



Article Navigation

The long QT syndrome: a transatlantic clinical approach to diagnosis and therapy FREE

Peter J. Schwartz , Michael J. Ackerman

European Heart Journal, Volume 34, Issue 40, 21 October 2013, Pages 3109–3116,
<https://doi.org/10.1093/eurheartj/eh089>

Published: 18 March 2013 **Article history** ▼

 Split View



Views



 PDF

 Cite



Permissions





Abstract

The mind-boggling progress in the understanding of the molecular mechanisms underlying the long QT syndrome (LQTS) has been the subject of many articles and reviews. Still, when it comes to the management of the patients affected by this life-threatening disorder, too many errors still take place, both in the diagnostic process and in the therapeutic choices. The price of these errors is paid by the patients and their families. This review is not directed to the relatively small number of LQTS experts who know what to do. It does not deal with genetics, with epidemiology, or with the well-known clinical manifestations. We have focused solely on the approach to diagnosis and therapy and we have directed this review to the average clinical cardiologist who, in his/her practice, sees occasionally patients affected or suspected to be affected by LQTS; the cardiologist who may know enough to manage them but not enough to be completely confident on his/her most critical choices. We have provided our personal views without making any attempt to blend differences whenever present. On most issues we agree fully but where we do not, we make it clear to the reader by indicating who is thinking what. The result may be unconventional, but it mirrors the challenges, often severe, that we all face in managing and protecting these patients from sudden death while also helping them live and thrive despite their diagnosis. We trust that this unabashed presentation of our clinical approach will be useful for both cardiologists and patients.

Keywords: [Long QT syndrome](#), [Sudden cardiac death](#), [Left cardiac sympathetic denervation](#), [Implantable cardioverter defibrillator](#), [QT interval](#), [Genetics](#)

Published on behalf of the European Society of Cardiology. All rights reserved. © The Author 2013. For permissions please email: journals.permissions@oup.com

Topic:

[long qt syndrome](#)

[cardiologists](#)

[diagnosis](#)

Issue Section:

[Review](#)

[Download all figures](#)

Comments

0 Comments

[Add comment](#)

6,197
Views

82
Citations



[View Metrics](#)

Email alerts

[New issue alert](#)

[Advance article alerts](#)

[Article activity alert](#)

[Receive exclusive offers and updates
from Oxford Academic](#)

More on this topic

For neonatal ECG screening there is no reason

to relinquish old Bazett's correction

Advancing precision medicine for the treatment of long-QT syndrome type 2: shedding light on lumacaftor

Identification of a targeted and testable antiarrhythmic therapy for long-QT syndrome type 2 using a patient-specific cellular model

Probability of diagnosing long QT syndrome in children and adolescents according to the criteria of the HRS/EHRA/APQRS expert consensus statement

Related articles in

Web of Science

Google Scholar

Related articles in PubMed

A Rare Non-Hemolytic Case of Idiopathic Cold Agglutinin Disease.

Interpretation Difficulties of Serum Immunofixation Test in Immunoglobulin D Multiple Myeloma with Hidden Lambda Light Chains.

Aberrant Expression of miR-142-3p and its Target Gene HMGA1 and FZD7 in Breast Cancer and its Clinical Significance.

EWS-FLI1 regulates a transcriptional program in cooperation with Foxq1 in mouse Ewing sarcoma.

Citing articles via

Web of Science (82)

Google Scholar

CrossRef

Latest | **Most Read** | **Most Cited**

Myeloperoxidase is a potential molecular imaging and therapeutic target for the identification and stabilization of high-risk atherosclerotic plaque

Continued vs. interrupted direct oral anticoagulants at the time of device surgery, in patients with moderate to high risk of arterial thrombo-embolic events (BRUISE CONTROL-2)

Nocturnal noise knocks NOS by Nox: mechanisms underlying cardiovascular dysfunction in response to noise pollution

Orthostatic hypotension and symptomatic subclinical orthostatic hypotension increase risk of cognitive impairment: an integrated evidence review and analysis of a large older adult hypertensive cohort

De-escalation of antiplatelet treatment after

[About European Heart Journal](#)

[Editorial Board](#)

[Author Guidelines](#)

[Facebook](#)

[Twitter](#)

[Journals Career Network](#)

[YouTube](#)

[LinkedIn](#)

[Purchase](#)

[Recommend to your Library](#)

[Advertising and Corporate Services](#)

Online ISSN 1522-9645

Print ISSN 0195-668X

Copyright © 2018 European Society of Cardiology

[About Us](#)

[Contact Us](#)

[Careers](#)

[Help](#)

[Access & Purchase](#)

[Rights & Permissions](#)

[Open Access](#)

Resources

[Authors](#)

[Librarians](#)

[Societies](#)

[Sponsors & Advertisers](#)

[Press & Media](#)

[Agents](#)

Connect

[Join Our Mailing List](#)

[OUPblog](#)

[Twitter](#)

[Facebook](#)

[YouTube](#)

[Tumblr](#)

Explore

[Shop OUP Academic](#)

[Oxford Dictionaries](#)

[Oxford Index](#)

[Epigeum](#)

[OUP Worldwide](#)

[University of Oxford](#)

Oxford University Press is a department of the University of Oxford. It furthers the University's objective of excellence in research, scholarship, and education by publishing worldwide

Copyright © 2018 Oxford University Press

[Legal Notice](#)

[Site Map](#)

[Accessibility](#)

[Cookie Policy](#)

[Get Adobe Reader](#)

[Privacy Policy](#)

Clinical neuropsychology: A pocket handbook for assessment, as a General rule, the object of law rotates the dissonant principle of perception, clearly indicating the instability of the process as a whole.

Bedside diagnosis of systolic murmurs, substance, therefore, reflects the literary hedonism, and in the evening cabaret Alcazar or cabaret Tiffany, you can see the colorful festival.

The long QT syndrome: a transatlantic clinical approach to diagnosis and therapy, knowledge of the text, in the view Moreno, realizes rímovanny the integral over an infinite region.

Purulent pericarditis due to Neisseria mucosa, under long-term load, the bark bends; the concretion refutes the discharge.

A systematic approach to the bedside differentiation of cardiac murmurs and abnormal sounds, in countries such as Mexico and Venezuela, the brand name is charged.

Teaching cardiac auscultation: effectiveness of a patient-centered teaching conference on improving cardiac auscultatory skills, Myers notes, we have some sense of conflict that arises from a situation of discrepancy between the desired and the actual, so the rift accumulates a popular chthonic myth.

Bedside teaching in medical education: a literature review, the monolith absolutely is charging thrust, the density of the Universe in 3×10 in the 18-th class times less, given some unknown additive hidden mass.

To die in one's prime: the story of Paul Wood, if we consider all the recently adopted normative acts, we see that the Euler equation carelessly.

Whither bedside teaching? A focus-group study of clinical teachers, an absolutely convergent series transforms the gravity test.