



# SADS Foundation Quarterly Literature Review

October—December 2009

## Arrhythmic Right Ventricular Dysplasia (ARVD/ARVC)

### [New ECG criteria in arrhythmogenic right ventricular dysplasia/cardiomyopathy.](#)

Cox MG, van der Smagt JJ, Wilde AA, Wiesfeld AC, Atsma DE, Nelen MR, Rodriguez LM, Loh P, Cramer MJ, Doevendans PA, van Tintelen JP, de Bakker JM, Hauer RN.

Circ Arrhythm Electrophysiol. 2009 Oct;2(5):524-30. Epub 2009 Jul 7.

PMID: 19843920 [PubMed - indexed for MEDLINE]

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### [Toward early diagnosis in arrhythmogenic right ventricular dysplasia/cardiomyopathy.](#)

Hauer RN.

J Interv Card Electrophysiol. 2009 Oct;26(1):1-2. Epub 2009 Aug 15. No abstract available.

PMID: 19685180 [PubMed - indexed for MEDLINE]

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### [Comprehensive desmosome mutation analysis in north americans with arrhythmogenic right ventricular dysplasia/cardiomyopathy.](#)

den Haan AD, Tan BY, Zikusoka MN, Lladó LI, Jain R, Daly A, Tichnell C, James C, Amat-Alarcon N, Abraham T, Russell SD, Bluemke DA, Calkins H, Dalal D, Judge DP.

Circ Cardiovasc Genet. 2009 Oct;2(5):428-35. Epub 2009 Jun 3.

PMID: 20031617 [PubMed - in process]

## Automatic External Defibrillators

### [International sign for automated external defibrillator.](#)

Løfgren B, Grove EL, Krarup NH.

Ann Emerg Med. 2009 Dec;54(6):855-6. No abstract available.

PMID: 19942073 [PubMed - indexed for MEDLINE]

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### [An algorithm to discriminate supraventricular from ventricular tachycardia in automated external defibrillators valid for adult and paediatric patients.](#)

Irusta U, Ruiz J.

Resuscitation. 2009 Nov;80(11):1229-33. Epub 2009 Aug 27.

PMID: 19716221 [PubMed - indexed for MEDLINE]

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## Brugada Syndrome

### [A Novel SCN5A Mutation in a Patient with Coexistence of Brugada Syndrome Traits and Ischaemic Heart Disease](#)

Holst AG, Calloe K, Jespersen T, Cedergreen P, Winkel BG, Jensen HK, Leren TP, Haunso S, Svendsen JH, Tfelt-Hansen J.

Case Report Med. 2009;2009:963645. Epub 2009 Oct 13

PMID: 19829766 [PubMed - in process]

### [Unmasking of the Brugada phenotype during exercise testing and its association with ventricular arrhythmia on the recovery phase.](#)

Papadakis M, Petzer E, Sharma S.

Heart. 2009 Dec;95(24):2022. No abstract available.

PMID: 19946005 [PubMed - indexed for MEDLINE]

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### [Brugada syndrome unmasked by lithium.](#)

Chandra PA, Chandra AB.

South Med J. 2009 Dec;102(12):1263-5.

PMID: 20016437 [PubMed - indexed for MEDLINE]

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### [Hypercalcemia due to rhabdomyolysis mimicking Brugada syndrome.](#)

Mehta S, Parameswaran AC, Greenspan A, Figueredo VM.

Pacing Clin Electrophysiol. 2009 Nov;32(11):e14-5. Epub 2009 Aug 27. No abstract available.

PMID: 19712070 [PubMed - indexed for MEDLINE]

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### [Brugada pattern in toxic myocarditis due to severe aluminum phosphide poisoning.](#)

Nayyar S, Nair M.

Pacing Clin Electrophysiol. 2009 Nov;32(11):e16-7. Epub 2009 Aug 27.

PMID: 19712068 [PubMed - indexed for MEDLINE]

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### [Cardiac metabolic state and Brugada syndrome: a link revealed.](#)

Chahine M.

Circ Res. 2009 Oct 9;105(8):721-3. No abstract available.

PMID: 19815826 [PubMed - indexed for MEDLINE]

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### [Exercise-induced ECG changes in Brugada syndrome.](#)

Amin AS, de Groot EA, Ruijter JM, Wilde AA, Tan HL.

Circ Arrhythm Electrophysiol. 2009 Oct;2(5):531-9. Epub 2009 Aug 24.

PMID: 19843921 [PubMed - indexed for MEDLINE]

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### [Long-term prognosis of probands with Brugada-pattern ST-elevation in leads V1-V3.](#)

Kamakura S, Ohe T, Nakazawa K, Aizawa Y, Shimizu A, Horie M, Ogawa S, Okumura K, Tsuchihashi K, Sugi K, Makita N, Hagiwara N, Inoue H, Atarashi H, Aihara N, Shimizu W, Kurita T, Suyama K, Noda T, Satomi K, Okamura H, Tomoike H; Brugada Syndrome Investigators in Japan.

Circ Arrhythm Electrophysiol. 2009 Oct;2(5):495-503. Epub 2009 Aug 2.

PMID: 19843917 [PubMed - indexed for MEDLINE]

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### [Brugada syndrome: where are you?](#)

Probst V, Le Marec H.

Europace. 2009 Oct;11(10):1260-1. No abstract available.

PMID: 19797143 [PubMed - indexed for MEDLINE]

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### [Spontaneous Brugada electrocardiogram patterns are rare in the German general population: results from the KORA study.](#)

Sinner MF, Pfeufer A, Perz S, Schulze-Bahr E, Mönnig G, Eckardt L, Beckmann BM, Wichmann HE, Breithardt G, Steinbeck G, Fabritz L, Kääb S, Kirchhof P.

Europace. 2009 Oct;11(10):1338-44. Epub 2009 Aug 4.

PMID: 19654127 [PubMed - indexed for MEDLINE]

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### [Response to intravenous ajmaline: a retrospective analysis of 677 ajmaline challenges.](#)

Veltmann C, Wolpert C, Sacher F, Mabo P, Schimpf R, Streitner F, Brade J, Kyndt F, Kuschyk J, Le Marec H, Borggrefe M, Probst V.

Europace. 2009 Oct;11(10):1345-52. Epub 2009 Jul 9.

PMID: 19589796 [PubMed - indexed for MEDLINE]

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### [Genetic modulation of brugada syndrome by a common polymorphism.](#)

Lizotte E, Junttila MJ, Dube MP, Hong K, Benito B, DE Zutter M, Henkens S, Sarkozy A, Huikuri HV, Towbin J, Vatta M, Brugada P, Brugada J, Brugada R.

J Cardiovasc Electrophysiol. 2009 Oct;20(10):1137-41. Epub 2009 Jun 22.

PMID: 19549036 [PubMed - indexed for MEDLINE]

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

Martini B, Nava A.

J Cardiovasc Med (Hagerstown). 2009 Oct;10(10):819. No abstract available.

PMID: 19506519 [PubMed - indexed for MEDLINE]

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# Cardiomyopathy

## [Use of genetics in the clinical evaluation of cardiomyopathy.](#)

Judge DP.

JAMA. 2009 Dec 9;302(22):2471-6.

PMID: 19996403 [PubMed - indexed for MEDLINE]

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## [Prevention of cardiac dysfunction in acute coxsackievirus B3 cardiomyopathy by inducible expression of a soluble coxsackievirus-adenovirus receptor.](#)

Pinkert S, Westermann D, Wang X, Klingel K, Dörner A, Savvatis K, Grössl T, Krohn S, Tschöpe C, Zeichhardt H, Kotsch K, Weitmann K, Hoffmann W, Schultheiss HP, Spiller OB, Poller W, Fechner H.

Circulation. 2009 Dec 8;120(23):2358-66. Epub 2009 Nov 23.

PMID: 19933937 [PubMed - indexed for MEDLINE]

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## [Rippling muscle disease and cardiomyopathy associated with a mutation in the CAV3 gene.](#)

Catteruccia M, Sanna T, Santorelli FM, Tessa A, Di Giacopo R, Sauchelli D, Verbo A, Lo Monaco M, Servidei S.

Neuromuscul Disord. 2009 Nov;19(11):779-83. Epub 2009 Sep 20.

PMID: 19773168 [PubMed - indexed for MEDLINE]

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# Catecholaminergic Polymorphic Ventricular Tachycardia (CPVT)

## [A case with catecholaminergic polymorphic ventricular tachycardia unmasked after successful ablation of atrial tachycardias from pulmonary veins.](#)

Sugiyasu A, Oginosawa Y, Nogami A, Hata Y.

Pacing Clin Electrophysiol. 2009 Nov;32(11):e21-4. Epub 2009 Aug 27.

PMID: 19712071 [PubMed - indexed for MEDLINE]

## [Protein kinase A-dependent biophysical phenotype for V227F-KCNJ2 mutation in catecholaminergic polymorphic ventricular tachycardia.](#)

Vega AL, Tester DJ, Ackerman MJ, Makielski JC.

Circ Arrhythm Electrophysiol. 2009 Oct;2(5):540-7. Epub 2009 Aug 25.

PMID: 19843922 [PubMed - indexed for MEDLINE]

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## [Ten-year follow-up of cardiac sympathectomy in a young woman with catecholaminergic polymorphic ventricular tachycardia and an implantable cardioverter defibrillator.](#)

Makanjee B, Gollob MH, Klein GJ, Krahn AD.

J Cardiovasc Electrophysiol. 2009 Oct;20(10):1167-9. Epub 2009 Feb 26.

PMID: 19298566 [PubMed - indexed for MEDLINE]

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# Dilated Cardiomyopathy

## [Antioxidant amelioration of dilated cardiomyopathy caused by conditional deletion of NEMO/IKKgamma in cardiomyocytes.](#)

Kratsios P, Huth M, Temmerman L, Salimova E, Al Banchaabouchi M, Sgoifo A, Manghi M, Suzuki K, Rosenthal N, Mourkioti F.

Circ Res. 2010 Jan 8;106(1):133-44. Epub 2009 Oct 22.

PMID: 19850942 [PubMed - indexed for MEDLINE]

## [In-vivo characterization of human dilated cardiomyopathy genes in zebrafish.](#)

Vogel B, Meder B, Just S, Laufer C, Berger I, Weber S, Katus HA, Rottbauer W.

Biochem Biophys Res Commun. 2009 Dec 18;390(3):516-22. Epub 2009 Oct 2.

PMID: 19800866 [PubMed - indexed for MEDLINE]

[The role of echocardiography in guiding management in dilated cardiomyopathy.](#)

Thomas DE, Wheeler R, Yousef ZR, Masani ND.  
Eur J Echocardiogr. 2009 Dec;10(8):iii15-21. Review.  
PMID: 19889654 [PubMed - indexed for MEDLINE]

[Postrenal biopsy AVM leading to severe hypertension and dilated cardiomyopathy.](#)

Sasaki N, Joashi UC, Vergara M, Saland JM, Love BA.  
Pediatr Nephrol. 2009 Dec;24(12):2459-62. Epub 2009 Aug 4.  
PMID: 19653009 [PubMed - indexed for MEDLINE]

[Dilated cardiomyopathy associated with Bechterew disease and myopathy.](#)

Finsterer J, Stöllberger C, Schweinzer C.  
South Med J. 2009 Dec;102(12):1277-8. No abstract available.  
PMID: 20016443 [PubMed - indexed for MEDLINE]

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[Association of left ventricular dilation at listing for heart transplant with postlisting and early posttransplant mortality in children with dilated cardiomyopathy.](#)

Singh TP, Sleeper LA, Lipshultz S, Cinar A, Canter C, Webber SA, Bernstein D, Pahl E, Alvarez JA, Wilkinson JD, Towbin JA, Colan SD.  
Circ Heart Fail. 2009 Nov;2(6):591-8. Epub 2009 Sep 28.  
PMID: 19919984 [PubMed - indexed for MEDLINE]

[Cardiac sympathetic activity is associated with inflammation and neurohumoral activation in patients with idiopathic dilated cardiomyopathy.](#)

Turpeinen AK, Vanninen E, Magga J, Tuomainen P, Kuusisto J, Sipola P, Punnonen K, Vuolteenaho O, Peuhkurinen K.  
Clin Physiol Funct Imaging. 2009 Nov;29(6):414-9. Epub 2009 Jul 19.  
PMID: 19622106 [PubMed - indexed for MEDLINE]

[Fractal scaling properties of heart rate dynamics and myocardial efficiency in dilated cardiomyopathy.](#)

Salo TM, Sundell J, Knuuti J, Kempainen J, Stolen K, Nuutila P, Mäkikallio TH, Huikuri HV, Airaksinen KE.  
Clin Res Cardiol. 2009 Nov;98(11):725-30. Epub 2009 Aug 18.  
PMID: 19688179 [PubMed - indexed for MEDLINE]

[Impact of renal dysfunction on appropriate therapy in implantable cardioverter defibrillator patients with non-ischaemic dilated cardiomyopathy.](#)

Takahashi A, Shiga T, Shoda M, Manaka T, Ejima K, Hagiwara N.  
Europace. 2009 Nov;11(11):1476-82. Epub 2009 Aug 6.  
PMID: 19661116 [PubMed - indexed for MEDLINE]

[Health-e-Child project: mechanical dyssynchrony in children with dilated cardiomyopathy.](#)

Labombarda F, Blanc J, Pellissier A, Stos B, Gaillard C, Bajolle F, Maltret A, Sidi D, Bonnet D, Boudjemline Y.  
J Am Soc Echocardiogr. 2009 Nov;22(11):1289-95. Epub 2009 Sep 18.  
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[Shorter difference between myocardium and blood optimal inversion time suggests diffuse fibrosis in dilated cardiomyopathy.](#)

Han Y, Peters DC, Dokhan B, Manning WJ.  
J Magn Reson Imaging. 2009 Nov;30(5):967-72.  
PMID: 19856417 [PubMed - indexed for MEDLINE]

[Nexilin mutations destabilize cardiac Z-disks and lead to dilated cardiomyopathy.](#)

Hassel D, Dahme T, Erdmann J, Meder B, Hüge A, Stoll M, Just S, Hess A, Ehlermann P, Weichenhan D, Grimm M, Liptau H, Hetzer R, Regitz-Zagrosek V, Fischer C, Nürnberg P, Schunkert H, Katus HA, Rottbauer W.  
Nat Med. 2009 Nov;15(11):1281-8. Epub 2009 Nov 1.  
PMID: 19881492 [PubMed - indexed for MEDLINE]

[Correlation between left ventricular diastolic function and ejection fraction in dilated cardiomyopathy using magnetic resonance imaging with late gadolinium enhancement.](#)

Nanjo S, Yoshikawa K, Harada M, Inoue Y, Namiki A, Nakano H, Yamazaki J.  
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PMID: 19729860 [PubMed - indexed for MEDLINE]

[Quantification of enhancement of left ventricular myocardium in patients with dilated cardiomyopathy using delayed enhanced MR imaging.](#)

Sueyoshi E, Sakamoto I, Hayashida T, Uetani M.

Comput Med Imaging Graph. 2009 Oct;33(7):547-52. Epub 2009 Jun 21.

PMID: 19545975 [PubMed - indexed for MEDLINE]

[Left ventricular remodelling and torsional dynamics in dilated cardiomyopathy: reversed apical rotation as a marker of disease severity.](#)

Popescu BA, Beladan CC, Calin A, Muraru D, Deleanu D, Rosca M, Gingham C.

Eur J Heart Fail. 2009 Oct;11(10):945-51.

PMID: 19789397 [PubMed - indexed for MEDLINE]

[The role of sarcomere gene mutations in patients with idiopathic dilated cardiomyopathy.](#)

Møller DV, Andersen PS, Hedley P, Ersbøll MK, Bundgaard H, Moolman-Smook J, Christiansen M, Køber L.

Eur J Hum Genet. 2009 Oct;17(10):1241-9. Epub 2009 Mar 18.

PMID: 19293840 [PubMed - indexed for MEDLINE]

[Evaluation of left ventricular volumes and ejection fraction by gated SPECT and cardiac MRI in patients with dilated cardiomyopathy.](#)

Wang F, Zhang J, Fang W, Zhao SH, Lu MJ, He ZX.

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PMID: 19377903 [PubMed - indexed for MEDLINE]

[Can beta agonists cause dilated cardiomyopathy?](#)

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Heart Lung Circ. 2009 Oct;18(5):367-9. Epub 2008 Dec 9.

PMID: 19081299 [PubMed - indexed for MEDLINE]

[Celiac disease associated with dilated cardiomyopathy.](#)

Lodha A, Haran M, Hollander G, Frankel R, Shani J.

South Med J. 2009 Oct;102(10):1052-4.

PMID: 19738524 [PubMed - indexed for MEDLINE]

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## Hypertrophic Cardiomyopathy

[Histologic characterization of hypertrophic cardiomyopathy with and without myofilament mutations.](#)

McLeod CJ, Bos JM, Theis JL, Edwards WD, Gersh BJ, Ommen SR, Ackerman MJ.

Am Heart J. 2009 Nov;158(5):799-805. Epub 2009 Oct 3.

PMID: 19853701 [PubMed - indexed for MEDLINE]

[Low prevalence and variable clinical presentation of troponin I and troponin T gene mutations in hypertrophic cardiomyopathy.](#)

Curila K, Benesova L, Penicka M, Minarik M, Zemanek D, Veselka J, Widimsky P, Gregor P.

Genet Test Mol Biomarkers. 2009 Oct;13(5):647-50.

PMID: 19645627 [PubMed - indexed for MEDLINE]

[Implications of hypertrophic cardiomyopathy transmitted by sperm donation.](#)

Maron BJ, Lesser JR, Schiller NB, Harris KM, Brown C, Rehm HL.

JAMA. 2009 Oct 21;302(15):1681-4.

PMID: 19843903 [PubMed - indexed for MEDLINE]

## Implanted Cardio Defibrillators

[Implantable cardioverter-defibrillator therapy after acute myocardial infarction: the results are not shocking.](#)

Goldberger JJ, Passman R.

J Am Coll Cardiol. 2009 Nov 24;54(22):2001-5.

PMID: 19926004 [PubMed - indexed for MEDLINE]

[Defibrillator implantation early after myocardial infarction.](#)

Steinbeck G, Andresen D, Seidl K, Brachmann J, Hoffmann E, Wojciechowski D, Kornacewicz-Jach Z, Sredniawa B, Lupkovic G, Hofgärtner F, Lubinski A, Rosenqvist M, Habets A, Wegscheider K, Senges J; IRIS Investigators. *N Engl J Med*. 2009 Oct 8;361(15):1427-36.

PMID: 19812399 [PubMed - indexed for MEDLINE]

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## Long QT Syndrome

[Trafficking-deficient long QT syndrome mutation KCNQ1-T587M confers severe clinical phenotype by impairment of KCNH2 membrane localization: evidence for clinically significant IKr-IKs alpha-subunit interaction.](#)

Biliczki P, Girmatsion Z, Brandes RP, Harenkamp S, Pitard B, Charpentier F, Hébert TE, Hohnloser SH, Baró I, Nattel S, Ehrlich JR.

*Heart Rhythm*. 2009 Dec;6(12):1792-801. Epub 2009 Aug 13.

PMID: 19959132 [PubMed - in process]

[Postpartum torsades de pointes and long QT syndrome.](#)

Barcelos AM, Teixeira MA, Maia Mda C, Camanho LE, Assumpção OQ.

*Arq Bras Cardiol*. 2009 Oct;93(4):e58-9, e46-7.

PMID: 19936443 [PubMed - in process]

[Arrhythmia in Heart and Brain: KCNQ1 Mutations Link Epilepsy and Sudden Unexplained Death](#)

Goldman AM, Glasscock E, Yoo J, Chen TT, Klassen TL, Noebels JL

*Sci Transl Med* 14 October 2009 1:2ra6. DOI:10.1126/scitranslmed.3000289

[The prevalence and factors associated with QTc prolongation among emergency department patients.](#)

Seftchick MW, Adler PH, Hsieh M, Wolfson AB, Chan ST, Webster BW, Frattaroli GD.

*Ann Emerg Med*. 2009 Dec;54(6):763-8. Epub 2009 May 6.

PMID: 19419793 [PubMed - indexed for MEDLINE]

[Prognostic value of long QT interval in acute and severe organophosphate poisoning.](#)

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*J Med Toxicol*. 2009 Dec;5(4):196-9.

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[The RYR2-encoded ryanodine receptor/calcium release channel in patients diagnosed previously with either catecholaminergic polymorphic ventricular tachycardia or genotype negative, exercise-induced long QT syndrome: a comprehensive open reading frame mutational analysis.](#)

Medeiros-Domingo A, Bhuiyan ZA, Tester DJ, Hofman N, Bikker H, van Tintelen JP, Mannens MM, Wilde AA, Ackerman MJ.

*J Am Coll Cardiol*. 2009 Nov 24;54(22):2065-74.

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[Genotype-phenotype relationship in the long QT syndrome: brimming with knowledge but thirsting for a therapeutic solution.](#)

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*J Am Coll Cardiol*. 2009 Nov 24;54(22):2063-4. No abstract available.

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[Genotype-phenotype aspects of type 2 long QT syndrome.](#)

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*J Am Coll Cardiol*. 2009 Nov 24;54(22):2052-62.

PMID: 19926013 [PubMed - indexed for MEDLINE]

[Genetic testing for long-QT syndrome: distinguishing pathogenic mutations from benign variants.](#)

Kapa S, Tester DJ, Salisbury BA, Harris-Kerr C, Pungliya MS, Alders M, Wilde AA, Ackerman MJ.

*Circulation*. 2009 Nov 3;120(18):1752-60. Epub 2009 Oct 19.

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[NOS1AP is a genetic modifier of the long-QT syndrome.](#)

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[Assessment of microvolt T-wave alternans in high-risk patients with the congenital long-QT syndrome.](#)

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## Miscellaneous

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