Tako-tsubo cardiomyopathy following gastroscopy: a complication to consider

A 69-year-old woman, who was a former smoker, presented with dysphagia to solids and liquids and epigastric pain over a period of 8 weeks. An upper gastrointestinal endoscopy was performed, without incident, and revealed gastric atrophy in the antrum (Fig. 1). Biopsies were taken according to the Sydney protocol. After the procedure the patient suffered from chest pain. Electrocardiogram revealed T-wave inversion in precordial leads DI-AVL and V2-V5 (Fig. 2). Troponin level was also elevated (0.53 ng/mL). Urgent coronary angiography was performed and revealed entirely normal coronary vasculature. Left ventriculography demonstrated akinesis of the mid-ventricular anterior segment (Fig. 3, Video 1).

Echocardiography showed an ejection fraction of 60% and confirmed the akinesis of the mid-ventricular anterior segment. The patient’s symptoms improved with aspirin and a beta blocker. There were no complications and the patient was discharged after 72 hours, without any symptoms.

A diagnosis of tako-tsubo cardiomyopathy (TTC) following gastroscopy was made based on the transient and completely reversible wall motion abnormalities and chest pain syndrome without occlusive coronary disease. TTC is a reversible cardiomyopathy that typically occurs in women over the age of 50 years and can mimic an acute coronary syndrome [1]. There are few reports of TTC after gastrointestinal procedures (oral-contrast radiology and colonoscopy) [2]. It has been suggested that catecholamines may play a role in triggering TTC because patients often have preceding emotional or physical stress [3]. Overall the long-term survival is the same as that of the age-matched population and recurrence is possible [4].

Endoscopy_UCTN_Code_CPL_1AN_2AG
Competing interests
None

The authors
Martín Oricchio¹, Rodrigo Dorelo¹, Juan Pablo Bachini², Daniela Méndez¹, Adrián Canavesi¹
¹ Clínica de Gastroenterología, Hospital de Clínicas, Montevideo, Uruguay
² Centro Cardiovascular Universitario, Hospital de Clínicas, Montevideo, Uruguay

Corresponding author
Martin Oricchio, MD
Clínica de Gastroenterología, Hospital de Clínicas, Av. Italia S/n CP, 11600, Montevideo, Uruguay
Fax: +598-2-4872572
martinoricchio@hotmail.com

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DOI https://doi.org/10.1055/a-1028-6899
Published online: 7.11.2019
Endoscopy 2020; 52: E140–E141
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

Video 1 Tako-tsubo cardiomyopathy following gastroscopy.

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