A tablet of clopidogrel remaining in the lower esophagus after primary percutaneous coronary intervention for acute myocardial infarction

A 70-year-old woman with ST-segment elevation myocardial infarction (STEMI) underwent primary percutaneous coronary intervention (pPCI). She did not have a past history of either gastrointestinal disease or pemphigoid. Before the pPCI, she received dual antiplatelet therapy (a total of six tablets taken as a loading dose without much water) and maintained a supine position for several hours. The patient experienced back pain during the pPCI procedure, and blood testing showed a hemoglobin level of 10.0g/dL. During gastroscopy after the pPCI, a thin, white coat of esophageal erosion was noted (Fig. 1a, Fig. 1b), and a clopidogrel tablet (red arrow) remained in the esophagus (Fig. 1c). A second gastroscopy showed healing of the epithelial membrane (Fig. 1d) and no evidence of gastric ulcer. It is not clear if the drug itself caused the widespread esophageal mucosal damage or “stress” associated with STEMI, and the drug exacerbated the problem to some extent. Because clopidogrel is a produg and exerts its antiplatelet effect after absorption, the clopidogrel tablet itself probably stimulated the esophageal mucosa in the present case [1–3]. To avoid such undesirable situations, a patient with STEMI who is undergoing pPCI should take an adequate amount of water with the pills and should maintain a right lateral decubitus position for a few minutes in the emergency room before going to the catheter laboratory.

Competing interests: None

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Fig. 1 a,b Gastroscopic images obtained after primary percutaneous coronary intervention (pPCI) in a 70-year-old woman with ST-segment elevation myocardial infarction (STEMI) show a thin, white coat of esophageal erosion. c A clopidogrel tablet (red arrow) remains in the esophagus. d Gastroscopic image obtained 1 week after pPCI shows healing of the epithelial membrane.