5 MINUTE SPEEDY SESSION

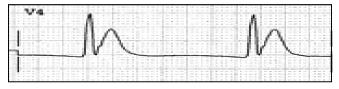
Electrolytes and EKGs

Proper electrolyte balance is absolutely necessary to maintain an adequate cardiac rhythm. When imbalances occur, predictable cardiac changes can be seen on the telemetry monitor. As the imbalances progress; so to do the changes. Listed below are the common electrolyte imbalances and their progressive EKG changes. ** indicates point of deterioration noted on EKG strips shown. Not all phases of deterioration are shown.

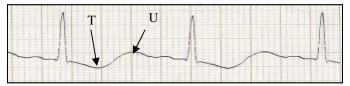
Hyperkalemia: Tall peaked T-waves**, short QT interval, long PR interval, loss of P waves, widened QRS



Hypercalcemia: Shortened QT-interval, broad based tall peaking T-waves



Hypokalemia: ST-segment depression, T-wave inversion, prominent U waves**



Hypocalcemia: Narrowing of QRS, prolonged QTinterval**, prominient U-wave, Prolonged ST and ST-depression

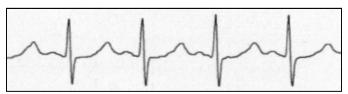


Hypermagnesemia: Increased PR and QT interval, widened QRS, complete AV block**



Retrieved from ECGs Made Easy

Hypomagnesemia: Prolonged PR and QT intervals, STsegment depression**, T-wave inversion, widened QRS, Torsades de Pointes



Created by Kristin Olson RN, 1/28/2014