Title
Impending Airway Compromise due to Cystic Hygroma

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We report on a 3-month-old infant, who arrived in the pediatric emergency department (ED) with a cervical cystic hygroma causing an impending compromise of the airway. We recognize that such a lesion can rapidly progress, and the judicious use of imaging in the ED may help to avoid airway compromise and possibly fatal complications. [West J Emerg Med. 2011;12(4):368–369.]

A 3-month-old boy, who was diagnosed after birth as having a cystic hygroma, was referred to the emergency department (ED) for further evaluation. The baby had no signs of respiratory distress, but a large lesion was noticed on the right neck, emerging from the base of the tongue and threatening the airway patency (Figure 1). Ultrasound examination revealed a large cystic lesion insinuating around the normal structures of the neck on both sides without compressing the airway (Figure 2). The patient was admitted for further evaluation, and a prophylactic tracheotomy was performed. Unfortunately, the baby died at home 2 months later because of tracheotomy tube–related complications.

Lymphatic malformations are a group of vascular malformations that are usually benign in their behavior. Cystic

Figure 1. A, Cystic hygroma on the right side of the neck. B, The lesion is infiltrating the oral cavity and displacing the tongue upward.
hygroma, the largest and most extensive lymphatic malformation, is diagnosed at birth in 40% of the cases.1 Cystic hygromas usually involve the head and neck, and their course is indolent in most cases.1,2 However, these lesions may hemorrhage, develop inflammation or infection, or may progressively enlarge, leading to an expanding lesion that may physically compress local organs.3 Surgical excision is regarded as the treatment of choice; however, when radical excision is surgically challenging, the patient will be treated with sclerotherapy, an injection of a sclerosing substance such as OK432 into the lesion.4,5 Sclerotherapy is problematic in cases of airway compromise because of the additional edema that may develop.4,5 Presentation of an emergency airway compromise due to a cervical cystic hygroma is usually uncommon, but the emergency physician must be aware that any child with a large cystic lesion may have a massive infiltrating hygroma with a much greater internal involvement of local organs and tissues surrounding the larynx.6–8 Ultrasonography is a readily available technique in the ED, and we recommend using this modality to evaluate the extensiveness of such a lesion.

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REFERENCES