



AI Technology Goes Deeper for a Clearer View

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Why we did this research

Most colorectal cancers develop from their precursors, colorectal polyps, and the best way to fight colorectal cancer is by removing colorectal polyps during colonoscopy, before they progress to cancer. Polyps usually reoccur, and the time between colonoscopies depends on the polyp type diagnosed during microscopic examination by pathologists. Some polyp types may progress to colorectal cancer faster than other types. Unfortunately, accurate classification of some polyp types can be challenging, and there is a large degree of variability among pathologists on how to classify polyps.

What we did

We built an artificial intelligence (AI) model to automatically identify and classify polyp types on high-resolution images to help clinicians in standardizing polyp diagnosis and developing individualized colonoscopy follow-up plans.

What we learned

Our AI model is able to quickly and accurately classify different types of polyps on high-resolution images from Dartmouth-Hitchcock Medical Cancer and other participating hospitals. The model displays the polyp clearly and suggests polyp classification as accurately as expert pathologists.

Why this is important

Our AI model can assist pathologists in making a more accurate and standardized classification of different polyp types removed during colonoscopy and improved patient follow-up plans in the fight against colorectal cancer.

Visit <https://tinyurl.com/vax9u3ak> to learn more about our research.

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