MEASURING SIZE OF COLORECTAL POLYPS USING A VIRTUAL SCALE ENDOSCOPE OR VISUAL SIZE ESTIMATION: A RANDOMIZED CONTROLLED TRIAL

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UEG Week Copenhagen 2023 | Poster

Colorectal

October 15, 2023

A randomized trial of 230 patients found that virtual scale endoscope (VSE) laser-based measurement achieved significantly higher relative accuracy (84%) than visual assessment (68.4%) when measuring colorectal polyp size against caliper reference standard.

KEY POINTS

- VSE measured 204 polyps in 79 patients with 84% relative accuracy compared to 68.4% for visual assessment of 166 polyps in 80 patients (p<0.001)
- VSE had significantly lower rates of incorrectly sizing polyps greater than 5mm as 1–5mm compared to visual assessment (13.5% vs 57.1%, p=0.0005)
- 81.4% of VSE measurements were within 25% of true caliper size compared to 41% for visual assessment (p<0.001)
- Both methods showed a tendency toward size underestimation, but VSE demonstrated significantly less underestimation than visual assessment (p<0.001)
- The study was funded by Fujifilm and enrolled patients undergoing screening, surveillance, or diagnostic colonoscopies with measurements compared to digital caliper measurement of fresh specimens

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