Endoscopic OCT (**Presentation Video**)

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ABSTRACT

In this Hot Topics presentation, Brett Bouma notes how diagnostic procedures using optical coherence tomography (OCT) technology have become the gold standard for detecting diseases of the eye, heart and gastrointestinal tract, looking for disease in the body -- without incisions. Advances in endoscopic OCT have included a 20-fold increase in image speed, now producing 3,000 frames per second. Other advances include new probes such as tethered capsules, polarization sensitive imaging, and uses in biopsy guidance. The technique has been in use since the 1990s in animals and in humans since 2002. But the clinical community was skeptical until studies in 2003 showed ways to obtain dramatically higher speed imaging of tissues over a wider field of view.

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