

Cardiovascular Review

The crossword puzzle grid consists of 44 numbered starting points for clues:

- 1: 10 squares, horizontal
- 2: 10 squares, horizontal
- 3: 10 squares, horizontal
- 4: 10 squares, horizontal
- 5: 10 squares, horizontal
- 6: 10 squares, vertical
- 7: 10 squares, horizontal
- 8: 10 squares, vertical
- 9: 10 squares, horizontal
- 10: 10 squares, horizontal
- 11: 10 squares, vertical
- 12: 10 squares, horizontal
- 13: 10 squares, vertical
- 14: 10 squares, horizontal
- 15: 10 squares, horizontal
- 16: 10 squares, horizontal
- 17: 10 squares, horizontal
- 18: 10 squares, horizontal
- 19: 10 squares, vertical
- 20: 10 squares, horizontal
- 21: 10 squares, horizontal
- 22: 10 squares, horizontal
- 23: 10 squares, horizontal
- 24: 10 squares, vertical
- 25: 10 squares, horizontal
- 26: 10 squares, horizontal
- 27: 10 squares, vertical
- 28: 10 squares, vertical
- 29: 10 squares, vertical
- 30: 10 squares, vertical
- 31: 10 squares, horizontal
- 32: 10 squares, horizontal
- 33: 10 squares, vertical
- 34: 10 squares, horizontal
- 35: 10 squares, vertical
- 36: 10 squares, vertical
- 37: 10 squares, vertical
- 38: 10 squares, vertical
- 39: 10 squares, horizontal
- 40: 10 squares, vertical
- 41: 10 squares, horizontal
- 42: 10 squares, horizontal
- 43: 10 squares, horizontal
- 44: 10 squares, horizontal

A small black and white checkerboard pattern is located at the intersection of squares 31 and 32.

Across

- 1 The valves that close when the ventricles are full of blood and stay closed while the ventricles contract.
- 3 The fibrous, protective sac that covers the heart and anchors it to the sternum and diaphragm.
- 7 An infection of the smooth inner layer of the heart that can cause valve trouble.
- 9 Semilunar valve that blood leaving the left ventricle passes through.
- 10 The smooth inner layer of the heart that helps the blood flow smoothly through the heart.
- 12 Tiny blood vessels that form "beds" that connect arteries and veins.
- 14 A solution for incompetent valves to avoid congestive heart failure down the road.
- 15 Branch off the aorta that carries blood to the head and arms of the body.
- 16 Incompetent heart valves that have stiffened due to repeated attacks of endocarditis.
- 18 Crushing heart pain caused by a lack of oxygen in the heart tissue.
- 20 The groove on the interatrial septum that marks where the hole connecting the atria in the fetal heart used to be.
- 21 The valve between the left atrium and left ventricle, also known as the mitral valve.
- 22 An infection of the tough, fibrous sac that protects the heart.
- 25 When blood leaks through valves and flows the wrong direction.
- 26 Blood vessels that have the highest level of oxygen in the body.
- 32 The smooth outer layer of the heart that is next to the parietal pericardium.
- 34 Vein that takes blood from the liver to the inferior vena cava.
- 35 The receiving chambers of the heart.
- 39 The hole in the fetal heart that allows blood to pass from the right atrium to the left atrium, bypassing the non-functioning fetal lungs
- 41 Blood vessels that carry the blood back to the heart.
- 42 The vena cava that the brachiocephalic vein empties into.
- 43 The right ventricle pumps blood into this circulation.
- 44 The circulation that the left ventricle pumps into.

Down

- 2 Main artery carrying oxygenated blood away from the heart.
- 4 When heart cells begin to die from a lack of oxygen.
- 5 A "coronary" caused by a prolonged lack of oxygen in heart tissue is known as a ____ infarction.
- 6 The wall separating the atria of the heart.
- 8 Blood vessels that carry blood away from the heart, usually with highly oxygenated blood.
- 11 Valves that close to cause the "dub," or second heart sound,
- 13 The major vein carrying blood from the head region back toward the heart.
- 17 The artery that passes under the clavicle on the way to the arm.
- 19 Heart valves from this animal can be chemically treated and used in humans.
- 23 Describes a condition that a person is born with as opposed to one that develops later in life.
- 24 The "heartstrings" that keep the AV valves from opening too far and leaking blood into the atria.
- 27 The thick middle layer of heart tissue.
- 28 Veins and arteries that carry blood to and from the kidneys.
- 29 The chambers of the heart that emptied just before you hear the second heart sound.
- 30 A general word that describes valves that do not work properly
- 31 Pericarditis causes a lack of ____ which results in painful friction between the pericardium and the epicardium.
- 33 The only arteries in the body that have low oxygen levels.
- 36 The valve that separates an atrium and a ventricle and is made of three flaps.
- 37 Describes valves that are man-made.
- 38 The main artery that carries blood to the head region.
- 40 The left AV valve is also known as the ____ valve.