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Brief

Date of Birth: December 17th, 1957, Virum, Copenhagen, Denmark.
Marital status: Married & 3 children.
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Education and previous employments

1983 - Graduated from University of Copenhagen as medical doctor (MD)
1994 - Doctor of Medical Sciences (DMSc; dr.med.). The doctoral thesis: "The microcirculation of the heart with special reference to the role of reactive oxygen metabolites in the microvascular reperfusion injury; University of Copenhagen,
1995 - Board certified specialist in General Internal Medicine
1997 - Board certified specialist in Cardiovascular Diseases (Cardiology)
2004-05 - Professor of Invasive Cardiac Electrophysiology, University of Copenhagen

Current employments and administrative functions

1998 - Chief Physician (consultant), Rigshospitalet, Copenhagen University Hospital
2007 - Professor of Cardiac Arrhythmia, Faculty of Health and Medical Sciences, University of Copenhagen
2013 - Coordinating Professor at the Heart Centre, Rigshospitalet, University of Copenhagen
2014 - Deputy Head of Department of Clinical Medicine, University of Copenhagen
2015 - Director of Laboratory of Molecular Cardiology (following Stig Haunsø), The Heart Centre, Rigshospitalet

Positions of Trust (in National and International Societies, etc):

- Academic Secretary in Working Group Microcirculation, European Society of Cardiology (1990 – 1994)
- Member of the board of the Danish Society of Cardiology (1992 – 1998)
- Academic secretary in the board of the Danish Society of Cardiology (1994 – 1998)
- Nucleus member of Working Group Microcirculation, European Society of Cardiology (1994 – 1997)
- Member of the Scientific Initiative Committee, European Heart Rhythm Association (2009 - 2013)
- Board member of the Danish Cardiovascular Research Academy School (2007 - 2011)
- Advisor for the Danish National Board of Health in arrhythmia/device related questions
- Member of Organising Committees on multiple national and international scientific conferences

Honours and Awards:

- Awarded 2nd. price in scientific lecture competition at the 30 year anniversary symposium in the Danish Society of Cardiology, 18-19.05.1990.
- Awarded "The Outstanding Young Person of the Year" for research 1994 in Denmark for the organisation Junior Chamber (the film instructor Ole Bornedal received the price for culture). In the international competition JHS was among 3 finalists.
- Fellow of European Society of Cardiology since June 1999
- Elected as the Research Profile of the Month, December 2013, The Faculty of Health and Medical Sciences, University of Copenhagen
- Awarded the Research Price 2014 of the Independent Order of Odd Fellows (Odd Fellow Ordenen),
- 25 years employment as MD at Rigshospitalet, Copenhagen (per 2014)

Scientific Qualifications:

Research areas are focused on cardiac arrhythmias including: ion channel diseases, atrial fibrillation, genetics in arrhythmia diseases, inflammation in arrhythmia, Arrhythmogenic Right Ventricular Cardiomyopathy, ICD treatment. Supervisor on bachelor or master thesis projects for more than 30 students
Supervisor on 25 PhD projects (hereof 18 successfully completed)
Reviewer function for scientific journals (among others: Nature Reviews Cardiology, JACC, Circulation AE, European Heart Journal, Circ Res, Cardiovasc Res).

Comments to publications:

Author or co-author of more than 270 research papers in peer reviewed journals of which more than 220 are original scientific publications. In addition, author of 16 book chapters or books.

Publications

Effects of population-based screening for atrial fibrillation on quality of life

Kongebro, E. K., Kronborg, C., Xing, L. Y., Haugan, K. J., Graff, C., Højberg, S., Olesen, M. S., Krieger, D., Brandes, A., Køber, L., Svendsen, J. H. & Diederichsen, S. Z., Apr 2025, In: European Journal of Internal Medicine. 134, p. 41-50 10 p.

Hypertension and Atrial Fibrillation: A Frontier Review From the AF-SCREEN International Collaboration

Niiranen, T. J., Schnabel, R. B., Schutte, A. E., Biton, Y., Boriani, G., Buckley, C., Cameron, A. C., Damasceno, A., Diederichsen, S. Z., Doehner, W., Guo, Y., Hobbs, F. D. R., Joung, B., Hankey, G. J., Lip, G. Y. H., Lobban, T., Løchen, M.-L., Mairesse, G., Mbakwem, A. & Noseworthy, P. A. & 9 others, Ntaios, G., Steinhubl, S., Stergiou, G., Svendsen, J. H., Tieleman, R. G., Wang, J., Poulter, N. R., Healey, J. S. & Freedman, B., 25 Mar 2025, In: Circulation. 151, 12, p. 863-877 15 p.

Left Ventricular Ejection Fraction and Implantable Cardioverter-Defibrillator in Non-ischemic Heart Failure with Reduced Ejection Fraction: Insights from DANISH

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Signal-Averaged ECG in the Diagnostic Workup for Arrhythmogenic Cardiomyopathy: Insights From the Nordic ARVC Registry

Savelev, A. A., Aabel, E. W., Svensson, A., Dahlberg, P., Christensen, A. H., Madsen, T., Bundgaard, H., Heliö, T., Ulfarsson, A., Edvardsen, T., Svendsen, J. H., Jensen, H. K., Haugaa, K. H. & Platonov, P. G., 18 Mar 2025, In: Journal of the American Heart Association. 14, 6, p. e037544 e037544.

Atrial fibrillation burden in clinical practice, research, and technology development: a clinical consensus statement of the European Society of Cardiology Council on Stroke and the European Heart Rhythm Association

Doehner, W., Boriani, G., Potpara, T., Blomstrom-Lundqvist, C., Passman, R., Sposato, L. A., Dobrev, D., Freedman, B., Van Gelder, I. C., Glotzer, T. V., Healey, J. S., Karapanayiotides, T., Lip, G. Y. H., Merino, J. L., Ntaios, G., Schnabel, R. B., Svendsen, J. H., Sventenberg, E., Wachter, R. & Haeusler, K. G. & 1 others, Camm, A. J., 5 Mar 2025, In: Europace : European pacing, arrhythmias, and cardiac electrophysiology : journal of the working groups on cardiac pacing, arrhythmias, and cardiac cellular electrophysiology of the European Society of Cardiology. 27, 3, euaf019.

Anthropometric measures and long-term mortality in non-ischaemic heart failure with reduced ejection fraction: Questioning the obesity paradox

Butt, J. H., Thune, J. J., Nielsen, J. C., Haarbo, J., Videbæk, L., Gustafsson, F., Kristensen, S. L., Bruun, N. E., Eiskjær, H., Brandes, A., Hassager, C., Svendsen, J. H., Høfsten, D. E., Torp-Pedersen, C., Schou, M., Pehrson, S., Packer, M., McMurray, J. J. V. & Køber, L., Mar 2025, In: European Journal of Heart Failure. 27, 3, p. 527-536 10 p.

Cardiac arrhythmia and hypoglycaemia among individuals with and without diabetes receiving haemodialysis (the CADDY study): a Danish multicentre cohort study

Kofod, D. H., Diederichsen, S. Z., Bomholt, T., Andersen, M. Ø., Andersen, A., Mannheimer, E., Rix, M., Liem, Y. S., Lindhard, K., Hansen, H. P., Rydahl, C., Lindhardt, M., Brøsen, J., Schandorff, K., Lange, T., Nørgaard, K., Almdal, T. P., Svendsen, J. H., Feldt-Rasmussen, B. & Hornum, M., 28 Feb 2025, (E-pub ahead of print) In: Diabetologia.

Genetic Susceptibility to Hidradenitis Suppurativa and Predisposition to Cardiometabolic Disease

Nielsen, V. W., Bundgaard Vad, O., Holgersen, N., Paludan-Müller, C., Meseguer Monfort, L., Beyer, A. F., Jemec, G. B. E., Kjærsgaard Andersen, R., Egeberg, A., Thyssen, J. P., Svendsen, J. H., Rosenø, N. A. L., Hansen, P. R., Thomsen, S.

F. & Salling Olesen, M., 1 Jan 2025, In: JAMA Dermatology. 161, 1, p. 22-30 9 p.

Incidence and risk factors for first and recurrent ICD shock therapy in patients with an implantable cardioverter defibrillator
Frodi, D. M., Diederichsen, S. Z., Xing, L. Y., Spona, D. C., Jacobsen, P. K., Risum, N. & Svendsen, J. H., Jan 2025, In: Journal of Interventional Cardiac Electrophysiology. 68, 1, p. 125-139 15 p., e007392.

Long-term Rate of Ventricular Arrhythmia in Autoimmune Disease

Sun, G., Fosbøl, E. L., Schou, M., Faurschou, M., Yafasova, A., Petersen, J. K., Haugan, K. J., Mogensen, U. M., Svendsen, J. H., Køber, L. & Butt, J. H., 23 Dec 2024, In: European Journal of Preventive Cardiology. 31, 18, p. 2127-2134 8 p.

Genetic Determinants of Left Atrial Function Are Associated With Stroke

Vad, O. B., Paludan-Müller, C., Diederichsen, S. Z., McKaige, E. A., Monfort, L. M., Lundegaard, P. R., Bertelsen, L., Andreasen, L., Svendsen, J. H. & Olesen, M. S., 3 Dec 2024, In: Journal of the American Heart Association. 13, 23, e037490.

Deep behavioural representation learning reveals risk profiles for malignant ventricular arrhythmias

Kolk, M. Z. H., Frodi, D. M., Langford, J., Andersen, T. O., Jacobsen, P. K., Risum, N., Tan, H. L., Svendsen, J. H., Knops, R. E., Diederichsen, S. Z. & Tjong, F. V. Y., Dec 2024, In: NPJ digital medicine. 7, 1, 250.

Genome-Wide Association Study of Accessory Atrioventricular Pathways

Aegisdottir, H. M., Andreasen, L., Thorolfsson, R. B., Sveinbjornsson, G., Jonsdottir, A. B., Stefansdottir, L., Thorleifsson, G., Sigurdsson, A., Halldorsson, G. H., Barc, J., Simonet, F., Tragante, V., Oddsson, A., Ferkingstad, E., Svendsen, J. H., Ghouse, J., Ahlberg, G., Paludan-Müller, C., Hadji-Turdeghal, K. & Bustamante, M. & 24 others, Ulfarsson, M. O., Helgadóttir, A., Gretarsdóttir, S., Saevarsdóttir, S., Jonsdóttir, I., Erikstrup, C., Ullum, H., Sørensen, E., Brunak, S., Jøns, C., Zheng, C., Bezzina, C. R., Knowlton, K. U., Nadauld, L. D., Sulem, P., Ostrowski, S. R., Pedersen, O. B., Arnar, D. O., Gudbjartsson, D. F., Olesen, M. S., Bundgaard, H., Holm, H., Stefansson, K. & DBDS Consortium, 1 Nov 2024, In: JAMA Cardiology. 9, 11, p. 1053-1058 6 p.

Effect of Implantable Cardioverter-defibrillators in Nonischemic Heart Failure According to Background Medical Therapy: Extended follow-up of the DANISH trial

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Relationship between activity and sleep, as measured through a wearable accelerometer, and appropriate cardioverter-defibrillator interventions: a prospective SafeHeart substudy

Frodi, D. M., Kolk, M. Z. H., Diederichsen, S. Z., Langford, J., Knops, R. E., Tan, H. L., Andersen, T. O., Jacobsen, P. K., Risum, N., Tjong, F. V. Y. & Svendsen, J. H., 3 Oct 2024, In: Europace : European pacing, arrhythmias, and cardiac electrophysiology : journal of the working groups on cardiac pacing, arrhythmias, and cardiac cellular electrophysiology of the European Society of Cardiology. 26, 10, euae241.

2024 ESC Guidelines for the management of atrial fibrillation developed in collaboration with the European Association for Cardio-Thoracic Surgery (EACTS)

Van Gelder, I. C., Rienstra, M., Bunting, K. V., Casado-Arroyo, R., Caso, V., Crijns, H. J. G. M., De Potter, T. J. R., Dwight, J., Guasti, L., Hanke, T., Jaarsma, T., Lettino, M., Løchen, M.-L., Lumbers, R. T., Maesen, B., Mølgaard, I., Rosano, G. M. C., Sanders, P., Schnabel, R. B. & Suwalski, P. & 8 others, Svennberg, E., Tamargo, J., Tica, O., Traykov, V., Tzeis, S., Kotecha, D., ESC Scientific Document Group & Svendsen, J. H. (Member of study group), 29 Sept 2024, In: European Heart Journal. 45, 36, p. 3314-3414 101 p.

Exercise-based cardiac rehabilitation for adults with atrial fibrillation

Buckley, B. J., Long, L., Risom, S. S., Lane, D. A., Berg, S. K., Gluud, C., Palm, P., Sibilitz, K. L., Svendsen, J. H., Zwisler, A.-D., Lip, G. Y., Neubeck, L. & Taylor, R. S., 17 Sept 2024, In: Cochrane Database of Systematic Reviews. 9, 9, CD011197.

Behavioural digital biomarkers enable real-time monitoring of patient-reported outcomes: a substudy of the multicentre, prospective observational SafeHeart study

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Effects of atrial fibrillation screening according to thyroid function: Post-hoc analysis of the randomized LOOP study

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Cardiac arrhythmias and hypoglycaemia in patients receiving haemodialysis with and without diabetes (the CADDY study): a Danish multicentre cohort study

Kofod, D., Diederichsen, S., Bomholt, T., Andersen, M., Mannheimer, E., Rix, M., Liem, Y., Lindhard, K., Lindhardt, M., Brosen, J. M., Norgaard, K., Almdal, T., Svendsen, J., Feldt-Rasmussen, B. & Hornum, M., 1 Sept 2024, In: Diabetologia. 67, suppl. 1, p. S510

Long-term adherence to a wearable for continuous behavioural activity measuring in the SafeHeart implantable cardioverter defibrillator population

Frodi, D. M., Kolk, M. Z. H., Langford, J., Knops, R., Tan, H. L., Andersen, T. O., Jacobsen, P. K., Risum, N., Svendsen, J. H., Tjong, F. V. Y. & Diederichsen, S. Z., Sept 2024, In: European heart journal. Digital health. 5, 5, p. 622-632 11 p.

Natural Course of Electrocardiographic Features in Arrhythmogenic Right Ventricular Cardiomyopathy and Their Relation to Ventricular Arrhythmic Events

Svensson, A., Jensen, H. K., Boonstra, M. J., Tétreault-Langlois, M., Dahlberg, P., Bundgaard, H., Christensen, A. H., Rylance, R. T., Svendsen, J. H., Cadrin-Tourigny, J., Te Riele, A. S. J. M. & Platonov, P. G., 20 Aug 2024, In: Journal of the American Heart Association. 13, 16, e031893.

Rare and Common Genetic Variation Underlying Atrial Fibrillation Risk

Vad, O. B., Monfort, L. M., Paludan-Müller, C., Kahnert, K., Diederichsen, S. Z., Andreasen, L., Lotta, L. A., Nielsen, J. B., Lundby, A., Svendsen, J. H., Olesen, M. S. & Geisinger MyCode Community Health Initiative and the Regeneron Genetics Center (RGC) Research Team, 1 Aug 2024, In: JAMA Cardiology. 9, 8, p. 732-740 9 p.

Heart Failure Events After Long-term Continuous Screening for Atrial Fibrillation: Results From the Randomized LOOP Study

Xing, L. Y., Højberg, S., Krieger, D. W., Graff, C., Olesen, M. S., Healey, J. S., McIntyre, W. F., Brandes, A., Køber, L., Haugan, K. J., Svendsen, J. H. & Diederichsen, S. Z., Aug 2024, In: Circulation. Arrhythmia and Electrophysiology. 17, 8, e012764.

Atrial Fibrillation Burden and Changes in LV Structure and Function Over Time: A LOOP Substudy

Vyff, F., Johansen, N. D., Alhakak, A. S., Olsen, F. J., Diederichsen, S. Z., Højberg, S., Brandes, A., Haugan, K. J., Køber, L., Svendsen, J. H. & Biering-Sørensen, T., Jul 2024, In: JACC. Cardiovascular imaging. 17, 7, p. 824-826 3 p.

Risk of heart failure among individuals tested for *Borrelia burgdorferi* sensu lato antibodies, and serum *Borrelia burgdorferi* sensu lato seropositive individuals; a nationwide population-based, registry-based matched cohort study

Tetens, M. M., Omland, L. H., Dessau, R. B., Ellermann-Eriksen, S., Andersen, N. S., Jørgensen, C. S., Østergaard, C., Bodilsen, J., Søgaard, K. K., Bangsbo, J., Nielsen, A. C. Y., Møller, J. K., Chen, M., Svendsen, J. H., Obel, N. & Lebech, A.-M., Jul 2024, In: Ticks and Tick-borne Diseases. 15, 4, 102345.

Screening for atrial fibrillation: the role of CHA2DS2-VASc and atrial fibrillation burden

Xing, L. Y., Vad, O. B., Engler, D., Svendsen, J. H. & Diederichsen, S. Z., Jul 2024, In: European heart journal supplements : journal of the European Society of Cardiology. 26, Suppl 4, p. iv41-iv49

The budget impact of implementing atrial fibrillation-screening in European countries

Eklund, M., Bernfort, L., Appelberg, K., Engler, D., Schnabel, R. B., Martinez, C., Wallenhorst, C., Boriani, G., Buckley, C. M., Diederichsen, S. Z., Svendsen, J. H., Montaner, J., Potpara, T., Levin, L.-Å. & Lyth, J., Jul 2024, In: European heart journal supplements : journal of the European Society of Cardiology. 26, Suppl 4, p. iv19-iv32

Atrial fibrillation: age at diagnosis, incident cardiovascular events, and mortality

Paludan-Müller, C., Vad, O. B., Stampe, N. K., Diederichsen, S. Z., Andreasen, L., Monfort, L. M., Fosbøl, E. L., Køber, L., Torp-Pedersen, C., Svendsen, J. H. & Olesen, M. S., 28 Jun 2024, In: *European Heart Journal*. 45, 24, p. 2119-2129 11 p.

Meta-Analysis of Genome-Wide Association Studies Reveals Genetic Mechanisms of Supraventricular Arrhythmias

Weng, L.-C., Khurshid, S., Hall, A. W., Nauffal, V., Morrill, V. N., Sun, Y. V., Rämö, J. T., Beer, D., Lee, S., Nadkarni, G., Johnson, R., Andreasen, L., Clayton, A., Pullinger, C. R., Yoneda, Z. T., Friedman, D. J., Hyman, M. C., Judy, R. L., Skanes, A. C. & Orland, K. M. & 31 others, Jordà, P., Treu, T. M., Oetjens, M. T., Subbiah, R., Hartmann, J. P., May, H. T., Kane, J. P., Issa, T. Z., Nafissi, N. A., Leong-Sit, P., Dubé, M.-P., Roselli, C., Choi, S. H., Tardif, J.-C., Khan, H. R., Knight, S., Svendsen, J. H., Walker, B., Karlsson Linnér, R., Gaziano, J. M., Tadros, R., Fatkin, D., Rader, D. J., Shah, S. H., Roden, D. M., Marcus, G. M., Loos, R. J. F., Damrauer, S. M., Haggerty, C. M., Olesen, M. S. & FinnGen, Million Veteran Program, Regeneron Genetics Center, Jun 2024, In: *Circulation. Genomic and precision medicine*. 17, 3, 8 p., e004320.

New York Heart Association functional class and implantable cardioverter-defibrillator in non-ischaemic heart failure with reduced ejection fraction: Extended follow-up of the DANISH trial

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Response by Olsen et al to Letter Regarding Article, "Left Atrial Strain Predicts Subclinical Atrial Fibrillation Detected by Long-Term Continuous Monitoring in Elderly High-Risk Individuals"

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Hjertesygdomme

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Continuous heart monitoring to evaluate treatment effects in pulmonary hypertension

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Risk of cardiac conduction disorders, and pacemaker implantations among individuals tested for serum *Borrelia burgdorferi* antibodies, a nationwide, matched, population-based cohort study

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Epicardial adipose tissue and subclinical incident atrial fibrillation as detected by continuous monitoring: a cardiac magnetic resonance imaging study

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Left Atrial Strain Predicts Subclinical Atrial Fibrillation Detected by Long-term Continuous Monitoring in Elderly High-Risk Individuals

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Association between Myocardial Work Indices and Cardiovascular Events According to Hypertension in the General Population

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The ABC-Stroke Risk Score and Effects of Atrial Fibrillation Screening on Stroke Prevention: Results From the Randomized LOOP Study

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Estimated Glomerular Filtration Rate and Implantable Cardioverter-Defibrillator in Nonischemic Systolic Heart Failure: Extended Follow-Up of DANISH

Doi, S. N., Thune, J. J., Nielsen, J. C., Haarbo, J., Videbæk, L., Yafasova, A., Bruun, N. E., Gustafsson, F., Eiskjær, H., Hassager, C., Svendsen, J. H., Høfsten, D. E., Torp-Pedersen, C., Pehrson, S., Køber, L. & Butt, J. H., 6 Feb 2024, In: *Journal of the American Heart Association*. 13, 3, e031977.

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Projects

A randomised clinical trial of a comprehensive sexual rehabilitation program plus usual care versus usual care in male patients with impaired sexual function and implantable cardioverter defibrillator or patients with ischaemic heart disease.

Palm Johansen, P. (Project participant), Zwisler, A.-D. (Project participant), Gluud, C. (Project participant), Giralddi, A. (Project participant), Lindschou, J. (Project participant), Svendsen, J. H. (Project participant), Thygesen, L. C. (Project participant) & Berg, S. K. (Project participant)

01/01/2013 → 01/03/2018

"Kan man beskytte hjernen mod tromboembolier ved lukning af venstre atriums aurikel under åben hjertekirurgi?"

Dominguez Vall-Lamora, M. H. (Project participant), Irmukhamedov, A. (Project participant), Al-Farra, G. (Project participant), Holme, S. (Project participant), Truelsen, T. C. (Project participant), Dixen, U. (Project participant) & Svendsen, J. H. (Project participant)

01/06/2010 → ...