

Precision and clarity: The benefits of the eyeMax cholangioscope

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Presentation

Nurses

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The speaker presented the newest generation cholangioscopy system with 160,000-pixel imaging, 2mm working channel, and glass-fiber construction, highlighting its indications including cholangiocarcinoma evaluation, stone management, and stricture assessment.

KEY POINTS

- The speaker reported that cholangioscopy indications include suspected cholangiocarcinoma in approximately 30-32% of cases, indeterminate stones or CBD wall sludge in approximately 37% of cases, foreign body removal, and assessment of indeterminate strictures
- The newest generation system has approximately 160,000 pixels compared to foggy, blurred images from first-generation devices, and the speaker stated it can be combined with AI for future structure identification
- The new cholangioscope contains more than 4000 glass fibers rather than plastic, and the speaker stated that if a thousand fibers break the image quality remains unchanged
- The working channel expanded from 1.2mm to 2mm, which the speaker said enables wider therapeutic options including larger biopsy forceps for more accurate tissue sampling and future accessories like extraction balloons and dilatation balloons
- The light source is located in the handle rather than a separate processor, resulting in a silent system with no fan, no servicing requirements, and no shelf life according to the speaker
- The speaker described a case at Semmelweis University as the world's first intraoperative cholangioscopy performed in cooperation with DaVinci robotic surgery, and stated the system supports wire-guided lithotripsy with simultaneous guidewire and probe use

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