JAIPUR AWARD ABSTRACTS: AIRWAY ABSTRACT NO.: ABS1132

A Comparative study of Oropharyngeal leak pressure in LMA ProtectorTM with cuff pilot vs LMA SupremeTM in paralysed patients: A prospective randomised clinical

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study.

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Background & Aims: Oropharyngeal leak pressure (OLP) is the pressure at which a gas leaks around the airway, higher leak pressures, betterseal. Our primary aim was to measure OLP and Secondary aims were to measure Insertion Time, Numbers of Attempts, Ease of Insertion, and Postoperative complications.

Methods: The study was carried out in 62 adult patients of ASA I & II which were randomized into 2 groups Group S (LMA SupremeTM) and Group P (LMA ProtectorTM) (n = 31 each) based on a computerâ€'generated random sequence table.

Respective LMA's were inserted after general anaesthesia induction and OLP were measured at cuff pressure of 60 cmH2O in each group accordingly. Secondary Parameters such as insertion time, no of attempts of supraglottic airway devicesand gastric tube, ease of insertion were measured. Intraoperative haemodynamic parameters and postoperatively airwaymorbidity were also measured.

Results: OLP were significantly higher (P<0.0001) for LMA Protectorâ,¢ compared to LMA Supremeâ,¢.The OLP in LMAProtectorâ,¢ group was 28.12 cmH2O (SD- 1.96) compared to 21.5 cmH2O (SD- 2.65) in LMA Supremeâ,¢ group. Insertiontime was significantly higher for the LMA Protectorâ,¢ (24.58 sec) compared to the LMA Supremeâ,¢ (16.67 sec) (P<0.0001). There were no statistically significant differences in ease of insertion, Numbers of Attempts, trauma, sorethroat, Dysphagia and Dysphonia.

Conclusion: Oropharyngeal leak pressures were consistently higher (>5 cm H2O) for LMA Protectorâ,¢ compared to LMA Supremeâ,¢, Thus providing effective ventilation than LMA SupremeTM.

References

- Berthold Moser1 | Christian Keller1 | Laurent Audigé2 |
 Heinz R. Bruppacher1. Oropharyngeal leak pressure of the
 LMA Protectorâ,,¢ vs the LMA Supremeâ,,¢; a prospective,
 randomized, controlled clinical trail; Acta Anaesthesiol Scand
 2019; 63:322–328.
- Jee-Eun Chang1, Hyerim Kim1, Jung-Man Lee1, Seong-Won Min1,2, Dongwook Won1, Kwanghoon Jun3 and Jin-Young Hwang1,2*A prospective, randomized comparison of the LMA-protectorâ,¢ and i-gelâ,¢ in paralyzed, anesthetized patient―Chang et al. BMC Anesthesiology 2019; 19:118