Drug-induced injury of the gastrointestinal tract is increasingly common but generally under-recognized. Within the esophagus, abnormalities are commonly referred to as “nonspecific pill esophagitis”, characterized by erosions, ulcers or occasionally strictures. Alendronate, doxycycline, and potassium chloride have been identified as potential causes [1].

A 63-year-old man who was on long-term calcineurin inhibitor (cyclosporine) therapy due to heart transplantation 12 years earlier, presented with retrosternal pain, odynophagia, and dysphagia. Laboratory tests were unremarkable. The oral cavity was normal on inspection. Endoscopy disclosed multiple glassy polyps measuring up to 5 mm in diameter within the esophagus (Fig. 1 a), of which three were removed by snare polypectomy. Endoscopic ultrasound showed thickening and splitting of the submucosal layer (Fig. 1 b). Histology revealed massive subepithelial matrix accumulation with edema, fibrosis, and patchy mixed inflammatory infiltrate (Fig. 2).

Cyclosporine was changed to tacrolimus, and the patient was put on symptomatic therapy with sucralfate. At control endoscopy 6 months later, the number and size of the polyps had markedly decreased and the patient was asymptomatic (Fig. 3). Gingival overgrowth represents a well recognized side effect of long-term calcineurin inhibitor therapy, occurring in up to 70% of transplant patients [2, 3]. The pathogenesis is complex, and several mechanisms have been proposed to explain increased production of matrix and/or collagen, which is accompanied by reduced activity of matrix metalloproteinases [4]. Less frequently, calcineurin inhibitor therapy-associated inflammatory polyps originate from nongingival tissues of the oral cavity, for example the tongue or the buccal mucosa [4].

The presented case is the first to show calcineurin inhibitor therapy-associated inflammatory polyps within the esophagus. Therapy is mainly symptomatic. If dose reduction is not feasible in a transplant patient, substitution with tacrolimus may be considered which, similar to cyclosporine, can alter fibroblast metabolism, albeit to a lesser extent. In patients suffering...
from autoimmune disease change to an immunosuppressant other than a calcineurin inhibitor is recommended.

Competing interests: None

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