Lightning Learning: Long QT Syndrome

https://em3.org.uk @EM3FOAMed youtube.com/em3orguk

#EM3
East Midlands Emergency Medicine Educational Media

WHAT?

Congenital or acquired disorder which causes the QT interval to be prolonged **(>450ms)**

- ➔ **Genetic mutation** affects Na and K channels
- ➔ **Drugs** e.g. TCA, SSRIs, haloperidol and many more
- ➔ **Electrolyte disturbance** e.g. hypokalaemia and hypocalcaemia
- ➔ **Heart disease**

Prolonged repolarisation of the ventricles which causes arrhythmias. Diagnosed with aid of ECG and **Schwartz criteria.**

Romano-Ward syndrome and **Jervell and Lange-Nielsen** syndrome are genetic forms of long QT syndrome.

WHY?

Affects 1:2500 people worldwide. Patients may remain asymptomatic BUT Long QT syndrome is Associated with **syncope,** especially on exertion and...

SUDDEN CARDIAC ARREST

It is often **misdiagnosed as epilepsy.**

Management for congenital cases will be through lifestyle change, **beta-blocker** therapy and **ICD.**

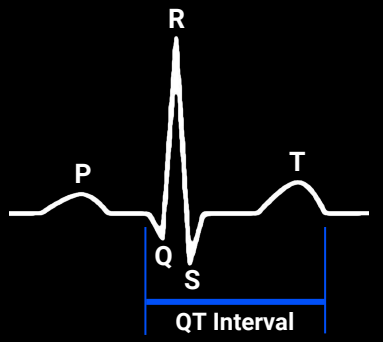
Patients will need to avoid extreme exertion.

HOW?

Long QT Syndrome Workup *(Medscape)* http://bit.ly/2BaBZ1s

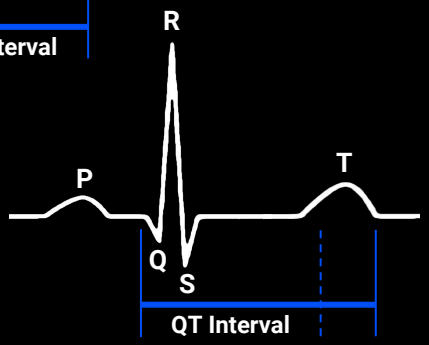
Long QT Syndrome *(Life in the Fast Lane)* http://bit.ly/2AunuUX

Long QT Syndrome *(BMJ Best Practice)* http://bit.ly/2jYkMAX



Normal ECG

Long QT



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