

## **Comparative two center study of single use AuraFlex versus LMA flexible disposable supraglottic airways in adults undergoing ENT surgery**

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In this prospective, randomized trial, a comparison was made between the Ambu AuraFlex<sup>®</sup> supraglottic airway and LMA Flexible Disposable<sup>®</sup> supraglottic airway in healthy adults undergoing elective tonsillectomies within two different centers. Parameters measured included ease of successful insertion, oropharyngeal leak pressure (OLP), and airway seal efficacy. After general anaesthesia induction, the supraglottic airways were inserted according to manufacturer's instructions. Seal efficacy was judged after insertion of the supraglottic airway and after the mouth gag was placed. Initial insertion success was 83.3% for the Ambu AuraFlex<sup>®</sup> Group (AFG) and 81.8% for the LMA Flexible<sup>®</sup> Group (LFG) ( $p=0.95$ ). Oropharyngeal leak pressure was then compared when the cuff pressure was 60 cmH<sub>2</sub>O: AFG  $31.2 \pm 8.3$  cmH<sub>2</sub>O vs. LFG  $31 \pm 6.2$  cmH<sub>2</sub>O, both preoperative ( $p=0.90$ ); with gag positioned AFG became  $30.9 \pm 7.6$  cmH<sub>2</sub>O vs. LFG  $31.1 \pm 7.7$  cmH<sub>2</sub>O ( $p=0.89$ ). The performance of the Ambu AuraFlex<sup>®</sup> SGA and the LMA Flexible Disposable<sup>®</sup> SGA are equivalent regarding ease of insertion and in achieving a safe and effective seal.