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Prediction of peritoneal free cancer cells in gastric cancer patients by golden-angle radial sampling dynamic contrast-enhanced magnetic resonance imaging

Key words: Gastric cancer, Magnetic resonance, Golden-Angle Radial Sampling, Nomogram model, Peritoneal free cancer cells

Research Summary

This study investigated the feasibility of using GRASP DCE-MR imaging to predict the presence of peritoneal free cancer cells in gastric cancer patients

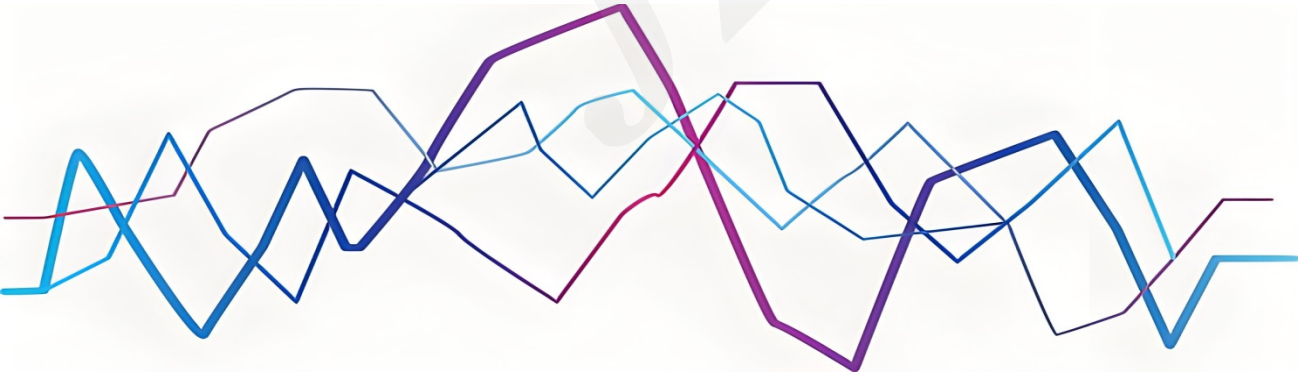




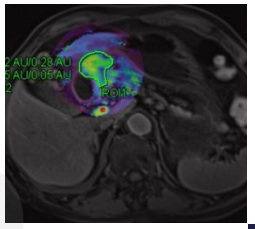


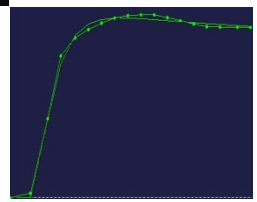
Research Summary

- **Clinical data, MRI GRASP parameters, and PLC results were collected in patients with gastric cancer**
- **Regression analysis was used to screen meaningful MRI variables associated with PLC**
- **A nomogram model of MRI parameters predicting positive cancer cells in PLC was established**
- **The validity of the prediction model is verified internally and externally**

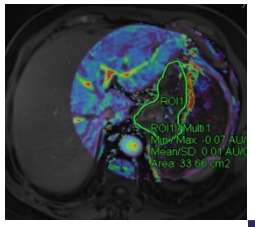


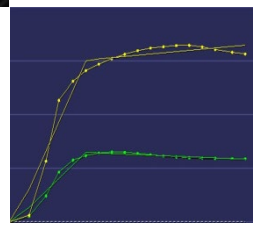
Innovation points





- **Adopt a noninvasive imaging method to detect free abdominal cancer cells in gastric cancer for the first time.**





- **Combined the traditional magnetic resonance images with perfusion parameters.**

- **Created a nomogram prediction model, and verified its effectiveness both internally and externally.**

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