Multi-slice CT angiography in diagnosis of pancreatic regional portal hypertension

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View from specialist: It is creative, and of certain scientific and educational value.

[ABSTRACT] Objective: To evaluate value of multi-slice CT angiography (MSCTA) in diagnosis of pancreatic area of portal hypertension (PSPH). Methods: A total of 50 cases with PSPH were selected. Portal vein anatomy and blood flow imaging were detected, and compared with color Doppler ultrasound (CDUS). Results: MSCTA showed the excellent rate of PV, SV and SMV were 90%, 85%, 85% while the CDUS showed the excellent rate of PV, SV and SMV were 70%, 70%, 70%. And there were significant differences between the two methods ($P<0.05$). The analysis of MSCTA and CDUS showed positive correlation among hemodynamic parameters, and there were significant differences in hemodynamic parameters of PV, SV and SMV between the two methods ($P<0.05$). Conclusions: MSCTA and post image-processing technology can show PSPH collateral blood vessels from different directions, which are better than CDUS. It can provide valuable diagnostic information for clinical development.

[KEY WORDS] Multi-slice CT angiography; Pancreatic region portal hypertension; Color Doppler ultrasound