

I-Gel Vs Lma Proseal Supraglottic Device

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Aims

Primary

To compare insertion characteristics of two different supraglottic devices (I-gel and PLMA).

Secondary

To observe any associated complications. Study Design: This prospective, randomized study was conducted in 80 patients [Group I - I-gel insertion (n = 40) and Group P - LMA Proseal insertion (n = 40)] of ASA grades I/ II, of either sex in the age group 18-65 years. Both groups were compared with respect to ease of insertion, insertion attempts, fiberoptic assessment, airway sealing pressure, ease of gastric tube placement other complications.

Statistical analysis

Student t-test and Mann Whitney test were employed to compare the means and for categorical variables Chi-square test was used.

Result

Mean insertion time for the I-gel (11.12 ± 1.814 seconds) was significantly lower than that of the PLMA (15.13 ± 2.91 sec) ($p = 0.001$). I-gel was easier to insert with a better anatomic fit. Mean airway sealing pressure in the PLMA group (29.55 ± 3.53 cm H₂O) was significantly higher than in the I-gel group (26.73 ± 2.52 cm H₂O; $p = 0.001$). Ease of gastric tube insertion was significantly higher in the I-gel group ($p = 0.001$). Incidence of blood staining of the device, sore throat and dysphagia were observed more in PLMA group. No other complications were observed in either of the groups.

Conclusion

I-gel has an acceptable airway sealing pressure with significant ease of insertion, a faster insertion time, an excellent anatomic fit, 100% first attempt success rate of gastric tube insertion and a very low reported incidence of pharyngolaryngeal morbidity.