wieńcowych

14:15 - 14:30

**Wiktor Kuliczkowski**

Przypadek kliniczny

14:30 - 14:45

Dyskusja

**15:00 - 16:30**

**Interventional treatment of acute pulmonary embolism and acute stroke:  
new documents, new treatment approaches**  
**Grey Room**

Chairpersons: Dariusz Dudek, Grzegorz Kopeć, Piotr Musiałek, Marek Roik

Panel: Aleksander Araszkiwicz, Artur Dziadkiewicz, Marek Grabka, Wiktor Kuliczkowski,  
Rafał Niżankowski, Arkadiusz Pietrasik, Jakub Stępniewski, Wojciech Zajdel

15:00 - 15:03

**Anna Podlasek**

Acute stroke and interventions: Key language

15:04 - 15:09

**Iris Q Grunwald**

Training to perform stroke interventions: WIST Guidelines

15:10 - 15:15

**Adnan H. Siddiqui**

Interventions in acute stroke: What is new in 2023/2024

15:15 - 15:19

**Artur Dziadkiewicz**

Neurologist and interventionist: What is needed for effective collaboration?



15:20 - 15:24

**Piotr Musiałek**

Prevention of carotid-related stroke: The ESC 2023 Consensus Document

15:25 - 15:30

**Łukasz Tekieli**

Acute embolic stroke as a complication of acute PE

15:30 - 15:40

**Arkadiusz Pietrasik**

Current strategies for assessing the risk of early death in pulmonary embolism

15:40 - 15:50

**Grzegorz Kopec**

Who is eligible for interventional treatment of acute pulmonary embolism

15:50 - 16:00

**Aleksander Araszkiwicz**

The role of PERT teams in qualification for interventional treatment of acute pulmonary embolism

16:00 - 16:10

**Marek Roik**

A patient of intermediate - high risk of death treated with a transcatheter method - a clinical case

16:10 - 16:20

**Jakub Stępniewski**

A patient with a high risk of death treated with a transcatheter method - a clinical case

16:20 - 16:30

Discussion

**16:45 - 17:45**

**Agresywne obniżanie cholesterolu w prewencji wtórnej – czas na działanie!**

*Session organized thanks to unrestricted educational grant from Sanofi*

**Grey Room**

Przewodniczący: Dariusz Dudek, Robert Gil, Jacek Legutko, Tomasz Roleder

16:45 - 16:50

**Jacek Legutko**

Wprowadzenie - aktualne wytyczne i ich realizacja w warunkach polskich

16:50 - 17:00

**Tomasz Roleder**

Dlaczego agresywne obniżanie cholesterolu LDL poprawia rokowanie chorych?

17:00 - 17:10

**Dariusz Dudek**

Czy agresywne obniżanie cholesterolu jest bezpieczne – fakty i mity



17:10 - 17:20

**Robert Gil**

Nowe możliwości optymalizacji leczenia w prewencji wtórnej – programy lekowe, KOS-LIPID

17:20 - 17:45

Dyskusja

**18:00 - 19:30**

**Case Review Session**

Emergencies in the cathlab (AMI, CS, PE & AS)

My best case or worst complication

**Grey Room**

Chairpersons: Michał Hawranek, Marcin Nosal, Tadeusz Przewłocki, Tomasz Rakowski, Jerzy Sacha

18:00 - 18:10

**Maria Bober-Fotopoulos**

Who is the best candidate for Lifevest?

18:10 - 18:18

**Sylwia Sławek-Szmyt**

When satisfying clot debulking is not enough in intermediate high-risk pulmonary embolism?

18:18 - 18:26

**Piotr Zając**

Balloon plaque modification with following reversed culotte stenting for the treatment of acute coronary syndrome

18:26 - 18:34

**Sylwia Iwańczyk**

Patient who underwent elective "protected" high-risk percutaneous coronary intervention (PCI) utilizing Impella CP

18:34 - 18:42

**Michalina Jelonek**

Different approach to the Treatment of the Vasospastic Angina - a Thoracic Sympatectomy

18:42 - 18:50

**Mikołaj Derewońko**

Thoracic Sympatectomy as a Treatment of the Patient with Vasospastic Angina Presented with Myocardial Infarction and Non-Obstructive Coronary Arteries (MINOCA)

18:50 - 18:58

**Wojciech Wąsek**

The usefulness of the angioplasty wire's steerable micro guide for anatomically demanding ostial lesions

18:58 - 19:06

**Oscar Rakotoarison**

Emergency management of severe aortic stenosis complicated by cardiogenic and septic shock



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19:06 - 19:14

**Kamil Ciapała**

SCAD complicated by ICAD - rescue PCI in anterior wall STEMI

19:14 - 19:22

**Arkadiusz Pietrasik**

Percutaneous recanalization of pulmonary veins occlusion after radiofrequency ablation of AF

19:22 - 19:30

Discussion





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## New Frontiers in Interventional Cardiology 2023 Workshops

### Warsztaty Echokardiograficzne Green Room

9:00 – 11:15

Advanced Echocardiographer Workshop  
Warsztaty z zastosowaniem stacji EchoPack GE

9:00 - 9:45

**Jarosław Kasprzak**

Ocena prawej komory i zastawki trójdzielnej - od podstaw w 2D do zaawansowanej analizy w 3D

9:45 - 10:30

**Witold Streb**

Niedomykalność mitralna - ocena istotności od podstaw do analizy 3D

10:30 - 11:15

**Danuta Sorysz**

Wada aortalna - ocena istotności od podstaw do analizy 3D

### Warsztaty Echokardiograficzne Obrazowanie w chorobach strukturalnych

11:30 - 12:45

Wady zastawkowe – ocena istotności podstawą w kwalifikacji zabiegowej

Przewodniczący: Andrzej Gackowski, Danuta Sorysz, Jarosław Kasprzak

11:30 - 11:45

**Karolina Golińska-Grzybała**

Niedomykalność mitralna- interpretacja TTE oraz kiedy i jak TEE pomoże w ocenie istotności wady

11:45 - 12:00

**Maciej Stąpór**

Stenoza aortalna- interpretacja TTE oraz kiedy i jak TEE pomoże w ocenie istotności wady

12:00 - 12:15

**Danuta Sorysz**

Wady złożone i wielozastawkowe – jak oceniać i jak interpretować parametry echokardiograficzne

12:15 - 12:30

**Jarosław Kasprzak**

Niedomykalność trójdzielna – interpretacja TTE oraz czy TEE pomoże w ocenie istotności wady

12:30 - 12:45

Dyskusja



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13:00 - 14:30

## Zabiegi strukturalne w prewencji udaru

Przewodniczący: Monika Komar, Jarosław Kasprzak, Witold Streb

13:00 - 13:15

**Paweł Wrona**

Wskazania neurologiczne do przeskórnego zamknięcia PFO

13:15 – 13:30

**Danuta Sorysz**

Diagnostyka PFO - Tips and Trics

13:30 - 13:45

**Witold Streb**

Wskazania do przeskórnego zamknięcia uszka LP

13:45 - 14:00

**Monika Komar**

Ocena uszka lewego przedsionka przed kardiowersją, ablacją i przeskórnym zamknięciem

14:00 - 14:15

**Andrzej Gackowski**

Monitorowanie nakłucia przegrody mp - praktyczne zastosowanie symulatora

14:15 - 14:30

Dyskusja

14:30 - 15:30

**Sesja przypadków Echokardiograficznych**

Od ciekawostek z pracowni echokardiografii do horroru na sali zabiegowej

Przewodniczący: Monika Komar, Danuta Sorysz, Dominika Dykla, Andrzej Gackowski

15:30 - 18:00

**Training Village - od anatomii do interwencji**

**LAA, PFO, ASD**

**Digital Village**

Przewodniczący: Andrzej Gackowski, Danuta Sorysz, Maciej Stąpór

Anatomia serca w kontekście zabiegów LAAC, ASD, PFO oraz punkcji transeptalnej – pokaz na preparatach zwierzęcych

Ćwiczenia z echokardiografii interwencyjnej - symulator MrTEEmothy

Urządzenia wszczepialne od firm: Watchman, Amulet, Amplatzer, MitraClip, TAVI



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**12:45-14:45**

**Complex techniques for bifurcation lesions treatment  
Hands-on training using simulation**

Chairpersons: Kamil Bujak, Rosella Ruggiero

12:45 - 13:15

Introduction. Indications for provisional stenting / 2-stent techniques. Step by step theory and procedural scenarios.

13:15 - 14:35

Hands-on training with proctor. 2 teams switch between 2 stations:

Station 1 – up to 5 participants

Provisional & 2-stent techniques on digital simulator (Mentice)

Station 2 – up to 5 participants

Provisional & 2-stent techniques on flow simulator (VIRMED). IVUS imaging for procedural guidance with detailed IVUS interpretation

14:35 - 14:45

Session summary

**14:45 - 16:45**

**Warsztaty z tomografii komputerowej tętnic wieńcowych  
Jak współcześnie diagnozować chorobę wieńcową i optymalizować rewaskularyzację  
*Session organized by Siemens Healthineers*  
**Orange Room****

Przewodniczący: Cezary Kępka, Mariusz Kruk

Tomografia komputerowa tętnic wieńcowych - kiedy i u kogo obecnie używać tej metody?

Decyzje kliniczne i ocena ryzyka - czy dane z typowego raportu z badania są wystarczające?

Optymalizacja zabiegów PCI w oparciu o badanie TK - interpretacja wyniku badania okiem kardiologa interwencyjnego

Część praktyczna - praca przy stacjach roboczych



Thursday  
December 14

## New Frontiers in Interventional Cardiology 2023

Thursday, December 14, 2023

**08:30 - 10:15**

### **Complex High-Risk Indicated PCI: CHIP Summit at NFIC'2023**

**Part 1 – Left main and bifurcation PCI optimization**

*Session organized in cooperation with the European Bifurcation Club*

**Grey Room**

Chairpersons: Robert Gil, Jacek Legutko, Maciej Lesiak, Goran Stankovic

Panel: Paweł Buszman, Bernardo Cortese, Andrejs Erglis, Miroslaw Ferenc, Michał Hawranek, Ota Hlinomaz, Sylwia Iwańczyk, Paweł Kleczyński, Łukasz Kołtowski, Zoltan Ruzsa, Łukasz Rzeszutko, Adam Witkowski

08:30 - 08:45

#### **KEYNOTE LECTURE**

**Goran Stankovic**

Left main and bifurcation PCI optimization in 2024 - European Bifurcation Club perspective

08:45 - 09:15

GREAT DEBATE ON INTRAVASCULAR IMAGING IN LEFT MAIN AND BIFURCATION PCI

08:45 - 08:55

**Robert Gil**

Left main and bifurcation PCI - evidence-based indications for intravascular imaging guidance

08:55 - 09:02

**Andrejs Erglis**

Pros and cons for IVUS in left main and bifurcation PCI

09:02 - 09:09

**Łukasz Kołtowski**

Pros and cons for OCT in left main and bifurcation PCI

09:09 - 09:15

Panel discussion and consensus

09:15 - 09:45 Recorded case presentation and moderated panel discussion

Operators: **Jacek Legutko, Paweł Kleczyński, Łukasz Niewiara** (Saint John Paul II Hospital, Krakow)

Imaging-guided Left main PCI

09:45 - 09:55

**Maciej Lesiak**

Techniques to preserve access to the side branch during stepwise provisional stenting – key recommendations from the 17<sup>th</sup> Consensus of the European Bifurcation Club

09:55 - 10:00

Panel discussion



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10:00 - 10:10

**Bernardo Cortese**

Current evidence and future perspectives for the use of DCB for LM and non-LM bifurcation PCI optimization

10:10 - 10:15

**Jacek Legutko**

Session summary and take-home-message

10:30 - 11:15

**Integrating physiology and IVUS for PCI optimization**

*Session organized thanks to unrestricted educational grant from Philips*

**Grey Room**

Chairpersons: Robert Gil, Goran Stankovic

Panel: Paweł Kleczyński, Jacek Legutko, Tomasz Pawłowski

10:30 - 10:35

**Paweł Kleczyński**

Case presentation

10:35 - 10:45

**Panel discussion**

How to plan and perform PCI in this case?

10:45 - 10:55

**Jacek Legutko**

My practical tips and tricks for physiology-guided PCI

10:55 - 11:05

**Tomasz Pawłowski**

My practical tips and tricks for IVUS-guided PCI

11:05 - 11:10

**Paweł Kleczyński**

How did I treat my patient

11:10 - 11:15

Panel discussion and take-home messages



Thursday  
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**11:15 - 13:00**

**Complex High-Risk Indicated PCI: CHIP Summit at NFIC'2023**  
Part 2 – Current options to optimize PCI of heavily calcified lesions  
*Session organized in cooperation with the Euro4C-PCR group*  
**Grey Room**

Chairpersons: Andrejs Erglis, Miroslaw Ferenc, Jacek Legutko, Krzysztof Reczuch

Panel: Emanuele Barbato, Stanisław Bartuś, Bernardo Cortese, Dariusz Dudek, Michał Hawranek, Paweł Kleczyński, Andrzej Ochała, Yoshinobu Onuma, Tomasz Pawłowski, Zoltan Ruzsa, Łukasz Rzeszutko, Wojciech Zajdel

11:15 - 11:30

**KEYNOTTE LECTURE I**

**Krzysztof Reczuch**

Management strategies for heavily calcified coronary stenoses – key recommendations from EAPCI and Euro4C-PCR group

11:30 - 11:40

**Yoshinobu Onuma**

How to assess calcified lesions before PCI – from CCTA to intravascular imaging

11:40 - 11:50

**Zoltan Ruzsa**

Advantages and disadvantages of dedicated balloons including IVL

11:50 - 12:00

**Miroslaw Ferenc**

Orbital or rotational atherectomy, that is the question

12:00 - 12:10

**Tomasz Pawłowski**

Is uncrossable lesion the only one indication for ELCA?

12:10 - 12:40 Recorded case presentation and moderated panel discussion

Operators: **Jacek Legutko, Paweł Kleczyński, Piotr Szolc** (Saint John Paul II Hospital, Krakow)  
Complex PCI of calcified coronary lesion

12:40 - 12:55

**KEYNOTTE LECTURE II**

**Emanuele Barbato**

How to avoid and manage the most common complications of PCI in calcified vessels?

12:55 - 13:00

**Michał Hawranek**

Session summary and take-home-message



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**13:15 - 14:00**

**New solutions to optimize outcomes in coronary artery disease**

*Session organized thanks to unrestricted educational grant from Procardia*

**Grey Room**

Chairpersons: Stanisław Bartuś, Jacek Legutko, Wojciech Wojakowski

Panel: Krzysztof Bryniarski, Tomasz Roleder, Michał Kidawa, Piotr Rola

13:15 - 13:20

**Jacek Legutko**

Session introduction

13:20 - 13:27

**Piotr Rola**

My personal indications and experience with orbital atherectomy - case based

13:27 - 13:34

**Michał Kidawa**

My personal indications and experience with orbital atherectomy - case based

13:34 - 13:41

**Tomasz Roleder**

In search of vulnerable plaque - NIRS

13:41 - 13:48

**Krzysztof Bryniarski**

In search of vulnerable plaque - OCT

13:48 - 13:55

**Wojciech Wojakowski**

What are the options to treat vulnerable plaques in 2024?

13:55 - 14:00

**Jacek Legutko**

Session summary and take-home messages

**14:00 - 15:15**

**CHIP Summit at NFIC'2023**

**Part 3 - New PCI techniques to lower contrast use & radiation and updates on CTO**

**Grey Room**

Chairpersons: Maciej Lesiak, Maksymilian Opolski, Jerzy Sacha, Jarosław Wójcik

Panel: Leszek Bryniarski, Roberto Diletti, Jakub Drozd, Paweł Kleczyński, Andrzej Ochała, Tomasz Pawłowski, Marek Radomski, Łukasz Rzeszutko, Daniel Rzeźnik, Sławomir Surowiec, Mateusz Tajstra, Piotr Wańczura



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14:00 – 14:20

**Roberto Diletti**

Retrograde approach - tips and tricks

14:20 - 14:45 Recorded case presentation and moderated panel discussion

Operators: **Leszek Bryniarski, Roman Wojdyła** (University Hospital, Krakow)

Antegrade or retrograde - that is the question

14:45 - 14:55

**Dariusz Dudek**

Lower contrast use with advanced imaging to optimize PCI outcome

14:55 - 15:15 Recorded case presentation and moderated panel discussion

Operators: **Dariusz Dudek, Aleksander Zeliaś, Grzegorz Smoter, Nina Kudełko** (Clinical Research Center, Intercard, Kraków; Center for Invasive Cardiology Electrotherapy and Angiology, Nowy Sącz, Poland)

Complex PCI with low contrast use and intracoronary imaging

**15:30 - 16:30**

**Growing evidence for the effectiveness of ultrathin struts DES in complex PCI**

*Session organized thanks to unrestricted educational grant from SMT Polonia*

**Grey Room**

Chairpersons: Dariusz Dudek, Jacek Legutko, Maciej Lesiak, Patrick W. Serruys

15:30 - 15:50

**FEATURED LECTURE**

**Patrick W. Serruys**

Continuous progress in percutaneous revascularization of multivessel disease - from SYNTAX to Multivessel TALENT trial

15:50 - 16:00

**Jacek Legutko**

Contemporary complex PCI with ultrathin struts DES – Multivessel TALENT case presentation

16:00 - 16:10

**Dariusz Dudek**

The reasons behind FIRE Trial success

16:10 - 16:20

**Maciej Lesiak**

PCI with ultrathin struts DES in patients at high bleeding risk – rationale and design of the MATRIX-2 trial

16:20 - 16:30

Discussion and take-home message





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**15:30 - 16:30**

**Sesja dla Pielęgniarek i Techników  
Green Room**

Przewodniczący: Beata Lech, Ewa Węglarz, Marcin Wizimirski, Agnieszka Zwolińska

15:30 - 15:40

**Krystyna Czapla**

Co należy sprawdzić przed przystąpieniem do procedury hemodynamicznej

15:40 - 15:50

**Łukasz Niewiara**

FFR, IFR, IVUS- fizjologiczna ocena naczyń wieńcowych.

15:50 - 16:00

**Piotr Szolc**

Niedokrwienie bez zwężeń w tętnicach wieńcowych (INOCA) – diagnostyka inwazyjna i dalsze postępowanie po rozpoznaniu

16:00 - 16:10

**Ewa Węglarz**

Nowoczesna hemodynamika to pracownia interdyscyplinarna- rola i zadania technika oraz pielęgniarki

16:10 - 16:20

**Renata Gil**

Kwalifikacja, przygotowanie pacjenta oraz postępowanie pielęgniarskie po zabiegach TAVI i Mitraclip

16:20 - 16:30

Dyskusja

**16:30 - 18:15**

**Coronary Computed Tomography Angiography (CCTA)  
for cardiologists and cardiac surgeons with focus on preprocedural planning  
Digital cardiology and updates on robotic PCI  
Grey Room**

Chairpersons: Dariusz Dudek, Cezary Kępką, Patrick W. Serruys, Wojciech Wojakowski

Panel: Alessandro Beneduce, Carlos Collet, Janusz Konstanty-Kalandyk, Mariusz Kruk, Maciej Krupiński, Jacek Legutko, Łukasz Niewiara, Yoshinobu Onuma, Jacek Piątek, Adriana Złahoda-Huzior

16:30 - 16:40

**Łukasz Kołtowski, Dariusz Dudek**

The artificial intelligence in clinical use – practical cases

Prepared in cooperation with Members of ESC Digital Health Committee

16:40 - 16:55

**KEYNOTE LECTURE**

**Patrick W. Serruys**

Cardiac CT – state of the art



16:55 - 17:10 Recorded case presentation and moderated panel discussion  
Operators: **Dariusz Dudek, Aleksander Zeliaś, Adriana Złahoda-Huzior** (Clinical Research Center, Intercard, Kraków; Center for Invasive Cardiology Electrotherapy and Angiology, Nowy Sącz, Poland)  
CT-guided PCI

17:10 - 17:25 Recorded case presentation and moderated panel discussion  
Presenters: **Dariusz Dudek, Klaudia Proniewska, Janusz Konstanty-Kalandyk, Jacek Piątek, Aleksander Zeliaś, Adriana Złahoda-Huzior**  
(Center of Digital Medicine and Robotics UJCM in cooperation with Saint John Paul II Hospital, UJCM, Krakow, Poland and AGH University of Science and Technology)  
Virtual Heart Team based on 3D CT holography before bypass surgery

17:25 - 17:35  
**Yoshinobu Onuma**  
FASTTRACK CABG - CT guidance for CABG

17:35 - 17:45  
**Łukasz Kołtowski**  
CT-guided PCI in relations to P4 study

17:45 – 18:00  
**Tsung-Ying Tsai**  
Mixed Reality imaging data evaluation for complex procedures' guidance: experience from corelaboratory perspective

18:00 - 18:15 Recorded case presentation and moderated panel discussion  
Operators: **Dariusz Dudek, Aleksander Zeliaś, Adriana Złahoda-Huzior** (Clinical Research Center, Intercard, Kraków; Center for Invasive Cardiology Electrotherapy and Angiology, Nowy Sącz, Poland)  
CT-guided robotic PCI

**18:30 - 20:00**

**Case Review Session**

**Complex PCI and structural interventions**

**My best case or worst complication**

**Grey Room**

Chairpersons: Alessandro Beneduce, Marcin Demkow, Dariusz Dudek, Paweł Kleczyński, Jerzy Sacha, Jerzy Sadowski, Tadeusz Przewłocki, Piotr Wańczura

18:30 - 18:40  
**Ewa Kwiatkowska**  
Primary Leiomyosarcoma in the Right Ventricle of the Heart

18:40 - 18:50  
**Szymon Król**  
Problems with femoral access during PCI using large-bore access



Thursday  
December 14

18:50 - 19:00

**Anna Dąbrowska**

Eozynofilowa ziarniniakowatość z zapaleniem naczyń jako przyczyna problemów kardiologicznych - opis przypadku

19:00 - 19:10

**Natalia Janik**

Aortic valve stenosis after Ross procedure - TAVI valve-in-valve indications

19:10 - 19:20

**Maciej Mazurek**

Combined chimney stenting and valve fracturing during TAVI valve-in-valve

19:20 - 19:30

**Kornél Kákonyi**

Unlucky Biopsy, IVUS guided right coronary artery recanalization of occlusive dissection in a young patient

19:30 - 19:40

**Michał Kosowski**

Cardiogenic shock, severe mitral regurgitation, mechanical circulatory support and transcatheter mitral edge-to-edge repair – a tale of two (not so) similar cases

19:40 - 19:50

**Paweł Tyczyński**

Pitfalls of percutaneous mitral balloon valvuloplasty

19:50 - 20:00

Discussion



Thursday  
December 14

## **New Frontiers in Interventional Cardiology 2023 Workshops**

**11:00 - 14:15**

### **Immersion in holographic human heart anatomy Digital Village**

Chairpersons: Dariusz Dudek, Klaudia Proniewska, Julianna Dąbrowa

11:00 - 11:45

Immersion in holographic human heart anatomy- HoloAnatomy® Software Suite-Hololens 2  
Mixed reality hands-on

12:15 - 13:00

Immersion in holographic human heart anatomy- HoloAnatomy® Software Suite-Hololens 2  
Mixed reality hands-on

13:30 - 14:15

Immersion in holographic human heart anatomy- HoloAnatomy® Software Suite-Hololens 2  
Mixed reality hands-on

**13:15 - 15:15**

### **Warsztaty z tomografii komputerowej tętnic wieńcowych Jak współcześnie diagnozować chorobę wieńcową i optymalizować rewaskularyzację**

*Session organized by Siemens Healthineers*

**Orange Room**

Przewodniczący: Cezary Kępka, Mariusz Kruk, Maksymilian Opolski

Tomografia komputerowa tętnic wieńcowych - kiedy i u kogo obecnie używać tej metody?

Decyzje kliniczne i ocena ryzyka - czy dane z typowego raportu z badania są wystarczające?

Optymalizacja zabiegów PCI w oparciu o badanie TK - interpretacja wyniku badania okiem kardiologa interwencyjnego

Część praktyczna - praca przy stacjach roboczych



Thursday  
December 14

**15:00 - 17:00**

**Complex techniques for bifurcation lesions treatment  
Hands-on training using simulation**

Chairpersons: Allesandro Beneduce, Kamil Bujak

15:00 - 15:30

Introduction. Indications for provisional stenting / 2-stent techniques. Step by step theory and procedural scenarios

15:30 - 16:50

Hands-on training with proctor. 2 teams switch between 2 stations:

Station 1 – up to 5 participants

Provisional & 2-stent techniques on digital simulator (Mentice)

Station 2 – up to 5 participants

Provisional & 2-stent techniques on flow simulator (VIRMED). IVUS imaging for procedural guidance with detailed IVUS interpretation

16:50 - 17:00

Session summary



Friday  
December 15

## New Frontiers in Interventional Cardiology 2023

Friday, December 15, 2023

**8:15 - 9:00**

**Spotkanie Kierowników Pracowni Hemodynamicznych  
Green Room**

**9:00 - 10:00**

**Multimodality imaging PCI - applying evidence to clinical practice**  
*Session organized in cooperation with the PTK Club 30*  
**Green Room**

Chairpersons: Dariusz Dudek, Mariusz Kruk, Wojciech Wojakowski

Panel: Krzysztof Bryniarski, Łukasz Niewiara, Łukasz Rzeszutko

9:00 - 9:10

**Paweł Gąsior**

Intravascular imaging-guided PCI

9:10 - 9:20

**Mariusz Tomaniak**

Physiology-guided PCI

9:20 - 9:30

**Aleksander Zeliaś**

CCTA-guided PCI

9:30 - 9:40

**Kamil Bujak**

Multimodality imaging - guided PCI: case presentation

9:40 - 10:00

Cased-based discussion: tips and tricks from the masters

Moderation: **Dariusz Dudek**

**10:15 - 11:45**

**Heart Team summit @ NFIC 2023**

**Focus on aortic valve interventions and coronaries with the TAVIaccess Focus Group  
Green Room**

Chairpersons: Dariusz Dudek, Francesco Giannini, Janusz Kochman, Wojciech Wojakowski

Panel: Alessandro Beneduce, Zenon Huczek, Dariusz Jagielak, Arif Khokhar, Piotr Kubler,  
Piotr Olszówka, Grzegorz Smolka, Robert Sobczyński, Giuseppe Tarantini, Jarosław Trębacz, Adriana  
Złahoda-Huzior



Friday  
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10:15 - 10:25

**Giuseppe Tarantini**

The most challenging cases of coronary angio after TAVI - how to approach?

10:25 - 10:35

**Aleksander Zeliaś**

My difficult case with coronary access and TAVI in real life

10:35 - 11:05

**Arif Khokhar, Alessandro Beneduce, Jonathan Curio, Adriana Złahoda-Huzior, Francesco Giannini, Ole De Backer, Dariusz Dudek**

Step by step coronary access in TAVI and TAVI-SAVR

Case presentations by the TAVIaccess Focus Group

11:05 - 11:15

**Alessandro Beneduce**

BASILICA or CHIMNEY or NOTHING for cases with high risk anatomy?

11:15 - 11:25

**Zenon Huczek**

What is my expectation based on ViV Registry in Poland

11:25 - 11:35

**Dariusz Jagielak**

What is my approach with TAVI when I have large aortic annulus > 30 mm?

11:35 - 11:45

**Grzegorz Smolka**

Percutaneous closure of PVLs

**12:00 - 13:00**

**Life time management of aortic stenosis**

*Session organized thanks to unrestricted educational grant from Medtronic*

**Green Room**

Chairpersons: Dariusz Dudek, Piotr Olszówka

Panel: Marek Grygier, Michał Hawranek, Zenon Huczek, Adriana Złahoda-Huzior

12:00 - 12:15

**Zenon Huczek**

TAVI life time management

12:15 - 12:30

**Dariusz Dudek**

New clinical strategies in patients with Coronary Artery Disease

12:30 - 12:45

**Adriana Złahoda-Huzior**

3D CT modeling to facilitate coronary access after TAVI in pts with difficult anatomy

12:45 - 13:00

Panel discussion



Friday  
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**13:15 - 15:15**

**Heart Team summit @ NFIC 2023**

**Innovative structural interventions with focus on coronaries,  
mitral / tricuspid valve in Heart Failure**

**Green Room**

Chairpersons: Eric van Belle, Dariusz Dudek, Andrzej Gackowski, Wojciech Wojakowski

Panel: Marek Grygier, Jan Hecko, Zenon Huczek, Jaroslav Januska, Dariusz Jarek, Jacek Legutko, Andrzej Ochała, Yoshinobu Onuma, Piotr Olszówka, Radosław Parma, Edward Pietrzyk, Adam Rdzanek, Jarosław Trębacz

13:15 - 13:25

**Aleksandra Gąsecka-van der Pol**

Optimal pharmacotherapy in Heart Failure

13:25 - 13:35

**Mariusz Kruk**

CCTA or invasive coronary angiography in patients with HF

13:35 - 13:45

**Eric van Belle**

Is it time for head-to-head comparisons between TAVI devices?

13:45 - 13:57 Recorded case presentation and moderated panel discussion

Operators: **Jarosław Trębacz, Andrzej Gackowski, Maciej Stąpór, Karolina Golińska-Grzybała** (Saint John Paul II Hospital, Krakow)

Percutaneous treatment of the severe mitral regurgitation

13:57 - 14:09 Recorded case presentation and moderated panel discussion

Operators: **Jaroslav Januska** (Podlesi Hospital, Trnienec, Czech Republic)

Percutaneous treatment in mitral & Tricuspid

14:09 - 14:19

**Andrzej Gackowski**

How to select patients for percutaneous mitral and tricuspid interventions

14:19 - 14:31 Recorded case presentation and moderated panel discussion

Operators: **Wojciech Wojakowski, Grzegorz Smolka, Piotr Pysz** (Górnośląskie Centrum Medyczne, Katowice)

Percutaneous treatment in mitral

14:31 - 14:43 Recorded case presentation and moderated panel discussion

Operators: **Andrzej Gackowski, Jarosław Trębacz, Maciej Stąpór, Karolina Golińska-Grzybała, Karol Wierzbicki** (Saint John Paul II Hospital, Krakow)

Percutaneous treatment of the severe tricuspid regurgitation in patient after heart transplantation

13:43 - 13:53

**Anna Polewczyk**

Heart Failure with low EF and urgent TAVI

14:53 - 15:03

**Jerzy Sacha**

Percutaneous treatment of right heart endocarditis





Friday  
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15:03 - 15:15

**Łukasz Rekść, Dariusz Jarek, Edward Pietrzyk, Dariusz Dudek**  
Coronary microembolization and coiling due to heart tumor

**15:15 - 16:30**

**Pracownia Hemodynamiki - nowe zabiegi, nowe możliwości.**

**Na co czekamy, czego możemy się spodziewać w 2024 roku**

*Sesja organizowana we współpracy z AISN PTK*

**Green Room**

Przewodniczenie: Marek Grygier, Michał Hawranek, Zenon Huczek

Panel: Krzysztof Bryniarski, Marta Kałużna-Oleksy, Paweł Kleczyński, Paweł Kralisz,  
Krzysztof Milewski, Wojciech Wojakowski

15:15 - 15:27

**Adam Rdzanek**

Zastawka trójdzielna – dobór chorych oraz techniki zabiegu w świetle refundacji interwencji

15:27 - 15:39

**Bartosz Rymuza**

„Fast track” TAVI – czy to już standard postępowania?

15:39 - 15:51

**Jakub Drozd**

Przewlekłe okluzyje tętnic wieńcowych – u kogo i jak? Czy możemy liczyć na włączenie do koszyka świadczeń – potencjalne zasady

15:51 - 16:03

**Piotr Kubler**

Litotrypsja wewnątrzwieńcowa – skuteczna i bezpieczna metoda dakalcyfikacji

16:03 - 16:30

Dyskusja



Friday  
December 15

## **New Frontiers in Interventional Cardiology 2023 Workshops**

**12:00 - 15:00**

### **Anatomical workshop**

For doctors interested in performing structural heart interventions

### **Digital Village**

Chairpersons: Aleksander Zeliaś, Klaudia Proniewska, Julianna Dąbrowa

The workshops will be conducted by outstanding anatomy and cardiology specialists and will focus on presenting the complexity and intricacy of heart structures (dissection of the heart preparation) and diagnosing indications for PFO procedures (transesophageal echo) and "closing" a patent foramen ovale using Cocoon™ PFO occluders.

**13:00-15:00**

### **Digital Cardiology Village**

### **Education by Simulation**

Chairperson: Rui Teles

Educators: Francesco Giannini, Arif Khokhar, Alessandro Beneduce, Rosella Ruggiero, Adriana Zlahoda-Huzior

Training village with simulators covering each step of cardiac interventions including procedural planning, performance and evaluation. Wide spectrum of hands-on experience covers:

- workstation for interventional planning based on CCTA / MRI imaging data
- virtual FFR digital console
- TEE/TTE imaging simulators
- digital vascular simulators for virtual vessel stenting
- flow vascular simulators for stenting under IVUS control
- rotational atherectomy console
- impella simulator
- vessel closure simulator (proglide)
- 3D modelling computational workstation
- Virtual Reality imaging based on CCTA/MRI