Dysphagia Caused by Plummer–Vinson Syndrome

Among the various types of dysphagia, cervical dysphagia is one of the rarer ones, although differences exist over the actual incidence of esophageal webs in relation to symptoms of dysphagia [1]. Plummer–Vinson syndrome comprises the triad of cervical dysphagia, iron-deficiency anemia, and postcrioid esophageal web. Dysphagia and even webs are relatively common occurrences in isolation, but the complete triad of the Plummer–Vinson syndrome is a rare occurrence [1, 2].

A 45-year-old Saudi lady presented with 4 years of dysphagia with regard to solid foods, and a mild weight loss. Physical examination revealed angular stomatitis, glossitis, and koilonychia (Figure 1). Initial blood investigations revealed the following: hemoglobin 6.9 g/dl, mean corpuscular hemoglobin 18 pg, mean corpuscular volume 60 fl; platelets 329 x 10^3/l; leucocytes 4.8 x 10^4/l; serum iron 5 μmol/l (14–32 μmol/l); ferritin 1 μg/l (8–140 μg/l). The patient then underwent esophagogastroduodenoscopy, which revealed a longitudinal whitish web extending like a curtain across the entire diameter of the esophagus near the upper esophageal sphincter (Figure 2). Subsequently, the web was disrupted endoscopically using the biopsy forceps. Following the endoscopy session, the patient’s symptoms resolved completely.

Most of the reports included in previous studies do not display the clinical triad essential for the diagnosis of Plummer–Vinson syndrome [1–3]. This disease occurs mostly in middle-aged women [4]. The pathogenesis of the syndrome is not well understood, although underlying iron deficiency is being touted as the possible underlying explanation [4]. The fact that this disease is extremely rare in certain regions where iron deficiency is endemic casts doubt on this interesting theory [3]. The incidence of iron deficiency is relatively high in the Saudi population, yet to our knowledge, this is the first case report of this disease from our region. While cineradiography is a sensitive method of investigating these patients, nevertheless endoscopy is a safe and reliable means of diagnosing upper esophageal webs [5]. In addition to establishing the diagnosis, treatment can be offered in the same endoscopic setting. The patient was commenced on iron therapy with substantial improvement of her symptoms and the

References


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