

ECG Sample Case: A 51-year-old woman with fatigue

GENERAL FEATURES

- 1. Normal ECG
- 2. Normal variant
- 3. Incorrect electrode placement
- 4. Artifact

P WAVE ABNORMALITIES

- 5. Right atrial abnormality/enlargement
- 6. Left atrial abnormality/enlargement

ATRIAL RHYTHMS

- 7. Sinus rhythm
- 8. Sinus arrhythmia
- 9. Sinus bradycardia (<60)
- 10. Sinus tachycardia (>100)
- 11. Sinus pause or arrest
- 12. Sinoatrial exit block
- 13. Atrial premature complexes
- 14. Atrial tachycardia
- 15. Atrial tachycardia, multifocal
- 16. Supraventricular tachycardia
- 17. Atrial flutter
- 18. Atrial fibrillation

AV JUNCTIONAL RHYTHMS

- 19. AV junctional premature complexes
- 20. AV junctional escape complexes
- 21. AV junctional rhythm/tachycardia

VENTRICULAR RHYTHMS

- 22. Ventricular premature complex(es)
- 23. Ventricular parasystole
- 24. Ventricular tachycardia (3 or more consecutive complexes)
- 25. Accelerated idioventricular rhythm
- 26. Ventricular escape complexes or rhythm
- 27. Ventricular fibrillation

AV CONDUCTION

- 28. AV block, 1°
- 29. AV block, 2°–Mobitz type I (Wenckebach)
- 30. AV block, 2°–Mobitz type II
- 31. AV block, 2:1
- 32. AV block, 3°
- 33. Wolff-Parkinson-White pattern
- 34. AV dissociation

ABNORMALITIES OF QRS VOLTAGE OR AXIS

- 35. Low voltage, limb leads
- 36. Low voltage, precordial leads
- 37. Left axis deviation (> -30°)
- 38. Right axis deviation (> +100°)
- 39. Electrical alternans

VENTRICULAR HYPERTROPHY

- 40. Left ventricular hypertrophy
- 41. Right ventricular hypertrophy
- 42. Combined ventricular hypertrophy

INTRAVENTRICULAR CONDUCTION

- 43. RBBB, complete
- 44. RBBB, incomplete
- 45. Left anterior fascicular block
- 46. Left posterior fascicular block
- 47. LBBB, complete
- 48. LBBB, incomplete
- 49. Aberrant conduction (including rate-related)
- 50. Intraventricular conduction disturbance, nonspecific type

Q WAVE MYOCARDIAL INFARCTION

| | Age recent, acute | Age indeterminate or probably acute | Age indeterminate or probably old |
|--------------------------|------------------------------|-------------------------------------|-----------------------------------|
| Anterolateral | <input type="checkbox"/> 51. | <input type="checkbox"/> 52. | |
| Anterior or anteroseptal | <input type="checkbox"/> 53. | <input type="checkbox"/> 54. | |
| Lateral | <input type="checkbox"/> 55. | <input type="checkbox"/> 56. | |
| Inferior | <input type="checkbox"/> 57. | <input type="checkbox"/> 58. | |
| Posterior | <input type="checkbox"/> 59. | <input type="checkbox"/> 60. | |

ST, T, U WAVE ABNORMALITIES

- 61. Normal variant, early repolarization
- 62. Normal variant, juvenile T waves
- 63. Nonspecific ST and/or T wave abnormalities
- 64. ST and/or T wave abnormalities suggesting myocardial ischemia
- 65. ST and/or T wave abnormalities suggesting myocardial injury
- 66. ST and/or T wave abnormalities suggesting electrolyte disturbances
- 67. ST and/or T wave abnormalities secondary to hypertrophy
- 68. Prolonged Q-T interval
- 69. Prominent U waves

CLINICAL DISORDERS

- 70. Brugada syndrome
- 71. Digitalis toxicity
- 72. Torsades de pointes
- 73. Hyperkalemia
- 74. Hypokalemia
- 75. Hypercalcemia
- 76. Hypocalcemia
- 77. Dextrocardia, mirror image
- 78. Acute cor pulmonale including pulmonary embolus
- 79. Pericardial effusion
- 80. Acute pericarditis
- 81. Hypertrophic cardiomyopathy
- 82. Central nervous system disorder
- 83. Hypothermia

PACEMAKER FUNCTION

- 84. Atrial or coronary sinus pacing
- 85. Ventricular demand pacemaker (VVI), normally functioning
- 86. Dual-chamber pacemaker (DDD), normally functioning
- 87. Pacemaker malfunction, not constantly capturing (atrium or ventricle)
- 88. Pacemaker malfunction, not constantly sensing (atrium or ventricle)
- 89. Paced morphology consistent with biventricular pacing or cardiac resynchronization therapy