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REVIEW ARTICLE

Needle vs surgical cricothyroidotomy: a short cut to effective ventilation

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Summary

Cricothyroidotomy can be performed using three techniques. This literature review seeks to determine which is more appropriate for use in prehospital can't intubate/can't ventilate scenarios where laryngeal mask airways prove ineffective. The common approach of inserting a 14-gauge cannula and using low-pressure ventilation via intermittent occlusion of an opening in oxygen tubing (15 l.min⁻¹ flow) results in ineffective ventilation within 60 s or less, depending on the degree of airway obstruction. In the absence of a high degree of upper airway obstruction, ventilation can be effective if the cannula is attached to a high pressure (45 psi) jet ventilator, but such devices are rare in UK prehospital practice. A self-inflating bag used with a cuffed tube inserted through a horizontal scalpel incision provides sustained adequate ventilation, has a relatively low complication rate compared to needle cricothyroidotomy and is a skill that can be easily taught to paramedics, nurses and doctors.

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Early access to and control of the airway is one of the few prehospital interventions that has been shown to improve outcome significantly for the severely injured patient [1-4]. Cricothyroidotomy is a temporary, life-saving procedure, indicated immediately it is determined that the airway and ventilation cannot be maintained in any other way. It is therefore the first-line in the Difficult Airways distinct treatment strategies with very different physiological effects, and that the term 'jet ventilation' is sometimes inaccurately applied to low pressure systems. The third approach is the 'surgical airway', requiring a scalpel incision through the cricothyroid membrane through which a cuffed tube is inserted into the trachea and ventilation via a self-inflating bag (Fig. 2). These

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