

RESPIRATORY PHYSIOLOGY – Part 2 ANAESTHESIA TUTORIAL OF THE WEEK 182

16th November 2009

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QUESTIONS

Before answering, try to answer the following questions. The answers can be found at the end of the article together with our explanation.

1. The apnoeic apnoea-depression curve is plotted for the left lung:

- a) an increase in arterial PO_2
- b) apnoea
- c) a decrease in $P(A-a)O_2$
- d) arterial desaturation
- e) a lower temperature

2. Anatomy of the respiratory tract

- a) the alveolar ducts are
- b) generations 1-16 are present at the branching point of the trachea
- c) there are 35 bronchopulmonary segments
- d) the number of the bronchi increases by 16
- e) the lungs are lined with bronchopulmonary segments

3. Dead space

- a) is defined as the volume of gas which does not part in gas exchange
- b) physiological dead space is the volume of alveolar dead space
- c) anatomical dead space is increased by the tidal volume
- d) dead space is usually about 15% of tidal volume
- e) occurs with obstruction

4. Pulmonary vascular resistance

- a) is high at high lung volumes
- b) is low at low lung volumes
- c) is high under basal conditions
- d) is increased using PEEP
- e) is decreased by nitrous oxide

5. Diffusion of gases

- a) is increased with a decrease in surface area
- b) is directly proportional to the concentration gradient
- c) is not governed by thickness of the membrane
- d) is directly proportional to the thickness
- e) is decreased according to Henry law

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Thomas J. Gal



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Sedation and Anesthesia of Zoological Companion Animals, An Issue of Veterinary Clinics of North America: Exotic Animal Practice, E-Book João Brandão, Miranda Sadar, 2021-12-01 In this issue of Veterinary Clinics Exotic Animal Practice Guest Editor Alexander M Reiter brings his considerable expertise to the topic of sedation and anesthesia of zoological companion animals Top experts in the field cover key topics such as sedation and anesthesia in fish amphibians chelonians lizards snakes and more Provides in depth clinical reviews on sedation and anesthesia of zoological companion animals providing actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create these timely topic based reviews Contains 15 relevant practice oriented topics including drug delivery and safety considerations nerve blocks in zoological companion animals and more **Books in Print** ,1991 *Respiratory Physiology in Anesthetic Practice* Thomas J. Gal, 1991 *Nunn's Applied Respiratory Physiology* John F Nunn, 1993-10-04 Nunn s Applied Respiratory Physiology **Applied Respiratory Physiology** John F. Nunn, 1975 Anaesthesie Atmung *Applied Respiratory Physiology with Special Reference to Anaesthesia* J. F. Nunn, 1971

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