

# University Heart & Vascular Center Hamburg

Department of Cardiovascular Surgery  
Martinistr. 52 • D-20246 Hamburg  
Germany



## CURRICULUM VITAE

**NAME:** Prof. Dr. med. Christian Detter

**DATE OF BIRTH:** June 8<sup>th</sup>, 1963

**Nationality:** German

**Current Position:** Head, German Aortic Center Hamburg  
Vice Chairman and Professor of Cardiac Surgery,  
Department of Cardiovascular Surgery

**CONTACT:** University Heart & Vascular Center Hamburg (UHZ Hamburg)  
Martinistraße 52, 20246 Hamburg  
E-Mail: [detter@uke.de](mailto:detter@uke.de)

## MEDICAL ADUCATION

1983 – 1990 School of Medicine:  
University of Ancona, Italy  
University of Hamburg, Germany  
University of Michigan, Ann Arbor, USA

1991 License to practice medicine

## DEGREES, CERTIFICATIONS

1993 **Doctoral thesis (MD)**, Magna Cum Laude

1997 **German Board Certification of Cardiac Surgery**

2003 **Habilitation and Venia legendi** (PhD)

2003 **Associate Professor** of Cardiac Surgery

2007 **University Professor** of Cardiac Surgery

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### **POSTGRADUATE TRAINING:**

- |             |  |
|-------------|--|
| 1991 – 1995 | Resident at the Department of Cardiac Surgery, Hospital Großhadern, Ludwig-Maximilians-University, Munich, Germany       |
| 1995 – 1997 | Fellow Surgeon at the Department of Cardiac Surgery, Hospital Augustinum, Ludwig-Maximilians-University, Munich, Germany |
| 1997        | Board Certification for Cardiac Surgery  |

### **HOSPITAL / UNIVERSITY EMPLOYMENT**

- |                 |   |
|-----------------|---|
| 1997 – 1998     | Senior Attendant & Director of Heart Transplantation Program<br>Department of Thoracic- and Cardiovascular Surgery, Johann Wolfgang Goethe-University, Frankfurt/Main, Germany  |
| 1998 – 2001     | Senior Attendant, Department of Cardiac Surgery, Hospital Großhadern, Ludwig-Maximilians-University, Munich, Germany  |
| 2001            | Director, Minimally Invasive Cardiac Surgery, Hospital Großhadern, Ludwig-Maximilians-University, Munich, Germany   |
| 2002 - 2007     | Director, Minimally Invasive and Robotic Cardiac Surgery,<br>Department of Cardiovascular Surgery, UHZ Hamburg, Germany   |
| 2003 - 2007     | Chief Senior Staff Surgeon & Associate Professor of Cardiac Surgery,<br>Department of Cardiovascular Surgery, UHZ Hamburg   |
| 2007 - present  | <b>Vice Chairman &amp; University Professor of Cardiac Surgery,</b><br>Department of Cardiovascular Surgery, UHZ Hamburg  |
| 05/2010-11/2010 | <b>Visiting Professorship at:</b> <ul style="list-style-type: none"><li>- Lenox Hill Hospital, New York (USA)</li><li>- Cleveland Clinic, Cleveland, Ohio (USA)</li><li>- University of Cincinnati; Cincinnati, Ohio (USA)</li><li>- University of Maryland, Baltimore (USA)</li><li>- East Carolina University, North Carolina (USA)</li></ul> |
| 09/2012         | <b>Founding of the German Aortic Center Hamburg,</b> UHZ Hamburg<br>In cooperation with the Department of Vascular Medicine   |
| Since 2012      | <b>Director &amp; Co-Head,</b> German Aortic Center Hamburg   |

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## NATIONAL AND INTERNATIONAL COMMITTEES

2003 - 12	<b>Program Committee Member</b> of the “International Society for Minimally Invasive Cardiothoracic Surgery” (ISMICS)
2005 – 08	<b>Board of Directors</b> of ISMICS
2005 - 10	<b>Board of Directors and Co-Chair</b> , Working group for new technologies of the German Society of Thorax-, Heart- und Vascular Surgery (GSTCVS)
2007	<b>Co-Chair Program Committee</b> , 36. Annual Meeting GSTCVS
2007	<b>Co-Chair Program Committee</b> , 10 <sup>th</sup> Annual Meeting ISMICS, Rome, Italy
2008	<b>International Scientific Committee</b> , 18 <sup>th</sup> World Society of Cardio-Thoracic Surgeons (WSCTS) World Congress 2008, Greece
2011	<b>International Program Committee</b> , ISMICS, Washington DC, USA
2011	<b>Co-Chair</b> , Weiterbildungsseminar, GSTCVS, Hamburg
2012	<b>International Program Committee</b> , ISMICS, Los Angeles, USA
2011-present	<b>Co-Chair, German Aortic Center Hamburg</b>
2013-present	<b>Program Committee</b> , GSTCVS, Germany
2013 + 2015	<b>Co-Chair Masterclass Aortic</b> and Vascular Surgery, Hamburg
2015	<b>Co-Chair FET Anwender-Meeting</b> , Dortmund
2017	<b>Co-Chair 4th Aortic Life</b> Symposium
2019	<b>Invited Faculty &amp; Presenter/ Moderator</b> , 1 <sup>er</sup> Forum Français Technique FET et Thoraflex™ Hybrid, Paris
2020	<b>Co-Chair 6th Aortic Life</b> Symposium
Annually	<b>Co-Chair &amp; Faculty, Moderator</b> Hamburg Heart Days
2021	<b>Faculty &amp; Program Committee</b> Hamburg Valve Repair
2023	<b>Chair</b> , 1 <sup>st</sup> FET Symposium Hamburg
2023	<b>Invited Faculty &amp; Presenter</b> , 1 <sup>st</sup> Aortensymposium Osnabrück
2023	<b>Faculty &amp; Program Committee</b> , Hamburg Valve Repair 2023
2024	<b>Faculty &amp; Program Committee</b> , CX Aortic Live

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## Surgical Interests

- Aortic surgery (expert for complex thoracic aortic surgery, acute dissections, connective tissue disorders and aortic redo-surgery)
- Aortic valve sparing root reconstruction
- Aortic and mitral valve repair techniques
- Complex heart valve surgery
- Myectomy and specific mitral valve repair for HOCM
- Coronary artery bypass surgery using total-arterial revascularization
- Minimally invasive cardiac surgery
  - Multivessel off-pump coronary artery bypass (OPCAB) surgery
  - Minimally invasive direct coronary artery bypass surgery (MIDCAB)
  - Endoscopic mitral valve surgery and ASD closure
- Totally endoscopic surgical treatment of atrial fibrillation
- Robotic Cardiac Surgery using the da Vinci telemanipulator (till 2007)
  - Robotically-enhanced MIDCAB
  - Totally endoscopic robotic mitral valve repair
- Resection of heart tumors
- Heart and lung transplantation
- LV-reduction surgery (Dor plasty)
- Correction of congenital heart defects in adult patients (EMAH)

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## Operationskatalog nur Aortenchirurgie Prof. Dr. C. Detter (Stand 22.11.2024)

### Aortenchirurgie > 1.900 Eingriffe (ca. 150 Aorteneingriffe / Jahr)

Aorta ascendens Ersatz +/- Teilbogen	>500
Aorta ascendens +/- Teilbogen + Klappenersatz/Rekonstruktion	>850
- Klappentragendes Conduit (OP nach Bentall)	>300
- klappenerhaltender Aortenwurzelerersatz (OP nach David/Yacoub)	>300
- Suprakoronarer Ersatz + Klappenersatz (OP nach Wheat)	>250
Aorta ascendens + kompletter Bogenersatz	>500
FET (Aorta ascendens + Bogenersatz + Aorta descendens Ersatz)	260
Aorta descendens Ersatz , isoliert	>30
Thorakoabdominales Aneurysma	27

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### INTERNATIONAL PROFESSIONAL EXPERIENCE

1990	Internship, University of Michigan, Ann Arbor, (USA), Prof. Greenfield
1997	Le Club Mitral, Paris (Frankreich), Prof. A. Carpentier
1998	HeartPort Training, Greenville (USA), Prof. RW Chitwood - Jr.
1999	HeartPort Training, Asheville (USA), Dr. M. Groh
1999	Glasgow (Scotland): Dr. Vanermen und Dr. M. Mack
1999 + 2000	Robotic Training, Helsinki (Finnland), Prof. Werkkala
2000	Minimal Invasive Endoscopic Training, Strasbourg (Frankreich), Prof. P. Nataf, Dr. Cichon
2003	Master of Valve Repair, Advanced Course, Bad Neustadt (Germany), Dr. Perier
2004	Robotic-enhanced MIDCAB Training, Aalst (Belgien), Dr. F. Van Praet
2004	OPCAB Training, Leuven (Belgien), Prof. Sergeant
2005	Robotic Cardiac Surgery Training, Cincinnati (USA), Dr. M. Smith
2010	<b>Visiting Professorship (6 months) at:</b> <ul style="list-style-type: none"> <li>- Lenox Hill Hospital, New York (USA)</li> <li>- Cleveland Clinic, Cleveland, Ohio (USA)</li> <li>- University of Cincinnati; Cincinnati, Ohio (USA)</li> <li>- University of Maryland, Baltimore (USA)</li> <li>- East Carolina University, North Carolina (USA)</li> </ul>
2011	Master of Aortic Valve and Root, Homburg/Saar (Germany), Prof. Schäfers
2013	Master of Valve Therapy, Monte Carlo (Monaco), Prof. Dreyfus
2016-present	<b>International Thoraflex Hybrid Trainer &amp; Proctor for Terumo Aortic</b>
2016-present	<b>Several national &amp; international live surgery presentations</b> for thoracic aortic surgery (FET, David procedure)
2016-present	Two-day <b>FET training course</b> with presentation and live surgery (~26)

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### Drittmittel und Forschungsprojekte Aorten Chirurgie

1. 2016 – 2018 Entwicklung eines Verfahrens zur Vereinfachung der „Frozen Elephant Trunk“ Technik zur chirurgischen Versorgung von thorakalen Erkrankungen “ in Kooperation mit Vascutek Deutschland (Detter)
2. 2016 – 2020 FET Thoraflex Postmarket Studie, 45.000 € (Detter, Brickwedel, Bax, Demal)
3. Seit 2021 Interdisziplinäres Aortenregister „AortOmics“: Klinische Datenerhebung, Biobanking, Genetische und Proteomanalysen (Demal, v. Kodolitsch, Schlein, Worthmann, Detter, Rosenberger)
4. 04/2022 – 10/2023 Thorakale Aortenerkrankung: Identifizierung diagnostischer zirkulierender Biomarker mittels Proteomanalyse, DFG-Nachwuchsakademie Herzchirurgie, DFG, 96.000 € (Demal, Detter, Rosenberger)
5. 2020 – 2024 Erbliche Aortenerkrankungen: Identifizierung und funktionelle Analyse neuer krankheitsverursachender Gene, DZHK Clinician Scientist Programm, DZHK, 136.000 € (Demal, Detter, Rosenberger)
6. Seit 2016 Proctering and International Training of the simplified FET Technique 54.000 € (Detter)
7. 2024 Entwicklung einer modifizierten FET Prothese für die „simplified FET Technik“ in Kooperation mit Vascutek, Inchinnan, UK, Terumo Aortic (Detter)

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## **REVIEWER**

- Circulation - Journal of the American Heart Association
- Journal of the American Heart Association
- Annals of Thoracic Surgery
- European Journal of Cardiothoracic Surgery
- Interactive CardioVascular and Thoracic Surgery
- Vessel Plus
- Expert Review of Cardiovascular Therapy
- The Journal of Cardiovascular Surgery
- Journal of Cardiovascular Diseases
- The Thoracic and Cardiovascular Surgeon
- Cardiovascular Diagnosis and Therapy
- Minimally Invasive Therapy & Allied Technologies
- Heart Surgery Forum
- Zeitschrift für Kardiologie
- Journal of Cardiothoracic Surgery

## **MEMBERSHIPS**

- German Society for Thoracic and Cardiovascular Surgery (GSTCVS)
- International Society for Minimally Invasive Cardiac Surgery (ISMICS)
- European Association for Cardiothoracic Surgery (EACTS)
- Working Group for New Technologies of GSTCVS
- Scientific Board of Cardio Guide



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### Awards

- 2007            **Nachwuchsförderpreis** der 36.Jahrestagung der DGTHG  
Thema „Validierung der Fluoreszenzangiographie zum Nachweis nicht-  
flusslimitierender-Stenosen“  
AG Dr. S. Wipper / Prof. Dr. C. Detter
- 2009            “**Forschungsförderfond** der Medizinischen Fakultät der Universität  
Hamburg (FFM) - **Nachwuchsförderung**”  
AG Dr. S. Wipper / Prof. Dr. C. Detter
- 2011            **Forschungspreis** der Vereinigung Norddeutscher Gefäßmediziner  
zum Thema „Fluoreszenzangiographie“  
AG Dr. S. Wipper / Prof. Dr. C. Detter
- 2011            **Jörg Vollmar Preis** zum Thema „Myeloperoxidase deficiency  
preserves vasomotor function in humans.”  
AG Dr. S. Wipper/ Prof. Dr. C. Detter/ Prof. Dr. S. Baldus
- 2011            **Günter-Haenisch Forschungspreis** zum Thema „Transseptaler  
Zugang zur Aorta ascendens, Aortenbogen und supraaortale Arterien-  
Untersuchungen zur endovaskulären Machbarkeit und Hämodynamik“  
AG Dr. S. Wipper / Prof. Dr. C. Detter / PD Dr. Koelbel

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### Publikationen Aorten Chirurgie Prof. Dr. C. Detter

1. Kreibich M, Pitts L, Kempfert J, Yildiz M, Schönhoff F, Gaisendrees C, Luehr M, Berger T, Demal T, Jahn J, Kremer J, Dumfarth J, Grimm M, Pfeiffer P, Dohle DS, Dietze Z, Leontyev S, Voetsch A, Krombholz-Reindl P, Nagel F, Finster A, Czerny M, **Detter C**. Multicentre frozen elephant trunk technique experience as redo surgery to treat residual type A aortic dissections following ascending aortic replacement. *Eur J Cardiothorac Surg*. 2024 Nov 8:ezae401. doi: 10.1093/ejcts/ezae401.
2. Claus J, Schoof L, Mir TS, Kammal AL, Schön G, Kutsche K, Behrendt CA, Kallenbach K, Kölbel T, Kubisch C, Demal TJ, Petersen J, Brickwedel J, Hübler M, **Detter C**, Kirchhof P, Debus ES, Rybczynski M, von Kodolitsch Y. Late diagnosis of Marfan syndrome is associated with unplanned aortic surgery and cardiovascular death. *J Thorac Cardiovasc Surg*. 2024 Sep 19:S0022-5223(24)00814-6. doi: 10.1016/j.jtcvs.2024.09.016.
3. Nana P, Spanos K, Panuccio G, Rohlfes F, **Detter C**, von Kodolitsch Y, Torrealba JI, Kölbel T. Branched and fenestrated endovascular aortic arch repair in patients with native proximal aortic landing zone. *J Vasc Surg*. 2024 Sep;80(3):621-629.e3. doi: 10.1016/j.jvs.2024.03.444.
4. Rohlfes F, Nana P, Panuccio G, Torrealba JI, Tsilimparis N, Rybczynski M, **Detter C**, Kölbel T. A Retrospective Analysis of 10-year Experience on Branched and Fenestrated Endovascular Aortic Arch Repair. *Ann Surg*. 2024 Mar 19. doi: 10.1097/SLA.0000000000006271.
5. Brickwedel J, Demal TJ, **Detter C**. Analysing debranching techniques in Frozen Elephant Trunk procedures: a narrative literature review. *Cardiovasc Diagn Ther*. 2023 Apr 28;13(2):427-439. doi: 10.21037/cdt-22-502. Epub 2023 Mar 22.
6. Rohlfes F, Grandi A, Panuccio G, **Detter C**, von Kodolitsch Y, Kölbel T. Endovascular Options for the Ascending Aorta and Aortic Arch: A Scoping Review. *Ann Vasc Surg*. 2023 Aug;94:102-118. doi: 10.1016/j.avsg.2023.06.004.
7. Demal TJ, Sitzmann FW, Bax L, von Kodolitsch Y, Brickwedel J, Konertz J, Gaekel DM, Sadeq AJ, Kölbel T, Vettorazzi E, Reichenspurner H, **Detter C**. Risk factors for impaired neurological outcome after thoracic aortic surgery. *J Thorac Dis*. 2022 Jun;14(6):1840-1853.
8. Kölbel T, Eleshra A, Aldag M, Rohlfes F, Debus SE, Honig S, **Detter C**, von Kodolitsch Y, Tsilimparis N, Panuccio G. Endovascular Treatment of Aortic Pathologies in Patients With Marfan Syndrome: Single-Center Experience. *J Endovasc Ther*. 2022 Aug;29(4):602-610.
9. Brickwedel J, Reichenspurner H, Kölbel T, Detter C. Modified use of a 4-branched frozen elephant trunk prosthesis for treatment of a right-sided aortic arch aneurysm with an aberrant left subclavian artery. *Interact Cardiovasc Thorac Surg*. 2022 Jun 1;34(6):1177-1179.

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10. Spanos K, Nana P, von Kodolitsch Y, Behrendt CA, Kouvelos G, Panuccio G, Athanasiou T, Matsagkas M, Giannoukas A, **Detter C**, Kölbel T. Management of Ascending Aorta and Aortic Arch: Similarities and Differences Among Cardiovascular Guidelines. *J Endovasc Ther.* 2021 Dec 7:15266028211061271.
11. Farag M, Büsch C, Rylski B, Pöling J, Dohle DS, Sarvanakis K, Hagl C, Krüger T, **Detter C**, Holubec T, Borger MA, Böning A, Karck M, Arif R; German Registry for Acute Aortic Dissection Type A Working Group of the German Society of Thoracic, Cardiac and Vascular Surgery. Early outcomes of patients with Marfan syndrome and acute aortic type A dissection. *J Thorac Cardiovasc Surg.* 2021 Jul 21:S0022-5223(21)01123-5. doi: 10.1016/j.jtcvs.2021.07.024
12. Biancari F, Mariscalco G, Yusuff H, Tsang G, Luthra S, Onorati F, Francica A, Rossetti C, Perrotti A, Chocron S, Fiore A, Folliguet T, Pettinari M, Dell'Aquila AM, Demal T, Conradi L, **Detter C**, Pol M, Ivak P, Schlosser F, Forlani S, Chetty G, Harky A, Kuduvalli M, Field M, Vendramin I, Livi U, Rinaldi M, Ferrante L, Etz C, Noack T, Mastrobuoni S, De Kerchove L, Jormalainen M, Laga S, Meuris B, Schepens M, Dean ZE, Vento A, Raivio P, Borger M, Juvonen T. Correction to: European registry of type A aortic dissection (ERTAAD) - rationale, design and definition criteria. *J Cardiothorac Surg.* 2021 Aug 9;16(1):225. doi: 10.1186/s13019-021-01606-8.
13. Duprée A, Rieß H, von Kroge PH, Izbicki JR, Debus ES, Mann O, Pinnschmidt HO, Russ D, **Detter C**, Wipper SH. Intraoperative quality assessment of tissue perfusion with indocyanine green (ICG) in a porcine model of mesenteric ischemia. *PLoS One.* 2021 Jul 20;16(7):e0254144. doi: 10.1371/journal.pone.0254144. eCollection 2021.
14. Biancari F, Mariscalco G, Yusuff H, Tsang G, Luthra S, Onorati F, Francica A, Rossetti C, Perrotti A, Chocron S, Fiore A, Folliguet T, Pettinari M, Dell'Aquila AM, Demal T, Conradi L, **Detter C**, Pol M, Ivak P, Schlosser F, Forlani S, Chetty G, Harky A, Kuduvalli M, Field M, Vendramin I, Livi U, Rinaldi M, Ferrante L, Etz C, Noack T, Mastrobuoni S, De Kerchove L, Jormalainen M, Laga S, Meuris B, Schepens M, El Dean Z, Vento A, Raivio P, Borger M, Juvonen T. European registry of type A aortic dissection (ERTAAD) - rationale, design and definition criteria. *J Cardiothorac Surg.* 2021 Jun 10;16(1):171. doi: 10.1186/s13019-021-01536-5.
15. Kari FA, Misfeld M, Borger M, Rylski B, Zimmer E, Siepe M, Hagl C, **Detter C**, Petersen J, Tselodub S, Richardt D, Werner P, Andreas M, Pichlmaier M, Mueller CS. German Aortic Root Repair Registry-Insights From the First 400 Consecutive Patients. *Ann Thorac Surg.* 2021 Apr 1:S0003-4975(21)00587-7. doi: 10.1016/j.athoracsur.2021.03.060.
16. Demal TJ, Bax L, Brickwedel J, Kölbel T, Vettorazzi E, Sitzmann F, Reichenspurner H, **Detter C**. Outcome of the frozen elephant trunk procedure as a redo operation. *Interact Cardiovasc Thorac Surg.* 2021 Jun 28;33(1):85-92. doi: 10.1093/icvts/ivab059.

## University Heart & Vascular Center Hamburg

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17. **Detter C**, Brickwedel J. The goal of simplifying complex aortic arch surgery. Eur J Cardiothorac Surg. 2021 Jun 14;59(6):1254-1255. doi: 10.1093/ejcts/ezab075.
18. von Kodolitsch Y, Prokoph M, Sachweh A, Kölbel T, **Detter C**, Berger J, Wick T, Debus S, Blankart CR. How military history can inspire medical intervention. Cardiovasc Diagn Ther. 2020 Dec;10(6):2048-2053. doi: 10.21037/cdt.2020.03.06.
19. Duprée A, Rieß HC, von Kroge PH, Izbicki JR, Debus ES, Mann O, Pinnschmidt HO, Russ D, **Detter C**, Wipper SH. Validation of quantitative assessment of indocyanine green fluorescent imaging in a one-vessel model. PLoS One. 2020 Nov 18;15(11):e0240188. doi: 10.1371/journal.pone.0240188. eCollection 2020.
20. Czerny M, Siepe M, Beyersdorf F, Feisst M, Gabel M, Pilz M, Pöling J, Dohle DS, Sarvanakis K, Luehr M, Hagl C, Rawa A, Schneider W, **Detter C**, Holubec T, Borger M, Böning A, Rylski B. Prediction of mortality rate in acute type A dissection: the German Registry for Acute Type A Aortic Dissection score. Eur J Cardiothorac Surg. 2020 Oct 1;58(4):700-706. doi: 10.1093/ejcts/ezaa156.
21. Mühlstädt K, De Backer J, von Kodolitsch Y, Kutsche K, Muiño Mosquera L, Brickwedel J, Girdauskas E, Mir TS, Mahlmann A, Tsilimparis N, Staebler A, Schoof L, Seidel H, Berger J, Bernhardt AM, Blankenberg S, Kölbel T, **Detter C**, Szöcs K, Kaemmerer H. Case-matched Comparison of Cardiovascular Outcome in Loeys-Dietz Syndrome versus Marfan Syndrome. J Clin Med. 2019 Nov 29;8(12).
22. Duprée A, Rieß H, **Detter C**, Debus ES, Wipper SH. Utilization of indocyanine green fluorescent imaging (ICG-FI) for the assessment of microperfusion in vascular medicine. Innov Surg Sci. 2018 Sep 5;3(3):193-201.
23. Schaefer A, Schofer N, Goßling A, Seiffert M, Schirmer J, Deuschl F, Schneeberger Y, Voigtländer L, **Detter C**, Schaefer U, Blankenberg S, Reichenspurner H, Conradi L, Westermann D. Transcatheter aortic valve implantation versus surgical aortic valve replacement in low-risk patients: a propensity score-matched analysis. Eur J Cardiothorac Surg. 2019 Dec 1;56(6):1131-1139.
24. Tsilimparis N, Drewitz S, **Detter C**, Spanos K, von Kodolitsch Y, Rohlfes F, Reichenspurner H, Debus ES, Kölbel T. Endovascular Repair of Ascending Aortic Pathologies With Tubular Endografts: A Single-Center Experience. J Endovasc Ther. 2019 Aug;26(4):439-445.
25. **Detter C**, Demal TJ, Bax L, Tsilimparis N, Kölbel T, von Kodolitsch Y, Vettorazzi E, Reichenspurner H, Brickwedel J. Simplified frozen elephant trunk technique for combined open and endovascular treatment of extensive aortic diseases. Eur J Cardiothorac Surg. 2019 Oct 1;56(4):738-745.

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26. Tsilimparis N, **Detter C**, Law Y, Rohlfes F, Heidemann F, Brickwedel J, von Kodolitsch Y, Debus ES, Kölbl T. Single-center experience with an inner branched arch endograft. J Vasc Surg. 2019 Apr;69(4):977-985.
27. Law Y, Kölbl T, **Detter C**, Rohlfes F, von Kodolitsch Y, Makaloski V, Debus ES, Tsilimparis N. Emergency Use of Branched Thoracic Endovascular Repair in the Treatment of Aortic Arch Pathologies. Ann Thorac Surg. 2019 Jun;107(6):1799-1806
28. Law Y, Kölbl T, Schirmer J, Aleed S, Mogensen J, Debus ES, **Detter C**, Tsilimparis N. Transapical Access for Antegrade Catheterization of the Inner Branches of an Arch Stent-Graft Deployed Distal to an Ascending Arch Stent-Graft. J Endovasc Ther. 2018;25:542-546.
29. Tsilimparis N, **Detter C**, Heidemann F, Spanos K, Rohlfes F, von Kodolitsch Y, Debus SE, Kölbl T. Branched endografts in the aortic arch following open repair for DeBakey Type I aortic dissection. Eur J Cardiothorac Surg. 2018 1;54:517-523.
30. Spanos K, Tsilimparis N, Rohlfes F, Wipper S, **Detter C**, Behrendt CA, Debus SE, Kölbl T. Total endovascular arch repair is the procedure of the future. Part I. J Cardiovasc Surg (Torino). 2018 Aug;59(4):559-571. Review.
31. von Kodolitsch Y, Wilson O, Schüler H, Larena-Avellaneda A, Kölbl T, Wipper S, Rohlfes F, Behrendt C, Debus ES, Brickwedel J, Girdauskas E, **Detter C**, Bernhardt AM, Berger J, Blankenberg S, Reichenspurner H, Ghazy T, Matschke K, Hoffmann RT, Weiss N, Mahlmann A. Warfarin anticoagulation in acute type A aortic dissection survivors (WATAS). Cardiovasc Diagn Ther. 2017 Dec;7(6):559-571.
32. Sachweh A, von Kodolitsch Y, Kölbl T, Larena-Avellaneda A, Wipper S, Bernhardt AM, Girdauskas E, **Detter C**, Reichenspurner H, Blankart CR, Debus ES. └ SWOT as instrument to individually optimize therapy of thoracoabdominal aortic aneurysms: Effective, norm-compliant and meeting the needs. Gefasschirurgie 2017;22(Suppl 1):8-16.
33. Debus ES, Kölbl T, Wipper S, Diener H, Reiter B, **Detter C**, Tsilimparis N. Reversed Frozen Elephant Trunk Technique to Treat a Type II Thoracoabdominal Aortic Aneurysm. J Endovasc Ther. 2017 Apr;24(2):277-280.
34. Kölbl T, **Detter C**, Carpenter SW, Rohlfes F, von Kodolitsch Y, Wipper S, Reichenspurner H, Debus ES, Tsilimparis N. Acute Type A Aortic Dissection Treated Using a Tubular Stent-Graft in the Ascending Aorta and a Multibranched Stent-Graft in the Aortic Arch. J Endovasc Ther. 2017 Feb;24(1):75-80.
35. von Kodolitsch Y, Rybczynski M, Vogler M, Mir TS, Schüler H, Kutsche K, Rosenberger G, **Detter C**, Bernhardt AM, Larena-Avellaneda A, Kölbl T, Debus ES, Schroeder M, Linke SJ, Fuisting B, Napp B, Kammal AL, Püschel K, Bannas P, Hoffmann BA, Gessler N, Vahle-Hinz E, Kahl-Nieke B, Thomalla G, Weiler-Normann C, Ohm G, Neumann S, Benninghoven D, Blankenberg S, Pyeritz RE. The role of the

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Martinistr. 52 • D-20246 Hamburg  
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Department of Cardiovascular Surgery  
Martinistr. 52 • D-20246 Hamburg  
Germany

## Book Chapters Aorten Chirurgie

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