# ECG Manifestations: Electrolyte Imbalance

Diercks DB et al. J Emerg Med. 2004; 27(2); 153-60. Rosen's EM: Concepts and Clinical Practice, 7th ed, 2010.



PR interval	Short	Prolonged
	(Think pre-excitation syndromes such as Wolff-Parkinson-White)	High K Low Ca
QRS duration	Narrow	Wide (>100 msec)
	Normal	High K High Ca
QTc interval	Short (<350 msec)	Prolonged (>440 msec)
	High Ca	Low K Low Ca
ST segment	Depressed	Elevated
	Low K High Ca	High K
T wave	Peaked/tall	Flattened
	High K	Low K
U wave	Absent	Present
	Normal	Low K Low Ca
Heart rate	Slow	Fast
	(bradydysrhythmia, nodal block)	(tachydysrhythmia)
	High K High Ca	Low K Low Ca

	Low	High
Ca	QTc prolonged (hallmark)     U wave     Heart blocks, ventricular dysrhythmias, torsades de pointes	QTc shortened (hallmark)     ST segment depression and shortening     QRS widening     Rare: bradydysrhythmias, bundle branch blocks, high degree AV blocks
K	Early to late findings:     T wave: decreased amplitude     T wave: flat or inverted     ST segment depression     U wave     QTc prolonged (at risk for VT or torsades de pointes)	Early to late findings:  T wave: tall, then "peaked" (symmetrical)  P wave flattening  PR interval prolonged  QRS widening  Nodal blocks, escape beats  Sine wave: fusion of QRS and T wave  VF or asystole

Mg derangements: Nonspecific ECG findings; often co-exist with Ca derangements.

• Classic teaching: Low Mg level --> QTc prolongation --> torsades de pointes

# **National First Line Supervisor Study Guide**

**R Sandford** 

**National First Line Supervisor Study Guide:** 

The book delves into National First Line Supervisor Study Guide. National First Line Supervisor Study Guide is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into National First Line Supervisor Study Guide, encompassing both the fundamentals and more intricate discussions.

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  - Chapter 1: Introduction to National First Line Supervisor Study Guide
  - Chapter 2: Essential Elements of National First Line Supervisor Study Guide
  - Chapter 3: National First Line Supervisor Study Guide in Everyday Life
  - Chapter 4: National First Line Supervisor Study Guide in Specific Contexts
  - ∘ Chapter 5: Conclusion
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- 6. In chapter 5, this book will draw a conclusion about National First Line Supervisor Study Guide. The final chapter will summarize the key points that have been discussed throughout the book.

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