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Two vs one forward view examination of right colon on adenoma detection: an international multicenter randomized trial

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Joseph J.Y. Sung   • on behalf of the Asia Pacific Working Group on Colorectal Cancer Screening •Show all authors Published: October 13, 2020 • DOI: <https://doi.org/10.1016/j.cgh.2020.10.014>

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ABSTRACT

Background and aims

Second forward view (SFV) examination of right colon (RC) in colonoscopy was suggested to improve adenoma detection rate (ADR), but multicenter data to inform its routine use remain limited. We performed an international multicenter randomized trial comparing SFV versus standard single forward view examination of RC on adenoma detection.

Methods

Asymptomatic individuals undergoing screening or surveillance colonoscopies from 6 Asia



standard withdrawal examination from hepatic flexure to rectum, or a standard withdrawal colonoscopy (SWC) examination from hepatic flexure to rectum. Primary outcome was RC ADR.

Results

Between 2016 and 2019, 1011 patients were randomized (SFV group: 502, SWC group: 509).

Five endoscopists performed the colonoscopies. The RC ADR was significantly higher in the SFV group than the SWC group (27.1% vs 21.6%, $p=0.042$). The whole-colon adenoma detection rate was also significantly higher in the SFV group than the SWC group (38.1% vs 32.1%, $p=0.002$).

high in both groups (49.0% vs 45.0%, $p=0.201$). SFV examination identified 58 additional adenomas in 49 patients (9.8%), leading to a change in surveillance recommendation in 15 patients (3.0%). The median overall withdrawal time was 1.5 minute longer in the SFV group (12.0 vs 10.5 minutes, $p<0.001$). Older age, male gender, ever smoking, and longer RC withdrawal time were independent predictors of right-sided adenoma detection.

Conclusion

In this multicenter trial, SFV examination significantly increased RC ADR in screening and surveillance colonoscopies. Routine RC SFV examination should be considered.

ClinicalTrials.gov ID: NCT03121495.

Keywords

[second forward view](#) • [right colon](#) • [adenoma detection](#)

Abbreviations:

[adenoma detection rate \(ADR\)](#), [Boston Bowel Preparation Scale \(BBPS\)](#), [colorectal cancer \(CRC\)](#), [right colon \(RC\)](#), [second forward view \(SFV\)](#), [sessile serrated polyp/adenoma \(SSP\)](#), [standard withdrawal colonoscopy \(SWC\)](#)

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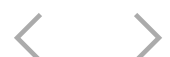


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Raymond S.Y. Tang: study concept and design, endoscopist performing procedures, interpretation of data, drafting of manuscript, critical revision of manuscript.

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Yee Kit Tse: analysis of data, critical revision of manuscript.

Lucy Lin: patient recruitment, critical revision of manuscript.

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