Dysphagia due to kyphosis-induced positional changes of the carotid artery

We have recently encountered numerous patients with age-related aberrations of the carotid artery [1–4]. This pathological condition is also a suspected risk factor for ischemic stroke [2–4] and has not been identified during previous physical examinations [3,4]. A 78-year-old man was referred to our otolaryngology clinic because of an unusual, strange sensation in his throat with dysphagia. The sensation had continued for 1 week. He had a history of dilated cardiomyopathy and had been taking warfarin to prevent arterial coagulation and other medications for the treatment of hypertension and atherosclerosis. His height, which had previously been 173 cm, was 168 cm at the time of our examination as a result of cervical kyphosis associated with ageing. The patient’s neck had shortened because of habitual forward bending of the head, and that posture was associated with height loss.

Using a new folding pharyngeal scope [5], we found an aberration of the internal carotid artery in the left posterior pharyngeal wall. The pulsing of the aberrant artery was synchronized with the patient’s heartbeat (see Video 1, which was taken with the new pharyngeal scope). The unusual strange sensation around the pharynx resulted from a separation of the pharyngeal wall, which contains the mucosa, submucosa, and superior pharyngeal constrictor muscle, because of the aberration of the internal carotid artery. When he was lying in the supine position without a pillow, the patient’s bent posture disappeared and the aberration of the internal carotid artery in the pharyngeal wall resolved completely.

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