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CRC Screening in Ibaraki Prefecture of Japan

- Ibaraki prefecture has adopted two days FIT method with 100 ng/mL (20 µgHb/g) cut-off concentration (OC-SENSOR, EIKEN JAPAN).
- Regional Screening participants were 616,086 from April 2007 to March 2012.
- PPV and Dukes' classification in
 - 1st day positive: **+/+**, **+/-**, **+/n.d.**
 - 1st day negative and 2nd day positive: **-/+**
- Detected cancer cases (1,079) were classified by Dukes' classification.


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Conclusions

- As the proportions of positive FIT, cancer, and invasive cancers were 62 %, 78 %, and 84 %, respectively.
- FIT one day method might miss 20% of CRC detected by FIT two days method.
- As the proportion of positive FIT, both two-days positive group was 19 %.
- Both two days positive group showed 5 times higher PPV for total cancer detection and 9 times higher PPV for invasive cancer detection than the first day only positive group.
- Both two days positive group in FIT two days method showed the highest PPV.

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Screening result (April 2007 to March 2012)

Number of participants (M+F) over 40 years old	616,086		
	First day positive (+/+; +/-; +/n.d.)	First day negative (-/+)	Two-days positive (+/+)
Number of positive FIT	27,331 (62%)	17,113 (38%)	8,298 (19%)
FIT positive rate(%)	4.4	2.8	1.5
Number of underwent work-up examination	19,914 (62%)	12,730 (38%)	5,955 (19%)
Work-up exam rate(%)	72.9	74.4	71.8
Number of detected CRC	846 (78%)	233 (22%)	562
Detection rate(%)	0.1373	0.0378	0.0912
PPV(%)	3.095	1.362	6.773
Number of invasive CRC	477 (84%)	93 (16%)	360
Detection rate(%)	0.0774	0.0151	0.0584
PPV(%) for invasive CRC	1.745	0.543	4.338

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