

Lebenslauf

PERSÖNLICHEN ANGABEN

PD Dr. med. Sotirios Nedios (MD, PhD, FHRS, FACC)

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PROFIL

PD Dr. Nedios ist ein Elektrophysiologe im Herzzentrum Leipzig mit DGK, EHRA und IBHRE Zertifizierung. Seine Ausbildung umfasst weitere renommierte Zentren wie das Deutsche Herzzentrum Berlin-Charité und das Massachusetts General Hospital in Boston-USA, das Diploma of Advanced Studies in Cardiac Arrhythmia Management (DAS-CAM) in Maastricht und das Global Clinical Scholars Research Training der Harvard Universität.

Seine Forschung erstrebt die Verbesserung der individuellen patienten-spezifischen Therapie durch den Einsatz von bildgebenden Verfahren, die Analyse von elektrischen Signalen und Biomarkern sowie auch durch Berechnungsansätze bei Patienten mit Rhythmusstörungen. Er ist HRS-Ambassador in EHRA Young, Board Mitglied der HRS Fellows-in-Training Working Group und der ACC Early Career International Working Group und ein starker Befürworter von Zusammenarbeit in diversen Teams.

Web of Science: Publikationen: 48, H-index: 20

BERUFLICHER WERDEGANG

2022 -	Oberarzt, Innere Medizin/Kardiologie, Herzzentrum Leipzig, Universität Leipzig
2018 - 2021	Facharzt, Innere Medizin/Kardiologie, Herzzentrum Leipzig, Universität Leipzig
2017 - 2018	Clinical & Research Fellowship - Electrophysiology, Prof. P. Ellinor Massachusetts General Hospital, Harvard Universität, Boston, USA
2011 - 2017	Innere Medizin und Kardiologie, Prof. G. Schuler und Prof. G. Hindricks Herzzentrum Leipzig, Universität Leipzig, DE
2008 - 2011	Forschung, Kardiologie und Elektrophysiologie, Prof. E. Fleck Deutsches Herzzentrum Berlin, Charité Humboldt Universität, Berlin, DE
2007 - 2008	Assistenzarzt, Innere Medizin/Kardiologie, Prof. D. Andresen Vivantes Krankenhaus am Urban, Charité Humboldt Universität, Berlin, DE

AUSBILDUNG

2021	PhD " Catheter ablation of atrial fibrillation: atrial anatomy and clinical outcomes ", Cardiovascular Research Institute Maastricht (CARIM), Maastricht University Medical Center+ (MUMC+), Maastricht University, the Netherlands
2019 - 2020	Global Clinical Scholars Research Training Program , Harvard University
2018 - 2019	DGK Zusatzqualifikation Spezielle Rhythmologie, EHRA, IBHRE Sachkunde
2016 - 2018	DAS-CAM: Diploma of Advanced Studies-Cardiac Arrhythmia Management
2018	Value-Based Health Care , Harvard Business School, Prof. Porter
2017/05	Habilitation: „Katheterablation von Vorhofflimmern: die Assoziation zwischen atrialer Anatomie und klinischen Ereignissen“ Universität Leipzig, DE
2016/06	Facharzt, Innere Medizin und Kardiologie
2008 - 2012	Promotion: „Intraprozedurale Darstellung des linken Vorhofs/der Pulmonalvenen für die Ablation von Vorhofflimmern: Vergleich zw. Rotationsangiographie & CT“ Charité – Universitätsmedizin Berlin, Deutsches Herzzentrum Berlin, DE
2009 - 2010	US Approbation , United States Medical Licence Examination
2000 - 2006	Medizin Studium , Aristotle Universität zu Thessaloniki, Griechenland, inklusive 3. und 6. Studienjahr in Charité – Universitätsmedizin Berlin, DE Absolvierung mit <i>magna cum laude</i> , Platz 3. der Klasse
1994 - 2000	Abitur: 2. Allgemeines Gymnasium/Lyzeum, Drama, GR 2. beste Abschlussnote national: 199,13 (max. 200,00)

PREISE UND AUSZEICHNUNGEN

2015	Finalist, Young Investigator Award, European Heart Rhythm Association
2014	Finalist, Hugo-von-Ziemssen Preis, Deutsche Gesellschaft für Kardiologie
2009	Forschungsstipendium der Konstantinos Vellios Stiftung, GR
2008	Forschungsstipendium, Griechische Staatliche Stipendienstiftung (IKY)
2002 - 2003	Sokrates-Erasmus-Stipendium der Europäischen Union
2000	2. bester Platz bei den nationalen Hochschul-Aufnahme-Examen

ANDERE AKTIVITÄTEN

Mitglied	ACC: American College of Cardiology, DGK: Deutsche Gesellschaft für Kardiologie, HRS: Heart Rhythm Society, ESC: European Society of Cardiology, EHRA: European Heart Rhythm Association, Charité & Harvard Alumni, Khalifa Award Judge - Bahrain
Reviewer	Circulation, American Journal of Cardiology, Clinical Cardiology, Europace, Heart Rhythm, Heart & Vessels, International Journal of Cardiology/Heart & Vasculature (Editorial Board)
2011 - dato	Lehrfähigkeit Universität Leipzig, STATA, SPSS, Microsoft Office Spezialist

PUBLIKATIONSVERZEICHNIS

1. **Nedios S**, Duncker D. Defining the benefit: Cardioversion of pers. AF. *Int J Card Heart Vasc.* 2021
2. **Nedios S**. AF screening: Does cardiovascular disease reduce the probability of detection? *Int J Card* 2021
3. **Nedios S**, Lindemann F, Heijman J, Crijns HJGM, Bollmann A, Hindricks G. Atrial remodeling and AF recurrence after catheter ablation : Past, present, and future developments. *Herz.* 2021
4. **Nedios S**, Dinov B, Seewöster T, Lindemann F, Richter S, Arya A, Dages N, Husser D, Bollmann A, Hindricks G, Müssigbrodt A. Characteristics of LA remodeling in patients with AF and hypertrophic cardiomyopathy in comparison to patients without hypertrophy. *Sci Rep.* 2021
5. **Nedios S**, Sanatkhani S, Oladosu M, Seewöster T, Richter S, Arya A, Heijman J, Crijns H, Hindricks G, Bollmann A, Menon PG. Association of low-voltage areas with the regional wall deformation and LA shape in patients with AF: A proof of concept study. *Int J Cardiol Heart Vasc.* 2021
6. **Nedios S**, Doering M, Darma A, Lucas J, Dinov B, Arya A, Dages N, Hindricks G, Bollmann A, Richter S, Bode K. Predictors of rhythm outcomes after CRT in AF: When should we use an atrial lead? *Clin Cardiol.* 2020
7. **Nedios S**, Löbe S, Knopp H, Seewöster T, Heijman J, Crijns HJGM, Arya A, Bollmann A, Hindricks G, Dinov B. LA activation and asymmetric anatomical remodeling in AF. *Clin Cardiol.* 2020
8. **Nedios S**, Dobrev D. Electrocardiographic sex-related differences in patients with atrial fibrillation: Do they allow a better risk stratification?. *Int J Cardiol.* 2020
9. **Nedios S**, Kircher S, Hindricks G. CMR imaging for the detection of LA remodeling and the prediction of AF ablation success: More than meets the eye.. *Int J Cardiol.* 2020
10. **Nedios S**, Koutalas E, Sommer P, Arya A, Rolf S, Husser D, Bollmann A, Hindricks G, Breithardt OA. Asymmetrical LA remodeling in AF, diastolic dysfunction & long-term ablation outcomes. *Europace* 2017
11. **Nedios S**, Sommer P, Bollmann A, Hindricks G. Advanced mapping systems to guide atrial fibrillation ablation: electrical information that matters. *J Atr Fibrillation* 2016
12. **Nedios S**, Seewöster T, Lip GH, Husser D, Hindricks G, Bollmann A, Kornej J. Association between peripheral plasma markers and LA anatomy in AF patients. *Int J Cardiol.* 2016
13. **Nedios S**, Darma A, Stevanello C, Richter S, Doering M, Rolf S, Sommer P, Hindricks G, Bollmann A, Arya A. Electrical storm in patients with implantable cardioverter-defibrillator in the era of catheter ablation: Implications for better rhythm control. *Heart Rhythm.* 2015
14. **Nedios S**, Kosiuk J, Koutalas E, Kornej J, Sommer P, Arya A, Richter S, Rolf S, Husser D, Hindricks G, Bollmann A. Comparison of left atrial dimensions in CT and echocardiography as predictors of long-term success after catheter ablation of AF. *J Interv Card Electrophysiol* 2015
15. **Nedios S**, Koutalas E, Kosiuk J, Sommer P, Arya A, Richter S, Rolf S, Husser D, Hindricks G, Bollmann A. Impact of asymmetrical LA dilatation on the long-term success after AF ablation. *Int J Card* 2015
16. **Nedios S**, Sommer P, Dages N, et al. Long-term follow-up after AF ablation in patients with impaired LV function: the importance of rhythm & rate control. *Heart rhythm.* 2014
17. **Nedios S**, Romero I, Gerds-Li JH, Fleck E, Kriatselis C. Precordial electrode placement for optimal ECG monitoring: implications for ambulatory devices & event recorders. *J Electrocard* 2014 PMID: 24857184
18. **Nedios S**, Kornej J, Koutalas E, Bertagnolli L, Kosiuk J, Rolf S, Arya A, Sommer P, Husser D, Hindricks G, Bollmann A. LAA morphology and thromboembolic risk after ablation for AF. *Heart rhythm.* 2014
19. **Nedios S**, Koutalas E, Kornej J, Rolf S, Arya A, Sommer P, Husser D, Hindricks G, Bollmann A. Cardiogenic Stroke Despite Low CHADS-VASc Score (ASK LAA) Assessing Stroke risk by left atrial appendage anatomy. *J Cardiovasc Electrophysiol.* 2015
20. **Nedios S**, Tang M, Roser M, Solowjowa N, Gerds-Li JH, Fleck E, Kriatselis C. Characteristic changes of volume and three-dimensional structure of the LA in different forms of AF: predictive value after ablative treatment. *J Interv Card Electroph.* 2011
21. **Nedios S**, Tang M, Yi G, Gerds-Li JH, Fleck E, Karabinos I, Kriatselis C. Small loop re-entry tachycardia between LA and left superior pulmonary vein: a late arrhythmogenic complication after PVI. How useful is P-wave morphology? *Hellenic J Cardiol* Jul-Aug 2009

22. Darma A*, **Nedios S***, Kosiuk J, Richter S, Doering M, Arya A, Rolf S, Sommer P, Hindricks G, Bollmann A. Differences in predictors of ICD therapies in patients with ischemic and non-ischemic cardiomyopathies. *Europace* 2015
23. Kosiuk J*, **Nedios S***, Kornej J, Koutalas E, Bertagnolli L, Rolf S, Arya A, Sommer P, Husser D, Hindricks G, Bollmann A. Impact of LAA morphology on peri-interventional thromboembolic risk during catheter ablation of atrial fibrillation. *Heart rhythm*. 2014
24. 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 AF catheter ablation on ICD therapies in patients with ischaemic & non-ischaemic cardiomyopathies. *Europace* 2014
25. Kriatselis C*, **Nedios S***, Akrivakis S, Tang M, Roser M, Gerds-Li JH, Fleck E, Orlov M. Intraprocedural imaging of LA & PVs: a comparison study between rotational angiography and cardiac computed tomography. *Pacing Clin Electroph*. 2011
26. Sanatkhani S, **Nedios S**, Menon PG, Bollmann A, Hindricks G, Shroff SG. Subject-Specific Calculation of LAA Blood-Borne Particle Residence Time Distribution in AF. *Front Physiol*. 2021
27. Seewöster T, Marinov K, Löbe S, Knopp H, **Nedios S**, Bollmann A, Hindricks G, Dinov B. Abnormal pattern of LA activation and asynchronous conduction predicted the occurrence of new AF: evidences for Bachmann's bundle block in AF pathophysiology. *Europace*. 2021
28. Sepehri Shamloo A, Arya A, Darma A, **Nedios S**, Döring M, Bollmann A, Dagres N, Hindricks G. Atrial fibrillation: is there a role for cardiac troponin? *Diagnosis (Berl)*. 2020
29. Sultankhonov S, **Nedios S**, Salayev O, Ramish H. A case of successful ablation of ventricular ectopic focus from the superior tricuspid annulus through the internal jugular vein. *EJH - Case Reports* 2020
30. Löbe S, Knopp H, Le TV, **Nedios S**, Seewöster T, Bode K, Sommer P, Bollmann A, Hindricks G, Dinov B. Left Atrial Asynchrony Measured by Pulsed-Wave Tissue Doppler Is Associated With Abnormal Atrial Voltage and Recurrences of AF After Catheter Ablation. *JACC EP* 2018
31. Seewöster T, Büttner P, **Nedios S**, Sommer P, Dagres N, Schumacher K, Bollmann A, Hilbert S, Jahnke C, Paetsch I, Hindricks G, Kornej J. Association between cardiovascular MR-derived LA dimensions, electroanatomical substrate and NT-proANP levels in AF. *J Am Heart Assoc*. 2018
32. Odening KE, Deiß S, Dilling-Boer D, Didenko M, Eriksson U, **Nedios S**, Ng FS, Roca Luque I, Sanchez Borque P, Vernoooy K, Wijmaalen AP, Yorgun H. Mechanisms of sex differences in AF: role of hormones and differences in electrophysiology, structure, function, and remodelling. *Europace*. 2018
33. Schoene K, Arya A, Jahnke C, Paetsch I, **Nedios S**, Hilbert S, Bollmann A, Hindricks G, Sommer P. Acquired Pulmonary Vein Stenosis After Radiofrequency Ablation for AF: Single-Center Experience in Catheter Interventional Treatment. *JACC Cardiovasc Interv*. 2018
34. Dinov B, Knopp H, Löbe S, **Nedios S**, Bode K, Schönbauer R, Sommer P, Bollmann A, Arya A, Hindricks G. Patterns of LA activation and evaluation of atrial dyssynchrony in patients with AF and normal controls: Factors beyond LA dimensions. *Heart Rhythm*. 2016
35. Kriatselis C, Kaufmann J, **Nedios S**, Liu J, Gerds-Li JH, Fleck E. Fast atrial activity predicts recurrence of AF after PVI: a prospective randomized study. *J Interv Card Electroph*. 2015
36. Romero I, **Nedios S**, Kriatselis C. Diagnosis & management of AF: an overview. *Cardiov. Ther Oct* 2014
37. Kosiuk J, Koutalas E, Doering M, Sommer P, Rolf S, Breithardt OA, **Nedios S**, Dinov B, Hindricks G, Richter S, Bollmann A. Treatment with novel oral anticoagulants in a real-world cohort of patients undergoing cardiac rhythm device implantations. *Europace*. 2014
38. Kosiuk J, Koutalas E, Doering M, **Nedios S**, Sommer P, Rolf S, Darma A, Breithardt OA, Dinov B, Hindricks G, Richter S, Bollmann A. Comparison of Dabigatran and Uninterrupted Warfarin in Patients With AF Undergoing Cardiac Rhythm Device Implantations. *Circ J* 2014
39. Kriatselis C, Kaufmann J, **Nedios S**, Tang M, Gerds-Li JH, Fleck E. Prolonged ablation on critical segments of PV ostia in PAF: a prospective randomized controlled study. *Pacing Clin Electroph*. 2014
40. Kriatselis CD, **Nedios S**, Kelle S, Helbig S, Gottwik M, von Bary C. Oxygen Kinetics and Heart Rate Response during Early Recovery from Exercise in Patients with Heart Failure. *Cardiol Res Pract*. 2012.
41. Kriatselis C, **Nedios S**, Roser M, Gerds-Li JH. Differentiation of orthodromic reciprocating tachycardia from atrioventricular nodal reentrant tachycardia. *Heart Rhythm*. 2012
42. Kriatselis C, **Nedios S**, Wellens H. A narrow QRS tachycardia with irregular atrial and ventricular intervals & VA dissociation: what is the mechanism? *JCardiovascElectrophysiol* 2012
43. Tang M, Kriatselis C, **Nedios S**, Ye G, Roser M, Fleck E, Gerds-Li JH. A novel cryoballoon technique for mapping and isolating pulmonary veins: a feasibility and efficacy study. *JCE* 2010
44. Tang M, Gerds-Li JH, **Nedios S**, Roser M, Fleck E, Kriatselis C. Optimal fluoroscopic projections for angiographic imaging of the PV ostia. *Europace* 2010
45. Tang M, Kriatselis C, **Nedios S**, Roser M, Goetze S, Fleck E, Gerds-Li JH. Combined use of 3D rotational LA angiogram and circular ablation catheter for PVI. *Chin Med J* 2012
46. von Bary C, Dornia C, Eissnert C, **Nedios S**, Roser M, Hamer OW, Gerds-Li JH, Paetsch I, Jahnke C, Gebker R, Weber S, Fleck E, Kriatselis C. Predictive value of LA volume measured by non-invasive cardiac imaging in the treatment of paroxysmal AF. *J Interv Card Electrophysiol* 2012
47. Tang M, Kriatselis C, Ye G, **Nedios S**, Roser M, Solowjowa N, Fleck E, Gerds-Li JH. Reconstructing and registering 3D rotational angiogram of LA during AF ablation. *PACE* 2009
48. Kriatselis C, Tang M, **Nedios S**, Roser M, Gerds-Li H, Fleck E. Intraprocedural reconstruction of LA & PVs as a single navigation tool for AF ablation: a feasibility, efficacy & safety study. *Heart Rhythm* 2009.