



Catalin Constantin
Badiu

EXPERIENȚA PROFESIONALĂ

01/11/2015 - ÎN CURS - România

Coordonator Compartiment Clinic Chirurgie Cardiovasculara
Spitalul Universitar de Urgenta Bucuresti

- din 2015 Medic primar Chirurgie Cardiovasculara Spitalul Universitar de Urgenta Bucuresti
- din 2015 Chirurg colaborator - Medic primar Chirurgie Cardiovasculara Spitalul Monza Bucuresti
- 2011 - 2014 Medic primar (Funktionsoberarzt) Chirurgie Cardiovasculara - Deutsches Herzzentrum Muenchen (Prof. R. Lange)
- 2014 - 2015 Medic specialist - Chirurgie Cardiovasculara Institutul de Boli Cardiovasculare si Transplant Tirgu Mures
- 2010 - 2011 Medic specialist - Chirurgie Cardiovasculara - Deutsches Herzzentrum Muenchen
- 2010 - 2011 Fellowship - Terapia intensiva in Chirurgia Cardiaca / Chirurgie Cardiovasculara - Deutsches Herzzentrum Muenchen
- 2003 - 2010 Rezident - Chirurgie Cardiovasculara - Deutsches Herzzentrum Muenchen
- Experienta chirurgicala: 300-350 operatii pe an ca prim operator

EDUCAȚIE ȘI FORMARE PROFESIONALĂ

Educatie:

- 2015 Recunoasterea functiei didactice de Conferentiar Universitar prin OMEN 81598/20.08.2015 obtinuta in cadrul "Technische Universität München"
- 2015 Obtinerea in cadrul facultatii de medicina a "Technische Universität München" Venia Legendi si dreptul de a purta titlul "Privatdozent"
- 2014 Obtinerea abilitarii si titlul de "Dr. med. habil." si astfel si "Ius Docendi", dreptul de a preda specialitatea medicala in cadrul universitar - in urma sustinerii in fata senatului facultatii a cursului cu titlul:

"Reconstructia valvulara mitrala: Inlocuieste terapia interventionala chirurgia conventionala?"

- **Tema lucrarii de abilitare:**

"Plastia valvei aortice si pastrarea valvei aortice in cadrul operatiilor de inlocuire a aortei ascendente - indicatii, tehnici chirurgicale si rezultate"

"Aortic valve repair and aortic valve sparing root replacement - indications, surgical techniques and results"

- 2016 Atestat Managementul Serviciilor de Sanatate - Universitatea Lucian Blaga Sibiu
- 2015 Acordarea prin examen a titlului de medic primar Chirurgie Cardiovasculara (Concurs MS-1071/2015) 2015 Recunoasterea de catre Ministerul Educatiei si Cercetarii Stiintifice a titlului de Doctor in medicina (71.512/20.02.2015)
- 2015 Recunoasterea calificarii ca medic specialist Chirurgie Cardiovasculara prin OMS nr. 352/23.03.2015
- 2013 Acordarea prin examen a supraspecializarii in Terapie Intensiva in CCV de catre "Bavarian State Chamber of Physicians"
- 2011 Academic Training and Certification - TUM MeDiCAL - Center of Medical Education
- 2010 Acordarea prin examen a titlului de specialist in chirurgie cardiaca de catre "Bavarian State Chamber of Physicians"
- 2007 Acordarea titlului de Doctor in stiinte medicale cu calificativul "Magna cum Laude" -

- **Tema tezei de doctorat (operativ-experimentală cu operații cu CEC):**

"Efectul inhibării selective sistemice a sistemului complement cu C1 inhibitor esterază asupra leziunii miocardice post infarct miocardic și post revascularizare într-un model porcine"

- **2003 Examenul de stat în cadrul facultății de medicină - Technische Universität München - Licența pentru practicarea medicinei**
- **2002 "Internship" în cadrul departamentului de Chirurgie Cardiovasculară German Heart Centre Munich, Technische Universität München**
- **2002 "Internship" în cadrul departamentului de Cardiologie și Gastroenterologie, Spitalul Universitar "Rechts der Isar", Technische Universität München**
- **2002 "Internship" în cadrul departamentului de Anestezie Spitalul Universitar "Rechts der Isar", Technische Universität München**
- **1997-2003 Facultatea de medicină generală în cadrul universității "Ludwig- Maximilians Universität München" și "Technische Universität München"**

Cursuri suplimentare de formare:

- 12th Symposium on Aortic Valve Reconstructive Surgery- Brussels- June 2012**
- Advanced Course on Mitral and Tricuspid Valve - Munich November 2014**
- Training course - Endovascular laser treatment of lower limb varicosis- Italy - October 2013**
- Joint Meeting of the Society for Heart Valve Disease & Heart Valve Society of America - in Berlin - June 2009**
- Bleeding complication management - Wet Lab - sponsored by Ethicon Biosurgery - in Norderstedt - October 2009**
- Cardiovascular Disease between Intervention and Surgery - in Munich - November 2008**
- 10th Annual Symposium on Current Perspectives of Extracorporeal Circulation - in Munich - April 2008**
- Training course - Diagnostic radiology - in Munich - March 2007**
- Focus on congenital cardiac surgery - the 4th International combined live symposium - in Munich - December 2006**
- Update on Aortic Surgery - in Munich - June 2004**
- Team Approach to TAVI Training 23-24 January 2017 Budapest, Hungary**
- Edwards SAPIEN 3 THV Fundamentals Training 22-23 February 2017, Nyon Switzerland**

Activități didactice:

- **Curs teoretic de examinare clinică pentru studenți (Ludwig Maximilians Universität München și Technische Universität München) 2008 -2014**
- **Curs practic de examinare clinică pentru studenți 2008-2014**
- **Curs practic despre tehnicile operatorii în chirurgia cardiacă 2010-2014**
- **Tehnici și tehnologii în chirurgia cardiacă - curs teoretic pentru studenții de la "Universitatea Pentru Științe Aplicate" München 2012-2014**
- **Lector în cadrul programului post-drum "Cordisped" - UMF Targu Mures 2015**
- **Cursuri rezidenți Cardiologie UMF Carol Davila 2017-2019**

Indrumator doctorat:

- "Evaluation of two different surgical techniques for valve sparing root replacement in patients with ascending aorta aneurysm or dissection. Influence of preoperative anatomy, pathology and clinical state on the long-term outcome."**

2. "Aortic valvulrepair - a comparison of clinic and echocardiographic long-term outcome betweenpatients with bicuspid or tricuspid aortic."
3. "Bentalloperation vs. Aortic valve sparing root replacement - comparison of clinical long-term outcome."

Societati profesionale si activate in cadrul publicatiilor de specialitate:

Membru: European Association for Cardio-Thoracic Surgery, Society for Heart Valve Disease, German Association for Cardiovascular

and Thoracic Surgery, Romanian Association for Cardiovascular Surgery

Reviewer: European Journal of Cardiothoracic Surgery, Interactive CardioVascular and Thoracic Surgery, Texas Heart Institute Journal,

Journal of Heart Valve Disease, MAedica- A Journal of Clinical Medicine, Pneumologia

COMPETENȚE LINGVISTICE

LIMBĂ(I) MATERNĂ(E): Romana

ALTĂ LIMBĂ (ALTE LIMBI):

Germana

Comprehensiune orală C2	Citit C2	Exprimare scrisă C2	Conversație C2	Scris C2
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Engleza

Comprehensiune orală C2	Citit C2	Exprimare scrisă C2	Conversație C2	Scris C2
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COMPETENȚE DIGITALE

O bun cunoatere a programului SPSS / Utilizare foarte bună a programelor de comunicare (Word, Power Point, Excel, Access)

PERMIS DE CONDUCERE

Permis de conducere: B

COMUNICATE STIINTIFICE INTERNATIONALE SI NATIONALE:

Internationale:

1. Valve-sparing root replacement: Where are the limits?

Special Lecture - 8th Current Trends in Aortic and Cardiothoracic Surgery conference. Baylor college of medicine; Houston/Texas, 28-30 April 2011

2. Aortic valve-sparing root replacement in patients with aortic root - or ascending aorta aneurysm

Special Lecture - Actual trends in congenital heart disease - - Munich -12. October 2013

3. Catalin Constantin Badiu, Markus Andree Deutsch, Constantinos Sideris, Ina Hettich, Markus Krane, Domenico Mazzitelli, Bernhard Voss, Ruediger Lange

Aortic root replacement: Comparison of different surgical techniques

Lecture - 27th EACTS annual Meeting, 5-9. October 2013, Vienna, Austria

4. Catalin Constantin Badiu

Aortic valve sparing operations: Where are the limits?

Lecture - 10th meeting of the Romanian Society of Cardiovascular Surgery, Iasi, Romania September 2014

5. Catalin Constantin Badiu, Domenico Mazzitelli, Öznur Öztürk, Christian Nöbauer, Markus Krane, Marcus Andre Deutsch, Bernhard Voss, Rüdiger Lange

De-novo construction of the aortic valve using glutaraldehyde-treated autologous pericardium: An old concept revived

Lecture - 42. Jahrestagung der Deutschen Gesellschaft für Herz-, Thorax- und Gefäßchirurgie in Freiburg, Germany Februar, 2013

6. Catalin C. Badiu, Domenico Mazzitelli, Bernhard Voss, Jürgen Hörer, Zsolt Prodan, Manfred Vogt, Christian Schreiber, Rüdiger Lange

Is aortic valve-sparing root replacement effective in children with congenital heart disease?

Lecture - 41. Jahrestagung der Deutschen Gesellschaft für Herz-, Thorax- und Gefäßchirurgie in Freiburg 02.2012

7. Badiu Catalin Constantin, Mazzitelli Domenico, Bleiziffer Sabine, Krane Markus, Hettich Ina, Deutsch Markus André, Voss Bernhard, Lange Rüdiger

Should root replacement with aortic valve-sparing be offered to patients with severe aortic regurgitation?

Lecture - 8th meeting of the Romanian Society of Cardiovascular Surgery, Poiana Brasov, Romania October 2012

8. Catalin C. Badiu, Domenico Mazzitelli, Bernhard Voss, Jürgen Hörer, Zsolt Prodan, Manfred Vogt, Christian Schreiber, Rüdiger Lange

Is aortic valve-sparing root replacement effective in children with congenital heart disease?

Lecture - 25th EACTS annual Meeting, Lisbon, Portugal 01-05 October 2011

9. Catalin C. Badiu, Domenico Mazzitelli, Bernhard Voss, Jürgen Hörer, Zsolt Prodan, Manfred Vogt, Christian Schreiber, Rüdiger Lange

Aortic valve sparing in children

Lecture - 3rd Scientific Meeting of The World Society For Pediatric And Congenital Heart Surgery, June 23-26, 2011, Istanbul, Turkey

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10. Catalin C. Badiu, Sabine Bleiziffer, Walter B. Eichinger, Iva Zaimova, Andrea Hutter, Bernhard Voss, Robert Bauernschmitt, Rüdiger Lange

Are bicuspid aortic valves a limitation for aortic valve repair?

Lecture - 24th EACTS annual meeting Geneva, Switzerland 13th September 2010

11. Badiu CC, Eichinger W, Bleiziffer S, Hermes G, Hettich I, Krane M, Bauernschmitt R, Lange R.

Should root replacement with aortic valve-sparing be offered to patients with bicuspid valves or severe aortic

regurgitation?

Lecture - 39. Jahrestagung der Deutschen Gesellschaft für Herz-, Thorax- und Gefäßchirurgie in Stuttgart 15.02.2010

12. Catalin C. Badiu; Anke Opitz; Sabine Bleiziffer; Ina Hettich; Andrea Hutter; Markus Krane; Robert Bauernschmitt; Rudiger Lange

Echocardiographic Evaluation Of The Biovalsalva Valved Conduit After Aortic Root Replacement

Poster-lecture- 5th Biennial Meeting of the Society for Heart Valve Disease; Berlin, Germany; June 27-30, 2009

13. Badiu CC, Eichinger W, Bleiziffer S, Hermes G, Hettich I, Krane M, Bauernschmitt R, Lange R.

Should root replacement with aortic valve-sparing be offered to patients with bicuspid valves or severe aortic regurgitation?

Lecture - 24th EACTS annual meeting Vienna, Austria, Switzerland 30th October 2009

14. C.C.Badiu, C.Schreiber, DJ. Ruzicka, J. Hoerer, M. Krane, R. Lange

Early timing of surgical intervention in patients with Ebstein's anomaly predicts superior long-term outcome

Lecture - 38. Jahrestagung der Deutschen Gesellschaft für Thorax-, Herz- und Gefäßchirurgie - Stuttgart, 15.-18. Februar 2009

15. C.C.Badiu, C.Schreiber, DJ. Ruzicka, J. Hoerer, M. Krane, R. Lange

Early timing of surgical intervention in patients with Ebstein's anomaly predicts superior long-term outcome

Lecture - 22nd EACTS annual Meeting, Lisbon, Portugal 13-17 September 2008

16. C.C.Badiu, C.Schreiber, DJ. Ruzicka, J. Hoerer, M. Krane, R. Lange

Early timing of surgical intervention in patients with Ebstein's anomaly predicts superior long-term outcome Lecture - 8th meeting of the Romanian Society of Cardiovascular Surgery, Tg. Mures, Romania October 2008

17. Catalin C. Badiu, Sabine Bleiziffer, Walter B. Eichinger, Ina Hettich, Markus Krane, Robert Bauernschmitt, Rüdiger Lange

Long-term performance of the Hancock bioprosthetic conduit for aortic root replacement

Lecture - zur 5. Gemeinsamen Jahrestagung - deutsche, österreichische und schweizerische Gesellschaft für Thorax-, Herz- und Gefäßchirurgie, Innsbruck, Austria - 02.2008

18. Catalin C. Badiu, Sabine Bleiziffer, Walter B. Eichinger, Ina Hettich, Markus Krane, Robert Bauernschmitt, Rüdiger Lange

Long-term performance of the Hancock bioprosthetic conduit for aortic root replacement

Poster- lecture- Vortrag- 4th Biennial Meeting of the Society for Heart Valve Disease; New York, USA; June, 2007

Nationale:

19. Valvular preservation in aortic root pathology

Special Lecture - 52th Meeting of the Romanian Society of Cardiology - Sinaia/Romania 03-05. October 2013

20. Management of congenital heart diseases with severe neonatal symptoms

Special Lecture - Up-to-date in pregnancy and infertility - Constanta - 19-20 September 2014

21. Plastia valvulara mitrala- Inlocuieste tratamentul interventional chirurgia conventionala?

Lecture - 54th Meeting of the Romanian Society of Cardiology - Sinaia/ Romania 17-20. September 2015

22. Surgical repair of the aortic valve

Lecture - 55th Meeting of the Romanian Society of Cardiology - Sinaia/ Romania 21-25. September 2016

23. Heart Surgery- Past, Present and Future

Lecture - SOMS/Medics- Bucharest 30.Nov-2. Apr. 2017

24. Mitral Valve Repair: From surgical anatomy to surgical strategy

Lecture - 17lea Congres de Medicina Interna - Caciulata / Romania
29.Mar-01.Apr. 2017

25. Aortic valve repair: Standardized techniques with excellent perioperative results also in complex regurgitation mechanisms

Lecture - SRCCV Meeting - Poiana Brasov - Oct. 2017

26. Mitral valve repair: Standard procedure not only for high volume centers

Lecture - SRCCV Meeting - Poiana Brasov - Oct. 2017

27. Minimally invasive mitral valve surgery - Special Lecture - 45 Years of Cardiac Surgery in Tirgu Mures -Tirgu Mures 5-7 Apr. 2018

28. Valve-sparing root replacement: Standardized techniques with only few limitations - Lecture - 2nd meeting "Progrese în Cardiologie și Chirurgie Cardiovasculară", Cluj-Napoca, 17-19 Mai, 2018

29. Aortic root pathologies- Surgical approach - Lecture - 57th Meeting of the Romanian Society of Cardiology Sinaia/Romania 19-23. September 2018

30. Surgical Treatment in Heart Failure - Lecture - Congresul Universitatii de Medicina si Farmacie Carol Davila-

Bucharest/Romania 7-9 June 2018

31. Aortic valve sparing operations: Where are we after two decades? - Lecture - East meets West

Conference Bucharest/ Romania 4-6 Oct 2018

32. Minimally invasive mitral valve surgery: Short and mid-term results using a step-by-step approach- Lecture- Primul congres al societatii romane de chirurgie cardiaca minim invaziva- Cluj/ Romania- 6-7 Iunie 2019

33. Mitral Valve Surgery in dilated cardiomyopathy-International Medical Conference - "Bridge over time: 20 years since the first cardiac transplant in Tirgu Mures"- Special Lecture- Tg. Mures/Romania- Oct 2019

34. The future of aortic root surgery- Lecture- 58th Meeting of the Romanian Society of Cardiology. Sinaia/Romania . September 2019

35. Aortic valve sparing root replacement – What do we know after two decades? – Lecture- 15th meeting of the Romanian Society of Cardiovascular Surgery, Poiana Brasov, Romania October 2019

36. Surgical strategies in mitral regurgitation. Sinaia/Romania. September 2020

PUBLICATII INTERNATIONALE:

h-index - 12

1: Rüdiger Lange*, Catalin C. Badiu*, Manfred Vogt, Bernhard Voss, Jürgen Hörer, Zsolt Prodan, Christian Schreiber, Domenico Mazzitelli
Valve-sparing root replacement in children with aortic root aneurysm: mid-term results

Eur J Cardiothorac Surg. 2013 May;43(5):958-64.

* Both authors contributed equally

2: Catalin Constantin Badiu , Constantinos Sideris, Marcus André Deutsch, Markus Krane, Ina Hettich, Bernhard Voss, Domenico Mazzitelli, Rüdiger Lange

Aortic root replacement: Comparison of clinical outcome between different surgical techniques

Eur J Cardiothorac Surg. 2014 Oct;46(4):685-92

3: Catalin C. Badiu, Bernhard Voss, Magdalena Dorfmeister, Rüdiger Lange Valve-sparing root replacement: Where are the limits?

Tex Heart Inst J 2011;38(6):661-2)

4: Catalin C. Badiu, Sabine Bleiziffer, Walter B. Eichinger, Iva Zaimova, Andrea Hutter, Domenico Mazzitelli, Bernhard Voss, Rüdiger Lange

Are bicuspid aortic valves a limitation for aortic valve repair?

Eur J Cardiothorac Surg. 2011 Nov;40(5):1097-104.

5: Catalin Constantin Badiu, Sabine Bleiziffer, Anke Opitz, Ina Hettich, Marcus-Andre Deutsch, Markus Krane, Bernhard Voss, Rüdiger Lange

Hemodynamic performance of the Biovalsvalva Valved Conduit after Aortic Root Replacement

J Heart Valve Dis. 2014 Jan;23(1):97-104

6: Catalin C. Badiu, Sabine Bleiziffer, Walter B. Eichinger, Ina Hettich, Markus Krane, Robert Bauernschmitt, Rüdiger Lange

Long-term performance of the Hancock bioprosthetic valved conduit in aortic root position

J Heart Valve Dis, 2011. 20(2): p.191-98.

7: Badiu CC, Eichinger W, Bleiziffer S, Hermes G, Hettich I, Krane M, Bauernschmitt R, Lange R.

Should root replacement with aortic valve-sparing be offered to patients with bicuspid valves or severe aortic regurgitation?

Eur J Cardiothorac Surg. 2010 Nov;38(5):515-22. Epub 2010 Apr 18.

8: Badiu CC, Schreiber C, Hörer J, Ruzicka DJ, Wottke M, Cleuziou J, Krane M, Lange R.

Early timing of surgical intervention in patients with Ebstein's anomaly predicts superior long-term outcome.

Eur J Cardiothorac Surg. 2010 Jan;37(1):186-92. Epub 2009 Aug 19.

9: Badiu CC, Eichinger W, Ruzicka D, Hettich I, Bleiziffer S, Bauernschmitt R, Lange R Long-term performance of the Hancock bioprosthetic conduit for aortic root replacement Thoracic and Cardiovascular Surgeon - 01/2008; 56

10: Badiu CC, Vasilescu A, Danet A, Zimnicaru OA, Tudorica S, Blindaru AC, Tudor C How to Perform a Late Explantation of a SapienXT Transcatheter Aortic Prosthesis J. of Cardiac Surgery- 2020- J Card Surg 2020:1-3

.

11: Lange R, Burri M, Eschenbach LK, Badiu CC, da Silva JP, Nagdyman N, Fratz S, Hörer J, Kühn A, Schreiber C, Vogt MO. Da Silva's cone repair for Ebstein's anomaly: effect on right ventricular size and function

Eur J Cardiothorac Surg. 2015 Aug;48(2):316-20

12: Krane M, Deutsch MA, Piazza N, Muhtarova T, Elhmidi Y, Mazzitelli D, Voss B, Ruge H, Badiu CC, Kornek M, Bleiziffer S, Lange R.

One-Year Results of Health-Related Quality-of-Life Among Patients Undergoing Transcatheter Aortic Valve Implantation.

Am J Cardiol. 2012 Jun 15;109(12):1774-81

13: Mazzitelli D, Nöbauer C, Rankin JS, Badiu CC, Krane M, Crooke PS, Cohn WE, Opitz A, Schreiber C, Lange R.

[Early results after implantation of a new geometric annuloplasty ring for aortic valve repair.](#)

Ann Thorac Surg. 2013 Jan;95(1):94-7

14: D. Mazzitelli, C. Nöbauer, J. S. Rankin, C. C. Badiu, M. Dorfmeister, P. S. Crooke, A. Wagner, C. Schreiber, R. Lange Early Results of a Novel Technique for Ring-Reinforced Aortic Valve and Root Restoration

Eur J Cardiothorac Surg. 2013, Nov 12 [Epub ahead of print]

15: Deutsch MA, Krane M, Schneider L, Wottke M, Kornek M, Elhmidi Y, Badiu CC, Bleiziffer S, Voss B, Lange R Health-Related Quality of Life and Functional Outcome in Cardiac Surgical Patients Aged 80 Years and Older: A Prospective Single Center Study

J Card Surg. 2014 Jan;29 (1):14-21

16: Elhmidi Y, Gunzinger R, Deutsch MA, Badiu CC, Krane M, Lage R

Outcomes of Patients Undergoing Third-Time Aortic or Mitral Valve Replacement J Card Surg. 2014 Jan; 29 (1):8-13

17: Krane M, Voss B, Hiebinger A, Deutsch MA, Wottke M, Hapfelmeier A, Badiu CC, Bauernschmitt R, Lange R

[Twenty years of cardiac surgery in patients aged 80 years and older: risks and benefits.](#)

Ann Thorac Surg. 2011 Feb;91(2):506-13.

18: Voss B, Bauernschmitt R, Brockmann G, Krane M, Badiu CC, Lange R

Sternal reconstruction with plates and cables in complicated sternal dehiscence Thoracic and Cardiovascular Surgeon - 01/2010; 58

19: Gozar H, Gozar L, Badiu CC, Suci H- (Corresponding Author) Congenital umbilical arterio-venous malformation: A word of caution Inter CardioVasc and Thor Surg. 2014 May;18(5):688-9

.

20: Krane M, Mazzitelli D, Schreiber U, Garzia AM, Braun S, Voss B, Badiu CC, Brockmann G, Lange R, Bauernschmitt R.

[LIFEBRIDGE B2T--a new portable cardiopulmonary bypass system.](#)

ASAIO J. 2010 Jan-Feb;56(1):52-6.

21: Ruzicka DJ, Hettich I, Hutter A, Bleiziffer S, Badiu CC, Bauernschmitt R, Lange R, Eichinger WB.

[The complete supraannular concept: in vivo hemodynamics of bovine and porcine aortic bioprostheses.](#)

Circulation. 2009 Sep 15;120(11 Suppl):S139-45.

22: Krane M, Bauernschmitt R, Voss B, Badiu CC, Lange R.

[Right ventricular fibroma in a 61-year-old man.](#)

Thorac Cardiovasc Surg. 2009 Jun;57(4):235-7. Epub 2009 May 20.

23: Krane M, Bauernschmitt R, Hiebinger A, Wottke M, Voss B, Badiu CC, Lange R.

[Cardiac reoperation in patients aged 80 years and older.](#)

Ann Thorac Surg. 2009 May;87(5):1379-85.

24: Eichinger W, Badiu CC, Hettich I, DJ Ruzicka, Hutter A, Bleiziffer S, Bauernschmitt R, Lange R

Surgical repair techniques of complex sinus of valsalva aneurysm with perforation or involvement of the coronary ostia Thoracic and Cardiovascular Surgeon-01/2009;56

25: Bleiziffer S, Eichinger WB, Hettich IM, Ruzicka D, Badiu CC, Guenzinger R, Bauernschmitt R, Lange R.

[Hemodynamic characterization of the Sorin Mitroflow pericardial bioprosthesis at rest and exercise.](#)

J Heart Valve Dis. 2009 Jan;18(1):95-100.

26: Krane M, Bauernschmitt R, Hiebinger A, Voss B, Badiu CC, Wottke M, Lange R

No differences in long term survival between primary cardiac surgery and cardiac reoperation in patients aged 80 years and older

Thoracic and Cardiovascular Surgeon- 01/2009;56

27: Krane M, Dummler S, Dressen M, Lahm H, Tesche C, Wildhirt S, Voss B, Badiu CC, Lange R, Bauernschmitt R Identification of an up-regulated

anti-apoptotic gene network in the internal thoracic artery compared to the radial artery

Atherosclerosis Supplements-01/2009; 10(2)

28: Eichinger W, Badiu CC, Ruzicka D, Hettich I, Bleiziffer S, BAuernschmitt R, Lange R Aortic valve-sparing operations: reimplantation vs. remodeling

Thoracic and Cardiovascular Surgeon 01/2008; 56

29: Schreiber C, Heimisch W, Schad H, Brkic A, Badiu C, Lange R, Bauernschmitt R.

C1-INH and its effect on infarct size and ventricular function in an acute pig model of infarction, cardiopulmonary bypass, and reperfusion.

Thorac Cardiovasc Surg. 2006 Jun;54(4):227-32.

.

30: B Voss, R Bauernschmitt, G Brockmann, M Krane, CC Badiu, R Lange

Sternal reconstruction with plates and cables in complicated sternal dehiscence Thoracic and Cardiovascular Surgeon - THORAC CARDIOVASC SURG. 01/2010; 58.

31: W Eichinger, CC Badiu, I Hettich, DJ Ruzicka, A Hutter, S Bleiziffer, R Bauernschmitt, R Lange

Surgical repair techniques of complex sinus of valsalva aneurysms with perforation or involvement of the coronary ostia

The Thoracic and Cardiovascular Surgeon 01/2009; 56

32: M Krane, S Dummler, M Dreßen, H Lahm, C Tesche, S Wildhirt, B Voss, C Badiu, R Lange, R Bauernschmitt

Abstract: 1511 IDENTIFICATION OF AN UP-REGULATED ANTI-APOPTOTIC GENE NETWORK IN THE INTERNAL THORACIC ARTERY COMPARED TO THE RADIAL ARTERY

Atherosclerosis Supplements - ATHEROSCLER SUPPL. 01/2009; 10(2).

33: I Hettich, D Ruzicka, A Hutter, S Bleiziffer, CC Badiu, R Bauernschmitt, W Eichinger, R Lange Bovine and porcine aortic stentless bioprostheses: a hemo

dynamic comparison

Thoracic and Cardiovascular Surgeon - THORAC CARDIOVASC SURG. 01/2008; 56.

34: S. Dummler, M. Krane, M. Dressen, H. Lahm, C. Tesche, H. Hauner, S. Wildhirt, B. Voss, C.C. Badiu, R. Lange, R. Bauernschmitt

Antiapoptotic Network May Contribute to Atherosclerotic Resistance of the Internal Thoracic Artery

Arteriosclerosis Thrombosis and Vascular Biology 29(7):E46-E47. · 6.34 Impact Factor

35: M. Krane, D. Mazzitelli, U. Schreiber, A. Mendoza Garzia, B. Voss, C.C. Badiu, R. Lange, R. Bauernschmitt Conference Paper: First experience with a new portable cardiopulmonary bypass system - LIFE BRIDGE B2T with percutaneous femoral cannulation Computers in Cardiology, 2008; 10/2008

36: Deutsch MA, Prinzing A, Fiegl K, Wottke M, Badiu CC, Krane M, Goppel G, Bleiziffer S, Guenzinger R, Lange R.

Early haemodynamic performance of a latest generation supra-annular aortic bioprosthesis: experience from a large single-centre series.

Eur J Cardiothorac Surg. 2016 Jun;49(6):1691-8. Epub 2015 Dec 10.

37: Kottmaier M, Hettich I, Deutsch MA, Badiu C, Krane M, Lange R, Bleiziffer S.

Quality of life and anxiety in younger patients after biological versus mechanical aortic valve replacement. Thorac Cardiovasc Surg. 2017 Apr; 65(3):198-205. Epub 2016 Jul 5.

DISTINCTII ONORIFICE SI PREMII:

- Lilly-Quality of Life Preis 2013 - Impreuna cu echipa de cercetare pentru studiul cu titlul: " Prospektive Evaluation der Lebensqualität bei Patienten vor und nach kathetergestutzter Aortenklappenimplantation"
- Cetatean de onoare al Municipiului Bucuresti – Decembrie 2018

STUDII FINANTATE SI GRANTURI :

Study Name: HAART 300 Trial

Time Range: 2011 - 2013

Device Name: HAART model 300 annuloplasty ring Exact role (eg. PI, Co-Invest.): Co-Invest.

Type of study (eg. pre-, post-market): pre-market Study Number: EUDAMED CIV-11-09-002501

Study Name: Leistungsfähigkeit und Sicherheit des NeoChord-Nahtgeräts bei Probanden mit degenerativer, schwergradiger Mitralinsuffizienz

Time Range: 2010 -2012

Device Name: NeoChord

Exact role (eg. PI, Co-Invest.): Co-Invest.

Type of study (eg. pre-, post-market): pre-market Study number: Projektnr. 2731/10

Study Name: HAART 300 Trial – Extended Safety and Performance (HAART ESP) Time Range: since 2013

Device Name: HAART model 300 annuloplasty ring

Exact role (eg. PI, Co-Invest.): Co-Invest.

Type of study (eg. pre-, post-market): pre-market

Study number: DIMDI Nr.: 00021477 - Projektnr. 5489/12

Study Name: SURTAVI

Time Range: since 2013

Device Name: Medtronic Core Valve System

Exact role (eg. PI, Co-Invest.): PI

Type of study (eg. pre-, post-market): randomized trial Study Number:Projektnr.: 5512/12

CIV-11-12-003403 - Antragsnr.: 00007841

Study Name: HAART 200: The HAART 200 Aortic Valve Annuloplasty during Bicuspid Aortic –Valve Reconstruction

Trial Time Range: since 2013

Device Name: HAART model 200 bicuspid annuloplasty ring

Exact role (eg. PI, Co-Invest.): Co-Invest.

Type of study (eg. pre-, post-market): pre-market

Study Number: Projektnr. : 5929/13 - DIMDI Nr. :00008208

Study Name: Hämodynamische Funktion des Biovalsalva TM Porcine Aortic Valve Conduit Time Range: 2008-2012

Device Name: Biovalsalva TM Porcine Aortic Valve Conduit

Exact role (eg. PI, Co-Invest.): PI

Type of study (eg. pre-, post-market): post-market, retrospektiv

Study Name: Trifecta Study

Time Range: 2009-2011

Device Name: Trifecta Valve

Exact role (eg. PI, Co-Invest.): Co-Invest.

Type of study (eg. pre-, post-market): post-market Study Number: Projektnr. 2220/08

Study Name: COVEUCV0140

A premarket, prospective, randomized, single blind study to compare the Veriset Hemostatic Patch to Tachosil as an adjunct to hemostasis in subjects undergoing cardiovascular surgery

Time Range: since 2013

Device Name: Veriset Hemostatic Patch

Exact role (eg. PI, Co-Invest.): Co-Invest.

Type of study (eg. pre-, post-market): randomized trial

Study Number: Projektnr. EUDAMED: CIV-12-04-006321

Study Name: Innovative nature of the Helical-type Artery Bypass Graft: Demonstrator/Model

Time Range: 2017 - 2019

Exact role (eg. PI, Co-Invest.): Co-Invest.

Project PNIII – PED235/2017 code PN-III-P2-2.1-PED-2016-0293

Study Name: Dezvoltarea infrastructurii publice de cercetare, dezvoltare si crearea de noi infrastructuri – DIPCDCl

Time Range: 2018 - 2020

Exact role (eg. PI, Co-Invest.): PI/Co- Invest

Cod Proiect: MySMIS 107124

Academia de Stiinte Medicale din Romania Director proiect – Prof. Dr. Radu Deac

ALTE COMPETENTE SI APTITUDINI:

● **2007 - 2014 Instructor - Endoscopic graft harvesting - Datascope**