



Image of the month

Inverted-3 Sign of Frostberg Forces to Exclude Malignancy[☆]



El signo del «3 invertido» de Frostberg obliga a descartar malignidad

José Ruiz Pardo,^{*} Francisco Sánchez Bueno, Gloria Torres Salmerón, Pascual Parrilla Paricio

Servicio de Cirugía General y del Aparato Digestivo, Hospital Clínico Universitario Virgen de la Arrixaca, El Palmar, Murcia, Spain

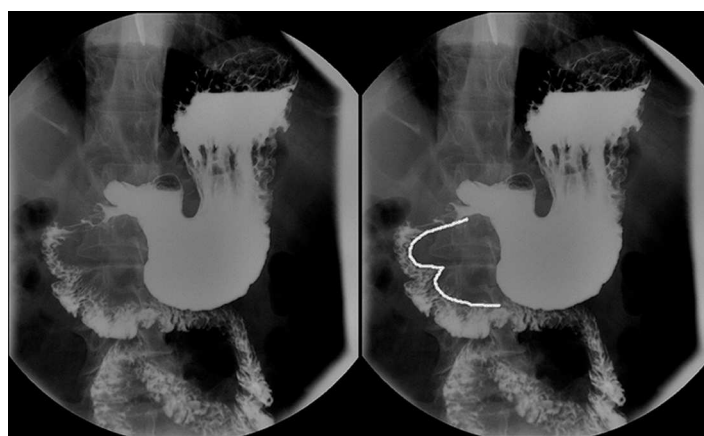


Fig. 1

The inverted-3 sign of Frostberg or epsilon sign appears in gastroduodenal transit studies when the head of the pancreas tractions over the second part of the duodenum, thus eliminating the shape of the letter “C” and creating the shape of an epsilon (ϵ). It is observed in 3% of periampullary tumours and is not diagnostic as it can also be seen in pancreatitis or post-bulbar ulcers.

We present the case of a 70-year-old male patient with chronic pancreatitis who came to our consultation with digestive intolerance. Gastroduodenal transit study (Fig. 1) demonstrated this sign. After several diagnostic tests, malignancy was ruled out by endoscopic ultrasound guided fine needle aspiration.

Diagnosis

Chronic pancreatitis.

[☆] Please cite this article as: Ruiz Pardo J, Sánchez Bueno F, Torres Salmerón G, Parrilla Paricio P. El signo del «3 invertido» de Frostberg obliga a descartar malignidad. Cir Esp. 2015;93:e57.

^{*} Corresponding author.

E-mail address: josrp@hotmail.es (J. Ruiz Pardo).