



SNS COLLEGE OF ALLIED HEALTH SCIENCE, COIMBATORE -35.

(Affiliated to The Tamil Nadu Dr. M.G.R. Medical University, Chennai)

DEPARTMENT OF CARDIAC TECHNOLOGY



PUZZLES FOR THE SUBJECT OF ADVANCED ECG , TMT AND 24 HRS AMBULATORY HOLTER AND BP RECORDINGS

1. Which electrolyte imbalance is most commonly associated with peaked T waves on an ECG?
 - a) Hypokalemia
 - b) Hyperkalemia
 - c) Hypocalcemia
 - d) Hypermagnesemia

2. What ECG finding is typically seen in severe hypokalemia?
 - a) Shortened QT interval
 - b) Prominent U waves
 - c) Widened QRS complex
 - d) ST-segment elevation

3. Which metabolic condition can cause ST-segment depression and T-wave inversion on an ECG?
 - a) Hyperthyroidism
 - b) Hypoglycemia
 - c) Hypercalcemia
 - d) Metabolic alkalosis



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4. What is a characteristic ECG change associated with hypercalcemia?
 - a) Prolonged QT interval
 - b) Shortened QT interval
 - c) Widened QRS complex
 - d) Flattened T waves

5. Which of the following ECG abnormalities is most likely caused by hypomagnesemia?
 - a) Prolonged PR interval
 - b) Torsades de pointes
 - c) ST-segment elevation
 - d) Narrowed QRS complex

6. In the context of metabolic acidosis, which ECG change is commonly observed?
 - a) Peaked T waves
 - b) Prolonged QRS duration
 - c) Shortened PR interval



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- d) Flattened P waves
7. Which electrolyte abnormality can mimic myocardial ischemia on an ECG?
- a) Hyperkalemia
 - b) Hypokalemia
 - c) Hypernatremia
 - d) Hypocalcemia
8. What is a common ECG finding in patients with severe hyperkalemia?
- a) Sinus bradycardia
 - b) Widened QRS complex
 - c) Shortened QT interval
 - d) Prominent P waves
9. Which condition is least likely to cause QT prolongation on an ECG?
- a) Hypokalemia
 - b) Hypocalcemia



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- c) Hypomagnesemia
 - d) Hypernatremia
10. What ECG change is often associated with diabetic ketoacidosis?
- a) ST-segment elevation
 - b) Peaked T waves due to hyperkalemia
 - c) Shortened QT interval
 - d) Absent U waves