

Computed Tomography in the Differential Diagnosis of Acute Mesenteric Ischemia with Other Acute Abdominal Diseases

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Abstract

The aim of this study was to estimate possibilities of CT и CT angiography in the diagnosis of acute mesenteric ischemia and its differential diagnosis with other acute abdominal diseases. In our clinic 126 patients with clinically suspected acute mesenteric ischemia underwent abdominal CT as the first, and usually the sole, diagnostic procedure. Mesenteric ischemia was diagnosed in 66 (52,4 %) patients [(52 (41,3 %) – arterial embolism and arterial thrombosis, 12 (9,5 %) – venous thrombosis and 2 (1,6 %) – from the nonocclusive type)], acute intestinal obstruction (mechanical) – in 20 (15,8 %), tumors – in 18 (14,3 %) [of the small/large intestine – 10 (8 %), pancreas – 6 (4,8 %), stomach – 1 (0,8 %), carcinoid – 1 (0,8 %)], inflammatory changes – in 5 (4 %) [enterocolitis – 2 (1,6 %), appendiceal abscess – 1 (0,8 %), abscess of the greater omentum – 1 (0,8 %), nonspecific mesadenitis – 1 (0,8 %), perforation of a hollow organ – in 1 (0,8 %) (gangrenous Meckel's diverticulum)], in 16 (12,7 %) cases acute surgical pathology is not detected. All positive CT findings were confirmed by surgery or by clinical follow-up.

Key words: Computer Tomography, Computed Tomographic Angiography, Acute Mesenteric Ischemia, Acute Abdominal Pain.

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