Multislice Computed Tomography in Diagnosis of Chronic Colostasis in Children

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Abstract
The article explored the role multislice computed tomography (MSCT) in the diagnosis of chronic colostasis in children. Described the criteria for selection of children, features to prepare them for investigation, technique his, the data are analyzed in order to select the method of surgical intervention. Comprehensive study, including MSCT scan was performed in 34 children with chronic colostasis in age from 3 to 14 years, of whom 20 (58,8 %) underwent MSCT-virtual colonoscopy, 14 (41,2 %) — MSCT-contrast colonography. In 15 (44,1 %) patients identified dolichocolon and dolichomegacolon, in 19 (55,9 %) — dolichosigma, in 11 (32,4 %) — cecoileal reflux, in 13 (38,2 %) — inflammatory diseases of the colon. In 16 (47,1 %) occurred children combination of various pathologies of the colon. Virtual colonoscopy is allowed to make a virtual endoscopic examination of the colon lumen and thereby evaluate the inner surface of the colon: character folds, changing terrain mucosal, smoothness it, luminal narrowing, and also to determine the shape gut, lumen width throughout and identify deformation contour. Contrast colonography possible to determine the shape of the gut, its location, haustration, width lumen throughout, the presence of additional loops, contour deformations, stenosis, and identify cecoileal reflux, anomaly of development of the colon. MSCT-VCS and MSCT-CCG results allowed establishing an accurate diagnosis of chronic colostasis and proper treatment.

Key words: Multislice Computed Tomography, Colostasis, Anomaly of Development of the Colon, Children.

References


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