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**ACSM**

**040-444**

*ACSM Registered Clinical Exercise Physiologist*



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(From Goldberger AL: *Clinical Electrocardiography: A Simplified Approach*, 6th ed. St. Louis, Mosby, 1999, p 70.)

**Answer:** C

**QUESTION:** 356

Subendocardial ischemia usually produces

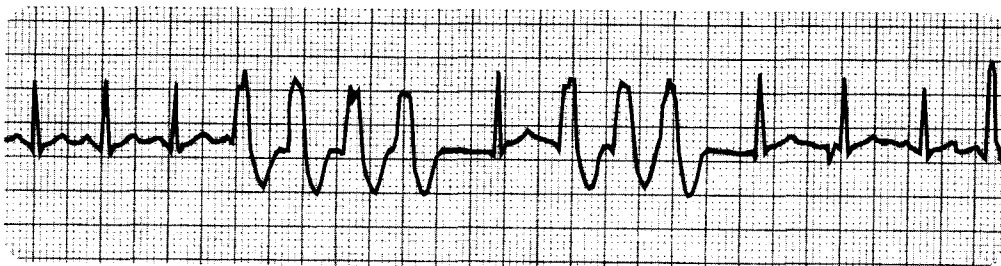
- A. ST-segment elevation.
- B. ST -segment depression.
- C. Q waves.
- D. U waves.

**Answer:** B

**QUESTION:** 357

In the ECG strip shown below, which arrhythmia is present?

- A. Premature ventricular contractions.
- B. Ventricular tachycardia.
- C. Ventricular trigeminy.
- D. Ventricular bigeminy.



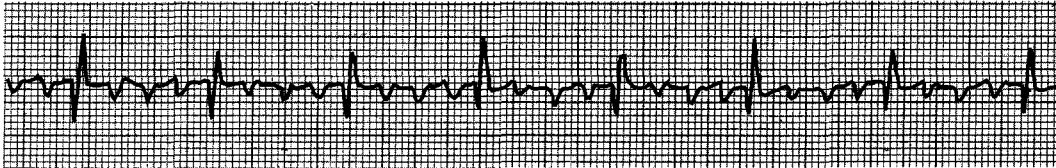
(From Goldberger AL: *Clinical Electrocardiography: A Simplified Approach*, 6th ed. 51. Louis, Mosby, 1999, p 167.)

**Answer:** B

**QUESTION:** 358

In the ECG strip shown below, which arrhythmia is indicated?

- A. Atrial flutter.
- B. Atrial fibrillation.
- C. Premature atrial contractions.
- D. Atrial tachycardia.



**Answer:** A

**QUESTION:** 359

Abnormally tall and peaked T waves suggest which of the following?

- A. Hyperkalemia.
- B. Acute pericarditis.
- C. Acute MI.
- D. Hypokalemia.

**Answer:** A

**QUESTION:** 360

Which of the following conditions can prolong the QT interval?

- A. Hypokalemia and hypercalcemia.
- B. Hyperkalemia and hypercalcemia.
- C. Hypocalcemia and hypokalemia.
- D. Hypocalcemia and hyperkalemia.

**Answer:** D

**QUESTION:** 361

Differentiation between supraventricular and ventricular rhythm is made on the basis of the

- A. Duration (width) of the QRS complex and the presence or absence of P waves.
- B. Appearance of the ST segment.
- C. Amplitude of the U wave.
- D. Duration of the PR interval.

**Answer:** A

**QUESTION:** 362

Which of the following is one cause of a wide QRS complex?

- A. Hypokalemia.
- B. Defective intraventricular conduction.
- C. Right atrial enlargement.
- D. Abnormal ST segment

**Answer:** B

**QUESTION:** 363

In response to various stimuli, movements of ions occur, causing the rapid loss of the internal negative potential. This process is known as

- A. Polarization.
- B. Repolarization.
- C. Automaticity.
- D. Depolarization.

**Answer:** D

**QUESTION:** 364

Digitalis effect refers to

- A. Scooped-out depression of the ST segment produced by digitalis.
- B. Elevation of the PR interval produced by digitalis.
- C. Shortening of the QT interval produced by digitalis.
- D. Prolongation of the QRS complex produced by digitalis.

**Answer: A**

**QUESTION: 365**

Tall, positive T waves may be caused to all of the following EXCEPT

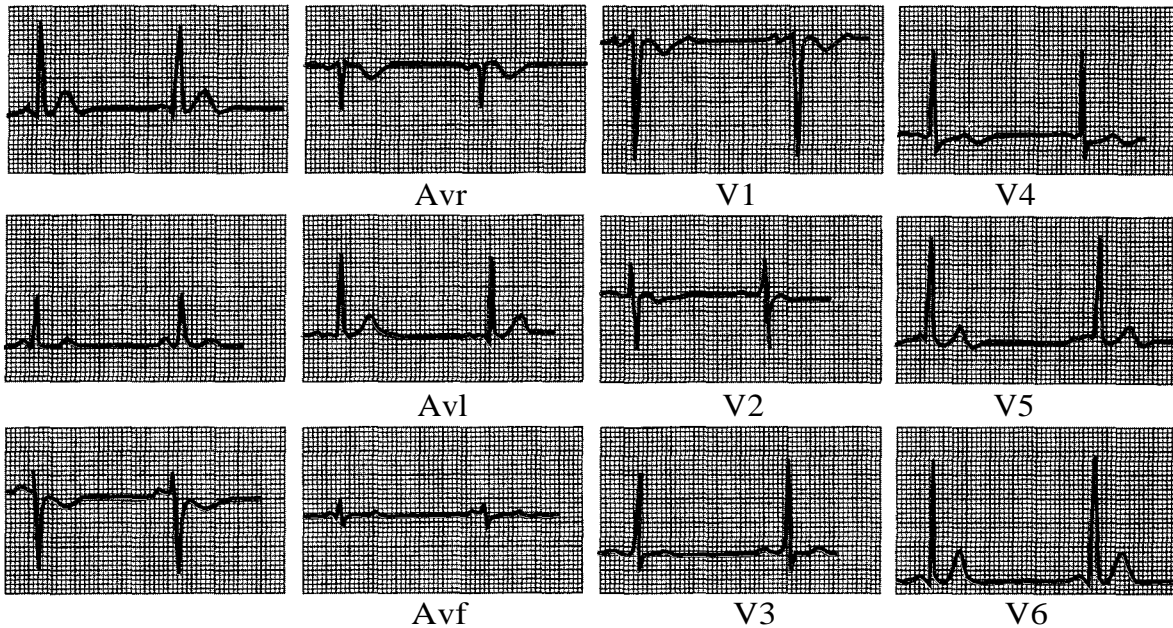
- A. Hyperacute phase of MI.
- B. LVH.
- C. Acute pericarditis.
- D. Hypocalcemia.

**Answer: D**

**QUESTION: 366**

In the ECG strip shown below, what abnormalities are indicated?

- A. Left atrial enlargement and LVH.
- B. Right atrial enlargement and right ventricular hypertrophy.
- C. Left anterior fascicular block and left posterior hemiblock.
- D. Subendocardial ischemia and infarction



**Answer: A**

**QUESTION: 367**

Right-axis deviation may be caused by

- A. Acute pericarditis.
- B. Right atrial enlargement.
- C. Chronic obstructive pulmonary disease.
- D. Cardiomyopathy.

**Answer: C**

**QUESTION: 368**

In atrial flutter, the stimulation rate is approximately

- A. 75 bpm
- B. 125 bpm
- C. 200 bpm
- D. 300 bpm

**Answer: D**

**QUESTION: 369**

Myocardial cells can be excited in response to all of the following stimuli EXCEPT:

- A. Electrical
- B. Chemical
- C. Mechanical
- D. Emotional

**Answer: D**

**QUESTION: 370**

The P wave on the ECG can be

- A. Negative

- B. Positive
- C. Isoelectric
- D. Either positive or negative

**Answer:** D



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