Mindluster Platform

About the course Respiratory 1

The respiratory system (also respiratory apparatus, ventilatory system) is a biological system consisting of specific organs and structures used for gas exchange in animals and plants. The anatomy and physiology that make this happen varies greatly, depending on the size of the organism, the environment in which it lives and its evolutionary history. In land animals the respiratory surface is internalized as linings of the lungs. Gas exchange in the lungs occurs in millions of small air sacs; in mammals and reptiles these are called alveoli, and in birds they are known as atria. These microscopic air sacs have a very rich blood supply, thus bringing the air into close contact with the blood. These air sacs communicate with the external environment via a system of airways, or hollow tubes, of which the largest is the trachea, which branches in the middle of the chest into the two main bronchi. These enter the lungs where they branch into progressively narrower secondary and tertiary bronchi that branch into numerous smaller tubes, the bronchioles. In birds the bronchioles are termed parabronchi. It is the bronchioles, or parabronchi that generally open into the microscopic alveoli in mammals and atria in birds. Air has to be pumped from the environment into the alveoli or atria by the process of breathing which involves the muscles of respiration. In most fish, and a number of other aquatic animals (both vertebrates and invertebrates) the respiratory system consists of gills, which are either partially or completely external organs, bathed in the watery environment. This water flows over the gills by a variety of active or passive means. Gas exchange takes place in the gills which consist of thin or very flat filaments and lammelae which expose a very large surface area of highly vascularized tissue to the water. Other animals, such as insects, have respiratory systems with very simple anatomical features, and in amphibians even the skin plays a vital role in gas exchange. Plants also have respiratory systems but the directionality of gas exchange can be opposite to that in animals. The respiratory system in plants includes anatomical features such as stomata, that are found in various parts of the plant.

Medical Category's Courses

Course Lesson(100)

Lesson 1 : **Thoracic cage**

Lesson 2 : **Thoracic cage 2**

Lesson 3 : **Thoracic cage 3**

Lesson 4 : **Thoracic cage 4**

Lesson 5 : **Thoracic cage 5**

Lesson 6 : **Thoracic cage 6**

Lesson 7 : **Thoracic vertebrae**

Lesson 8 : **Thoracic vertebrae 2**

Lesson 9 : **Typical Thoracic vertebrae**

Lesson 10 : **Typical Thoracic vertebrae 2**

Lesson 11 : **Typical thoracic vertebrae 3**

Lesson 12 : **Typical Thoracic vertebrae 4**

Lesson 13 : **Atypical thoracic vertebrae**

Lesson 14 : **Atypical thoracic vertebrae 2**

Lesson 15 : **Atypical thoracic vertebrae 3**

Lesson 16 : **Atypical thoracic vertebrae 4**

Lesson 17 : **Vertebral ligaments**

Lesson 18 : **Sternum**

Lesson 19 : **Sternum 2**

Lesson 20 : **Louis Angle 1**

Lesson 21 : **Louis Angle 2**

Lesson 22 : **Louis Angle 3**

Lesson 23 : **Ribs**

Lesson 24 : **Typical ribs**

Lesson 25 : **Typical ribs 2**

Lesson 26 : **Atypical ribs 1**

Lesson 27 : **Atypical ribs 2**

Lesson 28 : **Atypical ribs 3**

Lesson 29 : **Atypical ribs 4**

Lesson 30 : **Atypical ribs 5**

Lesson 31 : **Mechanics of breathing**

Lesson 32 : **Mechanics of breathing 2**

Lesson 33 : **Mechanics of breathing 3**

Lesson 34 : **Mechanics of breathing 4**

Lesson 35 : **Mechanics of breathing 5**

Lesson 36 : **Mechanics of breathing 6**

Lesson 37 : **Mechanics of breathing 7**

Lesson 38 : **Mechanics of breathing 8**

Lesson 39 : **Mechanics of breathing 9**

Lesson 40 : **Mechanics of breathing 10**

Lesson 41 : **Mechanics of breathing 11**

Lesson 42 : **Intercostal muscles 1**

Lesson 43 : **Intercostal muscles 2**

Lesson 44 : **Intercostal muscles 3**

Lesson 45 : **Intercostal muscles 4**

Lesson 46 : **Intercostal muscles 5**

Lesson 47 : **Intercostal muscles 6**

Lesson 48 : **Mechanics of breathing 12**

Lesson 49 : **Mechanics of breathing 13**

Lesson 50 : **Mechanics of breathing 14**

Lesson 51 : **Mechanics of breathing 15**

Lesson 52 : **Diaphragm muscle 1**

Lesson 53 : **Diaphragm muscle 2**

Lesson 54 : **Diaphragm muscle 3**

Lesson 55 : **Diaphragm muscle 4**

Lesson 56 : **Diaphragm muscle 5**

Lesson 57 : **Diaphragm muscle 6**

Lesson 58 : **Diaphragm muscle 7**

Lesson 59 : **Scalenea muscles**

Lesson 60 : **Typical intercostal nerves 1**

Lesson 61 : **Typical intercostal nerves 2**

Lesson 62 : **Typical intercostal nerves 3**

Lesson 63 : **Typical intercostal nerves 4**

Lesson 64 : **Typical intercostal nerves 5**

Lesson 65 : **Typical intercostal nerves 6**

Lesson 66 : **Typical intercostal nerves 7**

Lesson 67 : **Atypical intercostal nerves**

Lesson 68 : **Atypical intercostal nerves 2**

Lesson 69 : **Atypical intercostal nerves 3**

Lesson 70 : **Posterior intercostal arteries 1**

Lesson 71 : **Posterior intercostal arteries 2**

Lesson 72 : **Posterior intercostal arteries 3**

Lesson 73 : **Posterior intercostal arteries 4**

Lesson 74 : **Posterior intercostal arteries 5**

Lesson 75 : **Posterior intercostal arteries 6**

Lesson 76 : **Anterior intercostal arteries**

Lesson 77 : **Anterior intercostal arteries 2**

Lesson 78 : **Anterior intercostal arteries 3**

Lesson 79 : **Anterior intercostal arteries 4**

Lesson 80 : **Intercostal veins**

Lesson 81 : **Intercostal veins 2**

Lesson 82 : **Intercostal veins 3**

Lesson 83 : **Intercostal veins 4**

Lesson 84 : **Azygos system**

Lesson 85 : **Azygos system 2**

Lesson 86 : **Azygos system 3**

Lesson 87 : **Azygos system 4**

Lesson 88 : **Azygos system 5**

Lesson 89 : **Respiratory centre**

Lesson 90 : **Respiatory center 2**

Lesson 91 : **Respiatory center 3**

Lesson 92 : **Respiatory center 4**

Lesson 93 : **Respiatory center 5**

Lesson 94 : **Respiatory center 6**

Lesson 95 : **Respiatory center 7**

Lesson 96 : **Respiatory center 8**

Lesson 97 : **Lung volumes**

Lesson 98 : **Lung volumes 2**

Lesson 99 : **Lung volumes 3**

Lesson 100 : **Warning**

Related courses

Infection Control

Male Reproductive

Anatomy

Pharynx

Endocrine

General Embryology

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