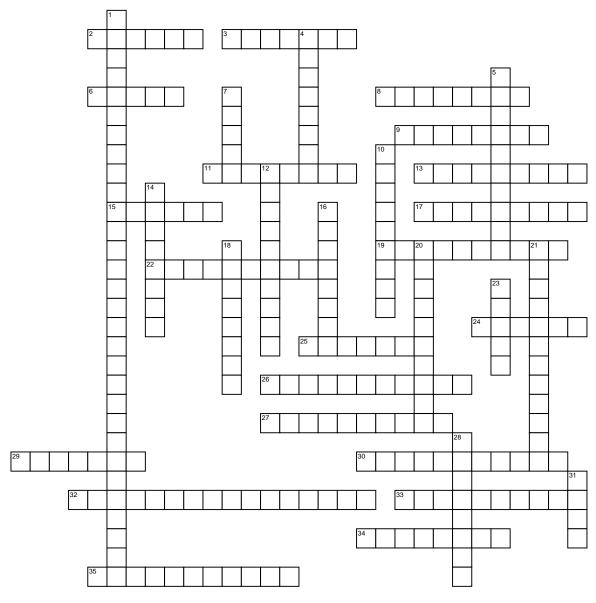
Respiratory System



ACROSS

- **2** Respiratory ______ volume is the volume of air which can be inhaled or exhaled from a person's lungs in sixty seconds.
- 3 A ______ is one of the two channels of the nose, from the point where they bifurcate to the external opening.
- 6 _____ cells are non-mucous and non-ciliated secretory cells found in the primary bronchioles of the lungs.
- **8** The _____ bronchi arise from the secondary bronchi.
- **9** A ______ bronchiole is a bronchiole at the end of the conducting zone.

- 11 ____ ducts are the tiny end tubules of the branching airways that fill the lungs.
- 13 The ______ is a sheet of muscle extending across the bottom of the ribcage which separates the thoracic cavity from the abdominal cavity and performs an important function in respiration.
- 15 The ______, colloquially known as the voicebox, is an organ in the neck of mammals involved in protection of the trachea and sound production.
- 17 _____ circulation is the portion of the cardiovascular system which carries oxygen-depleted blood away from the heart, to the

- lungs, and returns oxygenated blood back to the heart.
- 19 _____ is the most common of the Pulmonary Function Tests (PFTs), measuring lung function, specifically the measurement of the amount and/or speed of air that can be inhaled and exhaled.
- 22 Compliance is the ability of the lungs to stretch in a change in volume relative to an applied change in pressure.
- 24 The nasal ______, or nasal fossa, is a large air-filled space above and behind the nose in the middle of the face.
- 25 The ______, or windpipe, is a tube that extends from the larynx to the primary bronchi.

26	rate is the rate at which	DO	WN
	gas enters or leaves the lung.		
27	Pulmonary is a surface-	1	(DPPC) is a
	active lipoprotein complex formed		phospholipid and the major
	by type II alveolar cells which		constituent of pulmonary
	reduces surface tension in the air		surfactant.
	water interface within alveoli.	4	Functional capacity is
29	Pulmonary receptors		the volume of air present in the
	are mechanoreceptors found in the lungs, which when the lung		lungs at the end of passive expiration.
	expands, initate the Hering-Breuer	5	The primarys arise from
	reflex, reducing the respiratory	3	the tertiary bronchi.
	rate.	7	capacity is the
30	The system consists of		maximum volume of air that a
	the airways, the lungs, and the		person can exhale after maximum
	muscles that mediate the		inhalation.
	movement of air into and out of	10	capacity is a
~~	the body.		measurement of the lung's ability
32	Each of the tertiary bronchi serves a specific segment, and	12	to transfer gases, or expiration, is the
	each of these segments have their	12	movement of air out of the
	own artery.		bronchial tubes, through the
33	A respiratory is an		airways, to the external
	airway at the beginning of the		environment during breathing.
	respiratory zone.	14	A is a caliber of airway
34	The left main is smaller		in the respiratory tract that
	in caliber but longer than the right,		conducts air into the lungs.
	entering the root of the left lung	16	bodies, or
	opposite the sixth thoracic vertebra.		keratinosomes, are secretory organelles found in type II
35	The quotient is a		pneumocytes which deliver
•	unitless number used in		pulmonary surfactant after being
	calculations of basal metabolic		released from the cell.
	rate when estimated from carbon	18	Thecapillary barrier
	dioxide production.		exists in the gas exchanging
			region of the lungs, preventing air
			bubbles from forming in the blood
			and preventing blood from entering the alveoli.
		20	, also known as
			inspiration, is the movement of air
			from the external environment,
			through the airways, into the
			alveoli during breathing.
		21	A is a device used to
			measure the rate of respiration of
			a living organism by measuring its
			rate of exchange of oxygen and carbon dioxide.
		23	In humans the respiratory
			is the part of the
			anatomy that has to do with the
			process of respiration.
		28	The right main is wider,
			shorter, and more vertical in
			direction than the left, entering the
			right lung nearly opposite the fifth thoracic vertebra.
		31	space is air that is
		J1	inhaled by the body in breathing,
			but does not partake in gas

exchange.