

Scoring System for Clinical Diagnosis of Long QT Syndrome

Adapted from Schwartz & Crotti [2011]

Variable			Points
ECG¹	QTc ²	≥480 ms	3
		460-479 ms	2
		450-459 ms (in males)	1
		≥480 ms during 4 th minute of recovery from exercise stress test	1
	<i>Torsade de pointes</i> ³		2
	T wave alternans		1
	Notched T wave in 3 leads		1
Low heart rate for age ⁴		0.5	
Clinical history	Syncope ³	With stress	2
		Without stress	1
Family history	Family member(s) with definite LQTS ⁵		1
	Unexplained sudden cardiac death at age <30 years in immediate family ⁵		0.5
Total score			

Scoring:

≤1.0 point = low probability of LQTS
 1.5-3.0 points = intermediate probability of LQTS
 ≥3.5 points = high probability of LQTS

Footnotes:

1. In the absence of medications or disorders known to affect these electrocardiographic features
2. QTc (corrected QT) calculated by Bazett's formula where $QTc = QT/\sqrt{RR}$
3. Mutually exclusive
4. Resting heart rate <2nd %ile for age
5. The same family member cannot be counted for both criteria.