

CURRICULUM VITAE

DANIEL WENDT, M.D.



PERSONAL DATA:

Name: Dr. med. Daniel Wendt

Date of birth, place: September 30, 1976, Essen, Germany

Citizenship: Essen

Nationality: German

Marital status: Married

Professional Address: Klinik für Thorax- und Kardiovaskuläre Chirurgie
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PRESENT ACADEMIC RANK AND POSITION:

Assistant doctor, Clinic of Thoracic- and Cardiovascular Surgery, West German Heart Center Essen, Germany

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| 1997 – 2004 | Medical School, Universität Gesamthochschule Duisburg-Essen, Essen, Germany |
| 2000 – 2006 | Dissertation („Dr. med.”): “Deleterious effects of oxygen during extracorporeal circulation for the microcirculation in vivo” |
| since 07/2004 | Clinic of Thoracic and Cardiovascular Surgery, West German Heart Center Essen, Germany, Post-Doc Research Fellowship |

Institutional affiliation:

West German Heart Center Essen, University Hospital Essen, Clinic for Thoracic and Cardiovascular Surgery

Speciality:

- Adult cardiac surgery
- Interventional cardiac surgery
- Minimal-invasive cardiac surgery

Interests:

- Outcome research
- Heart and lung transplantation
- Aortic valve surgery / experimental
- Biofluidynamics / Flow Simulation
- Minimal invasive (video-assisted) valve surgery
- Endovascular aortic therapy
- Transcatheter heart valve implantation (aortic, mitral)

Memberships:

- German Society for Thoracic and Cardiovascular Surgery
- Cardiothoracic Surgery Network
- European Society of Cardiothoracic Surgery
- Society of Thoracic Surgeons
- Society for Medical Innovations and Technology

Manuscript Reviewer:

- European Journal of Cardiothoracic Surgery, since 2007
- Interactive CardioVascular and Thoracic Surgery, since 2007
- American Heart Journal, since 2008
- Journal of Heart Valve Disease, since 2009
- Future Cardiology, since 2008
- European Journal of Radiology, since 2008
- Medical science monitor, since 2008

Honors & Awards:

- IFORES Young Investigator Award of the University Hospital Essen, 2004
- Deichmann Award, Society of Cardiovascular Research e.V., Essen, 2008

Peer reviewed publications:

1. Kamler M, **Wendt D**, Pizanis N, Milekhin V, Schade U, Jakob H. Deleterious effects of oxygen during extracorporeal circulation for the microcirculation in vivo. Eur J Cardiothorac Surg. 2004 Sep;26:564-70.
2. Kamler M, **Wendt D**, Szabó A, Wiese I, Kottenberg-Assenmacher E, Buck T, Jakob H. Video-assisted cardiac valve surgery. Herz. 2006 Aug;31:396-403.
3. Thielmann M, Neuhäuser M, Marr A, Jaeger BR, **Wendt D**, Schuetze B, Kamler M, Massoudy P, Erbel R, Jakob H. Lipid-lowering effect of preoperative statin therapy on postoperative major adverse cardiac events after coronary artery bypass surgery. J Thorac Cardiovasc Surg 2007;134:1143-9.

4. **Wendt D**, Thielmann M, Buck T, Janosi A, Bossert T, Pizanis N, Kamler M, Jakob H, Clinical experience and one year follow-up of the sutureless 3F-Enable aortic-valve prosthesis. *Eur J Cardiothorac Surg*; 2008;33:542-547.
5. **Wendt D**, Kamler M, Jakob H. Coronary artery bypass surgery after lung injury due to a displaced atrial pacemaker lead. *Thorac Cardiovasc Surg*; 2008;56:181-2.
6. **Wendt D**, Stühle S, Kawa E, Thielmann M, Kipfmüller B, Wendt H, Hauck F, Vogel B, Fischer H, Jakob H. NiTiInol-based cutting edges for endovascular heart valve resection: first in-vitro cutting results. *Minim Invasive Ther Allied Technol*. 2009;18:1-7.
7. **Wendt D**, Müller W, Hauck F, Thielmann M, Wendt H, Kipfmüller B, Vogel B, Jakob H. In vitro results of a new minimally invasive aortic valve resecting tool. *Eur J Cardiothorac Surg*; 2009;35:622-7.
8. Pizanis N, Heckmann J, **Wendt D**, Tsagakakis K, Jakob H, Kamler M. Improvement of pulmonary microcirculation after lung transplantation using phosphodiesterase-5 inhibitor modified preservation solution. *Eur J Cardiothoracic Surg*; 2009;35:801-6.
9. **Wendt D**, Eggebrecht H, Kahlert P, Thielmann M. Successful transapical aortic valve implantation four weeks before 97th birthday. *Interact Cardiovasc Thorac Surg*. 2009;8:684-6.
10. János RA, Kahlert P, Plicht B, Böse D, **Wendt D**, Thielmann M, Jakob H, Eggebrecht H, Erbel R, Buck T. Guidance of percutaneous transcatheter aortic valve implantation by real-time three-dimensional transesophageal echocardiography - A single-center experience. *Minim Invasive Ther Allied Technol*. 2009;1:142-148.
11. Thielmann M, Eggebrecht H, **Wendt D**, Kahlert P, Ideler B, Kottenberg-Assenmacher E, Erbel R, Jakob H. New techniques for the treatment of valvular aortic stenosis - transcatheter aortic valve implantation with the SAPIEN heart valve. *Minim Invasive Ther Allied Technol*. 2009;1:131-141.

12. Hauck F, **Wendt D**, Müller W, Stühle S, Wendt H, Thielmann M, Kipfmüller B, Vogel B, Jakob H. A new tool for the resection of aortic valves: In-vitro results for turning moments and forces using Nitinol cutting edges. *Minim Invasive Ther Allied Technol.* 2009;1:164-171.
13. **Wendt D**, Thielmann M, Pizanis N, Jánosi RA, Kamler M, Jakob H. Sutureless aortic valves over the last 45 years. *Minim Invasive Ther Allied Technol.* 2009;1:122-130.
14. **Wendt D**, Osswald BR, Kayser K, Thielmann M, Tossios P, Massoudy P, Kamler M, Jakob H. Society of Thoracic Surgeons Score is Superior to the EuroSCORE Determining Mortality in High Risk Patients Undergoing Isolated Aortic Valve Replacement. *Ann Thoracic Surg.* 2009;88:468-74
15. Hauck F, **Wendt D**, Stühle S, Kawa E, Wendt H, Müller W, Thielmann M, Kipfmüller B, Vogel B, Jakob H. Use of Circular Foldable Nitinol Blades for Resecting Calcified Aortic Heart Valves. *Journal of Materials Engineering and Performance* 2009;18:463-9.
16. Stühle S, **Wendt D**, Wendt H, Thielmann M, Kipfmüller B, Hauck F, Vogel B, Jakob H. Implementation of a programmable linear motor in a new minimal– invasive aortic valve resection tool. *IFMBE proceedings* 2009.
17. **Wendt D**, Eggebrecht H, Kahlert P, Heine T, Kottenberg E, Massoudy P, Kamler M, Peters J, Erbel R, Jakob H, Thielmann M. Experience and learning curve with transapical aortic valve implantation. *Herz.* 2009;34:388-97.
18. Kahlert P, Al-Rashid F, Weber M, **Wendt D**, Heine T, Kottenberg E, Thielmann M, Kühl H, Peters J, Jakob HG, Sack S, Erbel R, Eggebrecht H. Vascular access site complications after percutaneous transfemoral aortic valve implantation. *Herz.* 2009;34:398-408.
19. Kamler M, **Wendt D**, Pul U, Thielmann M, Buck T, Kottenberg E, Erbel R, Jakob H. Minimally invasive heart and mitral valve surgery. *Herz.* 2009;34:436-42.
20. Thielmann M, Mechmet A, Neuhäuser M, **Wendt D**, Knipp S, Canbay A, Massoudy P, Jakob H. Risk prediction and outcomes in

- patients with liver cirrhosis undergoing open-heart surgery. Eur J Cardiothoracic Surg; 2009 (in press)
21. Pizanis N, Heckmann J, Tsagakis K, Tossios P, Massoudy P, **Wendt D**, Jakob H, Kamler M. Lung transplantation using donors 55 years and older: is it safe or just a way out of organ shortage? Eur J Cardiothoracic Surg; 2009 (in press)
 22. Thielmann M, **Wendt D**, Eggebrecht H, Kahlert Ph, Michalczyzyn P, Kottenberg E, Buck T, Massoudy P, Kamler M, Erbel R, Jakob H, Sack S. Transcatheter aortic valve implantation in patients with very high risk for conventional valve replacement. Ann Thoracic Surg; 2009 (in press)
 23. **Wendt D**, Buck T, Jánosi RA, Thielmann M, Uensal P, Neuhäuser M, Piotrowski JA, Massoudy P, Kamler M, Erbel R, Jakob H. Results of a propensity score matched comparison of the Perimount Magna ans the Mosaci Ultra aortic valve prosthesis. Journal of Heart Valve Disease; 2009 (in press).
 24. **Wendt D**, Osswald BR, Thielmann M, Kayser K, Tossios P, Massoudy P, Kamler M, Jakob H. The EuroSCORE – still helpful in patients undergoing isolated aortic valve replacement? Interact Cardiovasc Thorac Surg. 2009 (in press).
 25. Kahlert Ph, Eggebrecht H, Thielmann M, **Wendt D**, JakobH, Sack S, Erbel R. Transfemoral Aortic Valve Implantation in a Patient with Prior Mechanical Mitral Valve Replacement. Herz. 2009 (in press).

Published Abstracts:

1. Marggraf G, **Wendt D**, Hamsen U, Tsagakis K, Thielmann M, Jakob H. Oral administration of tadalafil decreases mean pulmonary pressure after cardiac surgery. The Thoracic and Cardiovascular Surgeon; S 1, 2006.
2. Tsagakis K, Marggraf G, Leyh R, Thielmann M, Pizanis N, **Wendt D**, Niebel W, Jakob H. Early postoperative predictors of intestinal ischemia after cardiac surgery. The Thoracic and Cardiovascular Surgeon; S 1, 2006.

3. Hamsen U, Aleksic I, Leyh R, Sommer SP, **Wendt D**, Marggraf G, Jakob H. Heart surgery in patients with cirrhosis. The Thoracic and Cardiovascular Surgeon; S 1, 2006.
4. **Wendt D**, Thielmann M, Buck T, Janosi A, Bossert T, Pizanis N, Kamler M, Jakob H, Clinical experience and one year follow-up of the sutureless 3F-Enable aortic-valve prosthesis. EACTS (Geneva) 15.-19. September 2007.
5. **Wendt D**, Stühle S, Kawa E, Thielmann M, Kipfmüller B, Wendt H, Hauck F, Fischer H, Jakob H. Improvement of NITINOL-based cutting edges for endoscopic heart valve resection. SMIT Sendai (Japan) 20.-22. November 2007.
6. Buck T, Janosi A, **Wendt D**, Eickert M, Plicht P, Kamler M, Jakob H, Erbel R. Echocardiographic detection of high pressure gradients and small orifice areas in a novel aortic valve bioprosthesis necessitating termination of utilization. ESC Congress Vienna, 1.-5. September 2007.
7. Sack S, Kahlert P, Weber M, Khandanpour S, **Wendt D**, Thielmann M, Kottenberg-Assenmacher E, Peters J, Jakob H, Erbel R. Percutaneous Aortic Valve Implantation: A New Therapeutic Option for Selected High-Risk Patients with Aortic Stenosis. DGK, Mannheim (Deutschland) 27.-29. März 2008.
8. Thielmann M, Massoudy P, Holst T, Marr A, **Wendt D**, Barnscheidt M, Marggraf G, Kamler M, Jakob H. Diagnostic Value Of Ischemia Modified Albumin In The Perioperative Setting Of Coronary Artery Bypass Surgery. ISMICS, Boston (USA) 11.-14. June 2008.
9. **Wendt D**, Stühle S, Müller W, Thielmann M, Kawa E, Kipfmüller B, Wendt H, Hauck F, Vogel B, Jakob H. Turning moment during heart valve resection: In vitro results using Nitinol cutting edges. SMIT, Wien (Österreich) 28.-30. August 2008.
10. **Wendt D**, Kawa E, Stühle S, Thielmann M, Tsagakis K, Kipfmüller B, Wendt H, Hauck F, Vogel B, Jakob H. Design of a novel artificial flow channel for transapical instrument-testing in cardiac surgery. SMIT, Wien (Österreich) 28.-30. August 2008.

11. **Wendt D**, Stühle S, Müller W, Kawa E, Thielmann M, Kipfmüller B, Wendt H, Hauck F, Vogel B, Jakob H. Does thermal shape setting process influence sharpness of Nitinol cutting edges? SMIT, Wien (Österreich) 28.-30. August 2008.
12. Hauck F, **Wendt D**, Stühle S, Kawa E, Wendt H, Müller W, Thielmann M, Kipfmüller B, Vogel B, Jakob H. Use of circular foldable Nitinol-blades for resecting calcified aortic heart valves. SMST, Stresa (Italien) 21.-25. September 2008.
13. Wojciech Kowalczyk W, Tsagakis K, **Wendt D**, von Sobbe S, Najafi A, Kipfmüller B, Jakob H. Experimental and numerical investigation of a fluid flow in a model ascending aorta with dissection. SMIT, Wien (Österreich) 28.-30. August 2008.
14. **Wendt D**, Müller W, Hauck F, Thielmann M, Wendt H, Kipfmüller B, Vogel B, Jakob H. In-vitro results of a new minimal-invasive aortic valve resecting-tool. EACTS, Lissabon (Portugal) 13.-17. September 2008.
15. Thielmann M, **Wendt D**, Kahlert P, Eggebrecht H, Kottenberg-Assemacher E, Janosi A, Buck T, Peters J, Erbel R, Jakob H, Sack S. Transcatheter Off-pump Aortic Valve Implantation In Patients With Very High Risk For Conventional Aortic Valve Replacement. American Heart, New Orleans (USA) 08.-12. November 2008.
16. **Wendt D**, Osswald B, Kayser K, Thielmann M, Tossios P, Massoudy P, Kamler M, Jakob H. STS-Score is superior to the Euroscore determining Mortality in high risk patients undergoing isolated aortic valve replacement. STS, San Franzisko (USA) 26.-28. Januar 2009.
17. **Wendt D**, Thielmann M, Pul U, Neuhäuser M, Buck T, Janosi A, Kamler M, Jakob H. Perimount Magna versus Mosaic Ultra aortic valve prosthesis: A propensity score matched study. DGTHG, Stuttgart (Deutschland) 15.-18. Februar 2009.
18. **Wendt D**, Osswald B, Kayser K, Thielmann M, Tossios P, Massoudy P, Kamler M, Jakob H. Evaluation of "high risk" patients undergoing isolated aortic valve replacement. DGTHG, Stuttgart (Deutschland) 15.-18. Februar 2009.

19. Hou G, **Wendt D**, Stühle S, Jakob H, Kowalczyk W. Modeling and numerical simulation of fluid flow induced by the sutureless 3F-Enable aortic valve. GAMM, Gdansk, (Polen) 9.-13. Februar.
20. Massoudy P, Schmidt D, Wasserfuhr D, **Wendt D**, Thielmann M, Kamler M, Kühl H, Jakob H. Comparison of sequential LITA grafting and separate LITA and venous grafting? A five year follow-up. 58th ESCVS, Warschau (Polen), 30. April – 2. Mai 2009.
21. **Wendt D**, Stühle S, Wendt H, Thielmann M, Kipfmüller B, Hauck F, Vogel B, Jakob H. Cutting accuracy in a new minimal-invasive aortic valve resecting device. 58th ESCVS, Warschau (Polen), 30. April – 2. Mai 2009.
22. **Wendt D**, Thielmann M, Buck T, Schlamann M, Pizanis N, Kamler M, Jakob H. 3-years follow-up after sutureless aortic valve implantation. 58th ESCVS, Warschau (Polen), 30. April – 2. Mai 2009.
23. **Wendt D**, Osswald B, Thielmann M, Kayser K, Massoudy P, Kamler P, Jakob H. The EuroSCORE. Still helpful in patients undergoing isolated aortic valve replacement? 58th ESCVS, Warschau (Polen), 30. April – 2. Mai 2009.
24. **Wendt D**, Pul U, Thielmann M, Neuhäuser M, Jánosi RA, Buck T, Kamler M, Jakob H. Results Of A Propensity Score Matched Comparison Of The Perimount Magna And The Mosaic Ultra Aortic Valve Prosthesis. 5th biennial meeting SHVD, Berlin 27. Juni – 30. Juni.
25. Stühle S, **Wendt D**, Wendt H, Hou G, Thielmann M, Kipfmüller B, Kowalczyk W, Jakob H. Aortic Valve Leaflet Rim to prevent regurgitation: in-vitro comparison of transapical heart valves. SMIT, Sinaia (Rumänien) 07.-09. Oktober 2009.
26. **Wendt D**, Stühle S, Thielmann M, Hou G, Kowalczyk W, Jakob H. Nitinol[®] – its current use in cardiac and vascular surgery. SMIT, Sinaia (Rumänien) 07.-09. Oktober 2009.
27. **Wendt D**, Thielmann M, Uensal P, Buck T, Jánosi RA, Piotrowski JA, Kamler M, Jakob H. Left ventricular mass reduction following aortic valve replacement. SMIT, Sinaia (Rumänien) 07.-09. Oktober 2009.

28. Jánosi RA, Plicht B, Kahlert Ph, **Wendt D**, Jakob H, Erbel R, Buck T. The role of 3D transesophageal echocardiography in evaluation of valve lesions in patients with infective endocarditis. SMIT, Sinaia (Rumänien) 07.-09. Oktober 2009.
29. Hou G, Stühle S, **Wendt D**, Schlamann M, Jakob H, Kowalczyk W. Blood velocity distribution in an artificial flow channel induced by biological heart valves. SMIT, Sinaia (Rumänien) 07.-09. Oktober 2009.
30. Knipp S, Lueck S, Fritsch JF, Jokisch D, Thielmann M, Schlamann M, Kahlert Ph, **Wendt D**, Eggebrecht H, Kamler M, Diener HC, Erbel R, Jakob H. Neurological and Cognitive Function after Percutaneous Transapical Aortic Valve Implantation with the Edwards SAPIEN™ Stent Valve Bioprosthesis. American Heart Association, New Orleans (USA) 14.-18. November.
31. Thielmann M, Massoudy P, **Wendt D**, Tossios P, Marggraf G, Kamler M, Neuhäuser M, Jakob H. Comparison Of Heart-type Fatty Acid Binding Protein With Cardiac Troponin I For Early Detection Of Myocardial Infarction After Coronary Bypass Surgery. American Heart Association, New Orleans (USA) 14.-18. November.
32. Thielmann M, Kottenberg E, Boengler K, Raffelsieper C, Wendt D, Neuhäuser M, Peters J, Jakob H, Heusch G. Remote Ischemic Preconditioning Reduces myocardial Injury After Coronary Artery Bypass Surgery With Crystalloid Cardioplegic Arrest. American Heart Association, New Orleans (USA) 14.-18. November.