

it has fulfilled its function, it is brought back to the heart by the veins.

*Veins* are the vessels which bring the blood to the heart. They have thinner walls than the arteries, and have valves, which valves are foldings of the inner lining of the vein. These valves do not exist in the pulmonary vein. They tend to help the blood towards the heart. When the veins are empty they collapse. Between the arteries and veins we have very small vessels, which form the connecting medium and are called

*Capillaries*, which are formed from the breaking down of the arteries, and from the veins on the other side. They are very delicate and minute, and during health the blood circulates through all these in a regular manner, and the liquid portions of the blood continually exudes to supply the various tissues, and at the same time there are excreting waste tissue, and it is in the capillaries that nutrition is primarily effected. There are also lymphatic vessels, which take up this waste, but the blood vessels also take it up to some extent. All the tissues of the body, whether bone, muscle, hair, etc., are nourished by the blood. Blood is the fluid contained in the heart, arteries, capillaries and veins, and is formed chiefly from the chyle, and when first drawn from the body it has the appearance of a homogeneous fluid. You would think it composed of but one thing, but after a while it loses this appearance. It has a saline taste. The halitu is a smell, or faint odor, which arises from a watery vapor, from freshly drawn blood, and is characteristic of the animal from which it was freely drawn. The temperature of the blood is  $98^{\circ}$  to  $100^{\circ}$ . Blood is of red color, viewed as a whole, and is a fluid, but not a perfect fluid. It is composed of a fluid portion, the liquor sanguinis and a solid portion, corpuscles, or blood cells. The corpuscles are of two kinds, the red and the white; the red being the more numerous, the average being about 250 red to 1 white, but they vary both in health and disease. These corpuscles float in the liquor sanguinis. These corpuscles