

Multicenter evaluation of the Ambu® AuraGain™ in normal airways



By Ambu Clinical Department (unpublished data)

The Ambu® AuraGain™ is a new second generation supraglottic airway with an incorporated gastric drainage channel recommended for use with a maximum of 16 French gastric tube and the capability of working as a conduit for direct flexible intubation. This summary presents the evaluation of the product performance as a ventilatory device. Data was collected in 3 countries and involved 129 patients with normal airways. Insertion, Oropharyngeal Leak Pressure (OLP), functionality of the gastric drainage channel and performance of the SGA during intubation were evaluated in 129, 49, 39 and 5 cases respectively.

The procedures were performed electively by CRNAs and anaesthetists with mixed years of experience. Cases included were anticipated normal airways and ambulatory procedures such as laparoscopy, bronchoscopy, EBUS, arthroscopy, cystoscopy and MRI.

The data shows that insertion was successful in 128 out of 129 cases (99.2%) of the cases, with 89.9% succeeding at 1st attempt (see table 1). One case failed because too large a device was chosen. Ease of insertion was rated as "easy" or "acceptable" in 98.4% in total.

Insertion (N=129)	
Overall success rate	128 (99.2%)
1st attempt success rate	116 (89.9%)
2nd attempt success rate	12 (10.1%)
3rd attempt success rate	0

Table 1

The average seal performance (OLP) was 29.3 cm H₂O (24-40 cm H₂O) based on measurements of 49 cases (see table 2).

OLP measurements (N=49)	
Size 3	29.6 cm H ₂ O (25-36 cm H ₂ O)
Size 4	28.4 cm H ₂ O (24-40 cm H ₂ O)
Size 5	31.5 cm H ₂ O (24-40 cm H ₂ O)
Average OLP 29.3 cm H₂O (24-40 cm H₂O)	

Table 2

Using the gastric drainage channel with a size 16 French gastric tube was feasible in all cases.

AuraGain was used as a conduit for optical intubation using standard endotracheal tubes in 5 cases. The overall success rate was 100%, all in first attempt. Ease of intubation was rated as "optimal/smooth" in all of the procedures. The overall performance of AuraGain was rated "acceptable", "good" or "very good" in 100% of the cases. (see table 3)

Performance during intubation (N=5)	
Intubation success rate	5 (100%)
1st attempt intubation success rate	5 (100%)

Table 3

AuraGain was used for airway management in 129 patients across 3 countries. The data shows that the device performs well when used for elective patients with normal airways.