Laryngeal Foreign Body Causing Bronchial Spasm

Keywords: laryngeal foreign body, recurrent bronchial spasm.

INTRODUCTION

Foreign bodies (FB) in the larynx and trachea usually lead to alarming circumstances, with death by complete obstruction of the respiratory tract as its utter consequence. Incidence rates are not high (2-11% of respiratory tract foreign bodies). Children from 6 months to 4 years of age are the most frequently affected, as expected due to their yet immature swallowing neuromuscular mechanism and the oral stage. In general terms, inhaling FB produces intense coughing and suffocation, and possibly cyanosis, asphyxia, sweating, vomiting, and dysphonia. Larynx papillomatosis must be ruled out as it may present similar findings 1-3.

CASE STUDY

R.A., 10 years old, male, choked two months earlier while eating fish. His mother reported spontaneous improvement two months later while eating fish. His clinical history of the patient began with choking followed by persistent dysphonia. Larynx papillomatosis was back to normal mobility and the granuloma in the anterior commissure persisted.

As mentioned before, FB in the larynx is more frequent in children. The foreign bodies themselves can be either organic or inorganic. In the case reported the patient choked on a fishbone fragment. Usually dysphonia, dyspnnea, wheezing, snoring, strenuous and labored breathing occur in previously healthy children. The clinical history of the patient began with choking followed by persistent dysphonia and whooping managed with bronchodilators that allowed for two months of partially improved symptoms 4-6.

Yadair published a case of larynx FB in which the diagnosis was reached after four months into follow-up. Once the possibility of larynx FB is raised, the larynx must be thoroughly examined by direct or indirect laryngoscopy. Naso-fibrolaryngoscopy was performed right off the start, thus providing diagnostic confirmation 4-6.

Most publications in the literature refer to FB removal under general anesthesia as the management of preference, using suspension laryngoscopy or bronchoscopy, as the foreign body may move onto inferior airways leading to asphyxia. The chosen approach was removal under general anesthesia through suspension laryngoscopy 5.

CONCLUSIONS

In cases such as this, one must be careful when using pre-defined diagnosis and should always look for information in the interview that may lead to proper case identification. As the foreign body’s presence in the larynx is confirmed, an expert assisted by a colleague skilled in handling the bronchoscope must remove it with the patient under general anesthesia.

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