

Egon Toft - CV

Egon Toft
Professor, Dekan
Det Sundhedsvidenskabelige Fakultet
Institut for Medicin og Sundhedsteknologi
Center for Sansse-Motorisk Interaktion
Centre for Health Communication

Niels Jernes Vej 10, B-007A
9220, Aalborg Ø
Danmark
E-mail: et@adm.aau.dk
Telefon: 9940 9547
Fax: 9815 9757
Mobil: 4018 9819

Examinations and authorisations

1995 Dr. Med. Sci. (Dissertation above PhD level), University of Copenhagen, Denmark
1994 Specialist in Cardiology
1984 MD, Aarhus University, Denmark

Administrative Positions

2002-2004 Ethical committee for Viborg and North Jutland Counties
2001-2004 Head of Research School in Health Technology, Aalborg Hospital and Aalborg University under the Ministry of Education
2000-2002 Adjunct Professor In Clinical Electrophysiology, Center for Sensory-Motor Interaction, Aalborg University
1998-2003 Responsible for research administration at department of Cardiology, Aalborg Hospital
1998-2006 General Assembly, Danish Medical Society
1996-2003 Responsible for postgraduate medical education at department of Cardiology, Aalborg Hospital
1996-1999 Board, Medical Association in the County of North Jutland

Work Positions

2010 Dean, Faculty of Medicine, Aalborg University
2006 Ass. Dean Faculty of Medicine, Aalborg University
2002-2006 Professor in Clinical Electrophysiology, Department of Health Science and Technology, Aalborg University
1996-2006 Consultant, Dept of Cardiology, Aalborg Hospital, Aarhus University Hospitals. Responsible for treatment of tachyarrhythmias

Appointments

Opponent PhD defenses and DMSc defences University of Copenhagen and Aarhus University.
Moderator and opponent PhD defenses Aalborg University, Faculty of Engineering and Science.
Fellow European Society of Cardiology.
Member of guideline committees, Danish Society of Cardiology.
Member of task force for FDA, evaluating new cardiac biomarkers in relation to drug testing.

Awards

Medical Association of North Jutland as the most valuable person for the postgraduate medical training in the County of North Jutland 2000.
Det Obelske Familiefonds Teaching Price for Aalborg University for the year 2004.

Appendix A - Clinical Achievements

I introduced ICD implantations and implemented ablations for tachyarrhythmias at Aalborg University Hospital. Under my management Aalborg University Hospital went from implantation of simple pacemakers to a facility with 2 full time working labs implanting all kinds of pacemakers and ICDs and ablation of all kinds of tachyarrhythmias in adults. This included the projection and funding of the labs, training of the staff and implementing the different technologies used for the invasive treatment of tachyarrhythmias.

Furthermore I have made more than 1500 coronary angiographies and a few PCIs.

I was single responsible for approximately 40% of the patients in the cardiology ward and led the hospital from a low national level to an international level in the field.

Appendix B - Journal Articles

Schmidt, S. E., Madsen, L. H., Hansen, J., Zimmermann, H., Kelbæk, H., Winter, S., Hammershøi, D., Toft, E., Struijk, J. J., & Clemmensen, P. (2022). Coronary Artery Disease Detected by Low Frequency Heart Sounds. *Cardiovascular engineering and technology*, 13(6), 864-871. <https://doi.org/10.1007/s13239-022-00622-6>

Kassab, S. E., Du, X., Toft, E., Cyprian, F., Al-Moslih, A., Schmidt, H., Hamdy, H., & Abu-Hijleh, M. (2019). Measuring medical students' professional competencies in a problem-based curriculum: a reliability study. *BMC Medical Education*, 19(1), Artikel 155. <https://doi.org/10.1186/s12909-019-1594-y>

Yi, F., Hou, W., Zhou, C., Yin, Y., Lu, S., Duan, C., Cao, M., Li, M., Toft, E. S., & Zhang, H. (2019). Radiofrequency Ablation Versus Antiarrhythmic Drug Therapy for Atrial Fibrillation: Meta-analysis of Safety and Efficacy. *Journal of Cardiovascular Pharmacology*, 73(4), 241-247. <https://doi.org/10.1097/FJC.0000000000000654>

Bhuiyan, T. A., Graff, C., Kanters, J. K., Melgaard, J., Toft, E., Kääb, S., & Struijk, J. J. (2018). A history of drug-induced Torsades de Pointes is associated with T-wave morphological abnormalities. *Clinical Pharmacology & Therapeutics*, 103(6), 1100-1106. <https://doi.org/10.1002/cpt.886>

Zhang, H., Li, X., Deng, W., Wang, X., Wang, S., Ge, J., & Toft, E. (2017). Drug release kinetics from a drug-eluting stent with asymmetrical coat. *Frontiers in Bioscience*, 22, 407-415. <https://www.bioscience.org/2017/v22/af/4491/list.htm>

Cai, H., Krebs, H. J., Tao, Y., Hansen, J., Pan, R., Cai, Y., Toft, E., & Dinesen, B. (2016). A qualitative study on implementation of the intelligent bed: findings from a rehabilitation ward at a large Chinese tertiary hospital. *Wireless Personal Communications*, 90(1), 399-420. <https://doi.org/10.1007/s11277-016-3375-9>

Dinesen, B. I., Nonnecke, B., Lindeman, D., Toft, E., Kidholm, K., Jethwani, K., Young, H. M., Spindler, H., Østergaard, C. U., Southard, J. A., Gutierrez, M., Anderson, N., Albert, N. M., Han, J. J., & Nesbitt, T. (2016). Personalized telehealth in the future: a global research agenda. *Journal of Medical Internet Research*, 18(3), Artikel e53. <https://doi.org/10.2196/jmir.5257>

Riknagel, D., Dinesen, B. I., Zimmermann, H., Farlie, R., Schmidt, S., Toft, E., & Struijk, J. J. (2016). Digital auscultation of the uterine artery: a measure of uteroplacental perfusion. *Physiological Measurement*, 37(7), 1163-1171. <https://doi.org/10.1088/0967-3334/37/7/1163>

Winther, S., Schmidt, S. E., Holm, N. R., Toft, E., Struijk, J. J., Bøtker, H. E., & Bøttcher, M. (2016). Diagnosing coronary artery disease by sound analysis from coronary stenosis induced turbulent blood flow: diagnostic performance in patients with stable angina pectoris. *International Journal of Cardiovascular Imaging*, 32(2), 235-245. <https://doi.org/10.1007/s10554-015-0753-4>

Zhang, H., Wang, X., Deng, W., Wang, S., Ge, J., & Toft, E. (2016). Randomized clinical trial comparing abluminal biodegradable polymer sirolimus-eluting stents with durable polymer sirolimus-eluting stents: nine months angiographic and 5-year clinical outcomes. *Medicine*, 95(38), Artikel e4820. <https://doi.org/10.1097/MD.0000000000004820>

Zhang, H., Deng, W., Wang, X., Wang, S., Ge, J., & Toft, E. (2016). Solely abluminal drug release from coronary stents could possibly improve reendothelialization. *Catheterization and Cardiovascular Interventions*, 88(3), E59-E66. <https://doi.org/10.1002/ccd.25335>

Bhuiyan, T. A., Graff, C., Kanters, J. K., Nielsen, J., Melgaard, J., Matz, J., Toft, E., & Struijk, J. J. (2015). The T-peak-T-end interval as a marker of repolarization abnormality: a comparison with the QT interval for five different drugs. *Clinical Drug Investigation*, 35(11), 717-724. <https://doi.org/10.1007/s40261-015-0328-0>

- Cai, H., Toft, E., & Dinesen, B. (2015). A conceptual framework for the effect evaluation of the intelligent bed. *Wireless Personal Communications*, 80(4), 1405-1414. <https://doi.org/10.1007/s11277-014-2090-7>
- Cai, H., Toft, E., Hejlesen, O., Hansen, J., Østergaard, C. U., & Dinesen, B. I. (2015). Health professionals' user experience of the intelligent bed in patients' homes. *International Journal of Technology Assessment in Health Care*, 31(4), 256-263. <https://doi.org/10.1017/S0266462315000380>
- Hong, L., Andersen, L. J., Graff, C., Vedel-Larsen, E., Wang, F., Struijk, J., Søgaard, P., Hansen, P. R., Yang, Y. Z., Christiansen, M., Toft, E., & Kanters, J. K. (2015). T-wave morphology analysis of competitive athletes. *Journal of Electrocardiology*, 48(1), 35-42. <https://doi.org/10.1016/j.jelectrocard.2014.10.011>
- Nielsen, J., Matz, J., Mittoux, A., Polcwiartek, C., Struijk, J., Toft, E., Kanters, J. K., & Graff, C. (2015). Cardiac effects of sertindole and quetiapine: analysis of ECGs from a randomized double-blind study in patients with schizophrenia. *European Neuropsychopharmacology*, 25(3), 303-311. <https://doi.org/10.1016/j.euroneuro.2014.12.005>
- Schmidt, S., Holst-Hansen, C., Hansen, J., Toft, E., & Struijk, J. (2015). Acoustic features for the identification of coronary artery disease. *IEEE Transactions on Biomedical Engineering*, 62(11), 2611-2619. Artikel 7105874. <https://doi.org/10.1109/TBME.2015.2432129>
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- Hjortshøj, S., Heath, F. P., Haugland, M., Eschen, O., Thøgersen, A. M., Riahi, S., Toft, E., & Struijk, J. J. (2014). Long pacing Pulses Reduce Phrenic Nerve Stimulation in Left Ventricular Pacing. *Journal of Cardiovascular Electrophysiology*, 25(5), 485-490. <https://doi.org/10.1111/jce.12345>
- Dinesen, B., Huniche, L., & Toft, E. (2013). Attitudes of COPD patients towards tele-rehabilitation: a cross-sector case study. *International Journal of Environmental Research and Public Health*, 10(11), 6184-6198. <https://doi.org/10.3390/ijerph10116184>
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- Dinesen, B., Hæsum, L. K. E., Sørensen, N., Nielsen, C., Grann, O., Hejlesen, O., Toft, E., & Ehlers, L. H. (2012). Using preventive home monitoring to reduce hospital admission rates and reduce costs: A case study of telehealth among chronic obstructive pulmonary disease patients. *Journal of Telemedicine and Telecare*, 18(4), 221–225. <https://doi.org/10.1258/jtt.2012.110704>
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- Hæsum, L. K. E., Sørensen, N., Dinesen, B., Nielsen, C., Grann, O., Hejlesen, O., Toft, E., & Ehlers, L. H. (2012). Cost-utility analysis of a telerehabilitation program: A case study of COPD patients. *Telemedicine and e-Health*, 18(9), 688-692. <https://doi.org/10.1089/tmj.2011.0250>
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- Schmidt, S., Graebe, M., Toft, E., & Struijk, J. (2011). No evidence of nonlinear or chaotic behavior of cardiovascular murmurs. *Biomedical Signal Processing and Control*, 6(2), 157-163. <https://doi.org/10.1016/j.bspc.2010.07.003>
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Madsen, T., Christensen, J. H., Thøgersen, A. M., Schmidt, E. B., & Toft, E. (2010). Intravenous infusion of n-3 polyunsaturated fatty acids and inducibility of ventricular tachycardia in patients with implantable cardioverter defibrillator. *Europace*, *12*(7), 941-946. <https://doi.org/10.1093/europace/euq085>

Nielsen, C. E. H., Graff, C., Andersen, M. P., Hardahl, T. B., Struijk, J., Toft, E., Xue, J., Rowlandson, G. I., Hansen, P. R., & Kanters, J. K. (2010). Reference values of electrocardiogram repolarization variables in a healthy population. *Journal of Electrocardiology*, *43*(1), 31-39. <https://doi.org/10.1016/j.jelectrocard.2009.08.001>

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Dinesen, B., & Toft, E. (2009). Telehomecare challenge collaboration among healthcare professionals. *Wireless Personal Communications*, *51*(4), 711-724. <https://doi.org/10.1007/s11277-009-9767-3>

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