Chung defines Obstructive Sleep Apnea (OSA) as a sleep disorder caused by repetitive partial or complete obstruction of the upper airway. (2008) In the Perioperative setting, patients with diagnosed or suspected OSA are managed closely due to a potential for complications. The American Society of Anesthesia (ASA) and the American Society of Perianesthesia Nurses (ASPN) have adopted guidelines for the care of the OSA patient. This institution is in the process of developing guidelines for the OSA population.

The purpose of this research was to answer the following questions: What is the Phase I length of stay for the known OSA patient with or without a Bipap machine? Were there any adverse respiratory events in the first 3 post-operative days?

This descriptive quantitative study focuses on 50 randomized diagnosed OSA patients at a community hospital. The inclusion criteria were: patients with a diagnosis of OSA undergoing surgery and requiring admission. Data was obtained through current/concurrent chart review. Patients were followed for three days postoperatively with a follow up phone call made one week post discharge. Fourteen patients of the 50 patients had identifiable respiratory events in Phase I perianesthesia unit (PACU). Their oxygen saturations ranged from 77%-88% on arrival in PACU. To correct hypoxia, nine required Continuous Positive Airway Pressure (CPAP) and five required airway maneuvers. For these patients, length of stay in the PACU was 1-7 hours. Thirteen of the event patients received general anesthesia. No apneic events were recorded for any of the patients on 3 consecutive post operative days. Only 25 patients were able to be reached for the postoperative phone call. The patients who did not have CPAP machines, reported nightmares, trouble sleeping and daytime sleepiness. Only 3 patients used their CPAP when napping during the day.

Findings of this study may be used in the development of institutional specific guidelines. OSA patients requiring general anesthesia require closer peri-operative monitoring to ensure adequate respiratory function. A multidisciplinary approach is needed for the safety of the OSA patient. Nursing staff must be vigilant for patient complications. Nursing and respiratory therapy need to encourage patient compliance with CPAP equipment.
References


