HEART RATE—RESTING (ADULTS)

TEST POSITION

• Seated or supine; arm relaxed and supported by a comfortable surface or the examiner (Figure 1-1)

ACTION

- Index and middle fingertip pads lightly palpate the desired pulse points
- Radial or carotid pulse most commonly assessed; other pulse points include: temporal, brachial, femoral, popliteal, tibialis anterior, dorsalis pedis
- Count number of beats in 60 seconds
 - ♦ Shorter duration measurements increase error

60-second count ± 1 beat/minute

30-second count \pm 2 beats/minute

15-second count ± 4 beats/minute

10-second count ± 6 beats/minute

NORMAL FINDINGS

- 60-100 beats/min¹
- <60 beats/minute in aerobically trained

POSITIVE FINDINGS

- Tachycardia (>100 beats/minute)
 - ♦ Suggestive of anemia, hyperthyroidism, fever, anxiety²
- Bradycardia (<60 beats/minute)
 - Possibly due to sinus bradycardia, second-degree or complete heart block²
- Skipped or extra beats
 - ♦ Premature atrial, nodal, or ventricular beats, sinus arrhythmia, second-degree heart block—Mobitz Type I²

SPECIAL CONSIDERATIONS

- Resting heart rate is often low in aerobically trained individuals
- Resting heart rate is often elevated during illness or following repetitive days of heavy work
- In hypertensive adults, single heart rate measurements made in the clinic were significantly higher $(3.8 \pm 8.0 \text{ beats/min})$ than