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Study Summary

Improved Adenoma Detection with the ENDOCUFF VISION™ Device: The Adenoma Randomized Controlled Trial

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Conclusion

The ENDOCUFF VISION™ device enhances the adenoma detection rate in patients in the UK bowel cancer screening program in comparison to standard colonoscopy.

Objective

To evaluate the impact of the ENDOCUFF VISION™ device on the adenoma detection characteristics in a colorectal cancer screening population.

Design

Multicenter randomized controlled trial comparing the ENDOCUFF VISION™ device -assisted colonoscopy to standard colonoscopy; enrollment of patients from seven hospitals and 48 colonoscopists in the UK.

Indication

Patients referred to colonoscopy as part of the postpolypectomy surveillance program or patients part of the Bowel Cancer Screening Program with a positive fecal occult blood test (FOBT).

Participants

Within the study, 884 patients were enrolled into the standard colonoscopy (SC) arm and 888 in the ENDOCUFF VISION™ arm. Of all patients, 797 were part of the UK Bowel Cancer Screening Program (BCSP) with a positive FOBT (SC n= 403; ENDOCUFF VISION™ device n= 394). All other patients were non-BCSP patients and therefore not tested with a FOBT.

Results

- The ENDOCUFF VISION™ device improved the ADR in the total population by 4.7 percentage points (SC 36.2% vs. ENDOCUFF VISION™ 40.9%; p <0.001).
- In the FOBT-positive subgroup, the ENDOCUFF VISION™ device substantially improved ADR by 10.8 percentage points (SC 50.9% vs. 61.7% ENDOCUFF VISION™; p <0.001).
- Additionally, patients screened with the ENDOCUFF VISION™ device had higher mean adenomas per procedure and a larger number of left-sided, diminutive and small adenomas.
- No difference in adverse events was detected between the two groups.

Key Findings

The ENDOCUFF VISION™ device increases the adenoma detection rate in a screening population, most clearly in a FOBT + population.

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