

Learning Objectives for Cardiovascular System

After studying your lecture notes and **Chapters 14 and 15** in the textbook, and completing the exercises in class, you should be able to:

1. Describe the purpose of various types of equipment used for physical examination.
2. Demonstrate the correct use of various types of equipment used for physical examination.
3. Identify various techniques applied during a physical examination.
4. Demonstrate correct application of the various techniques used during physical examination.
5. Describe variations in findings that may be considered within normal range.
6. Describe the anatomy and physiology of blood vessels and the heart.
7. Identify age and condition variations in blood vessels and the heart.
8. Identify examination findings associated with various conditions of blood vessels.
9. Discuss and demonstrate inspection, palpation, percussion, and auscultation techniques for examination of the heart and blood vessels.
10. Identify and differentiate causes of chest pain.

Key terms and concepts to know for the quiz, practical examination, and test:

1. General inspection
2. Techniques and interpretation of palpation
3. Techniques and interpretation of percussion
4. Techniques and interpretation of auscultation
5. Pulse measurement locations
6. Pulse modifiers/descriptors
7. Blood pressure measurement
8. Correct BP cuff selection and usage and problems with improper cuff selection
9. Proper use of stethoscope and correct selection of bell vs. diaphragm
10. Cardiac cycle
11. Systole, diastole, pulse pressure
12. S1, S2, S3, S4, splitting
13. Normal heart sounds
14. Extra heart sounds
15. Heart murmurs
16. Abnormal heart sounds
17. Electrical activity of the heart
18. Apical impulse and point of maximal impulse
19. Precordium
20. Heave or lift
21. Thrill
22. Valvular stenosis
23. Congenital and acquired heart defects
24. Common abnormalities of the heart

25. Jugular venous pulse and pressure
26. Arterial pulse abnormalities
27. Venous hum
28. Carotid bruit
29. Vascular insufficiencies, arterial vs. venous
30. Capillary refill time
31. Hepatojugular reflux
32. Thrombosis
33. Varicosities
34. Common abnormalities of the vessels