

Review Article

Drug-Induced Long QT Syndrome

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A continuously growing number of non-antiarrhythmic agents have been shown to prolong cardiac repolarisation, predisposing to a certain type of polymorphic ventricular tachycardia termed torsades de pointes (TdP) and sudden cardiac death.¹⁻⁵ Drug-induced long QT syndrome (LQTS) is considered the most frequent cause of withdrawal or relabelling of marketed drugs in the last decade.³ Drugs with proven lengthening of the QT interval or a definite association with TdP are common and are estimated to comprise approximately 2-3% of all prescriptions written.⁶ As shown in Table 1, antibiotics and psychotropic drugs are the most common non-cardiac drugs involved in drug-induced LQTS and, in the vast majority of cases, are prescribed by non-cardiologists.^{1,5,7} This list can be accessed via the internet:

- www.torsades.org
- www.qtdrugs.org
- www.longqt.org
- www.sads.org

The prescription of non-cardiac QT-prolonging agents has recently been associated with a significantly increased risk of sudden cardiac death in the general population. The risk of death has been shown to be higher in women and in recent starters.⁸ However, the likelihood of drug-induced TdP is difficult to predict in routine clinical practice. The present brief review highlights the mechanisms underly-

ing drug-induced LQTS, as well as the identification of easily recognised risk factors that predispose to this potentially life-threatening condition.

Measurement of the QT interval

The QT interval is measured from the beginning of the QRS complex to the end of the T wave on the surface electrocardiogram (ECG). Despite the fact that there are insufficient data regarding which lead or leads to use for QT interval measurement, lead II is considered the appropriate one because the vectors of repolarisation result in a long single wave rather than discrete T and U waves.⁹ The QT interval is influenced by the heart rate. Rate acceleration normally leads to QT shortening, whereas bradycardia leads to QT lengthening.¹⁰ The RR interval preceding the QT interval should be measured for rate correction.^{10,11} Several formulae may be used to correct the QT interval (QTc). The most commonly used formulae are Fridericia's cube root formula ($QTc = QT/RR^{1/3}$) and Bazett's square root formula ($QTc = QT/RR^{1/2}$). Fridericia's equation is preferred at extremes of physiological heart rate.^{10,11} Apart from heart rate, the duration of the QT interval is also influenced by sympathovagal activity, drugs, genetic abnormalities, electrolyte disorders, cardiac or metabolic diseases and changes of cardiac afterload.¹¹

Drug Induced Long Qt Syndrome

Jessica J Manson



Drug Induced Long Qt Syndrome:

The Enigmatic Realm of **Drug Induced Long Qt Syndrome**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Drug Induced Long Qt Syndrome** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

https://gandalf.roeckerfam.com/results/detail/Documents/Atlas_Basico_De_Matematicas.pdf

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