

COMPARISON OF THE DIAGNOSTIC ACCURACY OF POLYDEEP, AN ARTIFICIAL INTELLIGENCE COMPUTER-AIDED DIAGNOSIS SYSTEM (CADE/X) WITH ENDOSCOPISTS FOR THE CHARACTERIZATION OF COLORECTAL POLYPS

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Poster

Colorectal

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A CADe/x system called Polydeep demonstrated comparable diagnostic accuracy to expert endoscopists for optical diagnosis of colorectal polyps in a study of 2364 histologically confirmed polyp images.

KEY POINTS

- Polydeep achieved 90.34% sensitivity and 35.31% specificity for identifying neoplastic polyps, compared to expert endoscopists who achieved 91.56% sensitivity and 35.23% specificity, with no significant difference in specificity ($p=0.355$) but a statistically significant difference in sensitivity ($p<0.001$).
- The study evaluated images of adenomas (69.12%), Traditional Serrated Adenoma or Serrated Sessile Lesion (14.8%), and hyperplastic polyps (16.7%), with lesions classified as neoplastic or non-neoplastic.
- Area Under the Curve values were similar between Polydeep (0.628) and endoscopists (0.634), with no significant difference ($p=0.91$).
- The authors conclude that Polydeep is as accurate as expert endoscopists for optical diagnosis of colorectal polyps, though PolyDeep classified fewer lesions as neoplastic overall (77.62% versus 87.1%).

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