



# SADS Foundation Quarterly Literature Review

January –March 2009

## ARVD/ARVC

### [Arrhythmogenic right ventricular dysplasia: a case report and review of the literature.](#)

Shafi NA, Anglade MW.  
Conn Med. 2009 Jan;73(1):5-9. Review.  
PMID: 19248569 [PubMed - indexed for MEDLINE]

### [Arrhythmogenic right ventricular dysplasia.](#)

Barrios V, Escobar C, Calderon A.  
J Am Coll Cardiol. 2009 Jan 20;53(3):295. No abstract available.  
PMID: 19147049 [PubMed - indexed for MEDLINE]

### [Epsilon wave in arrhythmogenic right ventricular dysplasia/cardiomyopathy.](#)

Wu S, Wang P, Hou Y, Yang P, Xiao Y, Zhan X.  
Pacing Clin Electrophysiol. 2009 Jan;32(1):59-63.  
PMID: 19140914 [PubMed - indexed for MEDLINE]

### [Anaesthetic implications of arrhythmogenic right ventricular dysplasia/cardiomyopathy.](#)

Alexoudis AK, Spyridonidou AG, Vogiatzaki TD, Iatrou CA.  
Anaesthesia. 2009 Jan;64(1):73-8. Review.  
PMID: 19087010 [PubMed - indexed for MEDLINE]

## Brugada Syndrome

### [Unexplained syncope, Brugada-like ECG and minimal structural right ventricular abnormalities: which is the right diagnosis?](#)

Marras E, Basso C, Sciarra L, Delise P.  
J Cardiovasc Med (Hagerstown). 2009 Mar;10(3):273-5.  
PMID: 19262216 [PubMed - indexed for MEDLINE]

### [Clinical spectrum of patients with a Brugada ECG.](#)

Fowler SJ, Priori SG.  
Curr Opin Cardiol. 2009 Jan;24(1):74-81. Review.  
PMID: 19102039 [PubMed - indexed for MEDLINE]

### [Variability of the diagnostic ECG pattern in an ICD patient population with Brugada syndrome.](#)

Richter S, Sarkozy A, Veltmann C, Chierchia GB, Boussy T, Wolpert C, Schimpf R, Brugada J, Brugada R, Borggrefe M, Brugada P.  
J Cardiovasc Electrophysiol. 2009 Jan;20(1):69-75. Epub 2008 Sep 4.  
PMID: 18775043 [PubMed - indexed for MEDLINE]

### [When our best is not enough: the death of a teenager with Brugada syndrome.](#)

Brugada P, Brugada J, Brugada R.  
J Cardiovasc Electrophysiol. 2009 Jan;20(1):108-9. Epub 2008 Jul 25. No abstract available.  
PMID: 18662190 [PubMed - indexed for MEDLINE]

### [Ventricular fibrillation induced by a narrow QRS complex tachycardia in a patient with Brugada syndrome.](#)

Nagai T, Shimizu W, Ogimoto A, Higaki J, Okayama H.  
J Cardiovasc Electrophysiol. 2009 Jan;20(1):106-7. Epub 2008 Jul 3. No abstract available.  
PMID: 18631271 [PubMed - indexed for MEDLINE]

### [Transcriptional profiling of ion channel genes in Brugada syndrome and other right ventricular arrhythmogenic diseases.](#)

Gaborit N, Wichter T, Varro A, Szuts V, Lamirault G, Eckardt L, Paul M, Breithardt G, Schulze-Bahr E, Escande D, Nattel S, Demolombe S.  
Eur Heart J. 2009 Feb;30(4):487-96. Epub 2008 Nov 23.  
PMID: 19029124 [PubMed - indexed for MEDLINE]

# Cardiomyopathy

## [Pathogenesis and therapy of autoimmunity-induced dilated cardiomyopathy.](#)

Zhao P, Sharma AC, Ren J.  
Front Biosci. 2009 Jan 1;14:1708-15. Review.  
PMID: 19273156 [PubMed - indexed for MEDLINE]

## [Weaning failure from mechanical ventilation due to dilated cardiomyopathy: successful use of levosimendan.](#)

Meaudre E, Jego C, Goutorbe P, Bordes J, Asencio Y, Moncriol A, Kenane N, Palmier B.  
Acta Anaesthesiol Scand. 2009 Mar;53(3):416-7. No abstract available.  
PMID: 19243345 [PubMed - indexed for MEDLINE]

## [Implication of QRS prolongation and its relation to mechanical dyssynchrony in idiopathic dilated cardiomyopathy in childhood.](#)

Chen CA, Hsiao CH, Wang JK, Lin MT, Wu ET, Chiu SN, Chiu HH, Wu MH.  
Am J Cardiol. 2009 Jan 1;103(1):103-9. Epub 2008 Oct 30.  
PMID: 19101238 [PubMed - indexed for MEDLINE]

## [Myocardial beta-adrenergic receptor density assessed by 11C-CGP12177 PET predicts improvement of cardiac function after carvedilol treatment in patients with idiopathic dilated cardiomyopathy.](#)

Naya M, Tsukamoto T, Morita K, Katoh C, Nishijima K, Komatsu H, Yamada S, Kuge Y, Tamaki N, Tsutsui H.  
J Nucl Med. 2009 Feb;50(2):220-5. Epub 2009 Jan 21.  
PMID: 19164238 [PubMed - indexed for MEDLINE]

## [HLA-DQB1\\* polymorphism and associations with dilated cardiomyopathy, inflammatory dilated cardiomyopathy and myocarditis.](#)

Portig I, Sandmoeller A, Kreilinger S, Maisch B.  
Autoimmunity. 2009 Jan;42(1):33-40.  
PMID: 19127454 [PubMed - indexed for MEDLINE]

## [Dilated cardiomyopathy with increased SR Ca<sup>2+</sup> loading preceded by a hypercontractile state and diastolic failure in the alpha\(1C\)TG mouse.](#)

Wang S, Ziman B, Bodi I, Rubio M, Zhou YY, D'Souza K, Bishopric NH, Schwartz A, Lakatta EG.  
PLoS ONE. 2009;4(1):e4133. Epub 2009 Jan 6.  
PMID: 19125184 [PubMed - indexed for MEDLINE]

## [Inhibition of extracellular signal-regulated kinase signaling to prevent cardiomyopathy caused by mutation in the gene encoding A-type lamins.](#)

Muchir A, Shan J, Bonne G, Lehnart SE, Worman HJ.  
Hum Mol Genet. 2009 Jan 15;18(2):241-7. Epub 2008 Oct 16.  
PMID: 18927124 [PubMed - indexed for MEDLINE]

## [Identification of mutational hot spots in LMNA encoding lamin A/C in patients with familial dilated cardiomyopathy.](#)

Perrot A, Hussein S, Ruppert V, Schmidt HH, Wehnert MS, Duong NT, Posch MG, Panek A, Dietz R, Kindermann I, Böhm M, Michalewska-Wludarczyk A, Richter A, Maisch B, Pankuweit S, Ozcelik C.  
Basic Res Cardiol. 2009 Jan;104(1):90-9. Epub 2008 Sep 15.  
PMID: 18795223 [PubMed - indexed for MEDLINE]

## Catecholaminergic Polymorphic Ventricular Tachycardia (CPVT)

### [Catecholaminergic polymorphic ventricular tachycardia from bedside to bench and beyond.](#)

Katz G, Arad M, Eldar M.  
Curr Probl Cardiol. 2009 Jan;34(1):9-43. Review.  
PMID: 19068246 [PubMed - indexed for MEDLINE]

# Long QT Syndrome

## [Multiple independent genetic factors at NOS1AP modulate the QT interval in a multi-ethnic population.](#)

Arking DE, Khera A, Xing C, Kao WH, Post W, Boerwinkle E, Chakravarti A.  
PLoS ONE. 2009;4(1):e4333. Epub 2009 Jan 30.  
PMID: 19180230 [PubMed - indexed for MEDLINE]

## [Congenital long QT syndrome caused by the F275S KCNQ1 mutation: mechanism of impaired channel function.](#)

Li W, Wang QF, Du R, Xu QM, Ke QM, Wang B, Chen XL, Tian L, Zhang SY, Kang CL, Guan SM, Yang JG, Song ZF.  
Biochem Biophys Res Commun. 2009 Feb 27;380(1):127-31. Epub 2009 Jan 22.  
PMID: 19167356 [PubMed - indexed for MEDLINE]

## [Treating the long-QT syndrome in the era of implantable defibrillators.](#)

Viskin S, Halkin A.  
Circulation. 2009 Jan 20;119(2):204-6. No abstract available.  
PMID: 19153279 [PubMed - indexed for MEDLINE]

## [Long QT syndrome, a purely electrical disease? Not anymore.](#)

De Ferrari GM, Schwartz PJ.  
Eur Heart J. 2009 Feb;30(3):253-5. Epub 2009 Jan 16. No abstract available.  
PMID: 19151080 [PubMed - indexed for MEDLINE]

## [Evolution of the human ion channel set.](#)

Jegla TJ, Zmasek CM, Batalov S, Nayak SK.  
Comb Chem High Throughput Screen. 2009 Jan;12(1):2-23. Review.  
PMID: 19149488 [PubMed - indexed for MEDLINE]

## [Long-QT syndrome induced by the antiaddiction drug ibogaine.](#)

Hoelen DW, Spiering W, Valk GD.  
N Engl J Med. 2009 Jan 15;360(3):308-9. No abstract available.  
PMID: 19144953 [PubMed - indexed for MEDLINE]

## [Is flecainide dangerous in long QT-3 patients?](#)

Beinart R, Michailidis A, Gurevitz OT, Glikson M.  
Pacing Clin Electrophysiol. 2009 Jan;32(1):143-5.  
PMID: 19140927 [PubMed - indexed for MEDLINE]

## [QT interval variability and adaptation to heart rate changes in patients with long QT syndrome.](#)

Nemec J, Buncová M, Shusterman V, Winter B, Shen WK, Ackerman MJ.  
Pacing Clin Electrophysiol. 2009 Jan;32(1):72-81.  
PMID: 19140916 [PubMed - indexed for MEDLINE]

## [Ventricular fibrillation with prominent early repolarization associated with a rare variant of KCNJ8/KATP channel.](#)

Haïssaguerre M, Chatel S, Sacher F, Weerasooriya R, Probst V, Lousouarn G, Horlitz M, Liersch R, Schulze-Bahr E, Wilde A, Kääh S, Koster J, Rudy Y, Le Marec H, Schott JJ.  
J Cardiovasc Electrophysiol. 2009 Jan;20(1):93-8.  
PMID: 19120683 [PubMed - indexed for MEDLINE]

## [High efficacy of beta-blockers in long-QT syndrome type 1: contribution of noncompliance and QT-prolonging drugs to the occurrence of beta-blocker treatment "failures".](#)

Vincent GM, Schwartz PJ, Denjoy I, Swan H, Bithell C, Spazzolini C, Crotti L, Piippo K, Lupoglazoff JM, Villain E, Priori SG, Napolitano C, Zhang L.  
Circulation. 2009 Jan 20;119(2):215-21. Epub 2008 Dec 31.  
PMID: 19118258 [PubMed - indexed for MEDLINE]

## [Familial long QT syndrome presented as ventricular tachycardia during anesthesia.](#)

Tran SM, Nobrega RQ, Kammerer WA, Quezado Z.  
Paediatr Anaesth. 2009 Jan;19(1):66-8. No abstract available.  
PMID: 19076523 [PubMed - indexed for MEDLINE]

[Sodium channel mutation in irritable bowel syndrome: evidence for an ion channelopathy.](#)

Saito YA, Strege PR, Tester DJ, Locke GR 3rd, Talley NJ, Bernard CE, Rae JL, Makielski JC, Ackerman MJ, Farrugia G. Am J Physiol Gastrointest Liver Physiol. 2009 Feb;296(2):G211-8. Epub 2008 Dec 4. PMID: 19056759 [PubMed - indexed for MEDLINE]

[Identification of a possible pathogenic link between congenital long QT syndrome and epilepsy.](#)

Johnson JN, Hofman N, Haglund CM, Cascino GD, Wilde AA, Ackerman MJ. Neurology. 2009 Jan 20;72(3):224-31. Epub 2008 Nov 26. PMID: 19038855 [PubMed - indexed for MEDLINE]

[Baseline values and sotalol-induced changes of ventricular repolarization duration, heterogeneity, and instability in patients with a history of drug-induced torsades de pointes.](#)

Couderc JP, Kaab S, Hinterseer M, McNitt S, Xia X, Fossa A, Beckmann BM, Polonsky S, Zareba W. J Clin Pharmacol. 2009 Jan;49(1):6-16. Epub 2008 Oct 28. PMID: 18957528 [PubMed - indexed for MEDLINE]

[Left ventricular mechanical dispersion by tissue Doppler imaging: a novel approach for identifying high-risk individuals with long QT syndrome.](#)

Haugaa KH, Edvardsen T, Leren TP, Gran JM, Smiseth OA, Amlie JP. Eur Heart J. 2009 Feb;30(3):330-7. Epub 2008 Oct 21. PMID: 18940888 [PubMed - indexed for MEDLINE]

[Identification of a common variant at the NOS1AP locus strongly associated to QT-interval duration.](#)

Eijgelsheim M, Aarnoudse AL, Rivadeneira F, Kors JA, Wittteman JC, Hofman A, van Duijn CM, Uitterlinden AG, Stricker BH. Hum Mol Genet. 2009 Jan 15;18(2):347-57. Epub 2008 Oct 16. PMID: 18927126 [PubMed - indexed for MEDLINE]

[Drug induced shortening of the QT/QTc interval: an emerging safety issue warranting further modelling and evaluation in drug research and development?](#)

Holbrook M, Malik M, Shah RR, Valentin JP. J Pharmacol Toxicol Methods. 2009 Jan-Feb;59(1):21-8. Epub 2008 Sep 17. PMID: 18834945 [PubMed - indexed for MEDLINE]

[Atrial and ventricular lead insulation defects with resulting inappropriate shocks and end-of-life of the ICD pulse generator in a young bodybuilder with congenital long-QT-syndrome.](#)

Diez C, Hofmann HS, Börgermann J. Clin Res Cardiol. 2009 Jan;98(1):16-8. Epub 2008 Sep 5. PMID: 18776999 [PubMed - indexed for MEDLINE]

## Sudden Cardiac Death

[Ventricular tachycardia and sudden cardiac death.](#)

Koplan BA, Stevenson WG. Mayo Clin Proc. 2009 Mar;84(3):289-97. PMID: 19252119 [PubMed - indexed for MEDLINE]

[Genomic imbalances in key ion channel genes and telomere shortening in sudden cardiac death victims.](#)

Banerjee B, Peiris DN, Koo SH, Chui P, Lee EJ, Hande MP. Cytogenet Genome Res. 2008;122(3-4):350-5. Epub 2009 Jan 30. PMID: 19188705 [PubMed - indexed for MEDLINE]

[Asymptomatic ST-segment depression during exercise testing and the risk of sudden cardiac death in middle-aged men: a population-based follow-up study.](#)

Laukkanen JA, Mäkilä TH, Rauramaa R, Kurl S. Eur Heart J. 2009 Mar;30(5):558-65. Epub 2009 Jan 23. PMID: 19168533 [PubMed - indexed for MEDLINE]

[Antipsychotic agents and sudden cardiac death--how should we manage the risk?](#)

Schneeweiss S, Avorn J. N Engl J Med. 2009 Jan 15;360(3):294-6. No abstract available. PMID: 19144946 [PubMed - indexed for MEDLINE]

[Atypical antipsychotic drugs and the risk of sudden cardiac death.](#)

Ray WA, Chung CP, Murray KT, Hall K, Stein CM.  
N Engl J Med. 2009 Jan 15;360(3):225-35.  
PMID: 19144938 [PubMed - indexed for MEDLINE]

[Early repolarization and sudden cardiac death.](#)

Soliman EZ, Prineas RJ.  
South Med J. 2009 Jan;102(1):110-1. No abstract available.  
PMID: 19077760 [PubMed - indexed for MEDLINE]

## Miscellaneous

[Should the exercise ECG be used to screen for sudden cardiac death?](#)

Freeman J, Ashley EA, Froelicher V.  
Eur Heart J. 2009 Mar;30(5):528-9. Epub 2009 Feb 5. No abstract available.  
PMID: 19201762 [PubMed - indexed for MEDLINE]

[Supraventricular tachycardia.](#)

Salerno JC, Seslar SP.  
Arch Pediatr Adolesc Med. 2009 Mar;163(3):268-74. Review.  
PMID: 19255396 [PubMed - indexed for MEDLINE]

[A dramatic storm of idiopathic ventricular fibrillation.](#)

Allocca G, Vallone C, Nucifora G, Miani D, Facchin D, Proclemer A.  
Clin Res Cardiol. 2009 Jan;98(1):62-5. Epub 2008 Dec 18. No abstract available.  
PMID: 19096890 [PubMed - indexed for MEDLINE]

