A 50-year-old woman presented with dysphagia since 1 week. She did not drink alcohol and there was no history of systemic disease, including dermatologic, immunologic, or genetic disease. The initial laboratory findings, complete blood count, and serum biochemistries were normal, except the serum vitamin B₁₂ level, which was 52 pg/mL (normal range: 126–505 pg/mL). Upper endoscopy revealed pangastritis with whitish strips and pseudomembranes on the esophageal mucosa, which peeled off similarly to eosinophilic esophagitis or a lesion of dermatologic origin (Fig. 1).

The lesions, which presented as discrete patches starting in the upper esophagus, extended diffusely through the entire esophagus. While the gastric biopsy samples showed features of atrophic gastritis, the esophageal biopsy samples were interpreted as parakeratosis (Fig. 2). Serum antiparietal antibodies were also positive. The patient was diagnosed as having early-stage pernicious anemia and esophageal parakeratosis. Replacement therapy with vitamin B₁₂ injections was followed by prompt resolution of the dysphagia, and a repeat endoscopy showed complete healing of the esophageal mucosa, which peeled off similarly to the established findings of pernicious anemia due to vitamin B₁₂ deficiency leading to esophageal parakeratosis (Fig. 3).

The control biopsy samples showed only minimal parakeratosis despite the short-term therapy (Fig. 4). Diffuse esophageal parakeratosis is a rare endoscopic diagnosis and is associated with conditions such as tylosis, mucosal hyperkeratosis syndrome, pachyonychia congenita, ethanol exposure, duodenal reflux, riboflavin deficiency, and zinc deficiency [1–6]. Following this first report of pernicious anemia due to vitamin B₁₂ deficiency leading to esophageal parakeratosis, we recommend adding it to the long list of etiologic factors of this condition. Our patient presented with the sole symptom of dysphagia, that is without the established findings of pernicious anemia, such as low hemoglobin, other cytopenias, neurologic findings, and megaloblastic. Like the majority of reported cases of esophageal parakeratosis due to nutritional deficiencies, our patient’s symptoms and signs also resolved after replacement of the specific deficiency [7].

**References**


**Bibliography**


Endoscopy 2011; 43: E231

© Georg Thieme Verlag KG Stuttgart · New York · ISSN 0013-726X

**Corresponding author**

T. Purnak

Department of Gastroenterology, Ankara Numune Education and Research Hospital, Ankara, Turkey

Fax: +90-312-4414694

purnakt@yahoo.com

Kayhan B et al. Dysphagia resolved with vitamin B₁₂ therapy... Endoscopy 2011; 43: E231