

- 4.1** **Regularity:** regular (slightly irregular)
Rate: 48 beats per minute
P Waves: uniform and upright; regular P-P interval
PRI: .18 seconds and constant
QRS: .12 seconds
Interp: Sinus Bradycardia (with wide QRS)
- 4.2** **Regularity:** irregular
Rate: approximately 80 beats per minute
P Waves: uniform and upright; regular P-P interval
PRI: .14 seconds and constant
QRS: .06 seconds
Interp: Sinus Arrhythmia
- 4.3** **Regularity:** regular
Rate: 75 beats per minute
P Waves: uniform and upright; regular P-P interval
PRI: .16 seconds and constant
QRS: .08 seconds
Interp: Normal Sinus Rhythm
- 4.4** **Regularity:** regular
Rate: 136 beats per minute
P Waves: uniform and upright; regular P-P interval
PRI: .16 seconds and constant
QRS: .06 seconds
Interp: Sinus Tachycardia
- 4.5** **Regularity:** irregular
Rate: approximately 80 beats per minute
P Waves: uniform P waves with an irregular P-P interval
PRI: .16 seconds and constant
QRS: .08 seconds
Interp: Sinus Arrhythmia
- 4.6** **Regularity:** regular
Rate: 107 beats per minute
P Waves: uniform and upright; regular P-P interval
PRI: .16 seconds and constant
QRS: .12 seconds
Interp: Sinus Tachycardia (with a wide QRS)
- 4.7** **Regularity:** regular
Rate: 50 beats per minute
P Waves: uniform and upright; regular P-P interval
PRI: .12 seconds and constant
QRS: .08 seconds
Interp: Sinus Bradycardia

- 4.8 **Regularity:** regular
Rate: 71 beats per minute
P Waves: uniform and upright; regular P-P interval
PRI: .14 seconds and constant
QRS: .08 seconds
Interp: Normal Sinus Rhythm
- 4.9 **Regularity:** regular
Rate: 94 beats per minute
P Waves: uniform and upright; regular P-P interval
PRI: .16 seconds and constant
QRS: .12 seconds
Interp: Normal Sinus Rhythm (with a wide QRS)
- 4.10 **Regularity:** slightly irregular
Rate: approximately 30 beats per minute
P Waves: uniform and upright; irregular P-P interval
PRI: .18 seconds and constant
QRS: .08 seconds
Interp: Sinus Bradycardia
- 4.11 **Regularity:** regular
Rate: 75 beats per minute
P Waves: uniform and upright; regular P-P interval
PRI: .18 seconds and constant
QRS: .06 seconds
Interp: Normal Sinus Rhythm
- 4.12 **Regularity:** irregular
Rate: 90 beats per minute
P Waves: uniform and upright; irregular P-P interval
PRI: .20 seconds and constant
QRS: .06 seconds
Interp: Sinus Arrhythmia
- 4.13 **Regularity:** regular
Rate: 48 beats per minute
P Waves: uniform and upright; regular P-P interval
PRI: .20 seconds and constant
QRS: .08 seconds
Interp: Sinus Bradycardia
- 4.14 **Regularity:** irregular
Rate: approximately 70 beats per minute
P Waves: uniform and upright; regular P-P interval
PRI: .14 seconds and constant
QRS: .06 seconds
Interp: Sinus Arrhythmia
- 4.15 **Regularity:** regular
Rate: 79 beats per minute
P Waves: uniform and upright; regular P-P interval
PRI: .16 seconds and constant
QRS: .08 seconds
Interp: Normal Sinus Rhythm

- 4.16 **Regularity:** regular
Rate: 115 beats per minute
P Waves: uniform and upright; regular P-P interval
PRI: .14 seconds and constant
QRS: .16 seconds
Interp: Sinus Tachycardia (with wide QRS)
- 4.17 **Regularity:** regular
Rate: 65 beats per minute
P Waves: uniform and upright; regular P-P interval
PRI: .12 seconds and constant
QRS: .08 seconds
Interp: Normal Sinus Rhythm
- 4.18 **Regularity:** irregular
Rate: approximately 80 beats per minute
P Waves: uniform and upright; regular P-P interval
PRI: .12 seconds and constant
QRS: .08 seconds
Interp: Sinus Arrhythmia
- 4.19 **Regularity:** regular
Rate: 88 beats per minute
P Waves: uniform and upright; regular P-P interval
PRI: .16 seconds and constant
QRS: .08 seconds
Interp: Normal Sinus Rhythm
- 4.20 **Regularity:** regular
Rate: 150 beats per minute
P Waves: upright and uniform
PRI: .12 seconds
QRS: .08 seconds
Interp: Sinus Tachycardia
- 4.21 **Regularity:** regular
Rate: 83 beats per minute
P Waves: upright and uniform
PRI: .20 seconds
QRS: .12 seconds
Interp: Normal Sinus Rhythm (with wide QRS)
- 4.22 **Regularity:** regular
Rate: 54 beats per minute
P Waves: upright and uniform
PRI: .16 seconds
QRS: .08 seconds
Interp: Sinus Bradycardia
- 4.23 **Regularity:** regular
Rate: 107 beats per minute
P Waves: upright and uniform
PRI: .12 seconds
QRS: .08 seconds
Interp: Sinus Tachycardia

- 4.24 **Regularity:** irregular
Rate: 70 beats per minute
P Waves: upright and uniform
PRi: .20 seconds
QRS: .10 seconds
Interp: Sinus Arrhythmia
- 4.25 **Regularity:** irregular
Rate: 50 beats per minute
P Waves: upright and uniform
PRi: .16 seconds
QRS: .08 seconds
Interp: Sinus Bradyarrhythmia
- 4.26 **Regularity:** regular
Rate: 88 beats per minute
P Waves: upright and uniform
PRi: .14 seconds
QRS: .08 seconds
Interp: Normal Sinus Rhythm
- 4.27 **Regularity:** irregular
Rate: 50 beats per minute
P Waves: upright and uniform
PRi: .14 seconds
QRS: .08 seconds
Interp: Sinus Bradyarrhythmia
- 4.28 **Regularity:** regular
Rate: 107 beats per minute
P Waves: upright and uniform
PRi: .16 seconds
QRS: .08 seconds
Interp: Sinus Tachycardia
- 4.29 **Regularity:** regular (very slightly irregular)
Rate: 43 beats per minute
P Waves: upright and uniform
PRi: .18 seconds
QRS: .11 seconds
Interp: Sinus Bradycardia
- 4.30 **Regularity:** irregular
Rate: 70 beats per minute
P Waves: upright and uniform
PRi: .12 seconds
QRS: .08 seconds
Interp: Sinus Arrhythmia

- 5.1** **Regularity:** irregular
Rate: approximately 100 beats per minute
P Waves: not discernible; only undulations are present
PRI: none
QRS: .08 seconds
Interp: uncontrolled Atrial Fibrillation
- 5.2** **Regularity:** regular
Rate: atrial rate is 300 beats per minute; ventricular rate is 150 beats per minute
P Waves: uniform; sawtooth appearance
PRI: none
QRS: .10 seconds (QRS is difficult to measure due to obscuring by Flutter waves)
Interp: Atrial Flutter with 2:1 response
- 5.3** **Regularity:** regular underlying rhythm interrupted by an ectopic
Rate: 71 beats per minute
P Waves: uniform in underlying rhythm; one differently shaped P wave before ectopic
PRI: .16 seconds and constant
QRS: .10 seconds
Interp: Sinus Rhythm with one PAC
- 5.4** **Regularity:** irregular
Rate: approximately 90 beats per minute
P Waves: not discernible; undulations present
PRI: none
QRS: .10 seconds
Interp: controlled Atrial Fibrillation (with wide QRS)
- 5.5** **Regularity:** regular
Rate: atrial rate is 328 beats per minute; ventricular rate is 82 beats per minute
P Waves: uniform; sawtooth appearance
PRI: none
QRS: .08 seconds
Interp: Atrial Flutter with 4:1 response
- 5.6** **Regularity:** irregular
Rate: approximately 50 beats per minute
P Waves: not discernible; undulations present
PRI: none
QRS: .08 seconds (QRS complexes are sometimes obscured by fibrillatory waves)
Interp: controlled Atrial Fibrillation
- 5.7** **Regularity:** regular underlying rhythm interrupted by ectopics
Rate: 115 beats per minute
P Waves: uniform in the underlying rhythm; shape of P wave changes before each ectopic
PRI: .12 seconds
QRS: .08 seconds; shape of QRS is uniform in both underlying beats and ectopics
Interp: Sinus Tachycardia with three PACs

- 5.8 **Regularity:** irregular
Rate: approximately 90 beats per minute
P Waves: not discernible; undulations present
PRi: none
QRS: .08 seconds
Interp: controlled Atrial Fibrillation
- 5.9 **Regularity:** irregular
Rate: approximately 140 beats per minute
P Waves: not discernible
PRi: none
QRS: .06 seconds
Interp: uncontrolled Atrial Fibrillation
- 5.10 **Regularity:** regular underlying rhythm interrupted by an ectopic
Rate: 65 beats per minute (rate changes after the ectopic because sinus firing mechanism resets itself)
P Waves: uniform in underlying rhythm; shape differs in ectopic
PRi: .16 seconds and constant; .20 seconds in ectopic
QRS: .10 seconds
Interp: Sinus Rhythm with one PAC
- 5.11 **Regularity:** irregular
Rate: atrial rate 300 beats per minute; ventricular rate approximately 130 beats per minute
P Waves: uniform; sawtooth appearance
PRi: none
QRS: .08 seconds
Interp: Atrial Flutter with variable response
- 5.12 **Regularity:** irregular
Rate: approximately 80 beats per minute
P Waves: not discernible
PRi: none
QRS: .10 seconds
Interp: controlled Atrial Fibrillation
- 5.13 **Regularity:** regular
Rate: atrial rate is 332 beats per minute; ventricular rate is 83 beats per minute
P Waves: uniform; sawtooth in appearance
PRi: none
QRS: .08 seconds
Interp: Atrial Flutter with 4:1 response
- 5.14 **Regularity:** regular
Rate: atrial rate is 300 beats per minute; ventricular rate is 75 beats per minute
P Waves: uniform; there are four P waves for every QRS complex
PRi: none
QRS: .10 seconds
Interp: Atrial Flutter with 4:1 response
- 5.15 **Regularity:** irregular
Rate: approximately 40 beats per minute
P Waves: shape changes
PRi: varies from .12-.20 seconds; not constant
QRS: .08 seconds
Interp: Wandering Pacemaker

- 5.16 **Regularity:** irregular
Rate: approximately 80 beats per minute
P Waves: not visible; only undulations are present
PRI: none
QRS: .04 seconds
Interp: controlled Atrial Fibrillation
- 5.17 **Regularity:** regular
Rate: atrial rate is 334 beats per minute; ventricular rate is 166 beats per minute
P Waves: uniform; sawtooth appearance; two P waves for every QRS complex
PRI: none
QRS: .10 seconds; slightly obscured by Flutter waves
Interp: Atrial Flutter with 2:1 response
- 5.18 **Regularity:** irregular
Rate: approximately 120 beats per minute
P Waves: not discernible; only undulations are present
PRI: none
QRS: .08 seconds
Interp: uncontrolled Atrial Fibrillation
- 5.19 **Regularity:** irregular
Rate: approximately 70 beats per minute
P Waves: not discernible; only fine undulations are present
PRI: none
QRS: .04 seconds
Interp: controlled Atrial Fibrillation
- 5.20 **Regularity:** irregular
Rate: approximately 110 beats per minute
P Waves: what appear to be P waves do not map out; they are actually coarse fibrillatory waves
PRI: none
QRS: .06 seconds; QRS complexes are obscured by fibrillatory waves
Interp: uncontrolled Atrial Fibrillation
- 5.21 **Regularity:** irregular
Rate: approximately 150 beats per minute
P Waves: unable to map out; undulations present
PRI: none
QRS: .06 seconds (QRS complexes are obscured by fibrillatory waves)
Interp: uncontrolled Atrial Fibrillation
- 5.22 **Regularity:** irregular
Rate: approximately 40 beats per minute
P Waves: shapes change; P-P interval is irregular
PRI: varies (.12-.16 seconds)
QRS: .08 seconds
Interp: Wandering Pacemaker
- 5.23 **Regularity:** irregular
Rate: 80 beats per minute
P Waves: undulations present
PRI: unable
QRS: .08 seconds
Interp: Atrial Fibrillation, controlled

- 5.24 **Regularity:** regular underlying rhythm interrupted by ectopic
Rate: 50 beats per minute
P Waves: upright and uniform
PR: .16 seconds
QRS: .14 seconds
Interp: Sinus Bradycardia (with wide QRS) with one PAC
- 5.25 **Regularity:** irregular
Rate: atrial rate 300 beats per minute; ventricular rate 80 beats per minute
P Waves: sawtooth appearance
PR: unable
QRS: .10 seconds
Interp: Atrial Flutter with variable response
- 5.26 **Regularity:** irregular
Rate: 100 beats per minute
P Waves: undulations present
PR: unable
QRS: .14 seconds
Interp: Atrial Fibrillation (with wide QRS)
- 5.27 **Regularity:** regular underlying rhythm interrupted by ectopic
Rate: 65 beats per minute in underlying rhythm; 70 beats per minute overall
P Waves: upright and uniform
PR: .18 seconds
QRS: .11 seconds
Interp: Sinus Rhythm with one PAC
- 5.28 **Regularity:** regular
Rate: atrial rate 250 beats per minute; ventricular rate 125 beats per minute
P Waves: sawtooth appearance
PR: unable
QRS: .08 seconds
Interp: Atrial Flutter with 2:1 response
- 5.29 **Regularity:** irregular
Rate: 120 beats per minute
P Waves: none visible
PR: unable
QRS: .10 seconds
Interp: Atrial Fibrillation, uncontrolled
- 5.30 **Regularity:** regular
Rate: atrial rate 284 beats per minute; ventricular rate 71 beats per minute
P Waves: sawtooth appearance
PR: unable
QRS: .08 seconds
Interp: Atrial Flutter with 4:1 response
- 5.31 **Regularity:** irregular
Rate: 50 beats per minute
P Waves: none visible
PR: unable
QRS: .08 seconds
Interp: Atrial Fibrillation, controlled

- 5.32 **Regularity:** irregular
Rate: atrial rate 300 beats per minute; ventricular rate 150 beats per minute
P Waves: sawtooth appearance
PRI: unable
QRS: .08 seconds
Interp: Atrial Flutter with variable response, uncontrolled
- 5.33 **Regularity:** regular underlying rhythm interrupted by ectopic
Rate: 50 beats per minute in underlying rhythm
P Waves: upright in underlying rhythm; morphology changes in ectopic
PRI: .16 seconds
QRS: .10 seconds
Interp: Sinus Bradycardia (with wide QRS) with one PAC
- 5.34 **Regularity:** regular
Rate: atrial rate 272 beats per minute; ventricular rate 136 beats per minute
P Waves: sawtooth
PRI: unable
QRS: .08 seconds
Interp: Atrial Flutter with 2:1 response
- 5.35 **Regularity:** irregular
Rate: 110 beats per minute
P Waves: none visible
PRI: unable
QRS: .08 seconds
Interp: Atrial Fibrillation, uncontrolled
- 5.36 **Regularity:** irregular
Rate: 140 beats per minute
P Waves: undulations present
PRI: unable
QRS: .08 seconds
Interp: Atrial Fibrillation, uncontrolled
- 5.37 **Regularity:** regular underlying rhythm interrupted by ectopic
Rate: 88 beats per minute
P Waves: upright and uniform
PRI: .14 seconds
QRS: .10 seconds
Interp: Sinus Rhythm with one PAC
- 5.38 **Regularity:** regular
Rate: atrial rate 272 beats per minute; ventricular rate 136 beats per minute
P Waves: sawtooth
PRI: unable
QRS: .10 seconds
Interp: Atrial Flutter with 2:1 response
- 5.39 **Regularity:** irregular in a pattern of grouped beating
Rate: 80 beats per minute (including ectopics)
P Waves: upright and uniform
PRI: .12 seconds
QRS: .08 seconds (both underlying rhythm and ectopics)
Interp: Sinus Rhythm with bigeminy of PACs

- 5.40 **Regularity:** regular
Rate: atrial rate 272 beats per minute; ventricular rate 136 beats per minute
P Waves: sawtooth appearance
PRI: unable
QRS: .12 seconds
Interp: Atrial Flutter with 2:1 response (with wide QRS)
- 5.41 **Regularity:** regular
Rate: atrial rate 316 beats per minute; ventricular rate 79 beats per minute
P Waves: sawtooth appearance
PRI: unable
QRS: .08 seconds
Interp: Atrial Flutter with 4:1 response
- 5.42 **Regularity:** regular underlying rhythm interrupted by ectopic
Rate: 65 beats per minute
P Waves: upright and uniform
PRI: .14 seconds
QRS: .08 seconds
Interp: Sinus Rhythm with one PAC
- 5.43 **Regularity:** irregular
Rate: 110 beats per minute
P Waves: none visible; cannot map out
PRI: unable
QRS: .10 seconds
Interp: Atrial Fibrillation, uncontrolled
- 5.44 **Regularity:** regular underlying rhythm interrupted by ectopic
Rate: 54 beats per minute
P Waves: upright and uniform
PRI: .16 seconds
QRS: .08 seconds
Interp: Sinus Bradycardia with one PAC
- 5.45 **Regularity:** regular
Rate: atrial rate 200 beats per minute; ventricular rate 100 beats per minute
P Waves: sawtooth appearance
PRI: unable
QRS: .08 seconds
Interp: Atrial Flutter with 2:1 response
- 5.46 **Regularity:** irregular
Rate: 70 beats per minute
P Waves: none visible
PRI: unable
QRS: .10 seconds
Interp: Atrial Fibrillation, controlled
- 5.47 **Regularity:** regular
Rate: atrial rate 272 beats per minute; ventricular rate 136 beats per minute
P Waves: sawtooth appearance
PRI: unable
QRS: .08 seconds
Interp: Atrial Flutter with 2:1 response

- 5.48 **Regularity:** regular underlying rhythm interrupted by ectopics
Rate: 65 beats per minute
P Waves: upright and uniform
PRI: .16 seconds
QRS: .08 seconds
Interp: Sinus Rhythm with run of three PACs
- 5.49 **Regularity:** irregular
Rate: 100 beats per minute
P Waves: undulations present
PRI: unable
QRS: .08 seconds
Interp: Atrial Fibrillation, controlled
- 5.50 **Regularity:** regular underlying rhythm interrupted by ectopic
Rate: 125 beats per minute
P Waves: upright and uniform
PRI: .12 seconds
QRS: .08 seconds (in both underlying rhythm and ectopic)
Interp: Sinus Tachycardia with one PAC
- 5.51 **Regularity:** regular
Rate: atrial rate 332 beats per minute; ventricular rate 166 beats per minute
P Waves: sawtooth appearance
PRI: unable
QRS: .11 seconds
Interp: Atrial Flutter with 2:1 response
- 5.52 **Regularity:** regular underlying rhythm interrupted by ectopic
Rate: 65 beats per minute
P Waves: upright and uniform
PRI: .16 seconds
QRS: .08 seconds (in both underlying rhythm and ectopic)
Interp: Sinus Rhythm with one PAC
- 5.53 **Regularity:** regular underlying rhythm interrupted by ectopic
Rate: 71 beats per minute
P Waves: upright and uniform
PRI: .16 seconds
QRS: .08 seconds (in both underlying rhythm and ectopic)
Interp: Sinus Rhythm with one PAC
- 5.54 **Regularity:** regular underlying rhythm interrupted by ectopic
Rate: 68 beats per minute
P Waves: upright and uniform
PRI: .16 seconds
QRS: .10 seconds (in both underlying rhythm and ectopic)
Interp: Sinus Rhythm with one PAC
- 5.55 **Regularity:** irregular
Rate: atrial rate 300 beats per minute; ventricular rate 90 beats per minute
P Waves: sawtooth appearance
PRI: unable
QRS: .08 seconds
Interp: Atrial Flutter with variable response
- 5.56 **Regularity:** slightly irregular
Rate: 80 beats per minute

P Waves: changing morphology
PRI: varies
QRS: .10 seconds
interp: Wandering Pacemaker

5.57

Regularity: regular
Rate: atrial rate 376 beats per minute; ventricular rate 188 beats per minute
P Waves: sawtooth appearance
PRI: unable
QRS: .08 seconds
interp: Atrial Flutter with 2:1 response

- 6.1 **Regularity:** regular underlying rhythm interrupted by an ectopic
Rate: 107 beats per minute
P Waves: uniform P waves except one missing before ectopic QRS
PRI: .16 seconds and constant
QRS: .08 seconds; QRS of ectopic beat is same size and shape as QRS of underlying rhythm
Interp: Sinus Tachycardia with one PJC
- 6.2 **Regularity:** regular
Rate: 83 beats per minute
P Waves: no visible P waves
PRI: none
QRS: .08 seconds
Interp: Accelerated Junctional Rhythm
- 6.3 **Regularity:** regular
Rate: 100 beats per minute
P Waves: all P waves are inverted
PRI: .12 seconds and constant
QRS: .06 seconds
Interp: Junctional Tachycardia
- 6.4 **Regularity:** regular
Rate: 43 beats per minute
P Waves: no visible P waves
PRI: none
QRS: .08 seconds
Interp: Junctional Escape Rhythm
- 6.5 **Regularity:** slightly irregular underlying rhythm interrupted by an ectopic
Rate: 50 beats per minute
P Waves: uniform, upright P waves; one inverted P wave before ectopic QRS
PRI: .16 seconds and constant for underlying rhythm; .12 seconds for ectopic
QRS: .08 seconds; QRS of ectopic is same shape and width as QRS of underlying rhythm
Interp: Sinus Bradycardia with one PJC
- 6.6 **Regularity:** regular
Rate: 71 beats per minute
P Waves: no visible P waves
PRI: none
QRS: .10 seconds
Interp: Accelerated Junctional Rhythm
- 6.7 **Regularity:** regular
Rate: 167 beats per minute
P Waves: P waves are not visible
PRI: none
QRS: .06 seconds
Interp: Supraventricular Tachycardia

- 6.8 **Regularity:** regular
Rate: 79 beats per minute
P Waves: no visible P waves
PRI: none
QRS: .06 seconds
Interp: Accelerated Junctional Rhythm
- 6.9 **Regularity:** regular
Rate: 214 beats per minute
P Waves: P waves are not visible
PRI: none
QRS: .08 seconds
Interp: Supraventricular Tachycardia
- 6.10 **Regularity:** regular underlying rhythm interrupted by an ectopic
Rate: 81 beats per minute
P Waves: uniform and upright except for one inverted P wave in front of ectopic QRS
PRI: .16 seconds and constant for underlying rhythm; .12 seconds for ectopic
QRS: .08 seconds for both underlying rhythm and ectopic
Interp: Sinus Rhythm with one PJC
- 6.11 **Regularity:** regular
Rate: 150 beats per minute
P Waves: P waves are not visible
PRI: none
QRS: .10 seconds
Interp: Supraventricular Tachycardia
- 6.12 **Regularity:** regular
Rate: 43 beats per minute
P Waves: P waves are not visible
PRI: none
QRS: .10 seconds
Interp: Junctional Escape Rhythm
- 6.13 **Regularity:** regular
Rate: 88 beats per minute
P Waves: inverted and uniform P waves
PRI: .12 seconds and constant
QRS: .10 seconds
Interp: Accelerated Junctional Rhythm
- 6.14 **Regularity:** regular
Rate: 50 beats per minute
P Waves: none visible
PRI: unable
QRS: .14 seconds
Interp: Junctional Escape Rhythm (with wide QRS)
- 6.15 **Regularity:** regular
Rate: 188 beats per minute
P Waves: inverted following QRS
PRI: unable
QRS: .08 seconds
Interp: Junctional Tachycardia

- 6.16** **Regularity:** regular
Rate: 188 beats per minute
P Waves: unable
PRI: unable
QRS: .08 seconds
Interp: Supraventricular Tachycardia (with baseline artifact)
- 6.17** **Regularity:** regular (slightly irregular)
Rate: 140 beats per minute
P Waves: none visible
PRI: unable
QRS: .08 seconds
Interp: Junctional Tachycardia
- 6.18** **Regularity:** slightly irregular
Rate: 44 beats per minute
P Waves: none visible
PRI: none
QRS: .08 seconds
Interp: Junction Escape Rhythm
- 6.19** **Regularity:** regular
Rate: 75 beats per minute
P Waves: none visible
PRI: unable
QRS: .08 seconds
Interp: Accelerated Junctional Rhythm
- 6.20** **Regularity:** regular underlying rhythm interrupted by ectopic
Rate: 56 beats per minute
P Waves: upright in underlying rhythm
PRI: .16 seconds
QRS: .08 seconds
Interp: Sinus Bradycardia with one PJC
- 6.21** **Regularity:** regular
Rate: 188 beats per minute
P Waves: unable
PRI: unable
QRS: .08 seconds
Interp: Supraventricular Tachycardia
- 6.22** **Regularity:** regular
Rate: 71 beats per minute
P Waves: none visible
PRI: unable
QRS: .08 seconds
Interp: Accelerated Junctional Rhythm
- 6.23** **Regularity:** regular
Rate: 167 beats per minute
P Waves: upright and uniform
PRI: unable
QRS: .08 seconds
Interp: Supraventricular Tachycardia

- 6.24 **Regularity:** regular
Rate: 125 beats per minute
P Waves: none visible
PRI: unable
QRS: .10 seconds
Interp: Junctional Tachycardia
- 6.25 **Regularity:** slightly irregular
Rate: 58 beats per minute
P Waves: none visible
PRI: unable
QRS: .08 seconds
Interp: Junctional Escape Rhythm
- 6.26 **Regularity:** regular underlying rhythm interrupted by ectopic
Rate: 45 beats per minute
P Waves: upright in underlying rhythm; absent in ectopic
PRI: .12 seconds
QRS: .10 seconds (in both underlying rhythm and ectopic)
Interp: Sinus Bradycardia with one PJC
- 6.27 **Regularity:** regular
Rate: 45 beats per minute
P Waves: none
PRI: unable
QRS: .08 seconds
Interp: Junctional Escape Rhythm
- 6.28 **Regularity:** regular
Rate: 214 beats per minute
P Waves: unable
PRI: unable
QRS: .08 seconds
Interp: Supraventricular Tachycardia
- 6.29 **Regularity:** regular
Rate: 58 beats per minute
P Waves: none
PRI: unable
QRS: .08 seconds
Interp: Junctional Escape Rhythm
- 6.30 **Regularity:** regular underlying rhythm interrupted by ectopics
Rate: 54 beats per minute
P Waves: upright in underlying rhythm
PRI: .16 seconds
QRS: .08 seconds (in both underlying rhythm and ectopics)
Interp: Sinus Bradycardia with two PJCs
- 6.31 **Regularity:** regular
Rate: 79 beats per minute
P Waves: none
PRI: unable
QRS: .08 seconds
Interp: Accelerated Junctional Rhythm

- 6.32** **Regularity:** regular
Rate: 150 beats per minute
P Waves: unable
PRI: unable
QRS: .08 seconds
Interp: Supraventricular Tachycardia
- 6.33** **Regularity:** regular
Rate: 150 beats per minute
P Waves: unable
PRI: unable
QRS: .10 seconds
Interp: Supraventricular Tachycardia
- 6.34** **Regularity:** regular
Rate: 214 beats per minute
P Waves: unable
PRI: unable
QRS: .08 seconds
Interp: Supraventricular Tachycardia
- 6.35** **Regularity:** irregular in a pattern of grouped beating
Rate: 100 beats per minute (including ectopics)
P Waves: upright in underlying rhythm; absent in ectopics
PRI: .14 seconds
QRS: .08 seconds in underlying rhythm; .10 seconds in ectopics
Interp: Sinus Rhythm with bigeminy of PJC's
- 6.36** **Regularity:** regular
Rate: 100 beats per minute
P Waves: inverted before every QRS complex
PRI: .08 seconds
QRS: .08 seconds
Interp: Accelerated Junctional Rhythm
- 6.37** **Regularity:** regular
Rate: 150 beats per minute
P Waves: unable
PRI: unable
QRS: .12 seconds
Interp: Supraventricular Tachycardia
- 6.38** **Regularity:** regular
Rate: 79 beats per minute
P Waves: none
PRI: unable
QRS: .10 seconds
Interp: Accelerated Junctional Rhythm
- 6.39** **Regularity:** regular
Rate: 150 beats per minute
P Waves: unable
PRI: unable
QRS: .10 seconds
Interp: Supraventricular Tachycardia

6.40 **Regularity:** regular underlying rhythm interrupted by ectopic
Rate: 75 beats per minute
P Waves: upright in underlying rhythm; absent in ectopic
PRI: .16 seconds
QRS: .08 seconds (in both underlying rhythm and ectopic)
Interp: Sinus Rhythm with one PJC

6.41 **Regularity:** regular
Rate: 214 beats per minute
P Waves: unable
PRI: unable
QRS: .08 seconds
Interp: Supraventricular Tachycardia

- 7.1** **Regularity:** regular
Rate: 51 beats per minute
P Waves: uniform and upright; regular P-P interval
PRI: .24 seconds and constant
QRS: .10 seconds
Interp: Sinus Bradycardia with First Degree Heart Block
- 7.2** **Regularity:** irregular with a pattern of grouped beating
Rate: atrial rate 115 beats per minute; ventricular rate approximately 90 beats per minute
P Waves: uniform; regular P-P intervals; more P waves than QRS complexes
PRI: changes; progressively lengthens from .20 seconds to .32 seconds
QRS: .08 seconds
Interp: Wenckebach (Type I Second Degree Heart Block)
- 7.3** **Regularity:** regular
Rate: atrial rate 157 beats per minute; ventricular rate 33 beats per minute
P Waves: uniform; regular P-P intervals; more P waves than QRS complexes
PRI: P waves are not associated with QRS complexes
QRS: .12 seconds
Interp: Third Degree Heart Block (CHB) with ventricular escape focus
- 7.4** **Regularity:** regular
Rate: atrial rate 115 beats per minute; ventricular rate 73 beats per minute
P Waves: non-conducted P waves are more apparent after mapping the P-P interval, since some P waves are hidden within the QRS complexes and T waves
PRI: P waves are not associated with QRS complexes
QRS: .08 seconds
Interp: Third Degree Heart Block (CHB) with junctional escape focus
- 7.5** **Regularity:** regular
Rate: 88 beats per minute
P Waves: uniform and upright; regular P-P interval
(Note: P wave of last complex is distorted by artifact.)
PRI: .26 seconds and constant
QRS: .12 seconds
Interp: Sinus Rhythm with First Degree Heart Block (with wide QRS)
- 7.6** **Regularity:** irregular with a pattern of grouped beating
Rate: atrial rate 100 beats per minute; ventricular rate 80 beats per minute
P Waves: uniform; regular P-P interval
PRI: changing; progressively lengthens from .16 seconds to .24 seconds
QRS: .08 seconds
Interp: Wenckebach (Type I Second Degree Heart Block)
- 7.7** **Regularity:** irregular with a pattern of grouped beating
Rate: atrial rate 75 beats per minute; ventricular rate approximately 60 beats per minute
P Waves: uniform; regular P-P interval; more P waves than QRS complexes
PRI: changing; progressively lengthens from .20 seconds to .30 seconds

- QRS:** .06 seconds
Interp: Wenckebach (Type I Second Degree Heart Block)
- 7.8 **Regularity:** regular
Rate: atrial rate 120 beats per minute; ventricular rate 60 beats per minute
P Waves: uniform and upright; regular P-P interval; consistently two P waves for every QRS complex
PRI: .38 seconds and constant on conducted beats
QRS: .10 seconds
Interp: Type II Second Degree Heart Block with 2:1 conduction
- 7.9 **Regularity:** irregular with a pattern of grouped beating
Rate: atrial rate 125 beats per minute; ventricular rate approximately 80 beats per minute
P Waves: uniform; regular P-P interval; more P waves than QRS complexes
PRI: changing; progressively lengthens from .20 seconds to .28 seconds
QRS: .12 seconds
Interp: Wenckebach (Type I Second Degree Heart Block) (with wide QRS)
- 7.10 **Regularity:** irregular (see note)
Rate: atrial rate 63 beats per minute; ventricular rate approximately 25 beats per minute
P Waves: uniform; regular P-P intervals; more P waves than QRS complexes
PRI: the P waves are not associated with the QRS complexes
QRS: .20 seconds
Interp: Third Degree Heart Block (CHB) with ventricular escape focus.
Note: The ventricular pacemaker site usually has a regular firing mechanism; but if a dangerous ventricular rhythm is allowed to continue untreated, its serious effects on the myocardium will ultimately cause the firing site to slow or die out. In this strip, the change in ventricular rate demonstrates this slowing phenomenon.
- 7.11 **Regularity:** regular
Rate: 75 beats per minute
P Waves: uniform; regular P-P interval
PRI: .30 seconds and constant
QRS: .14 seconds
Interp: Sinus Rhythm with First Degree Heart Block (with wide QRS)
- 7.12 **Regularity:** regular
Rate: atrial rate 74 beats per minute; ventricular rate 37 beats per minute
P Waves: uniform; regular P-P interval; consistently two P waves for every QRS complex
PRI: .26 seconds and constant on conducted beats
QRS: .12 seconds
Interp: Type II Second Degree Heart Block with 2:1 conduction
- 7.13 **Regularity:** irregular with a pattern of grouped beating
Rate: atrial rate 83 beats per minute; ventricular rate approximately 60 beats per minute
P Waves: uniform; regular P-P interval
PRI: changes; progressively lengthens from .28 seconds to .48 seconds
QRS: .06 seconds
Interp: Wenckebach (Type I Second Degree Heart Block)

- 7.14** **Regularity:** regular
Rate: atrial rate 100 beats per minute; ventricular rate 35 beats per minute
P Waves: uniform; regular P-P interval; more P waves than QRS complexes
PRI: the P waves are not associated with the QRS complexes
QRS: .12 seconds
Interp: Third Degree Heart Block (CHB) with ventricular escape focus
- 7.15** **Regularity:** regular
Rate: 65 beats per minute
P Waves: uniform and upright; regular P-P interval
PRI: .26 seconds and constant
QRS: .10 seconds
Interp: Sinus Rhythm with First Degree Heart Block
- 7.16** **Regularity:** slightly irregular
Rate: atrial rate 64 beats per minute; ventricular rate 32 beats per minute
P Waves: uniform; slight irregularity of the P-P interval (see note); consistently two P waves for every QRS complex
PRI: .20 seconds
QRS: .12 seconds
Interp: Type II Second Degree Heart Block with 2:1 conduction
Note: A rhythm with a consistent 2:1 conduction ratio usually produces a regular rhythm. In this strip, however, the presence of an underlying sinus arrhythmia results in an irregular P-P, with an ultimate irregularity of the ventricular response.
- 7.17** **Regularity:** regular
Rate: atrial rate 100 beats per minute; ventricular rate 24 beats per minute
P Waves: uniform; regular P-P interval; more P waves than QRS complexes
PRI: the P waves are not associated with the QRS complexes
QRS: .08 seconds
Interp: Third Degree Heart Block (CHB) with a junctional escape focus
Note: The ventricular rate in this strip is slower than the usual junctional rate, but the QRS measurement of .08 seconds could not have been produced by a ventricular pacemaker; thus, the escape focus must have been junctional.
- 7.18** **Regularity:** irregular with a pattern of grouped beating
Rate: atrial rate 107 beats per minute; ventricular rate approximately 90 beats per minute
P Waves: uniform; regular P-P interval; more P waves than QRS complexes
PRI: changes; progressively lengthens from .20 seconds to .36 seconds
QRS: .10 seconds
Interp: Wenckebach—Type I Second Degree Heart Block
- 7.19** **Regularity:** regular
Rate: 54 beats per minute
P Waves: upright and uniform
PRI: .24 seconds and constant
QRS: .16 seconds
Interp: Sinus Bradycardia with First Degree Heart Block (with wide QRS)
- 7.20** **Regularity:** regular P-P; irregular R-R
Rate: atrial rate 107 beats per minute; ventricular rate 90 beats per minute
P Waves: upright and uniform
PRI: progressively lengthens until one P wave is not conducted
QRS: .08 seconds
Interp: Wenckebach—Type I Second Degree Heart Block

- 7.21 **Regularity:** regular R-R; regular P-P
Rate: atrial rate 56 beats per minute; ventricular rate 36 beats per minute
P Waves: upright and uniform
PRi: not related
QRS: .16 seconds
Interp: Third Degree Heart Block (CHB) with ventricular escape focus
- 7.22 **Regularity:** regular
Rate: 83 beats per minute
P Waves: upright and uniform
PRi: .22 seconds and constant
QRS: .10 seconds
Interp: Sinus Rhythm with First Degree Heart Block
- 7.23 **Regularity:** regular
Rate: 65 beats per minute
P Waves: upright and uniform
PRi: .24 seconds and constant
QRS: .08 seconds
Interp: Sinus Rhythm with First Degree Heart Block
- 7.24 **Regularity:** regular P-P; regular R-R
Rate: atrial rate 43 beats per minute; ventricular rate 31 beats per minute
P Waves: upright and uniform
PRi: unrelated; P waves "march through" QRS complexes
QRS: .10 seconds
Interp: Third Degree Heart Block (CHB) with junctional escape focus
- 7.25 **Regularity:** regular P-P; irregular R-R
Rate: atrial rate 65 beats per minute; ventricular rate 40 beats per minute
P Waves: upright and uniform
PRi: .20 seconds and constant on conducted beats
QRS: .08 seconds
Interp: Type II Second Degree Heart Block with variable conduction
- 7.26 **Regularity:** slightly irregular
Rate: 83 beats per minute
P Waves: upright and uniform
PRi: .24 seconds and constant
QRS: .08 seconds
Interp: Sinus Rhythm with First Degree Heart Block
- 7.27 **Regularity:** regular
Rate: 65 beats per minute
P Waves: upright and uniform
PRi: .24 seconds and constant
QRS: .08 seconds
Interp: Sinus Rhythm with First Degree Heart Block
- 7.28 **Regularity:** irregular
Rate: 62 beats per minute
P Waves: upright and uniform
PRi: .24 seconds and constant
QRS: .10 seconds
Interp: Sinus Arrhythmia with First Degree Heart Block
- 7.29 **Regularity:** regular P-P; irregular R-R
Rate: atrial rate 79 beats per minute; ventricular rate 60 beats per minute

- P Waves:** upright and uniform
PRI: progressively lengthens until one P wave is not conducted
QRS: .08 seconds
Interp: Wenckebach—Type I Second Degree Heart Block
- 7.30** **Regularity:** regular
Rate: 65 beats per minute
P Waves: upright and uniform
PRI: .24 seconds and constant
QRS: .10 seconds
Interp: Sinus Rhythm with First Degree Heart Block
- 7.31** **Regularity:** regular
Rate: 52 beats per minute
P Waves: upright and uniform
PRI: .24 seconds and constant
QRS: .08 seconds
Interp: Sinus Bradycardia with First Degree Heart Block
- 7.32** **Regularity:** P-P very slightly irregular; R-R irregular
Rate: atrial rate 79 beats per minute; ventricular rate 70 beats per minute
P Waves: upright and uniform
PRI: progressively lengthens until one P wave is not conducted
QRS: .12 seconds
Interp: Wenckebach—Type I Second Degree Heart Block (with wide QRS)
- 7.33** **Regularity:** regular P-P
Rate: atrial rate 60 beats per minute; ventricular rate 20 beats per minute
P Waves: upright and uniform
PRI: P waves unrelated to QRS complexes
QRS: .12 seconds
Interp: Third Degree Heart Block (CHB) with ventricular escape focus
- 7.34** **Regularity:** regular
Rate: 88 beats per minute
P Waves: upright and uniform
PRI: .24 seconds and constant
QRS: .10 seconds
Interp: Sinus Rhythm with First Degree Heart Block
- 7.35** **Regularity:** regular
Rate: 35 beats per minute
P Waves: upright and uniform
PRI: .28 seconds and constant
QRS: .16 seconds
Interp: Sinus Bradycardia with First Degree Heart Block (with wide QRS)
- 7.36** **Regularity:** regular P-P; regular R-R
Rate: atrial rate 107 beats per minute; ventricular rate 58 beats per minute
P Waves: upright and uniform
PRI: P waves unrelated to QRS complexes; more P waves than QRS complexes
QRS: .10 seconds
Interp: Third Degree Heart Block (CHB) with junctional escape focus
- 7.37** **Regularity:** regular P-P; regular R-R
Rate: atrial rate 115 beats per minute; ventricular rate 65 beats per minute
P Waves: upright; two P waves for every QRS complex

- PRI:** .28 seconds and constant on conducted beats
QRS: .08 seconds
Interp: Type II Second Degree Heart Block with 2:1 conduction
- 7.38** **Regularity:** regular P-P; irregular R-R
Rate: atrial rate 115 beats per minute; ventricular rate 90 beats per minute
P Waves: upright and uniform; more P waves than QRS complexes
PRI: progressively lengthens until one P wave is not conducted
QRS: .08 seconds
Interp: Wenckebach—Type I Second Degree Heart Block
- 7.39** **Regularity:** slightly irregular P-P; regular R-R
Rate: atrial rate 88 beats per minute; ventricular rate 32 beats per minute
P Waves: upright and uniform
PRI: P waves unrelated to QRS complexes; P waves “march through” QRS complexes
QRS: .08 seconds
Interp: Third Degree Heart Block (CHB) with junctional escape focus
- 7.40** **Regularity:** regular P-P; regular R-R
Rate: atrial rate 94 beats per minute; ventricular rate 47 beats per minute
P Waves: upright and uniform
PRI: .24 seconds and constant on conducted beats; more P waves than QRS complexes
QRS: .06 seconds
Interp: Type II Second Degree Heart Block with 2:1 conduction
- 7.41** **Regularity:** regular P-P; regular R-R
Rate: atrial rate 88 beats per minute; ventricular rate 68 beats per minute
P Waves: upright and uniform
PRI: P waves unrelated to QRS complexes; P waves “march through” QRS complexes
QRS: .10 seconds
Interp: Third Degree Heart Block (CHB) with junctional escape focus

- 8.1** **Regularity:** regular underlying rhythm interrupted by ectopics
Rate: 75 beats per minute
P Waves: uniform; regular P-P interval
PRI: .18 seconds
QRS: .12 seconds in underlying complex; .12 seconds in ectopics; ectopics have bizarre configuration
Interp: Sinus Rhythm (with wide QRS) with two PVCs
- 8.2** **Regularity:** regular underlying rhythm interrupted by ectopics in a pattern of grouped beating
Rate: 39 beats per minute according to visible P waves; true sinus rate is probably 78 beats per minute
P Waves: uniform; regular P-P interval
PRI: .18 seconds
QRS: .08 seconds in underlying rhythm; .14 seconds in ectopic
Interp: Sinus Rhythm with bigeminy of PVCs
- 8.3** **Regularity:** regular underlying rhythm interrupted by an ectopic
Rate: 58 beats per minute
P Waves: uniform; regular P-P interval
PRI: .20 seconds
QRS: .10 seconds in underlying rhythm; .18 seconds in ectopic; ectopic has bizarre configuration
Interp: Sinus Bradycardia with one PVC
- 8.4** **Regularity:** slightly irregular
Rate: approximately 170 beats per minute
P Waves: not visible
PRI: none
QRS: .12 seconds; configuration is bizarre
Interp: Ventricular Tachycardia
- 8.5** **Regularity:** regular underlying rhythm interrupted by ectopics
Rate: 79 beats per minute (underlying rhythm)
P Waves: uniform; regular P-P interval
PRI: .16 seconds
QRS: .06 seconds in underlying rhythm; .20 seconds in ectopics; ectopics have bizarre configuration
Interp: Sinus Rhythm with three unifocal PVCs (possibly trigeminy)
- 8.6** **Regularity:** totally chaotic baseline
Rate: cannot be determined
P Waves: none
PRI: none
QRS: none
Interp: Ventricular Fibrillation
- 8.7** **Regularity:** regular underlying rhythm interrupted by ectopics
Rate: 107 beats per minute (underlying rhythm)
P Waves: uniform; regular P-P interval interrupted by ectopics
PRI: .14 seconds

- QRS:** .10 seconds in underlying rhythm; .14 seconds in ectopics; ectopics have bizarre configuration
interp: Sinus Rhythm with two unifocal PVCs and a short burst of Ventricular Tachycardia
- 8.8** **Regularity:** regular
Rate: 167 beats per minute
P Waves: not visible
PRI: none
QRS: .16 seconds; bizarre configuration
Interp: Ventricular Tachycardia
- 8.9** **Regularity:** regular underlying rhythm interrupted by ectopics
Rate: 83 beats per minute
P Waves: uniform; regular P-P interval
PRI: .16 seconds
QRS: .14 seconds in underlying rhythm; .16 seconds in ectopics; ectopics have bizarre configuration
interp: Sinus Rhythm (with wide QRS) with two multifocal PVCs
- 8.10** **Regularity:** regular
Rate: 150 beats per minute
P Waves: not visible
PRI: none
QRS: .20 seconds; bizarre configuration
interp: Ventricular Tachycardia
- 8.11** **Regularity:** regular underlying rhythm interrupted by ectopics
Rate: 100 beats per minute
P Waves: uniform; regular P-P interval
PRI: .14 seconds
QRS: .06 seconds in underlying rhythm; .12 seconds in ectopics; ectopics have bizarre configuration
Interp: Sinus Tachycardia with three unifocal PVCs
- 8.12** **Regularity:** regular
Rate: 167 beats per minute
P Waves: not visible
PRI: none
QRS: .16 seconds; bizarre configuration
interp: Ventricular Tachycardia
- 8.13** **Regularity:** regular underlying rhythm interrupted by ectopics in a pattern of grouped beating
Rate: 38 beats per minute according to visible P waves; true sinus rate is probably 76 beats per minute
P Waves: uniform; regular P-P interval
PRI: .20 seconds
QRS: .10 seconds in underlying rhythm; .14 seconds in ectopics; ectopics have bizarre configuration
Interp: Sinus Rhythm with bigeminy of PVCs
- 8.14** **Regularity:** totally chaotic baseline
Rate: cannot be determined
P Waves: none
PRI: none

- QRS:** none
Interp: Ventricular Fibrillation
- 8.15** **Regularity:** regular
Rate: 40 beats per minute
P Waves: none
PRI: none
QRS: .20 seconds; bizarre configuration
Interp: Idioventricular Rhythm
- 8.16** **Regularity:** regular underlying rhythm interrupted by ectopics
Rate: 94 beats per minute
P Waves: uniform; regular P-P interval
PRI: .12 seconds
QRS: .10 seconds in underlying rhythm; .16 seconds in ectopics; ectopics have bizarre configuration; ectopics occur consecutively
Interp: Sinus Rhythm with a run of three PVCs
- 8.17** **Regularity:** regular
Rate: 150 beats per minute
P Waves: are visible through QRS complexes, but do not appear related to QRS complexes
PRI: none
QRS: .28 seconds; bizarre configuration
Interp: Ventricular Tachycardia
- 8.18** **Regularity:** totally chaotic baseline
Rate: cannot be determined
P Waves: none
PRI: none
QRS: none
Interp: Ventricular Fibrillation
- 8.19** **Regularity:** regular underlying rhythm interrupted by an ectopic
Rate: 79 beats per minute
P Waves: uniform; regular P-P interval
PRI: .16 seconds
QRS: .08 seconds
Interp: Sinus Rhythm with one PVC
- 8.20** **Regularity:** totally chaotic baseline
Rate: cannot be determined
P Waves: none
PRI: none
QRS: none
Interp: Ventricular Fibrillation
- 8.21** **Regularity:** first part of rhythm is regular, but then changes into a totally chaotic pattern
Rate: 167 beats per minute (first part of strip)
P Waves: not visible
PRI: none
QRS: .20 seconds in first part of strip; cannot be identified in latter part of strip
Interp: Ventricular Tachycardia changing into Ventricular Fibrillation
- 8.22** **Regularity:** regular underlying rhythm interrupted by ectopics
Rate: 79 beats per minute

- P Waves:** uniform; regular P-P interval
PRi: .20 seconds
QRS: .10 seconds in underlying rhythm; .14 seconds in ectopics; ectopics have bizarre configuration
Interp: Sinus Rhythm with two unifocal PVCs
- 8.23 **Regularity:** regular
Rate: 42 beats per minute
P Waves: none
PRi: none
QRS: .12 seconds; bizarre configuration
Interp: Idioventricular Rhythm
- 8.24 **Regularity:** slightly irregular rhythm interrupted by ectopic
Rate: approximately 65 beats per minute
P Waves: uniform; slightly irregular P-P interval
PRi: .18 seconds and constant
QRS: .14 seconds in underlying rhythm; .16 seconds in ectopic; ectopic has bizarre configuration
Interp: Sinus Arrhythmia (with wide QRS) with one PVC
- 8.25 **Regularity:** totally chaotic baseline
Rate: cannot be determined
P Waves: none
PRi: none
QRS: none
Interp: Ventricular Fibrillation
- 8.26 **Regularity:** regular underlying rhythm interrupted by ectopics
Rate: 83 beats per minute
P Waves: uniform; regular P-P interval
PRi: .14 seconds
QRS: .12 seconds in underlying rhythm; .16 seconds in ectopics; ectopics have bizarre configuration
Interp: Sinus Rhythm (with wide QRS) with two unifocal PVCs
- 8.27 **Regularity:** regular
Rate: 37 beats per minute
P Waves: none
PRi: none
QRS: .20 seconds; bizarre configuration
Interp: Idioventricular Rhythm
- 8.28 **Regularity:** totally chaotic baseline
Rate: cannot be determined
P Waves: none
PRi: none
QRS: none
Interp: Ventricular Fibrillation
- 8.29 **Regularity:** irregular underlying rhythm interrupted by an ectopic
Rate: approximately 60 beats per minute (underlying rhythm)
P Waves: uniform; regular P-P interval
PRi: .16 seconds and constant
QRS: .10 seconds in underlying rhythm; .12 seconds in ectopic; ectopic has bizarre configuration
Interp: Sinus Rhythm with one PVC

- 8.30** **Regularity:** regular
Rate: 188 beats per minute
P Waves: none
PRI: none
QRS: .20 seconds; bizarre configuration
Interp: Ventricular Tachycardia
- 8.31** **Regularity:** regular underlying rhythm interrupted by ectopics
Rate: 94 beats per minute (underlying rhythm)
P Waves: uniform; regular P-P interval
PRI: .24 seconds and constant
QRS: .10 seconds in underlying rhythm; .12-.20 seconds in ectopics; ectopics occur consecutively; ectopics have bizarre configuration
Interp: Sinus Rhythm with First Degree Heart Block, with one PVC and run of three PVCs
- 8.32** **Regularity:** regular
Rate: 167 beats per minute
P Waves: not visible
PRI: none
QRS: .14 seconds; bizarre configuration
Interp: Ventricular Tachycardia
- 8.33** **Regularity:** regular underlying rhythm interrupted by ectopics
Rate: 83 beats per minute (underlying rhythm)
P Waves: uniform; regular P-P interval
PRI: .16 seconds
QRS: .10 seconds in underlying rhythm; .16 seconds in ectopics; ectopics have bizarre configuration
Interp: Sinus Rhythm with two unifocal PVCs
- 8.34** **Regularity:** irregular underlying rhythm interrupted by ectopics in pattern of grouped beating
Rate: approximately 30 beats per minute (underlying rhythm)
P Waves: not discernible; undulations present
PRI: none
QRS: .10 seconds in underlying rhythm; .14 seconds in ectopics; ectopics have bizarre configuration
Interp: Atrial Fibrillation with bigeminy of unifocal PVCs
- 8.35** **Regularity:** irregular
Rate: 100 beats per minute (including ectopics)
P Waves: upright in underlying rhythm; absent in ectopics
PRI: .20 seconds in underlying rhythm
QRS: .08 seconds in underlying rhythm; .14-.16 seconds in ectopics
Interp: Sinus Rhythm with four multifocal PVCs
- 8.36** **Regularity:** totally chaotic baseline
Rate: cannot be determined
P Waves: none
PRI: none
QRS: none
Interp: Ventricular Fibrillation
- 8.37** **Regularity:** irregular underlying rhythm interrupted by ectopic
Rate: 150 beats per minute (including ectopic)
P Waves: none visible

- PRI:** unable
QRS: .14 seconds in underlying rhythm; .18 seconds in ectopic
Interp: Atrial Fibrillation (with wide QRS) with rapid ventricular response and one PVC
- 8.38** **Regularity:** irregular underlying rhythm interrupted by ectopic
Rate: 180 beats per minute (including ectopic)
P Waves: none visible
PRI: unable
QRS: .10 seconds in underlying rhythm; .14 seconds in ectopic
Interp: Atrial Fibrillation with rapid ventricular response and one PVC
- 8.39** **Regularity:** irregular in a pattern of grouped beating
Rate: 80 beats per minute (including ectopic)
P Waves: upright and uniform
PRI: .12 seconds in underlying rhythm
QRS: .10 seconds in underlying rhythm; .18 seconds in ectopic
Interp: Sinus Rhythm with bigeminy of unifocal PVCs
- 8.40** **Regularity:** unable to determine
Rate: ventricular rate 20 beats per minute
P Waves: cannot be mapped out
PRI: none
QRS: .18 seconds
Interp: Idioventricular Rhythm
- 8.41** **Regularity:** slightly irregular
Rate: 150 beats per minute
P Waves: none visible
PRI: none
QRS: .20 seconds
Interp: Ventricular Tachycardia
- 8.42** **Regularity:** regular underlying rhythm interrupted by ectopics
Rate: 115 beats per minute (in underlying rhythm)
P Waves: upright in underlying rhythm
PRI: .14 seconds in underlying rhythm
QRS: .10 seconds in underlying rhythm; .16 seconds in ectopics
Interp: Sinus Tachycardia with two multifocal PVCs
- 8.43** **Regularity:** irregular underlying rhythm interrupted by ectopic
Rate: 120 beats per minute (including ectopic)
P Waves: none visible
PRI: none
QRS: .08 seconds in underlying rhythm; .16 seconds in ectopic
Interp: Atrial Fibrillation with rapid ventricular response and one PVC
- 8.44** **Regularity:** totally chaotic baseline
Rate: cannot be determined
P Waves: none
PRI: none
QRS: none
Interp: Ventricular Fibrillation
- 8.45** **Regularity:** irregular in a pattern of grouped beating
Rate: 100 beats per minute (including ectopics)
P Waves: upright in underlying rhythm

	PRI:	.14 seconds in underlying rhythm
	QRS:	.08 seconds in underlying rhythm; .16 seconds in ectopic
	Interp:	Sinus Rhythm with bigeminy of PVCs
8.46	Regularity:	slightly irregular underlying rhythm interrupted by ectopic
	Rate:	75 beats per minute
	P Waves:	upright in underlying rhythm
	PRI:	.14 seconds
	QRS:	.10 seconds in underlying rhythm; .20 seconds in ectopic
	Interp:	Sinus Rhythm with one PVC
8.47	Regularity:	irregular in a pattern of grouped beating
	Rate:	sinus rate 75 beats per minute
	P Waves:	upright in underlying rhythm
	PRI:	.14 seconds in underlying rhythm
	QRS:	.10 seconds in underlying rhythm; .16 seconds in ectopic
	Interp:	Sinus Rhythm with trigeminy of PVCs (assuming pattern continues)
8.48	Regularity:	slightly irregular underlying rhythm interrupted by ectopic
	Rate:	sinus rate 54 beats per minute
	P Waves:	upright
	PRI:	.14 seconds in underlying rhythm
	QRS:	.08 seconds in underlying rhythm; .18 seconds in ectopic
	Interp:	Sinus Bradycardia with one PVC (R on T Phenomenon)
8.49	Regularity:	totally chaotic baseline
	Rate:	cannot be determined
	P Waves:	none
	PRI:	none
	QRS:	none
	Interp:	Ventricular Fibrillation
8.50	Regularity:	regular
	Rate:	140 beats per minute
	P Waves:	none visible
	PRI:	none
	QRS:	.16 seconds
	Interp:	Ventricular Tachycardia
8.51	Regularity:	irregular underlying rhythm interrupted by ectopics
	Rate:	90 beats per minute including ectopics
	P Waves:	none visible
	PRI:	none
	QRS:	.08 seconds in underlying rhythm; .12-.16 seconds in ectopics
	Interp:	Atrial Fibrillation with controlled ventricular response with two multifocal PVCs
8.52	Regularity:	totally chaotic baseline
	Rate:	cannot be determined
	P Waves:	none
	PRI:	none
	QRS:	none
	Interp:	Ventricular Fibrillation
8.53	Regularity:	regular underlying rhythm interrupted by ectopic
	Rate:	68 beats per minute
	P Waves:	upright and uniform
	PRI:	.16 seconds

	QRS:	.14 seconds in underlying rhythm; .16 seconds in ectopic
	Interp:	Sinus Rhythm (with wide QRS) with one PVC
8.54	Regularity:	totally chaotic baseline
	Rate:	cannot be determined
	P Waves:	none
	PRI:	none
	QRS:	none
	Interp:	Ventricular Fibrillation
8.55	Regularity:	regular underlying rhythm interrupted by ectopics
	Rate:	115 beats per minute
	P Waves:	upright and uniform
	PRI:	.14 seconds
	QRS:	.08 seconds in underlying rhythm; .16 seconds in ectopics
	Interp:	Sinus Tachycardia with two unifocal PVCs
8.56	Regularity:	regular
	Rate:	167 beats per minute
	P Waves:	none visible
	PRI:	none
	QRS:	wide and bizarre; unable to measure
	Interp:	Ventricular Tachycardia
8.57	Regularity:	regular
	Rate:	35 beats per minute
	P Waves:	none
	PRI:	none
	QRS:	.16 seconds
	Interp:	Idioventricular Rhythm
8.58	Regularity:	regular underlying rhythm interrupted by ectopics
	Rate:	75 beats per minute
	P Waves:	upright and uniform
	PRI:	.20 seconds
	QRS:	.08 seconds in underlying rhythm; .14 seconds in ectopics
	Interp:	Sinus Rhythm with two unifocal PVCs, possibly quadrigeminy (if pattern continues)
8.59	Regularity:	slightly irregular
	Rate:	130 beats per minute (including ectopic)
	P Waves:	varying shapes
	PRI:	varies slightly
	QRS:	.08 seconds in underlying rhythm; .14 seconds in ectopic
	Interp:	Wandering Pacemaker (tachycardia range) with one PVC
8.60	Regularity:	P-P regular; regular ventricular rhythm interrupted by ectopic
	Rate:	atrial rate 47 beats per minute; ventricular rate 65 beats per minute
	P Waves:	upright and uniform
	PRI:	P waves unrelated to QRS complexes
	QRS:	.08 seconds in underlying rhythm; .16 seconds in ectopic
	Interp:	Third Degree Heart Block (CHB) with junctional escape focus with one PVC
8.61	Regularity:	totally chaotic baseline
	Rate:	cannot be determined
	P Waves:	none
	PRI:	none

	QRS:	none
	Interp:	Ventricular Fibrillation
8.62	Regularity:	regular underlying rhythm interrupted by ectopics
	Rate:	107 beats per minute
	P Waves:	upright in underlying rhythm; absent in ectopics
	PRI:	.14 seconds in underlying rhythm; no P waves preceding ectopics
	QRS:	.08 seconds in underlying rhythm; .12-.16 seconds in ectopic
	Interp:	Sinus Tachycardia with multiple multifocal PVCs, including a run of three PVCs
8.63	Regularity:	unable to determine
	Rate:	10 beats per minute or less
	P Waves:	none
	PRI:	none
	QRS:	.24 seconds
	Interp:	Idioventricular Rhythm
8.64	Regularity:	irregular in pattern of grouped beating
	Rate:	80 beats per minute (including ectopics)
	P Waves:	upright in underlying rhythm; absent in ectopics
	PRI:	.16 seconds
	QRS:	.10 seconds in underlying rhythm; .16 seconds in ectopics
	Interp:	Sinus Rhythm with bigeminy of PVCs
8.65	Regularity:	regular underlying rhythm interrupted by ectopics
	Rate:	83 beats per minute (underlying rhythm)
	P Waves:	upright in underlying rhythm; absent in ectopics
	PRI:	.16 seconds
	QRS:	.08 seconds in underlying rhythm; .16 seconds in ectopic
	Interp:	Sinus Rhythm with multiple unifocal PVCs, possibly quadrigeminy
8.66	Regularity:	regular underlying rhythm interrupted by ectopic
	Rate:	75 beats per minute
	P Waves:	upright in underlying rhythm; absent in ectopic
	PRI:	.20 seconds
	QRS:	.08 seconds in underlying rhythm; .14 seconds in ectopic
	Interp:	Sinus Rhythm with one PVC
8.67	Regularity:	slightly irregular underlying rhythm interrupted by ectopics
	Rate:	94 beats per minute (underlying rhythm)
	P Waves:	upright in underlying rhythm; absent in ectopics
	PRI:	.18 seconds
	QRS:	.08 seconds in underlying rhythm; .14 seconds in ectopics
	Interp:	Sinus Rhythm with multiple unifocal PVCs, possibly quadrigeminy
8.68	Regularity:	regular
	Rate:	150 beats per minute
	P Waves:	none
	PRI:	none
	QRS:	.16 seconds
	Interp:	Ventricular Tachycardia
8.69	Regularity:	slightly irregular underlying rhythm interrupted by ectopic
	Rate:	70 beats per minute (underlying rhythm)
	P Waves:	upright in underlying rhythm; absent in ectopic
	PRI:	.14 seconds

	QRS:	.10 seconds in underlying rhythm; .14 seconds in ectopic
	interp:	Sinus Rhythm with one PVC
8.70	Regularity:	regular
	Rate:	136 beats per minute
	P Waves:	cannot be determined
	PRi:	none
	QRS:	.18 seconds
	interp:	Ventricular Tachycardia
8.71	Regularity:	totally chaotic baseline
	Rate:	cannot be determined
	P Waves:	none
	PRi:	none
	QRS:	none
	Interp:	Ventricular Fibrillation
8.72	Regularity:	regular underlying rhythm interrupted by ectopics
	Rate:	68 beats per minute
	P Waves:	upright in underlying rhythm; absent in ectopics
	PRi:	.16 seconds
	QRS:	.08 seconds in underlying rhythm; .16 seconds in ectopics
	interp:	Sinus Rhythm with two unifocal PVCs
8.73	Regularity:	unable to determine
	Rate:	less than 10 beats per minute
	P Waves:	none
	PRi:	none
	QRS:	.24 seconds
	interp:	Idioventricular Rhythm ending in agonal rhythm
8.74	Regularity:	slightly irregular
	Rate:	160 beats per minute
	P Waves:	none
	PRi:	none
	QRS:	.14 seconds
	Interp:	Ventricular Tachycardia
8.75	Regularity:	grossly irregular
	Rate:	110 beats per minute (including ectopic)
	P Waves:	none
	PRi:	none
	QRS:	.08 seconds in underlying rhythm; .16 seconds in ectopic
	Interp:	Atrial Fibrillation with rapid ventricular response and one PVC
8.76	Regularity:	slightly irregular
	Rate:	160 beats per minute
	P Waves:	none mappable
	PRi:	none
	QRS:	.14 seconds
	Interp:	Ventricular Tachycardia
8.77	Regularity:	regular underlying rhythm interrupted by ectopics
	Rate:	68 beats per minute in underlying rhythm
	P Waves:	upright and uniform
	PRi:	.20 seconds
	QRS:	.14 seconds in underlying rhythm; .16 seconds in ectopics
	Interp:	Sinus Rhythm (with wide QRS) with two multifocal PVCs