

## Publikationen:

### *Erst- und Letzt-Autor:*

1. Huo Y, Christoph M, Forkmann M, Pohl M, Mayer J, Salmas J, Sitzy J, Wunderlich C, Piorkowski C, **Gaspar T**. Reduction of radiation exposure during atrial fibrillation ablation using a novel fluoroscopy image integrated 3-dimensional electroanatomic mapping system: A prospective, randomized, single-blind, and controlled study. Heart Rhythm. 2015 Sep;12(9):1945-55 **Impact factor 5.1**
2. Nitsche B, Eitel C, Bode K, Wetzel U, Richter S, Döring M, Hindricks G, Piorkowski C, **Gaspar T**. Left ventricular wall motion analysis to guide management of CRT non-responders. Europace. 2015 May;17(5):778-86 **Impact factor 2.8**
3. Christoph M, Wunderlich C, Moebius S, Forkmann M, Sitzy J, Salmas J, Mayer J, Huo Y, Piorkowski C, **Gaspar T**. Fluoroscopy integrated 3D mapping significantly reduces radiation exposure during ablation for a wide spectrum of cardiac arrhythmias. Europace. 2015 Jun;17(6):928-37 **Impact factor 2.8**
4. Huo Y, Schoenbauer R, Richter S, Rolf S, Sommer P, Arya A, Rastan A, Doll N, Mohr FW, Hindricks G, Piorkowski C, **Gaspar T**. Atrial Arrhythmias Following Surgical AF Ablation: Electrophysiological Findings, Ablation Strategies, and Clinical Outcome. J Cardiovasc Electrophysiol. 2014 Mar 6 **Impact Factor: 3.2**
5. **Gaspar T**, Piorkowski C, Gutberlet M, Hindricks G. Three-dimensional real-time MRI-guided intracardiac catheter navigation. Eur Heart J. 2013 Aug 29. **Impact factor 14.1**
6. **Gaspar T**, Piorkowski C, Strasser RH, Schwerpunkte der Nachsorge und Langzeiterfolg nach der Katheterablation des Vorhofflimmerns. Kardio up 2013; 09(01): 57-67
7. **Gaspar T**, Sih H, Hindricks G, Eitel C, Sommer P, Kircher S, Rolf S, Arya A, Teplitsky L, Piorkowski C. Use of Electrical Coupling Information (ECI) in AF catheter ablation: A prospective randomized pilot study. Heart Rhythm. 2012 Oct 8. **Impact factor 5.1**
8. Eitel C\*, **Gaspar T\***, Bode K, Andrea B, Sommer P, Stoepel C, Sarwas T, Grebe E, Thiele H, Hindricks G, Piorkowski C. Temporary left ventricular stimulation in patients with refractory cardiogenic shock and asynchronous left ventricular contraction: A safety and feasibility study. Heart Rhythm. 2012 Sep 14 **Impact factor 5,1**  
*\* contributed equally*
9. **Gaspar T**, Kircher S, Arya A, Sommer P, Rolf S, Hindricks G, Piorkowski C. Enhancement of intracardiac navigation by new GPS-guided location system (MediGuide Technologies). Europace. 2012 Aug;14 **Impact factor 2.8**
10. **Gaspar T**, Hindricks G, Piorkowski C. Close the gap to get a circle ! The role of visual gaps during circumferential pulmonary vein isolation. Europace. 2012 Jun 20 **Impact factor 2.8**

11. **Gaspar T**, Kircher S, Piorkowski C. Pulmonary vein anatomy assessment prior to atrial fibrillation ablation using balloon-based technologies: can it really be abandoned? *Europace*. 2012 Apr;14(4):459-60. **Impact factor 2.8**
12. **Gaspar T**, Piorkowski C, Neue Technologien in der interventionellen Elektrophysiologie; *Kardioforum* 1/2011, ISSN: 1866-1408 **Impact factor 0,7**
13. **Gaspar T**, Kircher S, Hindricks G. [Atrial fibrillation: drug, interventional or surgical treatment? For interventional treatment]. *Dtsch Med Wochenschr*. 2010 Apr;135(13):613-4. **Impact factor 0,7**

#### **CO-Autor**

14. Hilbert S, Sommer P, Gutberlet M, **Gaspar T**, Foldyna B, Piorkowski C, Weiss S, Lloyd T, Schnackenburg B, Krueger S, Fleiter C, Paetsch I, Jahnke C, Hindricks G, Grothoff M. Real-time magnetic resonance-guided ablation of typical right atrial flutter using a combination of active catheter tracking and passive catheter visualization in man: initial results from a consecutive patient series. *Europace*. 2015 Aug 27.
15. Forkmann M, Tomala J, Huo Y, Mayer J, Christoph M, Wunderlich C, Salmas J, **Gaspar T**, Piorkowski C. Epicardial Ventricular Tachycardia Ablation in a Patient With Brugada ECG Pattern and Mutation of PKP2 and DSP Genes. *Circ Arrhythm Electrophysiol*. 2015 Apr;8(2):505-7.
16. Huo Y, Holmqvist F, Carlson J, **Gaspar T**, Hindricks G, Piorkowski C, Bollmann A, Platonov PG. Variability of P-wave morphology predicts the outcome of circumferential pulmonary vein isolation in patients with recurrent atrial fibrillation. *J Electrocardiol*. 2015 Mar-Apr;48(2):218-25
17. Rolf S, Kircher S, Arya A, Eitel C, Sommer P, Richter S, **Gaspar T**, Bollmann A, Altmann D, Piedra C, Hindricks G, Piorkowski C. Tailored atrial substrate modification based on low-voltage areas in catheter ablation of atrial fibrillation. *Circ Arrhythm Electrophysiol*. 2014 Oct;7(5):825-33
18. Kosiuk J, Kornej J, Bollmann A, Piorkowski C, Myrda K, Arya A, Sommer P, Richter S, Rolf S, Husser D, **Gaspar T**, Lip GY, Hindricks G. Early cerebral thromboembolic complications after radiofrequency catheter ablation of atrial fibrillation: incidence, characteristics, and risk factors. *Heart Rhythm*. 2014 Nov;11(11):1934-40
19. Sommer P, Rolf S, Piorkowski C, **Gaspar T**, Huo Y, Piedra C, Richter S, Bollmann A, Arya A, Hindricks G. Nonfluoroscopic catheter visualization in atrial fibrillation ablation: experience from 375 consecutive procedures. *Circ Arrhythm Electrophysiol*. 2014 Oct;7(5):869-74
20. Grothoff M, Piorkowski C, Eitel C, **Gaspar T**, Lehmkuhl L, Lücke C, Hoffmann J, Hildebrand L, Wedan S, Lloyd T, Sunnarborg D, Schnackenburg B, Hindricks G, Sommer

P, Gutberlet M. MR imaging-guided electrophysiological ablation studies in humans with passive catheter tracking: initial results. *Radiology*. 2014 Jun;271(3):695-702.

21. Kosiuk J, Breithardt OA, Bode K, Kornej J, Arya A, Piorkowski C, **Gaspar T**, Sommer P, Husser D, Hindricks G, Bollmann A. The predictive value of echocardiographic parameters associated with left ventricular diastolic dysfunction on short- and long-term outcomes of catheter ablation of atrial fibrillation. *Europace*. 2014 Feb 25.
22. Kosiuk J, Nedios S, Darma A, Rolf S, Richter S, Arya A, Piorkowski C, **Gaspar T**, Sommer P, Husser D, Hindricks G, Bollmann A. Impact of single atrial fibrillation catheter ablation on implantable cardioverter defibrillator therapies in patients with ischaemic and non-ischaemic cardiomyopathies. *Europace*. 2014 Feb 13
23. Nedios S, Sommer P, Dagres N, Kosiuk J, Arya A, Richter S, **Gaspar T**, Kanagkinis N, Dinov B, Piorkowski C, Bollmann A, Hindricks G, Rolf S. Long-term follow-up after atrial fibrillation ablation in patients with impaired left ventricular systolic function. The importance of rhythm and rate control. *Heart Rhythm*. 2013 Dec 26.
24. Kornej J, Hindricks G, Kosiuk J, Arya A, Sommer P, Husser D, Rolf S, Richter S, Piorkowski C, **Gaspar T**, Lip GY, Bollmann A. Renal dysfunction, stroke risk scores (CHADS<sub>2</sub>, CHA<sub>2</sub>DS<sub>2</sub>-VASc, and R<sub>2</sub>CHADS<sub>2</sub>), and the risk of thromboembolic events after catheter ablation of atrial fibrillation: the Leipzig Heart Center AF Ablation Registry *Circ Arrhythm Electrophysiol*. 2013 Oct;6(5):868-74.
25. Richter S, Döring M, **Gaspar T**, John S, Rolf S, Sommer P, Hindricks G, Piorkowski C. Cardiac resynchronization therapy device implantation using a new sensor-based navigation system: results from the first human use study. *Circ Arrhythm Electrophysiol*. 2013 Oct;6(5):917-23.
26. Schönbauer R, Sommer P, Misfeld M, Dinov B, Fiedler L, Huo Y, **Gaspar T**, Breithardt OA, Hindricks G, Arya A. Relevant ventricular septal defect caused by steam pop during ablation of premature ventricular contraction. *Circulation*. 2013 Jun 18;127(24):e843-4
27. Kosiuk J, Buchta P, **Gaspar T**, Arya A, Piorkowski C, Rolf S, Sommer P, Husser D, Hindricks G, Bollmann A. Prevalence and predictors of worsened left ventricular diastolic dysfunction after catheter ablation of atrial fibrillation. *Int J Cardiol*. 2013 Oct 9;168(4):3613-5
28. Rolf S, John S, **Gaspar T**, Dinov B, Kircher S, Huo Y, Bollmann A, Richter S, Arya A, Hindricks G, Piorkowski C, Sommer P. Catheter ablation of atrial fibrillation supported by novel nonfluoroscopic 4D navigation technology. *Heart Rhythm*. 2013 Sep;10(9):1293-300.
29. Sommer P, Piorkowski C, **Gaspar T**, Eitel C, Derndorfer M, Martinek M, Pürerfellner H, Arya A, Hindricks G, Rolf S. MediGuide in supraventricular tachycardia: initial experience from a multicentre registry. *Europace*. 2013 Sep;15(9):1292-7.

30. Kosiuk J, Breithardt O, Bode K, Kornej J, Arya A, **Gaspar T**, Hindricks G, Bollmann A. Left ventricular diastolic dysfunction and thromboembolic risk in atrial fibrillation: diastolic dysfunction and thromboembolic risk in AF. *Int J Cardiol.* 2013 Sep 20;168(1):547-8
31. Piorkowski C, Grothoff M, **Gaspar T**, Eitel C, Sommer P, Huo Y, John S, Gutberlet M, Hindricks G. Cavotricuspid isthmus ablation guided by real-time magnetic resonance imaging. *Circ Arrhythm Electrophysiol.* 2013 Feb;6(1):e7-10.
32. Döring M, Braunschweig F, Eitel C, **Gaspar T**, Wetzel U, Nitsche B, Hindricks G, Piorkowski C. Individually tailored left ventricular lead placement: lessons from multimodality integration between three-dimensional echocardiography and coronary sinus angiogram. *Europace.* 2013 May;15(5):718-27
33. Sommer P, Wojdyla-Hordynska A, Rolf S, **Gaspar T**, Eitel C, Arya A, Hindricks G, Piorkowski C. Initial experience in ablation of typical atrial flutter using a novel three-dimensional catheter tracking system. *Europace.* 2013 Apr;15(4):578-81
34. Huo Y, Braunschweig F, **Gaspar T**, Richter S, Schönbauer R, Sommer P, Arya A, Rolf S, Bollmann A, Hindricks G, Piorkowski C. Diagnosis of atrial tachycardias originating from the lower right atrium: importance of P-wave morphology in the precordial leads V3-V6. *Europace.* 2012 Oct 10.
35. Sommer P, Wojdyla-Hordynska A, Rolf S, **Gaspar T**, Eitel C, Arya A, Hindricks G, Piorkowski C. Initial experience in ablation of typical atrial flutter using a novel three-dimensional catheter tracking system. *Europace.* 2012 Aug 2.
36. Sommer P, Grothoff M, Eitel C, **Gaspar T**, Piorkowski C, Gutberlet M, Hindricks G. Feasibility of real-time magnetic resonance imaging-guided electrophysiology studies in humans. *Europace.* 2012 Jul 31
37. Rolf S, Sommer P, **Gaspar T**, John S, Arya A, Hindricks G, Piorkowski C. Ablation of Atrial Fibrillation using Novel 4D Catheter Tracking within Auto-Registered LA Angiograms. *Circ Arrhythm Electrophysiol.* 2012 Jul 7. [Epub ahead of print] PubMed PMID: 22773023.
38. Kiuchi K, Kircher S, Watanabe N, **Gaspar T**, Rolf S, Arya A, Piorkowski C, Hindricks G, Sommer P. Quantitative Analysis of Isolation Area and Rhythm Outcome in Patients with Paroxysmal Atrial Fibrillation after Circumferential Pulmonary Vein Antrum Isolation Using the Pace-and-Ablate Technique. *Circ Arrhythm Electrophysiol.* 2012 Jun 30.
39. Huo Y, Arya A, **Gaspar T**, Richter S, Schoenbauer R, Sommer P, Bollmann A, Hindricks G, Piorkowski C. Role of the coronary sinus ostium musculature in reentrant formation. *Herzschrittmacherther Elektrophysiol.* 2012 Jun;23(2):121-127. PubMed PMID: 22566079.
40. Huo Y, Holmqvist F, Carlson J, **Gaspar T**, Arya A, Wetzel U, Hindricks G, Piorkowski C, Bollmann A, Platonov PG. Effects of baseline P-wave duration and choice of atrial septal pacing site on shortening atrial activation time during pacing. *Europace.* 2012 Mar 21. [Epub ahead of print] PubMed PMID: 22436616.

41. Dinov B, Schönbauer R, Wojdyla-Hordynska A, Braunschweig F, Richter S, Altmann D, Sommer P, **Gaspar T**, Bollmann A, Wetzel U, Rolf S, Piorkowski C, Hindricks G, Arya A. Long-term efficacy of single procedure remote magnetic catheter navigation for ablation of ischemic ventricular tachycardia: a retrospective study. *J Cardiovasc Electrophysiol*. 2012 May;23(5):499-505.
42. Dagres N, Varounis C, **Gaspar T**, Piorkowski C, Eitel C, Iliodromitis EK, Lekakis JP, Flevvari P, Simeonidou E, Rallidis LS, Tsougos E, Hindricks G, Sommer P, Anastasiou-Nana M. Catheter ablation for atrial fibrillation in patients with left ventricular systolic dysfunction. A systematic review and meta-analysis. *J Card Fail*. 2011 Nov;17(11):964-70. Epub 2011 Sep 9. Review. PubMed PMID: 22041335.
43. Kottkamp H, Hindricks G, Eitel C, Müller K, Siedziako A, Koch J, Anastasiou-Nana M, Varounis C, Arya A, Sommer P, **Gaspar T**, Piorkowski C, Dagres N. Deep sedation for catheter ablation of atrial fibrillation: a prospective study in 650 consecutive patients. *J Cardiovasc Electrophysiol*. 2011 Dec;22(12):1339-43. doi: 10.1111/j.1540-8167.2011.02120.x. Epub 2011 Jun 21.
44. Altmann D, Hindricks G, Arya A, Piorkowski C, **Gaspar T**, Eitel C, Sommer P. Management of patients pre-, per- and postcatheter ablation procedures: how to minimize complications? *Minerva Cardioangiol*. 2011 Apr;59(2):171-86. PubMed PMID: 21368735.
45. Arya A, Huo Y, Frogner F, Wetzel U, Sommer P, **Gaspar T**, Richter S, Piorkowski C, Hindricks G. Effect of limb lead electrodes location on ECG and localization of idiopathic outflow tract tachycardia: a prospective study. *J Cardiovasc Electrophysiol*. 2011 Aug;22(8):886-91
46. Eitel C, Husser D, Hindricks G, Frühauf M, Hilbert S, Arya A, **Gaspar T**, Wetzel U, Bollmann A, Piorkowski C. Performance of an implantable automatic atrial fibrillation detection device: impact of software adjustments and relevance of manual episode analysis. *Europace*. 2011 Apr;13(4):480-5. Epub 2011
47. Piorkowski C, Eitel C, Rolf S, Bode K, Sommer P, **Gaspar T**, Kircher S, Wetzel U, Parwani AS, Boldt LH, Mende M, Bollmann A, Husser D, Dagres N, Esato M, Arya A, Haverkamp W, Hindricks G. Steerable versus nonsteerable sheath technology in atrial fibrillation ablation: a prospective, randomized study. *Circ Arrhythm Electrophysiol*. 2011 Apr;4(2):157-65. Epub 2011 Jan 19.
48. Arya A, Zaker-Shahrok R, Sommer P, Bollmann A, Wetzel U, **Gaspar T**, Richter S, Husser D, Piorkowski C, Hindricks G. Catheter ablation of atrial fibrillation using remote magnetic catheter navigation: a case-control study. *Europace*. 2011 Jan;13(1):45-50
49. Rolf S, **Gaspar T**, Sommer P, Kircher S, Arya A, Wetzel U, Bollmann A, Hindricks G, Piorkowski C. Katheterablation von Vorhofflimmern - Neue Technologien und Strategien.. *Austrian Journal of Cardiology* 2011; 18 (3-4), 76-80
50. Hilbert S, Dagres N, Hindricks G, Sommer P, **Gaspar T**, Rallidis LS, Kremastinos DT, Piorkowski C. Rapid ventricular pacing: a fast, reliable, and safe technique for optimization of image acquisition during rotational angiography for catheter ablation of atrial fibrillation. *Heart Vessels*. 2011 May;26(3):349-52

51. Arya A, Eitel C, Bollmann A, Wetzel U, Sommer P, **Gaspar T**, Husser D, Piorkowski C, Hindricks G. Catheter ablation of scar-related ventricular tachycardia in patients with electrical storm using remote magnetic catheter navigation. *Pacing Clin Electrophysiol.* 2010 Nov;33(11):1312-8.
52. A latent atrioventricular decrementally conducting accessory pathway mimicking a bystander nodoventricular fiber. Huo Y, Hindricks G, Wetzel U, **Gaspar T**, Sternick EB. A latent atrioventricular decrementally conducting accessory pathway mimicking a bystander nodoventricular fiber. *Pacing Clin Electrophysiol.* 2010 Aug;33(8):e76-80.
53. Huo Y, Hindricks G, Piorkowski C, Bollmann A, Wetzel U, Sommer P, **Gaspar T**, Kottkamp H, Arya A. Six-month follow-up of isthmus-dependent right atrial flutter ablation using a remote magnetic catheter navigation system: a case-control study. *Acta Cardiol.* 2010 Jun;65(3):279-83. PubMed PMID: 20666264.
54. Arya A, Bode K, Piorkowski C, Bollmann A, Sommer P, **Gaspar T**, Wetzel U, Husser D, Kottkamp H, Hindricks G. Catheter ablation of electrical storm due to monomorphic ventricular tachycardia in patients with nonischemic cardiomyopathy: acute results and its effect on long-term survival. *Pacing Clin Electrophysiol.* 2010 Dec;33(12):1504-9.
55. Eitel C, Hindricks G, Sommer P, Wetzel U, Bollmann A, **Gaspar T**, Piorkowski C, Arya A. Safety of remote magnetic navigation in patients with pacemakers and implanted cardioverter defibrillators. *J Cardiovasc Electrophysiol.* 2010 Oct;21(10):1130-5.
56. Eitel C, Döring M, **Gaspar T**, Wetzel U, Bullens R, Hindricks G, Piorkowski C. Cardiac resynchronization therapy with individualized placement of two left ventricular leads at the sites of latest mechanical left ventricular contraction: guided by 3D-echocardiography and coronary sinus rotation angiography. *Eur J Heart Fail.* 2010 Apr;12(4):411-4.
57. Arya A, Piorkowski C, Kircher S, Sommer P, Bollmann A, **Gaspar T**, Hindricks G. Results of recent studies in catheter ablation of ventricular tachycardias: in whom to abandon the ICD? *Herz.* 2009 Nov;34(7):539-44. Review.
58. Eitel C, Hindricks G, Sommer P, **Gaspar T**, Kircher S, Wetzel U, Dagues N, Esato M, Bollmann A, Husser D, Hilbert S, Zaker-Shahrok R, Arya A, Piorkowski C. Circumferential pulmonary vein isolation and linear left atrial ablation as a single-catheter technique to achieve bidirectional conduction block: the pace-and-ablate approach. *Heart Rhythm.* 2010;7(2):157-64. Epub 2009 Oct 12.
59. Arya A, Hindricks G, Sommer P, Huo Y, Bollmann A, **Gaspar T**, Bode K, Husser D, Kottkamp H, Piorkowski C. Long-term results and the predictors of outcome of catheter ablation of atrial fibrillation using steerable sheath catheter navigation after single procedure in 674 patients. *Europace.* 2010, Feb;12(2):173-80. Epub 2009 Nov 3.
60. Halm U, **Gaspar T**, Zachäus M, Sack S, Arya A, Piorkowski C, Knigge I, Hindricks G, Husser D. Thermal esophageal lesions after radiofrequency catheter ablation of left atrial arrhythmias. *Am J Gastroenterol.* 2010 Mar;105(3):551-6.
61. Dagues N, Hindricks G, Kottkamp H, Sommer P, **Gaspar T**, Bode K, Arya A, Rallidis LS, Kremastinos DT, Piorkowski C. Real-life anticoagulation treatment of atrial fibrillation

after catheter ablation: Possible overtreatment of low-risk patients. *Thromb Haemost.* 2009 Oct;102(4):754-8.

62. Piorkowski C, Sih H, Sommer P, Miller SP, **Gaspar T**, Teplitsky L, Hindricks G. First in human validation of impedance-based catheter tip-to-tissue contact assessment in the left atrium. *J Cardiovasc Electrophysiol.* 2009 Dec;20(12):1366-73.
63. Dages N, Hindricks G, Kottkamp H, Sommer P, **Gaspar T**, Bode K, Arya A, Husser D, Rallidis LS, Kremastinos DT, Piorkowski C. Complications of atrial fibrillation ablation in a high-volume center in 1,000 procedures: still cause for concern? *J Cardiovasc Electrophysiol.* 2009 Sep;20(9):1014-9.
64. Hindricks G, Kircher S, **Gaspar T**, Arya A. Therapie von Vorhofflimmern: Rolle der Katheterablation *Austrian Journal of Cardiology* 2009; 16 (Supplementum A – Forum Rhythmologie), 13-16
65. Esato M, Hindricks G, Sommer P, Arya A, **Gaspar T**, Bode K, Bollmann A, Wetzel U, Hilbert S, Kircher S, Eitel C, Piorkowski C. Color-coded three-dimensional entrainment mapping for analysis and treatment of atrial macroreentrant tachycardia. *Heart Rhythm.* 2009 Mar;6(3):349-58.
66. Piorkowski C, Kircher S, Arya A, **Gaspar T**, Esato M, Riahi S, Bollmann A, Husser D, Staab C, Sommer P, Hindricks G. Computed tomography model-based treatment of atrial fibrillation and atrial macro-re-entrant tachycardia. *Europace.* 2008 Aug;10(8):939-48.

#### ***Buch-Beitrag:***

**Gaspar T**, Piorkowski, C. (2013) Future in Intracardiac Three-dimensional Mapping-Fluoroscopy Integrated Sensor-Based Catheter Navigation: The MediGuide Technology, in *Cardiac Mapping, Fourth Edition* (eds M. Shenasa, G. Hindricks, M. Borggrefe, G. Breithardt and M. E. Josephson), Wiley-Blackwell, Oxford, UK. doi: 10.1002/9781118481585.ch51

#### ***Kongresse mit wissenschaftlichen Beiträgen (Poster oder Vorträge):***

Frühjahrstagung der DGK Mannheim  
Herbsttagung und Jahrestagungen der AG Rhythmologie und der AGIK  
Annual Scientific Sessions of the Heart Rhythm Society  
American Heart Association Scientific Sessions  
Asia Pacific Heart Rhythm Society Scientific Session  
Annual Meeting of the Japanese Heart Rhythm Society

**Lehre:**

Studenten-Wahlfach-Kurs: "Elektrophysiologie des Herzens" 2009 und 2010 am  
Universitätsklinikum Leipzig

EKG-Kurs 2010 am Universitätsklinikum Leipzig

POL-Tutor Kurs 2014 am Universitätsklinikum Dresden

POL-Kurs WS 2013/2014 am Universitätsklinikum Dresden

Vorlesung in der Vorlesungsreihe „Innere Medizin“ für Psychologie Studenten 2014 und 2015