

* **Strip 7-3**
Rhythm: Basic rhythm regular; irregular with PACs
Rate: Basic rhythm rate 94
P waves: Sinus P waves with basic rhythm;
Premature, abnormal P waves with PACs
PR interval: 0.12 seconds (basic rhythm) 0.14
seconds (PACs)
QRS: 0.08–0.10 seconds (basic rhythm and PACs)
Rhythm interpretation: Normal sinus rhythm with 2
PACs (4th and 8th complex) ST segment depression
is present

Strip 7-4
Rhythm: Irregular
Rate: 100
P waves: Vary in size, shape, position
PR interval: 0.12 seconds
QRS: 0.06 to 0.08 seconds
Rhythm interpretation: Wandering atrial pacemaker

Strip 7-5
Rhythm: Basic rhythm regular; irregular with PAC
Rate: Basic rhythm rate 125
P waves: Sinus P waves with basic rhythm;
premature, pointed P wave with PAC
PR interval: 0.12 seconds (basic rhythm)
QRS: 0.04–0.06 seconds (basic rhythm)
Rhythm interpretation: Sinus tachycardia with one
PAC (8th complex)

Strip 7-6
Rhythm: Regular
Rate: 167
P waves: Pointed, abnormal
PR interval: 0.14 to 0.16 seconds
QRS: 0.06 to 0.08 seconds
Rhythm interpretation: Paroxysmal atrial
tachycardia; ST segment depression is present

Strip 7-7
Rhythm: Basic rhythm regular; irregular with
nonconducted PAC
Rate: Basic rhythm rate 88
P waves: Sinus P waves with basic rhythm;
premature, abnormal P wave with nonconducted
PAC
PR interval: 0.16 seconds
QRS: 0.06 to 0.08 seconds
Rhythm interpretation: Normal sinus rhythm with
nonconducted PAC (following 7th QRS) ST segment
depression is present

Strip 7-8
Rhythm: Irregular
Rate: Atrial, 320; ventricular, 80
P waves: Flutter waves are present (varying ratios)
PR interval: Not measurable
QRS: 0.06–0.08 seconds
Rhythm interpretation: Atrial flutter with variable
block

Strip 7-9
Rhythm: Irregular
Rate: 50
P waves: Changing morphology across strip (1st three
P waves are upright; last three P waves are inverted)
PR interval: 0.18–0.20 seconds (1st three PR
intervals) 0.12 seconds (last three PR intervals)
QRS: 0.08–0.10 seconds
Rhythm interpretation: Wandering atrial pacemaker
with bradycardic rate

Strip 7-10
Rhythm: Irregular
Rate: Ventricular rate 60; Atrial rate not measurable
P waves: fibrillatory waves are present
PR interval: not measurable
QRS: 0.04–0.06 seconds
Rhythm interpretation: Atrial fibrillation

Strip 7-11
Rhythm: Basic rhythm regular; irregular with PAC
Rate: Basic rate 72
P waves: Sinus with basic rhythm; premature,
pointed with PAC
PR interval: 0.18–0.20 seconds (basic rhythm)
QRS: 0.06–0.08 seconds (basic rhythm)
Rhythm interpretation: Normal sinus rhythm with 1
PAC (6th complex)

Strip 7-12
Rhythm: Regular
Rate: Atrial: 237 Ventricular: 79
P waves: 3 flutter waves to each QRS
PR interval: not necessary to measure
QRS: 0.04 seconds
Rhythm interpretation: Atrial flutter with 3:1
AV conduction

Strip 7-13

Rhythm: Basic rhythm regular; irregular with PAC
Rate: Basic rate 107
P waves: Sinus with basic rhythm; premature, pointed P wave without QRS complex follows 5th QRS
PR interval: 0.18–0.20 seconds
QRS: 0.04–0.06 seconds
Rhythm interpretation: Sinus tachycardia with 1 non-conducted PAC (following 5th QRS)

Strip 7-14

Rhythm: Irregular
Rate: Ventricular rate 110; Atrial rate not measurable
P waves: Fibrillatory waves are present
PR interval: Not measurable
QRS: 0.06 to 0.08 seconds
Rhythm interpretation: Atrial fibrillation; some flutter waves are noted

Strip 7-15

Rhythm: First rhythm regular; second rhythm regular
Rate: 167 first rhythm; 100 second rhythm
P waves: Obscured in T waves in first rhythm; sinus P waves in second rhythm
PR interval: Not measurable in first rhythm; 0.16–0.18 seconds in second rhythm
QRS: 0.08 seconds (both rhythms)
Rhythm interpretation: Paroxysmal atrial tachycardia converting to normal sinus rhythm

Strip 7-16

Rhythm: Regular
Rate: Atrial, 300; ventricular, 100
P waves: Three flutter waves before each QRS
PR interval: Not measurable
QRS: 0.08 seconds
Rhythm interpretation: Atrial flutter with 3:1 AV conduction

Strip 7-17

Rhythm: Irregular
Rate: 40
P waves: Fibrillatory waves
PR interval: Not measurable
QRS: 0.08 seconds
Rhythm interpretation: Atrial fibrillation

Strip 7-18

Rhythm: Irregular
Rate: Atrial, 320; ventricular, 90
P waves: Flutter waves (varying ratios)
PR interval: Not discernible
QRS: 0.04 to 0.06 seconds
Rhythm interpretation: Atrial flutter with variable AV conduction

Strip 7-19

Rhythm: Basic rhythm regular; irregular following nonconducted PACs
Rate: 79 in basic rhythm
P waves: Vary in morphology across strip; P wave following 5th and 8th QRS is premature, abnormal without associated QRS
PR interval: 0.18–0.22 seconds
QRS: 0.06–0.08 seconds
Rhythm interpretation: Wandering atrial pacemaker with 2 nonconducted PACs (following 5th and 8th QRS)

Strip 7-20

Rhythm: 1st rhythm regular; not enough complexes to measure 2nd rhythm
Rate: 1st rhythm: 136, 2nd rhythm: 58
P waves: 1st rhythm: obscured; 2nd rhythm: sinus
PR interval: 1st rhythm: not measurable; 2nd rhythm: 0.16 seconds
QRS: 0.08 seconds both rhythms
Rhythm interpretation: Paroxysmal atrial tachycardia converting to sinus bradycardia (9th complex is an atrial escape beat)

Strip 7-21

Rhythm: Basic rhythm regular; irregular with nonconducted PAC
Rate: Basic rhythm 75—rate slows to 72 for 2 cycles following pause; temporary rate suppression is common following a pause in the underlying rhythm
P waves: Sinus in basic rhythm; premature, pointed P wave without QRS complex follows 3rd QRS
PR interval: 0.16 seconds
QRS: 0.08 seconds
Rhythm interpretation: Normal sinus rhythm with one non-conducted PAC (following 3rd QRS); a U wave is present

Strip 7-22

Rhythm: Regular
 Rate: Atrial: 290 Ventricular: 58
 P waves: 5 flutter waves to each QRS
 PR interval: Not measurable
 QRS: 0.06–0.08 seconds
 Rhythm interpretation: Atrial flutter with 5:1 AV conduction

Strip 7-23

Rhythm: Basic rhythm regular; irregular with pause
 Rate: Basic rhythm rate 79
 P waves: Sinus with basic rhythm; premature abnormal P wave without QRS follows 4th QRS
 PR interval: 0.16–0.18 seconds basic rhythm
 QRS: 0.06–0.08 seconds basic rhythm
 Rhythm interpretation: Normal sinus rhythm with 1 nonconducted PAC (follows 4th QRS) ST segment depression and T wave inversion is present

Strip 7-24

Rhythm: Irregular
 Rate: Ventricular rate: 170; atrial rate not measurable
 P waves: Fibrillatory waves present
 PR interval: Not measurable
 QRS: 0.06–0.08 seconds
 Rhythm interpretation: Atrial fibrillation

Strip 7-25

Rhythm: Regular
 Rate: 84
 P waves: Vary in size, shape, and position
 PR interval: 0.12 to 0.14 seconds
 QRS: 0.06 to 0.08 seconds
 Rhythm interpretation: Wandering atrial pacemaker; T wave inversion is present

Strip 7-26

Rhythm: Basic rhythm regular; irregular with PACs
 Rate: Basic rhythm rate 68
 P waves: Sinus with basic rhythm; premature, inverted P wave with PAC
 PR interval: 0.12–0.14 seconds (basic rhythm); 0.12 seconds (PAC)
 QRS: 0.06–0.08 seconds (basic rhythm); 0.08 seconds (PAC)
 Rhythm interpretation: Normal sinus rhythm with 1 PAC (4th complex) a U wave is present

Strip 7-27

Rhythm: Regular
 Rate: Atrial: 232 Ventricular: 58
 P waves: 4 flutter waves to each QRS
 PR interval: Not measurable
 QRS: 0.06–0.08 seconds
 Rhythm interpretation: Atrial flutter with 4:1 AV conduction

Strip 7-28

Rhythm: Basic rhythm regular; irregular with PACs
 Rate: Basic rhythm 42
 P waves: Sinus P waves with basic rhythm; premature, abnormal P waves with PACs
 PR interval: 0.12 to 0.14 seconds (basic rhythm); 0.16 seconds (PACs)
 QRS: 0.08 to 0.10 seconds
 Rhythm interpretation: Sinus bradycardia with four PACs (2nd, 4th, 7th and 9th complexes)

Strip 7-29

Rhythm: Regular
 Rate: 150
 P waves: Obscured in preceding T wave
 PR interval: Not measurable
 QRS: 0.08 seconds
 Rhythm interpretation: Paroxysmal atrial tachycardia

Strip 7-30

Rhythm: Regular
 Rate: Atrial: 272 Ventricular: 136
 P waves: 2 flutter waves to each QRS
 PR interval: Not measurable
 QRS: 0.06 seconds
 Rhythm interpretation: Atrial flutter with 2:1 AV conduction

Strip 7-31

Rhythm: Basic rhythm regular; irregular with PACs and atrial fibrillation
 Rate: Basic rhythm rate 68; Atrial fibrillation rate 140
 P waves: Sinus P waves are present with basic rhythm; premature, abnormal P waves with PACs; fibrillation waves with atrial fibrillation
 PR interval: 0.12 to 0.14 seconds (basic rhythm)
 QRS: 0.08 to 0.10 seconds
 Rhythm interpretation: Normal sinus rhythm with two PACs, (2nd and 5th complex); last PAC initiates atrial fibrillation; ST segment depression is present

Strip 7-32

Rhythm: Basic rhythm regular; irregular with nonconducted PAC
Rate: Basic rate 94—rate slows to 84 for one cycle following pause (temporary rate suppression can occur following a pause in the basic rhythm)
P waves: Sinus P waves in basic rhythm; premature, abnormal P wave without a QRS is hidden in T wave following 7th QRS complex
PR interval: 0.16–0.18 seconds
QRS: 0.06–0.08 seconds
Rhythm interpretation: Normal sinus rhythm with one nonconducted PAC (following 7th QRS)

Strip 7-33

Rhythm: Basic rhythm regular; irregular with PAC
Rate: Basic rhythm rate 47
P waves: Sinus with basic rhythm; premature, pointed P wave associated with PAC
PR interval: 0.18–0.20 seconds
QRS: 0.08 seconds
Rhythm interpretation: Sinus bradycardia with one PAC (5th complex); a U wave is present

Strip 7-34

Rhythm: Irregular
Rate: Ventricular rate: 50; Atrial rate not measurable
P waves: Fibrillatory waves are present
PR interval: Not measurable
QRS: 0.06 to 0.08 seconds
Rhythm interpretation: Atrial fibrillation; ST segment depression and T wave inversion are present

Strip 7-35

Rhythm: Regular
Rate: 188
P waves: Obscured in T waves
PR interval: Unmeasurable
QRS: 0.04–0.08 seconds
Rhythm interpretation: Paroxysmal atrial tachycardia; ST segment depression is present

Strip 7-36

Rhythm: Irregular
Rate: 60
P waves: Vary in size, shape, direction across strip
PR interval: Varies (0.14–0.20 seconds)
QRS: 0.10 seconds
Rhythm interpretation: Wandering atrial pacemaker

Strip 7-37

Rhythm: Irregular
Rate: Atrial, 260; ventricular, 70
P waves: Flutter waves (varying ratios)
PR interval: Not measurable
QRS: 0.08 seconds
Rhythm interpretation: Atrial flutter with variable AV conduction

Strip 7-38

Rhythm: Regular
Rate: 150
P waves: Obscured in T wave
PR interval: Not measurable
QRS: 0.04–0.06 seconds
Rhythm interpretation: Paroxysmal atrial tachycardia; ST segment depression is present

Strip 7-39

Rhythm: Basic rhythm regular; irregular with PAC
Rate: Basic rhythm rate 136
P waves: Sinus with basic rhythm; premature, pointed P wave with PAC
PR interval: 0.16–0.18 (basic rhythm); 0.18 seconds (PAC)
QRS: 0.06–0.08 seconds (basic rhythm); 0.06 seconds (PAC)
Rhythm interpretation: Sinus tachycardia with 1 PAC (11th complex)

Strip 7-40

Rhythm: Irregular
Rate: Ventricular rate: 130; Atrial rate not measurable
P waves: Fibrillatory waves present
PR interval: Not measurable
QRS: 0.04–0.06 seconds
Rhythm interpretation: Atrial fibrillation (uncontrolled rate)

Strip 7-41

Rhythm: Basic rhythm regular; irregular with nonconducted PAC
Rate: Basic rhythm rate 79
P waves: Sinus P waves with basic rhythm; premature, abnormal P waves hidden in T wave following 7th QRS
PR interval: 0.20 seconds
QRS: 0.08–0.10 seconds
Rhythm interpretation: Normal sinus rhythm with one nonconducted PAC (hidden in T wave following 7th QRS) a U wave is present

Strip 7-42

Rhythm: Basic rhythm regular; irregular with nonconducted PAC
 Rate: 72
 P waves: Sinus P waves are present; one premature, abnormal P wave without a QRS (follows 5th QRS)
 PR interval: 0.16 seconds
 QRS: 0.08 seconds
 Rhythm interpretation: Normal sinus rhythm with one nonconducted PAC (follows 5th QRS); T wave inversion is present

Strip 7-43

Rhythm: Regular
 Rate: 68
 P waves: Vary in size, shape, and position
 PR interval: 0.12 seconds
 QRS: 0.06–0.08 seconds
 Rhythm interpretation: Wandering atrial pacemaker; ST segment depression is present

Strip 7-44

Rhythm: Regular
 Rate: Atrial: 428 Ventricular: 214
 P waves: 2 flutter waves to each QRS
 PR interval: Not measurable
 QRS: 0.06–0.08 seconds
 Rhythm interpretation: Atrial flutter with 2:1 AV conduction

Strip 7-45

Rhythm: Regular
 Rate: 188
 P waves: Hidden in T waves
 PR interval: Not measurable
 QRS: 0.04 to 0.06 seconds
 Rhythm interpretation: Paroxysmal atrial tachycardia; ST segment depression is present

Strip 7-46

Rhythm: Basic rhythm regular; irregular with premature beat
 Rate: Basic rhythm rate 79
 P waves: Sinus with basic rhythm; premature pointed P wave with PAC
 PR interval: 0.14–0.16 seconds (basic rhythm); 0.12 seconds (PAC)
 QRS: 0.06–0.08 seconds
 Rhythm interpretation: Normal sinus rhythm with 1 PAC (5th complex)

Strip 7-47

Rhythm: Basic rhythm regular; irregular with PAC
 Rate: Basic rhythm rate 84
 P waves: Sinus P waves present; premature, pointed P wave with PAC
 PR interval: 0.14 to 0.16 (basic rhythm); 0.16 seconds (PAC)
 QRS: 0.06 to 0.08 seconds (basic rhythm) 0.08 seconds (PAC)
 Rhythm interpretation: Normal sinus rhythm with one PAC (7th complex); ST segment depression is present

Strip 7-48

Rhythm: Irregular
 Rate: 40
 P waves: Fibrillatory waves are present
 PR interval: Not measurable
 QRS: 0.08 seconds
 Rhythm interpretation: Atrial fibrillation (controlled rate)

Strip 7-49

Rhythm: Irregular
 Rate: Atrial, 280; ventricular, 50
 P waves: Flutter waves present (varying ratios)
 PR interval: Not measurable
 QRS: 0.06 to 0.08 seconds
 Rhythm interpretation: Atrial flutter with variable AV conduction

Strip 7-50

Rhythm: Irregular
 Rate: Atrial, 300; ventricular, 100
 P waves: Flutter waves (varying ratios)
 PR interval: Not measurable
 QRS: 0.04–0.06 seconds
 Rhythm interpretation: Atrial flutter with variable AV conduction

Strip 7-51

Rhythm: Regular
 Rate: 150
 P waves: Hidden in T waves
 PR interval: Not measurable
 QRS: 0.08 to 0.10 seconds
 Rhythm interpretation: Paroxysmal atrial tachycardia

Strip 7-52

Rhythm: Basic rhythm regular; irregular with nonconducted PAC

Rate: Basic rhythm rate 88—rate slows to 79 following each nonconducted PAC (temporary rate suppression is common following a pause in the basic rhythm)

P waves: Sinus with basic rhythm; two premature abnormal P waves without a QRS complex follows 5th QRS and 7th QRS

PR interval: 0.18–0.20 seconds

QRS: 0.06–0.08 seconds

Rhythm interpretation: Normal sinus rhythm with two nonconducted PACs (following 5th and 7th QRS)

Strip 7-53

Rhythm: Irregular

Rate: 70

P waves: Fibrillatory waves

PR interval: Not measurable

QRS: 0.06–0.08 seconds

Rhythm interpretation: Atrial fibrillation; ST segment depression is present

Strip 7-54

Rhythm: Basic rhythm regular; irregular with PAC

Rate: Basic rhythm rate 94

P waves: Sinus in basic rhythm; premature pointed P wave with PAC

PR interval: 0.12–0.16 seconds

QRS: 0.06–0.08 seconds

Rhythm interpretation: Normal sinus rhythm with one PAC (8th complex); ST segment depression is present

Strip 7-55

Rhythm: Irregular

Rate: Ventricular: 140 Atrial: not measurable

P waves: Fibrillatory waves 1st part of strip; sinus P waves last part of strip

PR interval: Not measurable 1st part of strip; 0.14 seconds (with the two sinus beats last part of strip)

QRS: 0.04–0.06 seconds

Rhythm interpretation: Atrial fibrillation converting to a sinus rhythm (one PAC follows 1st sinus beat)

Strip 7-56

Rhythm: Basic rhythm regular; irregular with PAC

Rate: Basic rhythm rate 84

P waves: Sinus in basic rhythm; premature, pointed P wave with PAC

PR interval: 0.12–0.14 seconds (basic rhythm); 0.12 seconds (PAC)

QRS: 0.06–0.08 seconds (basic rhythm) 0.08 seconds (PAC)

Rhythm interpretation: Normal sinus rhythm with 1 PAC (5th complex); baseline artifact is present (baseline artifact should not be confused with atrial fibrillation)

Strip 7-57

Rhythm: Regular

Rate: Atrial, 300; ventricular, 75

P waves: Four flutter waves to each QRS

PR interval: Not measurable

QRS: 0.04 seconds

Rhythm interpretation: Atrial flutter with 4:1 AV conduction

Strip 7-58

Rhythm: Basic rhythm regular; irregular with nonconducted PAC

Rate: Basic rhythm rate 88—rate slows to 72 following pause (temporary rate suppression is common following a pause in the basic rhythm)

P waves: Sinus with basic rhythm; premature abnormal P wave (without associated QRS) hidden in T wave following 7th QRS

PR interval: 0.12–0.14 seconds (basic rhythm)

QRS: 0.08–0.10 seconds

Rhythm interpretation: Normal sinus rhythm with one nonconducted PAC (follows 7th QRS)

Strip 7-59

Rhythm: Irregular

Rate: 70

P waves: Vary in size, shape, direction

PR interval: 0.14–0.16 seconds

QRS: 0.06–0.08 seconds

Rhythm interpretation: Wandering atrial pacemaker; T wave inversion is present

Strip 7-60

Rhythm: Irregular

Rate: Atrial: 300 Ventricular: 80

P waves: Flutter waves are present before each QRS in varying ratios

PR interval: Not measurable

QRS: 0.04–0.06 seconds

Rhythm interpretation: Atrial flutter with variable AV conduction

Strip 7-61

Rhythm: Irregular
 Rate: 50
 P waves: Fibrillatory waves are present
 PR interval: Not measurable
 QRS: 0.06–0.08 seconds
 Rhythm interpretation: Atrial fibrillation; some flutter waves are present

Strip 7-62

Rhythm: Regular with basic rhythm; irregular with PAC
 Rate: Basic rhythm rate 58
 P waves: Sinus with basic rhythm; premature, abnormal P wave with PAC
 PR interval: 0.16–0.18 seconds (basic rhythm)
 QRS: 0.06–0.08 seconds
 Rhythm interpretation: Sinus bradycardia with one PAC (5th complex); a U wave is present

Strip 7-63

Rhythm: Irregular
 Rate: Ventricular rate: 80 Atrial rate not measurable
 P waves: Fibrillatory waves present
 PR interval: Not measurable
 QRS: 0.04 to 0.06 seconds
 Rhythm interpretation: Atrial fibrillation; ST segment depression is present

Strip 7-64

Rhythm: Regular
 Rate: 214
 P waves: Hidden in T waves
 PR interval: Not measurable
 QRS: 0.08 seconds
 Rhythm interpretation: Paroxysmal atrial tachycardia

Strip 7-65

Rhythm: Basic rhythm regular; irregular with PAC
 Rate: Basic rhythm rate 52
 P waves: Sinus with basic rhythm; premature pointed P wave associated with PAC (abnormal P wave hidden in T wave following 4th QRS)
 PR interval: 0.16–0.18 seconds
 QRS: 0.06–0.08 seconds
 Rhythm interpretation: Sinus bradycardia with one PAC (5th complex); a U wave is present

Strip 7-66

Rhythm: Basic rhythm regular; irregular with nonconducted PAC
 Rate: Basic rhythm rate 75
 P waves: Sinus with basic rhythm; premature, abnormal P wave hidden in T wave following 4th QRS
 PR interval: 0.20 seconds
 QRS: 0.06–0.08 seconds
 Rhythm interpretation: Normal sinus rhythm with one nonconducted PAC (follows 4th QRS) a U wave is present

Strip 7-67

Rhythm: Regular
 Rate: 84
 P waves: Vary in size, shape, direction
 PR interval: 0.16 seconds
 QRS: 0.04–0.06 seconds
 Rhythm interpretation: Wandering atrial pacemaker

Strip 7-68

Rhythm: Regular
 Rate: 150
 P waves: Hidden (possibly in preceding T waves)
 PR interval: Not measurable
 QRS: 0.04–0.06 seconds
 Rhythm interpretation: Paroxysmal atrial tachycardia; ST segment depression is present

Strip 7-69

Rhythm: Irregular
 Rate: Atrial: 250 Ventricular: 70
 P waves: Flutter waves before each QRS in varying ratios
 PR interval: Not measurable
 QRS: 0.06–0.08 seconds
 Rhythm interpretation: Atrial flutter with variable AV conduction

Strip 7-70

Rhythm: Irregular
 Rate: Ventricular rate: 130; Atrial rate not measurable
 P waves: Fibrillatory waves; some flutter waves are seen
 PR interval: Not measurable
 QRS: 0.04 seconds
 Rhythm interpretation: Atrial fibrillation; some flutter waves are noted; ST segment depression is present

Strip 7-71

Rhythm: Basic rhythm regular; irregular with PACs
 Rate: Basic rhythm rate 88
 P waves: Sinus P waves with basic rhythm; premature, abnormal P waves with PACs
 PR interval: 0.14 to 0.16 seconds (basic rhythm)
 QRS: 0.06 to 0.08 seconds
 Rhythm interpretation: Normal sinus rhythm with paired PACs (3rd and 4th complexes)

Strip 7-72

Rhythm: Regular
 Rate: 54
 P waves: Varying in size and shape
 PR interval: 0.12
 QRS: 0.08 to 0.10 seconds
 Rhythm interpretation: Wandering atrial pacemaker; ST segment depression is present

Strip 7-73

Rhythm: Regular
 Rate: Atrial: 272; Ventricular: 136
 P waves: 2 flutter wave to each QRS
 PR interval: Not measurable
 QRS: 0.08 seconds
 Rhythm interpretation: Atrial flutter with 2:1 AV conduction

Strip 7-74

Rhythm: Basic rhythm regular; irregular with PAC
 Rate: Basic rhythm rate 63
 P waves: Sinus in basic rhythm; premature, abnormal P wave with PAC
 PR interval: 0.12–0.14 seconds (basic rhythm); 0.14 seconds (PAC)
 QRS: 0.06–0.08 seconds (basic rhythm) 0.08 seconds (PAC)
 Rhythm interpretation: Normal sinus rhythm with 1 PAC (4th complex); a small U wave is present

Strip 7-75

Rhythm: Regular
 Rate: 150
 P waves: Hidden in T waves
 PR interval: Not measurable
 QRS: 0.06 to 0.08 seconds
 Rhythm interpretation: Paroxysmal atrial tachycardia; ST segment depression is present

Strip 7-76

Rhythm: Irregular
 Rate: Ventricular rate: 80; Atrial rate not measurable
 P waves: Fibrillatory waves present
 PR interval: Not measurable
 QRS: 0.04 seconds
 Rhythm interpretation: Atrial fibrillation; ST segment depression and T wave inversion are present

Strip 7-77

Rhythm: Regular
 Rate: 88
 P waves: Vary in size, shape, position
 PR interval: 0.12 to 0.14 seconds
 QRS: 0.06 to 0.08 seconds
 Rhythm interpretation: Wandering atrial pacemaker; T wave inversion is present

Strip 7-78

Rhythm: Irregular
 Rate: 50
 P waves: Vary in size, shape, and position
 PR interval: 0.12 to 0.16 seconds
 QRS: 0.08 seconds
 Rhythm interpretation: Wandering atrial pacemaker; ST segment depression is present

Strip 7-79

Rhythm: Regular
 Rate: Atrial: 232; Ventricular: 58
 P waves: 4 flutter waves to each QRS
 PR interval: Not measurable
 QRS: 0.08 seconds
 Rhythm interpretation: Atrial flutter with 4:1 AV conduction

Strip 7-80

Rhythm: Basic rhythm regular; irregular with PAC and nonconducted PAC
 Rate: Basic rhythm rate 79
 P waves: Sinus with basic rhythm; premature pointed P waves with PAC and nonconducted PAC
 PR interval: 0.14–0.16 seconds (basic rhythm)
 QRS: 0.04–0.06 seconds
 Rhythm interpretation: Normal sinus rhythm with one PAC (4th complex) and one nonconducted PAC (following 5th QRS); T wave inversion is present

Strip 7-81

Rhythm: Regular
 Rate: 68
 P waves: Vary in size, shape, direction
 PR interval: 0.12–0.16 seconds
 QRS: 0.08 seconds
 Rhythm interpretation: Wandering atrial pacemaker; a U wave is present

Strip 7-82

Rhythm: Regular
 Rate: Atrial: 240; Ventricular: 60
 P waves: 4 flutter waves to each QRS
 PR interval: Not measurable
 QRS: 0.06 seconds
 Rhythm interpretation: Atrial flutter with 4:1 AV conduction

Strip 7-83

Rhythm: Regular
 Rate: 167
 P waves: Hidden in preceding T wave
 PR interval: Not measurable
 QRS: 0.08–0.10 seconds
 Rhythm interpretation: Paroxysmal atrial tachycardia

Strip 7-84

Rhythm: Irregular
 Rate: 50
 P waves: Fibrillatory waves
 PR interval: Not measurable
 QRS: 0.08–0.10 seconds
 Rhythm interpretation: Atrial fibrillation

Strip 7-85

Rhythm: Irregular
 Rate: 40
 P waves: Vary in size, shape, direction
 PR interval: 0.14–0.16 seconds
 QRS: 0.08 seconds
 Rhythm interpretation: Wandering atrial pacemaker

Strip 7-86

Rhythm: Basic rhythm regular; irregular with PACs
 Rate: Basic rhythm rate 107
 P waves: Sinus with basic rhythm; premature, pointed P waves with PACs
 PR interval: 0.16 seconds (basic rhythm)
 QRS: 0.06 seconds
 Rhythm interpretation: Sinus tachycardia with 3 PACs (4th, 9th, 11th complex)

Strip 7-87

Rhythm: Irregular
 Rate: Atrial: 250; Ventricular: 40
 P waves: Flutter waves before each QRS in varying ratios
 PR interval: Not measurable
 QRS: 0.06–0.08 seconds
 Rhythm interpretation: Atrial flutter with variable AV conduction

Strip 7-88

Rhythm: Irregular
 Rate: Ventricular rate: 40; atrial rate not measurable
 P waves: Fibrillatory waves present
 PR interval: Not measurable
 QRS: 0.04–0.06 seconds
 Rhythm interpretation: Atrial fibrillation; ST segment depression is present

Strip 7-89

Rhythm: Basic rhythm regular; irregular with nonconducted PAC
 Rate: Basic rhythm rate 84
 P waves: Sinus in basic rhythm; premature, pointed P wave with nonconducted PAC
 PR interval: 0.16–0.20 seconds
 QRS: 0.06–0.08 seconds
 Rhythm interpretation: Normal sinus rhythm with one nonconducted PAC (follows 5th QRS) ST segment depression is present

Strip 7-90

Rhythm: Basic rhythm regular; irregular with PAC
 Rate: Basic rhythm rate: 54
 P waves: Sinus with basic rhythm; premature abnormal P wave with PAC
 PR interval: 0.16–0.18 seconds
 QRS: 0.06 seconds
 Rhythm interpretation: Sinus bradycardia with one PAC (4th complex)

Strip 7-91

Rhythm: Basic rhythm regular; irregular with PAC
 Rate: Basic rhythm 63
 P waves: Sinus P waves with basic rhythm; premature, abnormal P waves with PAC
 PR interval: 0.14 to 0.16 seconds
 QRS: 0.06 seconds
 Rhythm interpretation: Normal sinus rhythm with one PAC (5th complex); a U wave is present

**Strip 7-92**

Rhythm: Regular
 Rate: Atrial, 235; ventricular, 47
 P waves: Five flutter waves to each QRS
 PR interval: Not discernible
 QRS: 0.08 seconds
 Rhythm interpretation: Atrial flutter with 5:1 block;
 T wave inversion is present

Strip 8-1

Rhythm: Basic rhythm regular; irregular with PJC
 Rate: Basic rhythm rate 58
 P waves: Sinus with basic rhythm; premature inverted P wave with PJC
 PR interval: 0.14–0.16 (basic rhythm); 0.08 (PJC)
 QRS: 0.06 seconds (basic rhythm and PJC)
 Rhythm interpretation: Sinus bradycardia with 1 PJC (5th complex); a U wave is present

Strip 8-2

Rhythm: Regular
 Rate: 60
 P waves: Sinus P waves present
 PR interval: 0.24
 QRS: 0.06 to 0.08 seconds
 Rhythm interpretation: Normal sinus rhythm with first-degree AV block; ST segment elevation and T wave inversion are present

Strip 8-3

Rhythm: Regular atrial and ventricular rhythm
 Rate: Atrial: 46 Ventricular: 23
 P waves: 2 Sinus P waves before each QRS
 PR interval: 0.22–0.24 seconds (remains constant)
 QRS: 0.08–0.10 seconds
 Rhythm interpretation: Second-degree AV block, Mobitz II; clinical correlation is suggested to diagnose Mobitz II when 2:1 conduction is present; ST segment elevation is present

Strip 8-4

Rhythm: Basic rhythm regular; irregular with junctional beat
 Rate: Basic rhythm rate 58
 P waves: Sinus P waves with basic rhythm; hidden P wave with junctional beat
 PR interval: 0.16 to 0.18 seconds (basic rhythm)
 QRS: 0.08 to 0.10 seconds (basic rhythm and junctional beat)
 Rhythm interpretation: Sinus bradycardia with junctional escape beat (4th complex) following pause in basic rhythm; ST segment depression is present

Strip 8-5

Rhythm: Regular
 Rate: 115
 P waves: Inverted
 PR interval: 0.08 seconds
 QRS: 0.04–0.06 seconds
 Rhythm interpretation: Junctional tachycardia

Strip 8-6

Rhythm: Regular
 Rate: 84
 P waves: Sinus
 PR interval: 0.22–0.24 seconds
 QRS: 0.08–0.10 seconds
 Rhythm interpretation: Normal sinus rhythm with first-degree AV block

Strip 8-7

Rhythm: Regular
 Rate: 65
 P waves: Inverted before each QRS
 PR interval: 0.08 seconds
 QRS: 0.06 to 0.08 seconds
 Rhythm interpretation: Accelerated junctional rhythm; ST segment elevation and T wave inversion are present

Strip 8-8

Rhythm: Regular atrial rhythm; irregular ventricular rhythm
 Rate: Atrial, 75; ventricular, 70
 P waves: Sinus P waves present; one P wave without QRS
 PR interval: Progresses from 0.28 to 0.32 seconds
 QRS: 0.04 to 0.08 seconds
 Rhythm interpretation: Second-degree AV block, Mobitz I; ST segment depression and T wave inversion are present

Strip 8-9

Rhythm: Regular
 Rate: 47
 P waves: Hidden in QRS
 PR interval: Not measurable
 QRS: 0.08 seconds
 Rhythm interpretation: Junctional rhythm; ST segment depression is present