

## A case of gastric duplication evaluated by gastric emptying scintigraphy

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Gastric duplications are relatively rare, and communication with the gastric lumen is extremely rare. A 67-year-old man was referred to our hospital because of recurrence of epigastric pain and fullness. An upper gastrointestinal contrast study revealed a double compartment stomach, with gastric duplication starting at the esophagogastric junction outside the greater curvature. Computed tomography of the stomach with gastrografin as contrast demonstrated complete communication of the gastric duplication and primary stomach. The patient was diagnosed with complete gastric duplication. Gastric emptying scintigraphy with Tc-99m diethyltriamine pentaacetic acid was performed. Test meal entered the primary stomach and duplication cyst simultaneously, and radioactivity in the primary stomach decreased linearly and gastric emptying was not delayed. In the duplication cyst, about 70% of the food that entered the cyst once was immediately evacuated from it, but the remaining 30% remained in the cyst for a long time. Gastric emptying of the primary stomach was not affected by formation of the duplication cyst.

**Key words:** gastric duplication, gastric emptying scintigraphy, Tc-99m DTPA