Application and progress of medical imaging in total mesopancreas excision for pancreatic head carcinoma

Abstract

Pancreatic head carcinoma (PHC) is one of the common gastrointestinal malignancies with a high morbidity and poor prognosis. At present, radical surgery is still the curative treatment for PHC. However, in clinical practice, the actual R0 resection rate, the local recurrence rate, and the prognosis of PHC are unsatisfactory. Therefore, the concept of total mesopancreas excision (TMpE) is proposed to achieve R0 resection. Although there have various controversies and discussions on the definition, the range of resection, and clinical prognosis of TMpE, the concept of TMpE can be effectively...
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The mesopancreas is the second portion of the pancreatic head nerve plexus. Isolated PD is the ideal surgery for pancreatic head cancer from both surgical and oncological viewpoints. In patients with resectable pancreatic head cancer, isolated PD using the mesenteric approach is suspected to have a higher survival rate than conventional PD using Kocher's maneuver. The precise surgical techniques of ...

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Artificial intelligence in pancreatic disease
Artificial intelligence (AI) describes the use of computers to simulate performance and critical thinking equivalent to a human being. Its application in radiology has been growing rapidly, powered by the availability of large datasets, advances in computing power, and newly developed algorithms. The progress in AI of medical imaging analyses has converted these images into quantitative and ...
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