ASYMPTOMATIC ABSENT EPIGLOTTIS

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ABSTRACT

Absence or hypoplasia of the epiglottis is a rare anomaly. Most patients, with absent or hypoplastic epiglottis, have presented, life-threatening symptoms of respiratory distress and severe aspiration in infancy or early childhood. We report a case of completely asymptomatic 30 year old female with absent epiglottis posted for modified radical mastoidectomy for chronic suppurative otitis media (CSOM).

KEY WORDS: Hypoplasia, Absent Epiglottis, Aspiration, Respiratory distress.

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INTRODUCTION

The function of the epiglottis is to prevent food and drink from falling down the airway. The epiglottis, a flap at the base of the throat, touches the back of the tongue and opens when swallowing occurs. It allows food and drink to safely pass into our digestive system. Failure of epiglottis functioning results in choking.

CASE REPORT

A 30 year old female patient weighing 53 Kgs, without any history of aspiration, sleep apnea or dysphagia. The patient was posted for Chronic suppurative otitis media (CSOM) under general anesthesia. She was taken for anesthesia under ASA class I. Her airway assessment was Mallampati Grade I.

In the operating room, when patient was induced for general anesthesia with Propofol (2mg/kg), Fentanyl (2mcg/kg) and direct laryngoscopy was attempted for oral endotracheal intubation with Macintosh laryngoscope with Vecuronium (0.1mg/kg) as muscle relaxant. The epiglottis was found to be absent (Figure 1). However, the vocal cords were found normally below the upper margin of the aryepiglottic folds. There was no abnormality of head, neck or other organ systems. But there was sub glottic stenosis as endotracheal tube of internal diameter of 5.0 mm was also negotiated with difficulty. General anaesthesia was maintained with Oxygen and Nitrous oxide, Fentanyl, Vecuronium and Isoflorane. Neuromuscular relaxant was reversed with Neostigmine (0.05mg/kg) with Glycopyrrolate (0.01mg/kg).

Patient was monitored in post anesthesia care unit in left lateral position and there was no hemodynamic instability. No incidence of coughing and aspiration was observed in the view of absent epiglottis.

Fig. 1: Absent epiglottis, vocal cord in open position.



DISCUSSION AND CONCLUSION

The epiglottis, a flap at the base of the throat, touches the back of the tongue and opens when swallowing occurs. It allows food and drink to safely pass into our digestive system. Failure of functioning of the epiglottis results in choking.

Absence or hypoplasia of the epiglottis is a rare anomaly. Benjamin B et al[1] have reported the first in vivo photograph of the hypoplastic epiglottis in an infant. Previously reported cases either died shortly after birth due to multiple congenital anomalies or details of the outcome were lacking.

Most of the patients having hypoplastic epiglottis present with repeated aspiration pneumonitis. Rizk HG et al [2] have reported a case of a 26-month-old infant who was repeatedly treated for severe aspiration pneumonias that didn't resolve with gastrostomy.

Many patients present with a spectrum of symptoms like aspiration pneumonitis, OSA, hoarseness of voice, coughing during swallowing. Reyes BG et al [3] have reported a case of 3 month old girl with congenital absence of the epiglottis presents with inspiratory stridor. Over the next 8 years frank obstructive sleep apnea (OSA) developed, confirmed by polysomnography. She has no difficulty in swallowing or phonation as assessed clinically and with barium swallow.

Hypoplasia of the epiglottis diagnosed at adulthood is extremely rare, as in our case. Most patients with epiglottic hypoplasia have presented life-threatening symptoms of respiratory distress and severe aspiration in

Fig. 2: Absent epiglottis, vocal cord in closed position.



infancy or early childhood. Roh JL [4] has reported a case of congenital epiglottic hypoplasia found in a 42-year-old man complaining of mild hoarseness and throat discomfort.

Conflicts of Interests: None

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