

# Konstantin Schwarz

## QUALIFICATIONS / PROFESSIONAL EXAMS

|                             |   |               |
|-----------------------------|---|---------------|
| <b>CCT cardiology</b>       | Joint Royal Colleges of Phys. Train. Board/GMC<br>Subspecialized in interventional cardiology<br>- West Midlands Deanery Rotation, United Kingdom | Jan 2019      |
| <b>PhD (medicine)</b>       | University of Aberdeen, Scotland  | July 2016     |
| <b>BSE</b>                  | British Soc Echocardiography TTE accreditation  | Aug 2010      |
| <b>MRCP (UK)</b>            | Royal College of Physicians - London  | Jun 2007      |
| <b>General Practitioner</b> | Austrian Medical Council /GMC register  | Jun 2005/2006 |
| <b>MD (Dr.med.univ.)</b>    | University of Vienna, Austria<br>(clinical with distinction)  | Feb 2000      |
| <b>A-levels</b>             | Grammar school, Jana Nerudy, Prague,<br>Czech Republic (A-levels with distinction)  | May 1993      |

## EXPERIENCE AND TRAINING

|  |   |                  |
|--|---|------------------|
| <b>Universitätsklinikum St. Pölten</b> | Consultant cardiologist with special interest in<br>percutaneous intervention (substantive)                                     | Apr 20 – current |
| <b>Worcestershire Royal Hospital</b>   | Consultant cardiologist with special interest in<br>percutaneous intervention (substantive)                                     | Apr 19 – Mar 20  |
| <b>Royal Wolverhampton Hospital</b>    | St7 cardiology, interventional trainee<br>EduSup: Dr Benjamin Wrigley   | Sept 18 –Mar 19  |
| <b>Royal Stoke University Hospital</b> | St7 cardiology, interventional trainee<br>EduSup: Prof Jim Nolan  | Sep 17- Sept 18  |
| <b>Royal Wolverhampton Hospital</b>    | St6 cardiology, interventional trainee<br>EduSup: Prof James Cotton   | Sep 16- Sep 17   |
| <b>Worcestershire Royal Hospital</b>   | St5 cardiology<br>EduSup: Dr Helen Routledge  | Sep 15- Sep16    |
| <b>University Hospital Birmingham</b>  | St4 cardiology<br>(national ACHD centre and regional transplant centre)<br>EduSup: Dr Sohail Khan                               | Feb 15- Sep 15   |
| <b>University of Aberdeen</b>          | MRC Research Fellow & Honorary SpR Cardiology<br>Aberdeen Royal Infirmary<br>Prof Michael P Frenneaux, Regius Chair in Medicine | Oct 11- Feb 15   |
|  | Basil Hetzel Institute, University of Adelaide, Australia<br>Prof John Horowitz   | Jan 12-Mar 12    |
| <b>Alexandra Hospital, Redditch</b>    | St3 cardiology & general medicine<br>West Midlands Deanery NTN obtained<br>Dr Dzifa Wosornu-Abban                               | Aug 10-Sep 11    |
| <b>Worcestershire Royal Hospital</b>   | St3 LAS/Clinical Fellow, Cardiology & Gen Med<br>Dr Jasper Trevelyan  | May 08-Aug 10    |
| <b>Cheltenham Gen. Hospital</b>        | St2 – Cardiology / Oncology-Haematology<br>Severn Deanery – Medical rotation  | Aug 07- Apr 08   |

|  |   |   |                |
|--|---|---|----------------|
| <b>Pontefract Gen. Infirmary</b>   | } | Elderly Medicine / Cardiology   | Aug 06-Aug 07  |
|  |   | <i>The Leeds Teaching Hospitals<br/>NHS Trust – SHO Medical rotation</i>  |                |
| <b>Leeds Gen. Infirmary</b>  | } | MAU/ Elderly/Haematology/Respiratory  | Feb 06-Aug 06  |
| <b>St Mary's Hospital,<br/>Isle of Wight</b>                                       |   | SHO – Accident & Emergency  | Aug 05- Feb 06 |
| <b>Kaiser Franz Josef Hospital &amp; Preyer Children Hospital, Vienna, Austria</b> |   |   | Oct 02-Jun 05  |
| <b>GP-training rotation</b>  |   | Neurology (2mths), Emergency (6 mths), Paediatrics (5 mths), Dermatology (3 mths), Inf. Diseases (3mths) Gen surgery (2 mths), Oncology (3 mths), O&G (5 mths), ENT (2 mths), Urology (3mths) |                |
| <b>Queen Elizabeth Hospital,<br/>King's Lynn</b>                                   |   | PRHO – Surgery & Orthopaedics/Trauma  | Feb 02-Aug 02  |
| <b>St Mary's Hospital,<br/>Isle of Wight</b>                                       |   | PRHO – General Medicine   | Aug 01-Feb 02  |
| <b>Military Hospital Vienna,<br/>various garrison placements<br/>Austria</b>       |   | Mandatory Military Service,<br>Army assistant doctor<br>Medicine & Radiology (Incl. training in abdominal<br>ultrasound 150x exams, major accident training)                                  | Sep 00-Jun 01  |
| <b>Vienna Gen. Hospital (AKH),<br/>Austria</b>                                     |   | Research Fellow Experimental Microbiology<br>Prof A Georgopoulos, Prof W Graninger  | Feb 00-Sep 00  |

#### SCHOLARSHIPS/AWARDS

- **Winner of best case presentation at MLCTO 2023**, Nice, France 2023
- **British Cardiovascular Interventional Society**: by open competition selected for one of two available sponsored places reserved for British cardiology interventional trainees to attend the prestigious SCAI Annual Interventional Fellows Course, Las Vegas, USA (December 2018) 2018
- **University of Innsbruck & Austria-South East Asia Society**  
Awarded competitive scholarship to attend Bangkok, Chulalongkorn University – Infectious diseases attachment 1999
- **Leistungsstipendium (merit-based scholarship) University of Vienna** 1994/95

#### ELECTIVE ATTACHMENTS

- **Chulalongkorn University Hospital, Bangkok, Thailand** Infect. Diseases; Aug 99-Sep99
- **Western General Hospital, Edinburgh** – Oncology/Gen medicine Aug 98-Sep 98

## PROFESSIONAL ACTIVITIES/ MEMBERSHIPS

- Proctoring – chronic total occlusion PCI, Austria since Nov. 2023
- Royal College of Physicians London – Fellow – **FRCP (London)** elected in September 2022
- Reviewer for various medical journals
- F1000- Associate Faculty Member -Section Cardiovascular Physiology (Post-publication Peer Review- invited by Prof MP Frenneaux)
- Associate Fellow of Higher Education Academy, UK
- British Society of Echocardiography (BSE)
- British Cardiovascular Intervention Society (BCIS)
- Österreichische Kardiologische Gesellschaft (ÖKG)
- Examiner at Facharztprüfung Kardiologie, Österreichische Ärztekademie (ÄKÖ)
- Interviewer for junior doctor posts (general medicine and cardiology StR- NTN, Worcester and West Midlands Deanery)

### Charity involvement:

- Open day BHF Aberdeen Royal Infirmary, Jan 2014
- Development trust Aberdeen: lecture to students organizing charity

## COURSES & Other qualifications

|  |                              |
|--|------------------------------|
| Austrian CHIP Meeting, 2d Vienna, Graz, October                                | 2021, 2022                   |
| MLCTO, Nice, 3d, July  | 2021, 2022, 2023             |
| EuroCTO Meeting  | 2020                         |
| TAVI Access Masterclass, 1d, Manchester, Oct.                                  | 2019                         |
| OPTIMAL CTO, 2d, London  | 2019                         |
| Advances in Co-registration, coronary physiology and imaging, 2d, London       | 2019                         |
| Mayo Clinic/BCS cardiology update course, London, 5d                           | 2019                         |
| SCAI Fall Fellows Course, Las Vegas, US, Dec 7.-11.                            | 2018                         |
| Practical IVUS and OCT, Manchester, June 27th                                  | 2018                         |
| PCR Education – Bifurcation Meeting, Medtronic, Birmingham, June 18.-19.       | 2018                         |
| EuroPCR, Paris, 4d   | 2017, 2018, 2022, 2023       |
| Advanced Cardiovascular Intervention, London                                   | 2017, 2018, 2020, 2022, 2023 |
| PCI Complications Course, Derby  | 2018                         |
| Rising Stars (Interventional Cardiology), Medtronic, Leeds, 2d                 | 2017                         |
| BCIS Advanced Cardiovascular Interventional Trainee Course, Liverpool, 5.-6.12 | 2016                         |
| AIM Radial UK Masterclass, Liverpool, 17.-18. Sept                             | 2015, 2017                   |
| BCIS Basic Interventional Course, Queens College, Oxford, 16.-17. April        | 2015                         |
| European Society of Cardiology Congress, 4d                                    | 2007, 2009, 2013, 2015       |
| EuroEcho, Vienna; 3.-6. December   | 2014                         |
| BSE congress, Liverpool  | 2013, 2009                   |
| Good Clinical Practice (Research) passed Oct 2011, Up-date: 2013 and 2016      | 2013                         |
| ScotPil- Animal Handling/Research course, University of Aberdeen               | 2012                         |
| Basic Statistics Course, University of Aberdeen, 3d                            | 2011                         |
| PCI Complications–Management and Troubleshooting Masterclass, Worcester        | 2010                         |
| Essentials of Radial Access Course, Stoke                                      | 2010                         |
| Hammersmith Echocardiography Conference, London, 5d                            | 2009                         |
| Fundamental Techniques in Coronary Angiography, St Jude Medical, 1d            | 2009                         |
| Practical Cardiology, Exeter College, Oxford, 2x2d                             | 2009, 2008                   |
| Ultrasound guided iv access, Worcester, 1d                                     | 2011                         |
| Acute Medicine, Hammersmith Medicine, 2d                                       | 2008, 2010                   |
| Temporary Pacing Course, Stevenage, 1d   | 2007                         |
| ALS Provider Course (ERC – Vienna, Gloucester, Worcesterx2, Birmingham)        | 2004, 2007, 2010, 2015, 2019 |
| Acute Cardiac Care Congress, ESC, 4d, Prague                                   | 2006                         |
| Emergency Doctor (Notarzt Ausbildung), Salzburg, ARGE, Austria, 7d             | 2004                         |

## AUDIT/QUALITY IMPROVEMENT PROJECTS

|   |      |
|---|------|
| <b>CTCA vs invasive angiography in graft patients</b><br>Royal Stoke University Hospital    | 2018 |
| <b>Surgical centre referral waiting times</b><br>Worcestershire Royal Hospital              | 2016 |
| <b>PCI 30d follow up</b><br>Worcestershire Royal Hospital                                   | 2010 |
| <b>Angioplasty Service Satisfaction Survey</b><br>Worcestershire Royal Hospital             | 2009 |
| <b>ECG in acute chest pain patients</b><br>Worcestershire Royal Hospital                    | 2009 |
| <b>Reasons for delayed discharges after PCI</b><br>Cheltenham General Hospital              | 2008 |
| <b>Management of atrial fibrillation (Elderly Medicine)</b><br>Pontefract General Infirmary | 2007 |

## TEACHING

### Teaching specific education:

- |                          |  |
|--------------------------|--|
| Postgraduate certificate | <ul style="list-style-type: none"> <li>• <b>Learning and Teaching in Higher Education 1</b>, University of Aberdeen one year/30 credit course, passed 4<sup>th</sup> June 2013<br/>Associate fellow of the Higher Education Academy</li> </ul> |
| Courses                  | <ul style="list-style-type: none"> <li>• <b>On-the-Job-Teaching</b>, RCP-London, Oxford, June 2009</li> <li>• <b>Training the Trainers</b> course, Warwick, June 2019</li> </ul>   |

### Delivered teaching:

#### Workshops/Courses

**Kardio- Akademie**, Sankt Pölten & Medical University of Vienna (2022, 2023, 2024)

Series of 3x 1.5 days training for early career interventional cardiologists co-organising and liaising with Industry  
I am holding several presentations and run several work-shops

I am the course co-director on "**Lithotripsie und OCT Workshop (2x3h)**"  
[www.kardioakademie.at](http://www.kardioakademie.at)

**PCR Education – Bifurcation Meeting**, Medtronic, Birmingham, 18.-19. June 2018  
Acted as media driver and cases presenter

**Midlands Echocardiography Course**: echo demonstration for beginners (Nov 2017)

**The North East Scotland Society of Anaesthetists (NESSA)** – annual meeting  
Held transthoracic echocardiography workshop for anaesthetists, October 2014

**University of Vienna**, hands-on workshops for medical students on laboratory microbiological techniques (2000)

#### Presentations:

**4<sup>th</sup> Austrian CHIP-CTO Meeting**  
Feldkirch, Austria  
Bifurcations in CTO and Septal troubles presentations

**Swiss CHIP&CTO Summit 2023**  
September 2023, St. Gallen, Switzerland  
"The super-power knuckle" – selected case

**MLCTO**  
July 2023, Nice, France

“ What happened in this rCART case, *..it aint over till its over...*”  
(winner of best case presentation)

### **EuroPCR**

May 2023, Paris

- Character Building Case
- An old hat for contemporary PPCI

### **3<sup>rd</sup> Austrian CHIP-CTO Meeting**

Oct 2022, Graz, Uni Campus, “A character building case”

### **EuroPCR**

May 2022, Paris, ‘When all hell breaks loose, expect the unexpected’

### **Sankt Pölten Kardiologie 2021 and 2022**

September 2021, Schloss Thalheim, CTO – Indikation revisited

September 2022, Schloss Graffeneg, Komplexe MVD PCI

### **EuroPCR**

May 2018, Paris, ‘When less is more’

### **EuroPCR**

May 2017, Paris, Combined TAVI, EVAR and right internal iliac artery embolization case

### **BCIS Advanced Cardiovascular Interventional Trainees Course**

Dec 2016, Liverpool, Case presentation

### **Cardiovascular Symposium, Institute of Medical Sciences, University of Aberdeen,**

Jan 2013, Mitochondrial Respiration in Cardiomyocytes

### **Cardiovascular Meeting, Queen Elizabeth Hospital, Adelaide, Australia**

22<sup>nd</sup> Feb 2012, Nitrite and Metabolic Efficiency

**Aberdeen Royal Infirmary:** RV function in LV disease; Nitrite effects in Cardiac Muscle; Mitochondrial Respiratory Chain

Many other local and regional (**University Hospital Birmingham, Royal Wolverhampton Hospital, Worcestershire Royal Hospital**) e.g. West Midlands CPEX meeting, West Midlands Training days, Grand rounds, 3<sup>rd</sup>/5<sup>th</sup> Medical Students Lecture and Bedside teaching presentations to doctors, nurses and students on various topics including: RV-function in LV disease- Helical Heart, LMS disease/trials, Tako-tsubo, Pioneer AF Trial, Tissue Doppler/3D-LVQ/3D-valves, Right Ventricle Assessment (Echo), Acute heart failure syndromes, AHF-ESC Guidelines, Courage trial, PV Endocarditis and Device infections, ECG training, Arrhythmia, Cardiomyopathies...

## SKILLS

### **PCI**

Level 3 diagnostic angiographies-femoral and radial access, RHC- brach and fem. Experience with RV-biopsy

**1<sup>st</sup> operator PCI: 2500**, >90% radial access, primary PCI rota, including LMS, bifurcation stenting, circulatory support (mainly IABP), **CTOs** (ante and retrograde procedures), biradial access, Angioseal, Proglide and Mynx closure devices and rotational atherectomy competent, OCT, IVUS, Pressure wire-co-registration, shockwave lithotripsy

I am lead the **CTO/CHIP Program** at University Hospital Sankt Pölten

I trained in **four high volume centres** with >30 PCI trainers (incl Jim Nolan, Mark Gunning, Rob Butler, Karim Ratib, Adrian Large, James Cotton, Saib Khogali, Ben Wrigley, Helen Routledge, Jasper Trevelyan, Joe Martins, Matt Banks, Shehzad Munir, Patrick Calvert, Peter Ludman and many more)

1<sup>st</sup> and 2<sup>nd</sup> operator balloon aortic valvuloplasty, ic laser (ELCA)  
 2<sup>nd</sup> and 3<sup>rd</sup> operator in TAVI (Evolut R and Edwards Sapien 3), mitra-clip, PFO and VSD device closure, alcohol septal ablation, Impella,

Pulmonary Embolism  
Permanent pacing

EKOS and INARI Flowtriever 1<sup>st</sup> operator  
 100+ with minimal (remote) supervision, most VVI/DDD, few ICDs,  
 4x Biventricular devices, many implantable loop recorders (+ILR explantation)

Echocardiography

Independent, advanced techniques including contrast and exercise or dobutamine stress echocardiography (100x), 2D and tri-plane strain (research), some experience with echocardiography in LVAD patients, BSE accredited

Tilt Test  
Temporary Pacing  
Pericardiocentesis  
CVP/Chest drain/LP  
Abdominal ultrasound

Supervision and reporting  
 Independent, level 3  
 Independent, level 3  
 Independent, level 3  
 150 examinations and supervised reports

IT/statistic skills

Good MS office working knowledge (advanced excel), basic SPSS knowledge, GraphPad, advanced ppt.  
 Attended formal statistic courses at University of Vienna and University of Aberdeen, good knowledge in basic statistics/epidemiology

Basic science

Good experience with routine techniques (light microscopy and animal handling course, cell culture, western blot, mitochondrial function assessment)

#### MANAGEMENT and Other activities

Trial management

INAS –randomized controlled trial, As the leading fellow I managed the most aspects of this phase II MHRA/CIMPT regulated trial, including procurement, recruitment (community advertisements, other tertiary center and GP surgeries involvement), liaison with all involved regulatory bodies (Ethics Committee, University R&D, NHS R&D). I organized and facilitated Trial Steering Committee and live international Data Monitoring Committee meetings (2011-2015)

Journal club  
 Management course

Organized and managed drug rep sponsored JC in Royal Wolverh. H. 2018 Professional Development Course, Nov 2016 (London, Johnson&Johnson), Topics involved leadership and teamworking in NHS, time management, dealing with complaints, medico-legal scenarios, developing and leading a quality service in NHS...

NHS work

Br Card Soc – Early Consultant Career Course 2019

Over years I actively contributed to many M&M meetings, clinical governance meetings, liaison between trainees and consultants (e.g. change in working hours..)

OCT meeting

Supported by Abbott I organized a hands-on-training for regional SpRs February 2018

Proctoring

I am proctoring for complex coronary interventions/chronic total occlusions

#### PERSONAL DETAILS

(Previous GMC No: 6025600)  
 Previous UK cardiology National Training Number: WMD/007/010/C  
 LinkedIn and Researchgate accounts

**PhD Thesis:**

***'The Effects of Inorganic Nitrate and Nitrite on the Heart -  
Metabolic efficiency and therapeutic potential for ischaemic heart disease',  
University of Aberdeen***

Supervisor:

Prof Michael Paul Frenneaux, MD, FRCP, FESC, FACC, FMedSci, FRACP  
Regius Chair in Medicine

Viva Examiners (February 2016):

Prof Hugh Montgomery (University College London) and Dr Isobel Ford (University of Aberdeen)

**PUBLICATIONS:**

1. Emergency transvenous temporary pacing during rotational atherectomy  
**Konstantin Schwarz\*** Julia Mascherbauer, Elisabeth Schmidt, Martina Zirkler, Gudrun Lamm, Paul Vock, Chun Shing Kwok, Josip Andelo Borovac, Roya Anahita Mousavi, Uta C. Hoppe, Gregor Leibundgut, Maximilian Will.  
Front. Cardiovasc. Med., 14 December 2023, Volume 10 - 2023  
doi.org/10.3389/fcvm.2023.1322459
2. Sex differences in the management and outcome of acute coronary syndrome-Still an issue of equal treatment?  
Mousavi RA, Lamm G, Will M, **Schwarz K**, Mascherbauer J.  
Wien Klin Wochenschr. 2023 Dec;135(23-24):663-666. doi: 10.1007/s00508-023-02302-4. Epub 2023 Nov 23. PMID: 37994938
3. An evidence-based evaluation of left ventricular thrombus treatment, outcomes, and resolution: a systematic review, pooled analysis and meta-analysis.  
Kwok CS, Bennett S, Borovac JA, Will M, **Schwarz K**, Lip GYH.  
Coron Artery Dis. 2023 Jun 1;34(4):260-273. doi: 10.1097/MCA.0000000000001230. Epub 2023 Mar 21. PMID: 36951736
4. In-hospital outcomes and conditions in patients with acute coronary syndrome and coronary artery aneurysms who undergo percutaneous coronary intervention.  
Kwok CS, Qureshi AI, Will M, **Schwarz K**, Borovac JA. Cardiovasc Revasc Med. 2023 Nov;56:57-63. doi: 10.1016/j.carrev.2023.05.015. Epub 2023 May 29. PMID: 37349186
5. In-Hospital Outcomes and Conditions Associated With Coronary Artery Aneurysms in Chronic Coronary Syndrome  
Josip A Borovac 1, Adnan I Qureshi 2, Maximilian Will 3, **Konstantin Schwarz 4**, Aleksandra Gasecka 5, Chun Shing Kwok 6, Affiliations expand PMID: 36990849 DOI: 10.1016/j.carrev.2023.03.010
6. The impact of chronic total occlusions in patients undergoing transcatheter aortic valve replacement: A systematic review and meta-analysis.  
Will M, **Schwarz K**, Weiss T, Leibundgut G, Lamm G, Vock P, Mascherbauer J, Kwok CS. Catheter Cardiovasc Interv. 2023 Mar;101(4):806-812. doi: 10.1002/ccd.30601. Epub 2023 Feb 19. PMID: 36802136
7. Revascularization with Coronary Artery Bypass Grafting in Non-ST-elevation Acute Coronary Syndromes: A Snapshot of Randomized Trials and Registries.  
Borovac JA, Ferri-Certic J, Miric D, Zanchi J, Lozo M, Bradaric A, **Schwarz K**, Kwok CS. Arq Bras Cardiol. 2023 Jan 9;120(1):e20220248. doi: 10.36660/abc.20220248. eCollection, 2023. PMID: 36629603

8. Left vs. right radial approach for coronary catheterization: Relation to age and severe aortic stenosis.  
Will M, Weiss TW, Weber M, Kwok CS, Borovac JA, Lamm G, Unterdechler M, Aufhauser S, Nolan J, Mascherbauer J, **Schwarz K\***. Front Cardiovasc Med. 2022 Oct 31;9:1022415. doi: 10.3389/fcvm.2022.1022415. eCollection 2022. PMID: 3638630
9. Clinical use of ivabradine in the acute coronary syndrome: A systematic review and narrative synthesis of current evidence.  
Borovac JA, Kowalski M, Poklepovic Pericic T, Vidak M, **Schwarz K**, D'Amario D, Miric D, Glavas D, Bozic J. Am Heart J Plus. 2022 Jun 21;17:100158. doi: 10.1016/j.ahjo.2022.100158. eCollection 2022 May. PMID: 38559878 Free PMC article. Review.
10. Misdiagnosis of aortic dissection: A systematic review of the literature.  
Lovatt S, Wong CW, **Schwarz K**, Borovac JA, Lo T, Gunning M, Phan T, Patwala A, Barker D, Mallen CD, Kwok CS. Am J Emerg Med. 2022 Mar;53:16-22. doi: 10.1016/j.ajem.2021.11.047. Epub 2021 Dec 4. PMID: 34968970
11. The unspoken benefit of participation in a clinical trial  
**Konstantin Schwarz**, Sathish Parasuraman, Satnam Singh, John D Horowitz, Dana K Dawson, Michael P Frenneaux, Clin Med (Lond). 2021 Nov;21(6):e645-e647. doi: 10.7861/clinmed.2021-0292. PMID: 34862226
12. Planned versus bailout rotational atherectomy: A systematic review and meta-analysis.  
**Schwarz K**, Lovatt S, Borovac JA, Parasuraman S, Kwok CS. Cardiovasc Revasc Med. 2021 Oct 4:S1553-8389(21)00675-8. doi: 10.1016/j.carrev.2021.09.013. Online ahead of print. PMID: 34627732
13. Efficacy of high-dose atorvastatin or rosuvastatin loading in patients with acute coronary syndrome undergoing percutaneous coronary intervention: a meta-analysis of randomized controlled trials with GRADE qualification of available evidence.  
Borovac JA, Leth-Olsen M, Kumric M, D'Amario D, **Schwarz K**, Glavas D, Bozic J. Eur J Clin Pharmacol. 2021 Aug 23. doi: 10.1007/s00228-021-03196-9. Online ahead of print. PMID: 34423376
14. Outcomes of patients who undergo elective covered stent treatment for coronary artery aneurysms.  
Will M, Kwok CS, Nagaraja V, Potluri R, Weiss TW, Mascherbauer J, **Schwarz K**. Cardiovasc Revasc Med. 2021 May 22:S1553-8389(21)00264-5. doi: 10.1016/j.carrev.2021.05.018. Online ahead of print. PMID: 34034989
15. Comparison of radiation dose and contrast use in CT vs diagnostic invasive angiography in coronary artery bypass graft patients.  
**Schwarz K**, Sultan A, Poole H, Jones H, Duckett S, Nolan J. Cardiovasc Revasc Med. 2020 Mar 13. pii: S1553-8389(20)30150-0. doi: 10.1016/j.carrev.2020.03.016. [Epub ahead of print] No abstract available. PMID: 32199793
16. Cardiopulmonary exercise test in myocardial ischemia detection.  
Parasuraman S, **Schwarz K**, Singh S, Abraham D, Garg D, Frenneaux MP. Future Cardiol. 2020 Mar;16(2):113-121. doi: 10.2217/fca-2019-0022. Epub 2020 Feb 21. PMID: 32081024
17. Outcomes of patients who undergo percutaneous coronary intervention with covered stents for coronary perforation: A systematic review and pooled analysis of data.  
Nagaraja V\*, **Schwarz K\***, Moss S, Kwok CS, Gunning M. Catheter Cardiovasc Interv. 2019 Dec 18. doi: 10.1002/ccd.28646. [Epub ahead of print] PMID: 31850685  
\*contributed equally (I am the corresponding author)
18. Inorganic nitrate and nitrite supplementation fails to improve skeletal muscle mitochondrial efficiency in mice and humans.  
Ntessalen M, Procter NE, **Schwarz K**, Loudon BL, Minnion M, Fernandez BO, Vassiliou VS, Vauzour D, Madhani M, Constantin-Teodosiu D, Horowitz JD, Feelisch M, Dawson D, Crichton PG, Frenneaux MP. Am J Clin Nutr. 2019 Oct 10. pii: nqz245. doi:



19. Cardiac catheterization  
**Konstantin Schwarz**, Muhammad Ayyaz Ul Haq, Bharat Sidhu, Jim Nolan  
Medicine, 2018 June. DOI: <https://doi.org/10.1016/j.mpmed.2018.05.014>
20. Inorganic Nitrate in Angina Study: A Randomized Double-Blind Placebo-Controlled Trial.  
**Schwarz K**, Singh S, Parasuraman SK, Rudd A, Shepstone L, Feelisch M, Minnion M, Ahmad S, Madhani M, Horowitz J, Dawson DK, Frenneaux MP. J Am Heart Assoc. 2017 Sep 8;6(9). pii: e006478. doi: 10.1161/JAHA.117.006478. PMID:28887315
21. Report from the Annual Conference of the British Society of Echocardiography, November 2016, Queen Elizabeth II Conference Centre, London.  
Steeds RP, Cowie MR, Rana BS, Chambers JB, Ray S, Srinivasan J, **Schwarz K**, Neil CJ, Scally C, Horowitz JD, Frenneaux MP, Pislaru C, Dawson DK, Rothwell OJ, George K, Somauroo JD, Lord R, Stenbridge M, Shave R, Hoffman M, Ashley EA, Haddad F, Eijsvogels TMH, Oxborough D, Hampson R, Kinsey CD, Gurunathan S, Vamvakidou A, Karogiannis N, Senior R, Ahmadvazir S, Shah BN, Zacharias K, Bowen D, Robinson S, Ihekweba U, Parker K, Boyd J, Densem CG, Atkinson C, Hinton J, Gaisie EB, Rakhit DJ, Yue AM, Roberts PR, Thomas D, Phen P, Sibley J, Fergey S, Russhard P. Echo Res Pract. 2017 Sep 1;4(3):M1. doi: 10.1530/ERP-17-0046
22. Author's Reply.  
**Schwarz K**, Ahearn T, Srinivasan J, Neil CJ, Scally C, Rudd A, Jagpal B, Frenneaux MP, Pislaru C, Horowitz JD, Dawson DK. J Am Soc Echocardiogr. 2017 Oct;30(10):1042. doi: 10.1016/j.echo.2017.07.002. No abstract available. PMID: 28847560
23. Thrombolysis: A Useful Tool in the Primary PCI Cupboard.  
**Schwarz K**, Goyal D, Routledge H. J Invasive Cardiol. 2017 Aug;29(8):E98. PMID: 28756427
24. Alterations in Cardiac Deformation, Timing of Contraction and Relaxation, and Early Myocardial Fibrosis Accompany the Apparent Recovery of Acute Stress-Induced (Takotsubo) Cardiomyopathy: An End to the Concept of Transience.  
**Schwarz K**, Ahearn T, Srinivasan J, Neil CJ, Scally C, Rudd A, Jagpal B, Frenneaux MP, Pislaru C, Horowitz JD, Dawson DK. J Am Soc Echocardiogr. 2017 Jun 6. pii: S0894-7317(17)30216-X. doi: 10.1016/j.echo.2017.03.016. [Epub ahead of print], PMID: 28599831
25. A randomized double-blind placebo-controlled crossover trial of sodium nitrate in patients with stable angina INAS- Clinical Trial Protocol.  
**Schwarz K**, Singh S, Parasuraman SK, Bruce M, Shepstone L, Feelisch M, Minnion M, Ahmad S, Horowitz J, Dawson DK, Frenneaux MP. Future Cardiol. 2016 Nov;12(6):617-626.
26. Healthcare Professional's Guide to Cardiopulmonary Exercise Testing.  
Parasuraman S, **Schwarz K**, Gollop N, Loudon B, Frenneaux MP, British Journal of Cardiology 22(4):156 · November 2015. DOI: 10.5837/bjc.2015.042
27. Is Echo mandatory while investigating stable angina?  
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