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*Retrospective Study*

**Intraoperative frozen section diagnosis of bile duct margin for extrahepatic cholangiocarcinoma**

Shiraki T *et al.* Frozen section diagnosis for cholangiocarcinoma

Takayuki Shiraki, Hajime Kuroda, Atsuko Takada, Yoshimasa Nakazato, Keiichi Kubota, Yasuo Imai

**Abstract**

**AIM**

To evaluate the usefulness of frozen section diagnosis (FSD) of bile duct margins during surgery for extrahepatic cholangiocarcinoma (CCA).

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cholangiocarcinoma is almost always known prior to surgery. Thus, diagnostic frozen sections are rarely performed. Cholangiocarcinomas that involve the liver occur either in the proximal extrahepatic bile ducts and directly extend into the liver (hilar cholangiocarcinoma or Klatskin tumor) or they arise from the intrahepatic ...

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In contrast, a **diagnosis** of intrahepatic **cholangiocarcinoma** is almost always known prior to surgery. Thus, **diagnostic frozen sections** are rarely performed. ... **Intraoperative** consultations for **cholangiocarcinoma** are usually limited to **bile duct margin** evaluation on tumors that involve the perihilar region, although surgeons ...