

Schriftenverzeichnis

I. Originalarbeiten

a) Erstautorschaften

- geteilte Erstautorschaften

1. Myocardial Fibrosis predicts 10-Year-Outcome in Patients Undergoing Aortic Valve Replacement
Herrmann S, Fries B, Weidemann F, Störk S, Frantz S, Gorski A, Beer M, Gattenlöhner S, Voelker W, Ertl G, Strotmann J.M, Salinger T ; Nordbeck P
(Circulation Imaging 07/2018)
2. Role of Global Longitudinal Strain in the Prediction of Outcome in Patients With Sever Aortic Valve Stenosis
Fries B,Liu D, Gaudron P Hu K, Borsig S,Voelker W, Ertl G, Frantz S, Weidemann F, Nordbeck P; **Herrmann S**, Am J Cardiol. Accepted 2017 23.May (Publication Date August 2017)
3. Differences in natural history of low- and high-gradient aortic stenosis from nonsevere to severe stage of the disease.
Herrmann S, Fries B, Liu D, Hu K, Stoerk S, Voelker W, Ruppert C, Lorenz K, Ertl G, Weidemann F. J Am Soc Echocardiogr. 2015
4. Impact of Monitoring Longitudinal Systolic Strain Changes during Serial Echocardiography on Outcome in Patients with Cardiac Amyloidosis
Hu K, Liu D, Cikesc M, Störk S, Kramer B, Gaudron P, Knop S, Ertl G, Bijnense B, Weidemann F, **Herrmann S**. Int J Cardiovasc Imaging. 2015 Oct;31(7):1401-12
5. Using Simple Imaging Markers to Predict Prognosis in Patients With Aortic Valve Stenosis and Unacceptable High Risk for Operation.
Herrmann S, Bijnens B, Störk S, Niemann M, Hu K, Liu D, Kettner R, Rau D, Strotmann J, Voelker W, Ertl G, Weidemann F. Am J Cardiol. 2013 Sep 5.
6. Low-gradient aortic valve stenosis myocardial fibrosis and its influence on function and outcome.
Herrmann S, Störk S, Niemann M, Lange V, Strotmann JM, Frantz S, Beer M, Gattenlöhner S, Voelker W, Ertl G, Weidemann F. J Am Coll Cardiol. 2011 Jul 19;58(4):402-12.
7. Impact of myocardial fibrosis in patients with symptomatic severe aortic stenosis.,
Weidemann F * and Herrmann S* Störk S, Niemann M, Frantz S, Lange V, Beer M, Gattenlöhner S, Voelker W, Ertl G, Strotmann JM. Circulation. 2009 Aug 18;120(7):577

b.) Coauthorschaften

1. Value of low-dose dobutamine stress echocardiography on defining true severe low gradient aortic stenosis in patients with preserved left ventricular ejection fraction. Liu D, Hu K, Liebner E, Weidemann F, Herrmann S, Ertl G, Frantz S, Nordbeck P. *Int J Cardiovasc Imaging*. 2018 Jul 23. doi: 10.1007/s10554-018-1416-z. [Epub ahead of print]
2. Association and diagnostic utility of diastolic dysfunction and myocardial fibrosis in patients with Fabry disease. Liu D, Oder D, Salinger T, Hu K, Müntze J, Weidemann F, Herrmann S, Ertl G, Wanner C, Frantz S, Störk S, Nordbeck P. *Open Heart*. 2018 Jul 12;5(2):e000803. doi: 10.1136/openhrt-2018-000803. eCollection 2018.
3. Extent of size, shape and systolic variability of the left ventricular outflow tract in aortic stenosis determined by phase-contrast MRI. Sagmeister F, Weinger M, Herrmann S, Bernhardt P, Rasche V, Bauernschmitt R, Liebold A, Köstler H, Weidemann F, Beer M. *Magn Reson Imaging*. 2018 Jan;45:58-65. doi: 10.1016/j.mri.2017.09.002. Epub 2017 Sep 5.
4. Cardiac amyloidosis mimicking severe aortic valve stenosis - a case report demonstrating diagnostic pitfalls and role of dobutamine stress echocardiography. Salinger T, Hu K, Liu D, Herrmann S, Lorenz K, Ertl G, Nordbeck P. *BMC Cardiovasc Disord*. 2017 Mar 22;17(1):86.
5. Value of tissue Doppler-derived Tei index and two-dimensional speckle tracking imaging derived longitudinal strain on predicting outcome of patients with light-chain cardiac amyloidosis. Liu D, Hu K, **Herrmann S**, Cikes M, Ertl G, Weidemann F, Störk S, Nordbeck P. *Int J Cardiovasc Imaging*. 2017 Jun;33(6):837-845.
6. The septal bulge-an early echocardiographic sign in hypertensive heart disease. Gaudron PD, Liu D, Scholz F, Hu K, Florescu C, **Herrmann S**, Bijmens B, Ertl G, Störk S, Weidemann F. *J Am Soc Hypertens*. 2016 Jan;10(1):70-80. Epub 2015 Dec 2.
7. Echocardiographic Determinants of One-Year All-Cause Mortality in Patients With Chronic Heart Failure Complicated by Significant Functional Tricuspid Regurgitation. Hu K, Liu D, Störk S, **Herrmann S**, Oder D, Ertl G, Voelker W, Weidemann F, Nordbeck P. *J Card Fail*. 2016 Nov 24. pii: S1071-9164(16)31234-9.
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9. Cardiac RKIP induces a beneficial β -adrenoceptor-dependent positive inotropy. Schmid E, Neef S, Berlin C, Tomasovic A, Kahlert K, Nordbeck P, Deiss K, Denzinger S, **Herrmann S**, Wettwer E, Weidendorfer M, Becker D, Schäfer F, Wagner N, Ergün S, Schmitt JP, Katus HA, Weidemann F, Ravens U, Maack C, Hein L, Ertl G, Müller OJ, Maier LS, Lohse MJ, Lorenz K. *Nat Med*. 2015 Nov;21(11):1298-306. Epub 2015 Oct 19.
10. The cardiomyopathy in Friedreich's ataxia - New biomarker for staging cardiac involvement. Weidemann F, Liu D, Hu K, Florescu C, Niemann M, **Herrmann S**, Kramer B, Klebe S, Doppler K, Üçeyler N, Ritter CO, Ertl G, Störk S. *Int J Cardiol*. 2015 Sep 1;194:50-7. Epub 2015 May 15.
11. Predictive value of assessing diastolic strain rate on survival in cardiac amyloidosis patients with preserved ejection fraction. Liu D, Hu K, Störk S, **Herrmann S**, Kramer B, Cikes M, Gaudron PD, Knop S, Ertl G, Bijnens B, Weidemann F. *PLoS One*. 2014 Dec 26;9(12):e115910.
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14. Long-term outcome of enzyme-replacement therapy in advanced Fabry disease: evidence for disease progression towards serious complications. Weidemann F, Niemann M, Störk S, Breunig F, Beer M, Sommer C, **Herrmann S**, Ertl G, Wanner C. *J Intern Med*. 2013 Oct;274(4):331-41.
15. Impact of regional left ventricular function on outcome for patients with AL amyloidosis. Liu D, Hu K, Niemann M, **Herrmann S**, Cikes M, Störk S, Beer M, Gaudron PD, Morbach C, Knop S, Geissinger E, Ertl G, Bijnens B, Weidemann F. *PLoS One*. 2013;8(3)
16. Cross-sectional baseline analysis of electrocardiography in a large cohort of patients with untreated Fabry disease. Niemann M, Hartmann T, Namdar M, Breunig F, Beer M, Machann W, **Herrmann S**, Ertl G, Wanner C, Weidemann F. *J Inher Metab Dis*. 2013 Sep;36(5):873-9
17. Differentiation between fresh and old left ventricular thrombi by deformation imaging. Niemann M, Gaudron PD, Bijnens B, Störk S, Beer M, Hillenbrand H, Cikes M, **Herrmann S**, Hu K, Ertl G, Weidemann F. *Circ Cardiovasc Imaging*. 2012 Sep 1;5(5):667-75. Epub 2012 Jul 5.
18. Echocardiographic quantification of regional deformation helps to distinguish isolated left ventricular non-compaction from dilated cardiomyopathy. Niemann M, Liu D, Hu K, Cikes M, Beer M, **Herrmann S**, Gaudron PD, Hillenbrand H, Voelker W, Ertl G, Weidemann F. *Eur J Heart Fail*. 2012 Feb;14(2):155-61.

19. Failure to unmask pseudonormal diastolic function by a valsalva maneuver: tricuspid insufficiency is a major factor. Hu K, Liu D, Niemann M, Hatle L, **Herrmann S**, Voelker W, Ertl G, Bijns B, Weidemann F. *Circ Cardiovasc Imaging*. 2011 Nov;4(6):671-7.
20. Echocardiographic evaluation of systolic and diastolic function in patients with cardiac amyloidosis. Liu D, Niemann M, Hu K, **Herrmann S**, Störk S, Knop S, Ertl G, Weidemann F. *Am J Cardiol*. 2011 Aug 15;108(4):591-8.
21. Tei index in fabry disease. Niemann M, Breunig F, Beer M, Hu K, Liu D, Emmert A, **Herrmann S**, Ertl G, Wanner C, Takenaka T, Tei C, Weidemann F. *J Am Soc Echocardiogr*. 2011 Sep;24(9):1026-32.
22. Differences in Fabry cardiomyopathy between female and male patients: consequences for diagnostic assessment. Niemann M, **Herrmann S**, Hu K, Breunig F, Strotmann J, Beer M, Machann W, Voelker W, Ertl G, Wanner C, Weidemann F. *JACC-Cardiovasc Imaging* 2011 Jun;4(6):592-601
23. Hemodynamic assessment of severe aortic stenosis: MRI evaluation of dynamic changes of vena contracta. Weininger M, Sagmeister F, **Herrmann S**, Lange V, Schoepf UJ, Beissert M, Voelker W, Koestler H, Hahn D, Weidemann F, Beer M. *Invest Radiol*. 2011 Jan;46(1):1-10.
24. Prominent papillary muscles in Fabry disease: a diagnostic marker? Niemann M, Liu D, Hu K, **Herrmann S**, Breunig F, Strotmann J, Störk S, Voelker W, Ertl G, Wanner C, Weidemann F. *Ultrasound Med Biol*. 2011 Jan;37(1):37-43.
25. The right ventricle in Fabry disease: natural history and impact of enzyme replacement therapy. Niemann M, Breunig F, Beer M, **Herrmann S**, Strotmann J, Hu K, Emmert A, Voelker W, Ertl G, Wanner C, Weidemann F. *Heart*. 2010 Dec;96(23):1915-9.
26. Relation of circulating markers of fibrosis and progression of left and right ventricular dysfunction in hypertensive patients with heart failure. Plaksej R, Kosmala W, Frantz S, **Herrmann S**, Niemann M, Störk S, Wachter R, Angermann CE, Ertl G, Bijns B, Weidemann F. *J Hypertens*. 2009 Dec;27(12):2483-91.
27. Long-term effects of enzyme replacement therapy on fabry cardiomyopathy: evidence for a better outcome with early treatment. Weidemann F, Niemann M, Breunig F, **Herrmann S**, Beer M, Störk S, Voelker W, Ertl G, Wanner C, Strotmann J. *Circulation*. 2009 Feb 3;119(4):524-9.
28. Progression of left ventricular functional abnormalities in hypertensive patients with heart failure: an ultrasonic two-dimensional speckle tracking study. Kosmala W, Plaksej R, Strotmann JM, Weigel C, **Herrmann S**, Niemann M, Mende H, Störk S, Angermann CE, Wagner JA, Weidemann F. *J Am Soc Echocardiogr*. 2008 Dec;21(12):1309-17.
29. Functional differences of left ventricular hypertrophy induced by either arterial hypertension or aortic valve stenosis. Strotmann JM, Lengenfelder B, Blondelot J, Voelker W, **Herrmann S**, Ertl G, Weidemann F. *Am J Cardiol*. 2008 May 15;101(10):1493-7.
30. A new echocardiographic approach for the detection of non-ischaemic fibrosis in

hypertrophic myocardium. Weidemann F, Niemann M, **Herrmann S**, Kung M, Störk S, Waller C, Beer M, Breunig F, Wanner C, Voelker W, Ertl G, Bijmens B, Strotmann JM. Eur Heart J. 2007 Dec;28(24):3020-6. Epub 2007 Nov 1

Manuskripte in Vorbereitung:

1. The Influence of transvalvular Flow and Gradient in a TAVI Cohort. Understanding the Pathophysiology and Investigating the Outcome
Herrmann S. MD, D. Liu MD, C. Schwindenhammer, C.O. Ritter MD, A. Gorski MD, I.Aleksic MD, S. Störk MD, K. Hu MD, G. Ertl MD, S. Frantz MD, W. Voelker MD, F. Weidemann MD (Echocardiography under review)

II. Übersichtsarbeiten

1. Cardiological functional diagnostics Herrmann S, Kraus NA, Frantz S Internist 2018 Jan; 59 (1): 3-14 German

2. Low flow/low gradient aortic valve stenosis : clinical and diagnostic management
Herrmann S, Niemann M, Störk S, Hu K, Voelker W, Ertl G, Weidemann F. Herz. 2013 May;38(3):261-8.

3. Heart involvement in Friedreich's ataxia.Weidemann F, Scholz F, Florescu C, Liu D, Hu K, **Herrmann S**, Ertl G, Störk S.Herz. 2014 May 23. German.

4.[Systematic Echocardiographic Evaluation of Mitral Valve Regurgitation for Transcatheter Edge-to-Edge Repair](#).Wallenborn J, **Herrmann S**, Hansen M, Hu K, Voelker W, Störk S, Ertl G, Weidemann F.Echocardiography. 2016 Jul;33(7):1069-79. Review

5. Assessment of systolic function in patients with poor echogenicity : Echocardiographic methods.
Weidemann F, Liu D, Niemann M, **Herrmann S**, Hu H, Gaudron PD, Ertl G, Hu K. Herz. 2013 Aug 15. [Epub ahead of print] German

6.Cardiomypopathy of Friedreich ataxia. Weidemann F, Störk S, Liu D, Hu K, **Herrmann S**, Ertl G, Niemann M. J Neurochem. 2013 Aug;126 Suppl 1:88-93.

7. Assessment of diastolic heart failure. Current role of echocardiography.
Weidemann F, Niemann M, **Herrmann S**, Ertl G, Störk S. Herz. 2013 Feb;38(1):18-25. Review. German.

8.Methods for assessment of left ventricular systolic function in technically difficult patients with poor imaging quality. Hu K, Liu D, Niemann M, **Herrmann S**, Gaudron PD, Ertl G, **Weidemann F**. J Am Soc Echocardiogr. 2013 Feb;26(2):105-13. Review.

9. Echocardiography in diabetic cardiomyopathy]. Niemann M, **Herrmann S**, Ertl G, Weidemann F. Herz. 2013 Feb;38(1):42-7. Epub 2012 Nov 29. Review. German.

10. Clinical implication of mitral annular plane systolic excursion for patients with cardiovascular disease.

Hu K, Liu D, **Herrmann S**, Niemann M, Gaudron PD, Voelker W, Ertl G, Bijns B, Weidemann F. Eur Heart J Cardiovasc Imaging. 2013 Mar;14(3):205-12.

11. The various forms of left ventricular hypertrophy: diagnostic value of echocardiography]. Weidemann F, Störk S, **Herrmann S**, Ertl G, Niemann M. Herz. 2011 Dec;36(8):713-23. Review. German.

12. Functional cardiac MRI for assessment of aortic valve disease. Sagmeister F*, **Herrmann S***, Ritter C, Machann W, Köstler H, Hahn D, Voelker W, Weidemann F, Beer M. Radiologe. 2010 Jun;50(6):541-7

13. Heart valve involvement in Fabry cardiomyopathy. Weidemann F, Strotmann JM, Niemann M, **Herrmann S**, Wilke M, Beer M, Voelker W, Ertl G, Emmert A, Wanner C, Breunig F. Ultrasound Med Biol. 2009 May;35(5):730-5.

III. **Kommentare**

ACE inhibitors can increase the transvalvular gradient among patients with aortic stenosis" **Herrmann S** and Weidemann F JACC 2011; JACC Vol. 59, No. 8, 2012 February 21, 2012:776–8

3D Echokardiographie bereit für den Alltag (DGIM 04/2018)

IV. **Konferenzbeiträge / Abstracts**

1. Myocardial Fibrosis predicts 10-Year-Outcome in Patients Undergoing Aortic Valve Replacement **Herrmann S 2017 DGK-Jahrestagung Mannheim**
2. Role of Global Longitudinal Strain in the Prediction of Outcome in Patients With Sever Aortic Valve Stenosis **Herrmann S ESC-Kongr 2016 Rom**
3. Predictors of Cardiac Death in Aortic Valve Stenosis. **Herrmann S DGK Jahrestagung 2011 Mannheim**
4. Predictors of Survival in Patients with Aortic Valve Stenosis **Herrmann S ESC Euro-Echo 2011 Paris**
5. Risk Factors for Cardiac Death and Poor Prognosis in Elderly Patients with Aortic Valve Stenosis **Herrmann S ESC Euro-Echo 2011 Paris**
6. The Impact of Myocardial Fibrosis on Regional Myocardial Function and Clinical Outcome in Patients with Low Gradient Aortic Valve Stenosis **Herrmann S DGK Jahrestagung 2010 Mannheim**
7. The Impact of Myocardial Fibrosis on Regional Myocardial Function and Clinical Outcome in Patients with Low Gradient Aortic Valve Stenosis **Herrmann S ESC Kongress 2009 Barcelona**
8. Impact of Myocardial Fibrosis in Severe Aortic Valve Stenosis **Herrmann S DGK Jahrestagung 2009 Mannheim**

9. Progression of left ventricular functional abnormalities in hypertensive patients with heart failure. An ultrasonic two-dimensional speckle tracking study. **Herrmann S DGK Jahrestagung 2009 Mannheim**
10. Regional Myocardial Function and Clinical Outcome in Patients with Low Gradient Aortic Valve Stenosis. **Herrmann S ESC Kongress 2008 München**
11. Regionale Myokardiale Funktion und klinisches Outcome bei Patienten mit hochgradiger Aortenklappenstenose aber niedrigem Gradienten über der Aortenklappe **Herrmann S DGK Jahrestagung 2008 Mannheim**
12. Hat das myokardiale Remodeling bei Patienten mit hochgradiger Aortenklappenstenose Einfluß auf die myokardiale Funktion und den klinischen Langzeitverlauf nach Aortenklappenersatzoperation? **Herrmann S DGK Jahrestagung 2008 Mannheim**
13. Functional and Morphological Changes as Predictor for Clinical Outcome in Patients with Severe Aortic Valve Stenoses after Aortic Valve Replacement **Herrmann S ESC Euro-Echo 2007 Lissabon**
14. Development of Right Ventricular regional function in patients with severe Aortic stenosis before and after AVR and its impact on the clinical outcome in comparison with regional LV-Function. **Herrmann S ESC Euro-Echo 2007 Lissabon**
15. Prognostic Impact of Functional and Morphological Changes in Patients with Severe Aortic Valve Stenoses after Valve Replacement **Herrmann S ESC Kongress 2007 Wien**

V. **Buchbeiträge:**
Thieme Flachskampf Praxis der Echokardiographie
Kapitel Aortenklappenerkrankungen
4. Auflage in Bearbeitung

Kürnach, 01.11.2018