

Ayten Saracoglu*

Department of Anaesthesiology and Reanimation,
Istanbul Bilim University Medical School, Turkey

Dates: Received: 12 October, 2015; Accepted: 15
October, 2015; Published: 15 October, 2015

*Corresponding author: Dr. Ayten Saracoglu, Florence
Nightingale Hospital Abide-i Hurriyet Cad. No: 164 Sisli
Caglayan Istanbul Turkey, Tel: +905336035985; E-mail:
anesthesiayten@gmail.com

www.peertechz.com

Editorial

Structural Differences in Respiratory System and Airway of Parturients

forced vital capacity and forced expiratory volume in 1 second remain stable through the physiologic pulmonary changes.

Airway edema and capillary engorgement in pregnant women increase the risk of mucous membrane bleeding. The edema and weight gain also results in an increased Mallampati score and an eight times increased risk of difficult intubation. Breast enlargement also contributes to difficulty during intubation. Once a parturient with difficult airway anatomy is identified, a plan should be formulated including an appropriate communication skill [5].

References

1. Baraka AS, Taha SK, Aouad MT, El-Khatib MF, Kawkabani NI (1999) Preoxygenation: comparison of maximal breathing and tidal volume breathing techniques. *Anesthesiology* 91: 612-616.
2. Benumof JL (1999) Preoxygenation: best method for both efficacy and efficiency. *Anesthesiology* 91: 603-605.
3. Khaw KS, Ngan Kee WD, Chu CY, Ng FF, Tam WH, et al. (2010) Effects of different inspired oxygen fractions on lipid peroxidation during general anaesthesia for elective Caesarean section. *Br J Anaesth* 105: 355-360.
4. Senturk Cataloglu B, Saracoglu A (2013) Anaesthetic management of the obese parturients. *Journal of Anesthesia - JARSS* 21: 200 – 208.
5. Law JA, Broemling N, Cooper RM, et al. (2013) The difficult airway with recommendations for management – Part 1 – Difficult tracheal intubation encountered in an unconscious/induced patient. *Canadian Journal of Anaesthesia* 60: 1089-1118.

Editorial

Oxygen consumption increases with increased alveolar ventilation and respiratory alkalosis occurs. Thus, PaCO₂ becomes 28-32 mmHg in pregnant women, and this amount is compensated with renal bicarbonate absorption. Preoxygenation can be made slower by inhalation of 100% oxygen for 2-5 minutes. Denitrogenation of the lungs occurs after three minutes [1]. Another method can be applied quickly with 4-8 deep breaths of 100% oxygen [2]. However, for pregnant women who will have a cesarean section under general anesthesia, an oxygen fraction of 1 has been shown to increase fetal oxygenation more compared with the 0.3 or 0.5 FiO₂ [3]. As this may lead to free oxygen radicals and absorption atelectasia, 80 % oxygen is recommended.

Increased mucus secretion may lead to nasal obstruction and result in epistaxis [4]. While minute ventilation increases, residual volume, expiratory reserve volume, functional residual capacity and the compliance of chest wall decreases. Besides total lung capacity may be protected via an increase in vital capacity. In pregnancy,

Copyright: © 2015 Saracoglu A. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Citation: Saracoglu A (2015) Structural Differences in Respiratory System and Airway of Parturients. *Glob J Anesthesiol* 2(2): 052.