



Publikationen

- Zellerhoff S, Pistulli R, Mönnig G, Hinterseer M, Beckmann BM, Köbe J, Steinbeck G, Käab S, Haverkamp W, Fabritz L, Gradaus R, Breithardt G, Schulze-Bahr E, Böcker D, Kirchhof P. Atrial Arrhythmias in long-QT syndrome under daily life conditions: a nested case control study. *J Cardiovasc Electrophysiol.* 2009 Apr;20(4):401-7. Epub 2008 Oct 27. PubMed PMID: 19017345.
- Bass AS, Darpo B, Breidenbach A, Bruse K, Feldman HS, Garnes D, Hammond T, Haverkamp W, January C, Koerner J, Lawrence C, Leishman D, Roden D, Valentin JP, Vos MA, Zhou YY, Karluss T, Sager P. International Life Sciences Institute (Health and Environmental Sciences Institute, HESI) initiative on moving towards better predictors of drug-induced torsades de pointes. *Br J Pharmacol.* 2008 Aug;154(7):1491-501. PubMed PMID: 18663380; PubMed Central PMCID: PMC2492102.
- Blaschke D, Parwani AS, Huemer M, Rolf S, Boldt LH, Dietz R, Haverkamp W. Torsade de pointes during combined treatment with risperidone and citalopram. *Pharmacopsychiatry.* 2007 Nov;40(6):294-5. PubMed PMID: 18030657.
- Haverkamp W. [Congenital long QT syndrome]. *Herz.* 2007 May;32(3):201-5. Review. German. PubMed PMID: 17497252.
- Milberg P, Hilker E, Ramtin S, Cakir Y, Stypmann J, Engelen MA, Mönnig G, Osada N, Breithardt G, Haverkamp W, Eckardt L. Proarrhythmia as a class effect of quinolones: increased dispersion of repolarization and triangulation of action potential predict torsades de pointes. *J Cardiovasc Electrophysiol.* 2007 Jun;18(6):647-54. Epub 2007 Mar 28. PubMed PMID: 17388913.
- Mönnig G, Eckardt L, Wedekind H, Haverkamp W, Gerss J, Milberg P, Wasmer K, Kirchhof P, Assmann G, Breithardt G, Schulze-Bahr E. Electrocardiographic risk stratification in families with congenital long QT syndrome. *Eur Heart J.* 2006 Sep;27(17):2074-80. Epub 2006 Aug 1. PubMed PMID: 16882679.
- Milberg P, Fleischer D, Stypmann J, Osada N, Mönnig G, Engelen MA, Bruch C, Breithardt G, Haverkamp W, Eckardt L. Reduced repolarization reserve due to antracycline therapy facilitates torsade de pointes induced by IKr blockers. *Basic Res Cardiol.* 2007 Jan;102(1):42-51. Epub 2006 Jul 4. PubMed PMID: 16817026.
- Rademacher S, Dietz R, Haverkamp W. QT prolongation and syncope with methadone, doxepin, and a beta-blocker. *Ann Pharmacother.* 2005 Oct;39(10):1762-3. Epub 2005 Sep 6. PubMed PMID: 16144878.
- Haverkamp W, Deuschle M. [Lengthening of QT interval by antipsychotic drugs]. *Nervenarzt.* 2006 Mar;77(3):276, 278-80, 282-4 passim. Review. German. PubMed PMID: 16052325.
- Haverkamp W, Breithardt G. Drug-induced sudden cardiac death. *Eur Heart J.* 2005 Sep;26(17):1808-9; author reply 1809. Epub 2005 Jul 13. PubMed PMID: 16014647.

- Wedekind H, Bajanowski T, Friederich P, Breithardt G, Wülfing T, Siebrands C, Engeland B, Mönnig G, Haverkamp W, Brinkmann B, Schulze-Bahr E. Sudden infant death syndrome and long QT syndrome: an epidemiological and genetic study. *Int J Legal Med.* 2006 May;120(3):129-37. Epub 2005 Jul 13. PubMed PMID: 16012827.
- Milberg P, Reinsch N, Osada N, Wasmer K, Mönnig G, Stypmann J, Breithardt G, Haverkamp W, Eckardt L. Verapamil prevents torsade de pointes by reduction of transmural dispersion of repolarization and suppression of early afterdepolarizations in an intact heart model of LQT3. *Basic Res Cardiol.* 2005 Jul;100(4):365-71. Epub 2005 Jun 10. PubMed PMID: 15944809.
- Haverkamp W, Rolf S, Eckardt L, Mönnig G. [Long QT syndrome and Brugada syndrome. Drugs, ablation or ICD?]. *Herz.* 2005 Mar;30(2):111-8. Review. German. PubMed PMID: 15875099.
- Mönnig G, Köbe J, Löher A, Eckardt L, Wedekind H, Scheld HH, Haverkamp W, Milberg P, Breithardt G, Schulze-Bahr E, Böcker D. Implantable cardioverter-defibrillator therapy in patients with congenital long-QT syndrome: a long-term follow-up. *Heart Rhythm.* 2005 May;2(5):497-504. PubMed PMID: 15840474.
- Titier K, Girodet PO, Verdoux H, Molimard M, Bégaud B, Haverkamp W, Lader M, Moore N. Atypical antipsychotics: from potassium channels to torsade de pointes and sudden death. *Drug Saf.* 2005;28(1):35-51. Review. PubMed PMID: 15649104.
- Milberg P, Reinsch N, Wasmer K, Mönnig G, Stypmann J, Osada N, Breithardt G, Haverkamp W, Eckardt L. Transmural dispersion of repolarization as a key factor of arrhythmogenicity in a novel intact heart model of LQT3. *Cardiovasc Res.* 2005 Feb 1;65(2):397-404. PubMed PMID: 15639478.
- Milberg P, Ramtin S, Mönnig G, Osada N, Wasmer K, Breithardt G, Haverkamp W, Eckardt L. Comparison of the in vitro electrophysiologic and proarrhythmic effects of amiodarone and sotalol in a rabbit model of acute atrioventricular block. *J Cardiovasc Pharmacol.* 2004 Sep;44(3):278-86. PubMed PMID: 15475823.
- Kehl HG, Haverkamp W, Rellensmann G, Yelbuz TM, Krasemann T, Vogt J, Schulze-Bahr E. Images in cardiovascular medicine. Life-threatening neonatal arrhythmia: successful treatment and confirmation of clinically suspected extreme long QT-syndrome-3. *Circulation.* 2004 May 11;109(18):e205-6. PubMed PMID: 15136511.
- Wedekind H, Schwarz M, Hauenschild S, Djonić H, Haverkamp W, Breithardt G, Wülfing T, Pongs O, Isbrandt D, Schulze-Bahr E. Effective long-term control of cardiac events with beta-blockers in a family with a common LQT1 mutation. *Clin Genet.* 2004 Mar;65(3):233-41. PubMed PMID: 14756674.
- Paulussen AD, Gilissen RA, Armstrong M, Doevidans PA, Verhasselt P, Smeets HJ, Schulze-Bahr E, Haverkamp W, Breithardt G, Cohen N, Aerssens J. Genetic variations of KCNQ1, KCNH2, SCN5A, KCNE1, and KCNE2 in drug-induced long QT syndrome patients. *J Mol Med (Berl).* 2004 Mar;82(3):182-8. Epub 2004 Feb 4. PubMed PMID: 14760488.
- Schulze-Bahr E, Fenge H, Etzrodt D, Haverkamp W, Mönnig G, Wedekind H, Breithardt G, Kehl HG. Long QT syndrome and life threatening arrhythmia in a newborn: molecular diagnosis and treatment response. *Heart.* 2004

Jan;90(1):13-6. PubMed PMID: 14676229; PubMed Central PMCID: PMC1768001.

- Kirchhof P, Eckardt L, Franz MR, Mönnig G, Loh P, Wedekind H, Schulze-Bahr E, Breithardt G, Haverkamp W. Prolonged atrial action potential durations and&nbs;polymorphic atrial tachyarrhythmias in patients with long QT syndrome. *J Cardiovasc Electrophysiol*. 2003 Oct;14(10):1027-33. PubMed PMID: 14521653.
- Schulze-Bahr E, Zoelch KA, Eckardt L, Haverkamp W, Breithardt G, Borggrefe M. Electrical alternans in long QT syndrome resembling a Brugada syndrome pattern.&nbs;Pacing Clin Electrophysiol. 2003 Oct;26(10):2033-5. PubMed PMID: 14516346.
- Witzenbichler B, Schulze-Bahr E, Haverkamp W, Breithardt G, Sticherling C, Behrens S, Schultheiss HP. [18-year old patient with anti-epileptic therapy and&nbs;sudden cardiac death]. *Z Kardiol*. 2003 Sep;92(9):747-53. German. PubMed PMID: 14508592.
- Haverkamp W, Dietz RR. [Adverse drug reactions]. *Dtsch Med Wochenschr*. 2003 Jun 20;128(25-26):1419; author reply 1419. German. PubMed PMID: 12813679.
- Eckardt L, Meissner A, Kirchhof P, Weber T, Milberg P, Breithardt G, Haverkamp W. In vivo recording of monophasic action potentials in awake dogs.&nbs;Methods. 2003 Jun;30(2):109-14. PubMed PMID: 12725776.
- Fabritz L, Kirchhof P, Franz MR, Nuyens D, Rossenbacker T, Ottenhof A, Haverkamp W, Breithardt G, Carmeliet E, Carmeliet P. Effect of pacing and&nbs;mexiletine on dispersion of repolarisation and arrhythmias in DeltaKPQ SCN5A (long QT3) mice. *Cardiovasc Res*. 2003 Mar 15;57(4):1085-93. PubMed PMID:&nbs;12650887.
- Horlitz M, Schley P, Marx R, Klein M, Buflé A, Lapp H, Krakau I, Gürker H, Haverkamp W. Recurrent syncope in a young patient with long QT syndrome: possible&nbs;relationship of atrioventricular nodal re-entrant tachycardia with neurally mediated spells? *Wien Med Wochenschr*. 2003;113(1-2):46-8. PubMed PMID: 12621693.
- Wichter T, Schulze-Bahr E, Eckardt L, Paul M, Levkau B, Meyborg M, Schäfers M, Haverkamp W, Breithardt G. Molecular mechanisms of inherited ventricular&nbs;arrhythmias. *Herz*. 2002 Dec;27(8):712-39. Review. PubMed PMID: 12574890.
- Fabritz L, Kirchhof P, Franz MR, Eckardt L, Mönnig G, Milberg P, Breithardt G, Haverkamp W. Prolonged action potential durations, increased dispersion of&nbs;repolarization, and polymorphic ventricular tachycardia in a mouse model of proarrhythmia. *Basic Res Cardiol*. 2003 Feb;98(1):25-32. PubMed PMID: 12494266.
- Milberg P, Eckardt L, Bruns HJ, Biertz J, Ramtin S, Reinsch N, Fleischer D, Kirchhof P, Fabritz L, Breithardt G, Haverkamp W. Divergent proarrhythmic&nbs;potential of macrolide antibiotics despite similar QT prolongation: fast phase 3 &nbs;repolarization prevents early afterdepolarizations and torsade de pointes. *J&nbs;Pharmacol Exp Ther*. 2002 Oct;303(1):218-25. PubMed PMID: 12235254.
- Isbrandt D, Friederich P, Solth A, Haverkamp W, Ebneth A, Borggrefe M, Funke H, Sauter K, Breithardt G, Pongs O, Schulze-Bahr E. Identification and functional&nbs;characterization of a novel KCNE2 (MiRP1) mutation that alters HERG channel kinetics. *J Mol Med (Berl)*. 2002 Aug;80(8):524-32. Epub 2002 Jun 28. PubMed PMID:&nbs;12185453.
- Junker J, Haverkamp W, Schulze-Bahr E, Eckardt L, Paulus W, Kiefer R. Amiodarone and acetazolamide for the treatment of genetically confirmed severe&nbs;Andersen syndrome. *Neurology*. 2002 Aug 13;59(3):466. PubMed PMID: 12177393.

- Mönnig G, Schulze-Bahr E, Wedekind H, Eckardt L, Kirchhof P, Funke H, Kotthoff S, Vogt J, Assmann G, Breithardt G, Haverkamp W. [Clinical aspects and molecular genetics of the Jervell- and Lange-Nielsen Syndrome]. Z Kardiol. 2002 May;91(5):380-8. Review. German. PubMed PMID: 12132284.
- Haverkamp W, Mönnig G, Schulze-Bahr E, Haverkamp F, Breithardt G. Physician-induced torsade de pointes--therapeutic implications. Cardiovasc Drugs Ther. 2002 Mar;16(2):101-9. Review. PubMed PMID: 12090902.
- Eckardt L, Breithardt G, Haverkamp W. Electrophysiologic characterization of the antipsychotic drug sertindole in a rabbit heart model of torsade de pointes: low torsadogenic potential despite QT prolongation. J Pharmacol Exp Ther. 2002 Jan;300(1):64-71. PubMed PMID: 11752098.
- Schulze-Bahr E, Schwarz M, Hauenschild S, Wedekind H, Funke H, Haverkamp W, Breithardt G, Pongs O, Isbrandt D. A novel long-QT 5 gene mutation in the C-terminus (V109I) is associated with a mild phenotype. J Mol Med (Berl). 2001 Sep;79(9):504-9. Erratum in: J Mol Med 2001 Sep;79(9):547. Hoffman S [corrected to Hauenschild S]. PubMed PMID: 11692163.
- Haverkamp W, Mönnig G, Kirchhof P, Eckardt L, Borggrefe M, Breithardt G. Torsade de pointes induced by ajmaline. Z Kardiol. 2001 Aug;90(8):586-90. PubMed PMID: 11565214.
- Wedekind H, Smits JP, Schulze-Bahr E, Arnold R, Veldkamp MW, Bajanowski T, Borggrefe M, Brinkmann B, Warnecke I, Funke H, Bhuiyan ZA, Wilde AA, Breithardt G, Haverkamp W. De novo mutation in the SCN5A gene associated with early onset of sudden infant death. Circulation. 2001 Sep 4;104(10):1158-64. PubMed PMID: 11535573.
- Kirchhof P, Kohl T, Eckardt L, Gogarten W, Asfour B, Witteler R, Reckers J, Marcus AE, VanAken H, Scheld HH, Vogt J, Borggrefe M, Breithardt G, Haverkamp W. Simultaneous in utero assessment of AV nodal and ventricular electrophysiologic parameters in the fetal sheep heart. Basic Res Cardiol. 2001 May-Jun;96(3):251-7. PubMed PMID: 11403418.
- Kirchhof P, Eckardt L, Arslan O, Reinhardt L, Mönnig G, Fetsch T, Breithardt G, Borggrefe M, Haverkamp W. Prolonged QRS duration increases QT dispersion but does not relate to arrhythmias in survivors of acute myocardial infarction. Pacing Clin Electrophysiol. 2001 May;24(5):789-95. PubMed PMID: 11388097.
- Moennig G, Schulze-Bahr E, Wedekind H, Borggrefe M, Funke H, Toelle M, Kirchhof P, Eckardt L, Assmann G, Breithardt G, Haverkamp W. Clinical value of electrocardiographic parameters in genotyped individuals with familial long QT syndrome. Pacing Clin Electrophysiol. 2001 Apr;24(4 Pt 1):406-15. PubMed PMID: 11341076.
- Eckardt L, Meissner A, Kirchhof P, Weber T, Borggrefe M, Breithardt G, Van Aken H, Haverkamp W. In vivo recording of monophasic action potentials in awake dogs--new applications for experimental electrophysiology. Basic Res Cardiol. 2001 Apr;96(2):169-74. PubMed PMID: 11327335.
- Schwartz PJ, Priori SG, Spazzolini C, Moss AJ, Vincent GM, Napolitano C, Denjoy I, Guicheney P, Breithardt G, Keating MT, Towbin JA, Beggs AH, Brink P, Wilde AA, Toivonen L, Zareba W, Robinson JL, Timothy KW, Corfield V, Wattanasirichaigoon D, Corbett C, Haverkamp W, Schulze-Bahr E, Lehmann MH, Schwartz K, Coumel P, Bloise R. Genotype-phenotype correlation in the long-QT yndrome: gene-specific

triggers for life-threatening arrhythmias. *Circulation*. 2001 Jan 2;103(1):89-95. PubMed PMID: 11136691.

- Bajanowski T, Rossi L, Biondo B, Ortmann C, Haverkamp W, Wedekind H, Jorch G, Brinkmann B. Prolonged QT interval and sudden infant death--report of two cases. *Forensic Sci Int*. 2001 Jan 1;115(1-2):147-53. PubMed PMID: 11056286.
- Haverkamp W, Breithardt G, Camm AJ, Janse MJ, Rosen MR, Antzelevitch C, Escande D, Franz M, Malik M, Moss A, Shah R. The potential for QT prolongation and pro-arrhythmia by non-anti-arrhythmic drugs: clinical and regulatory implications. Report on a Policy Conference of the European Society of *Cardiology*. *Cardiovasc Res*. 2000 Aug;47(2):219-33. PubMed PMID: 10947683.
- Haverkamp W, Breithardt G, Camm AJ, Janse MJ, Rosen MR, Antzelevitch C, Escande D, Franz M, Malik M, Moss A, Shah R. The potential for QT prolongation and proarrhythmia by non-antiarrhythmic drugs: clinical and regulatory implications. Report on a policy conference of the European Society of *Cardiology*. *Eur Heart J*. 2000 Aug;21(15):1216-31. Review. PubMed PMID: 10924311.
- Kirchhof P, Eckardt L, Mönnig G, Johna R, Loh P, Schulze-Bahr E, Breithardt G, Borggrefe M, Haverkamp W. A patient with "atrial torsades de pointes"; *J Cardiovasc Electrophysiol*. 2000 Jul;11(7):806-11. PubMed PMID: 10921798.
- Stramba-Badiale M, Priori SG, Napolitano C, Locati EH, Viñolas X, Haverkamp W, Schulze-Bahr E, Goulene K, Schwartz PJ. Gene-specific differences in the circadian variation of ventricular repolarization in the long QT syndrome: a key to sudden death during sleep? *Ital Heart J*. 2000 May;1(5):323-8. PubMed PMID: 10832806.
- Schulze-Bahr E, Haverkamp W, Borggrefe M, Wedekind H, Mönnig G, Mergenthaler J, Assmann G, Funke H, Breithardt G. Molecular genetics of arrhythmias--a new paradigm. *Z Kardiol*. 2000;89 Suppl 4:IV12-22. Review. PubMed PMID: 10810773.
- Haverkamp W, Schulze-Bahr E, Mönnig G, Wedekind H, Borggrefe M, Funke H, Breithardt G. [Congenital and "acquired QT syndromes"]. *Herz*. 1999 Nov;24(7):587-90. Review. German. PubMed PMID: 10609166.