Letters to Editor

Fibreoptic aided retrograde intubation in an oral cancer patient

Sir,

The difficult airway and its management will continue to be reviewed. The incidence of difficult intubation in general population is around 5.8%, but this incidence can rise significantly in the presence of airway tumours. Recently we encountered such a patient and we combined both retrograde and fibreoptic (FOB) intubation in a difficult airway situation, compromised by a large oral cavity mass.

A 35-year-old lady presented with a rapidly progressing ulceroproliferative mass of left cheek extending beyond the left angle of the mouth. She had a restricted mouth opening to less than 1 cm only on the right side and a limited mandibular protrusion [Figure 1].

X-ray of the PNS revealed a deviated bony nasal septum towards left. CT scan of the PNS showed a lesion of the submandibular region extending to the mandibular arch, soft tissue of cheek and nasolabial area.

An awake, right nasotracheal intubation was planned. After preparation of the patient for an awake intubation, the cricothyroid membrane was punctured with a Tuohy needle through which a Terumo guide wire was fed in. A red rubber catheter was used to take the guide wire from the mouth through the right nostril. The flexible tip of the Terumo was fed through the distal end (2.8 mm) of the working channel of the FOB (OD 5.8 mm) to come out through the proximal end of the working channel. A fibrescope with a preloaded tracheal tube was rail-roaded through the right nostril through the trachea [Figure 2].

The position of the tracheal tube was checked. Oxygen insufflation through the scope was done during the procedure. The patient tolerated the procedure well [Figure 3].

We had three options: blind nasal, FOB and tracheostomy. Blind nasal is a simple technique, but success at first pass is less and there is more trauma and bleeding with more attempts. This may result in failure to visualise during subsequent FOB attempts. Awake FOB is the gold standard for anticipated difficult intubation. However, in one survey, it was observed that FOB is the first choice only in 8% difficult airway situations in medical colleges in India. FOB intubation has a difficult learning curve and its success depends upon skill, training and experience. Tissue oedema and immobility due to tumour, distorted airway, copious secretions and chances of bleeding contribute to a higher failure rate. In retrograde intubation, the endotracheal tube may move out of the larynx into the oesophagus or kink with failure to advance after guide catheters are removed. Herein lies the importance of this modified technique that utilises a guidewire introduced with the retrograde approach which is subsequently used to guide the FOB for speedy advancement into the oropharynx occupied with tumour. To do so, guidewire must be long enough to accommodate the length of the scope. We used a sterile Terumo guidewire intended primarily to cannulate the common bile duct. The tip of this guidewire is very soft and becomes slimy in the presence of water so that it finds its way even in a small opening. So, chance of retrieving the catheter from the mouth or nostril at first pass, in the presence of an airway tumour, is more. Though not impossible, tracheostomy under local anaesthesia is difficult in advanced oropharyngeal cancers causing anatomical distortion of the anterior neck. This combination technique may be helpful to secure the airway reliably, safely and quickly in oral cancer patients requiring awake tracheal intubation for anticipated difficult airway situations.
Letters to Editor

Sabyasachi Das, Mohan C Mandal, Bidyum Gharami, Payel Bose
North Bengal Medical College, West Bengal, India

Address for correspondence:
Dr. Sabyasachi Das,
College Teachers’ Qrt B-12, North Bengal Medical College,
PO Sushrutanagar, Darjeeling 734 012, West Bengal, India.
E-mail: sabyasachi1968@gmail.com

REFERENCES

1. Shiga T, Wajima Z, Inoue T, Sakamoto A. Predicting difficult intubation in apparently normal patients: A meta-analysis of bedside screening test performance. Anesthesiology 2005;103:429-37.
2. Finucane BT, Santora AH. Principles of airway management. 3rd ed. New York: Springer-verlag; 2003. p. 115-6.
3. Ovassapian A, Tuncbilek M, Weitzel EK, Joshi CW. Airway management in adult patients with deep neck infections: A case series and review of the literature. Anesth Analg 2005;100:585-9.
4. Sahay BM, Jain S, Tidke S, Dhande PS, Premendran B, Dahake S. Difficult airway management methods: A survey in medical colleges in India. Indian J Anaesth 2008;52:51-7.
5. Retrograde intubation. In: Orebaugh SL, editor. Atlas of airway management: tools and techniques. 1st ed., Chap.19. Philadelphia: Lippincott William and Wilkins; 2007. p.111-20.

Paediatric face mask for adult ventilation in presence of nasal tumours

Sir,
I read with great interest the article by Drs Sethi et al. describing the use of a paediatric face mask for mask ventilation in an adult patient with nasal tumour. I congratulate the authors for their improvisation. I have used a Rendell-Baker-Soucek mask for mask-to-stoma ventilation with success. I feel that some aspects of the described method need to be discussed. Firstly, a closer inspection of the mouth and the neck of the patient in the figure reveals that, in fact, an oropharyngeal airway had already been inserted into the oral cavity for mask ventilation; but this has not been stated in the article. Figure 1 shows the growth of the left cheek which has grown to present size over last 2 months. Figure 2 shows the FOB loaded with a tracheal tube showing both ends of the Terumo guide wire. Figure 3 shows the intubated awake patient with a secure airway (permission for publication obtained from the patient).

Figure 1: Growth of left cheek which has grown to present size over last 2 months

Figure 2: FOB loaded with a tracheal tube showing both ends of the Terumo guide wire. (a) Distal end of the guidewire, (b) guidewire through the right nostril, (c) proximal end of the guidewire through the proximal end of the working channel of the FOB

Figure 3: Intubated awake patient with a secure airway (permission for publication obtained from the patient)