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Utilization of 3D printing technology in hepatopancreatobiliary surgery

Key words: 3D printing, Hepatopancreatobiliary surgery, Organ model, Cancer model

Research Summary

This review focused on the status of research and application of 3D printing technology in the field of hepatopancreatobiliary surgery.

- 3D printing technology has been applied to create detailed anatomical models for disease management, medical training and patient education.

- Cancer models have been created using 3D printing technology for the research and selection of chemotherapy drugs.

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Innovation points

Comprehensive table and figure were generated to summarize the seven common types of 3D printing technology and application of 3D printing technology in the hepatopancreatobiliary surgery.

Table 1 | Summary of different 3D printing technologies.

Figure 1 | 3D-printed models for hepatic tumors.

Figure 2 | 3D-printed model of intra-abdominal cavity.

Figure 3 | 3D-printed polycaprolactone biliary stents.

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