

Supplementary file 1

| Table S1. Colonoscopy and histopathology outcomes among FIT positive participants | | | | |
|--|--------------------|------------------------|----------------------|----------------|
| | Male (n=46) | Female, (n=104) | Both, (n=150) | P-Value |
| | n (%) | n (%) | n (%) | |
| Normal | 18 (39.1) | 48 (46.2) | 66 (44.0) | 0.6 |
| Polyps | 18 (39.1) | 34 (32.7) | 52 (34.7) | |
| Suspicious cancer | 1 (2.2) | 2 (1.9) | 3 (2.0) | |
| Hemorrhoids/diverticula | 7 (15.2) | 19 (18.2) | 26 (17.3) | |
| Inflammatory bowel diseases | 2 (4.4) | 1 (1.0) | 3 (2.0) | |
| Investigations* | | | | |
| Biopsy | 5 (10.9) | 3 (2.9) | 8 (5.3) | 0.05 |
| Polypectomy | 18 (39.1) | 34 (32.7) | 52 (34.7) | 0.6 |
| Histopathology | | | | |
| Inflammatory/hyperplastic polyps | 2 (4.4) | 4 (3.8) | 6 (4.0) | 0.4 |
| Tubular adenomas | 16 (34.8) | 25 (24.0) | 41 (27.3) | |
| Advanced adenomas | 9 (19.6) | 11 (10.6) | 20 (13.3) | |
| Colorectal cancer | 1 (2.2) | 2 (1.9) | 3 (2.0) | |
| Polyps with unknown pathology | 0 (0.0) | 5 (4.8) | 5 (3.3) | |

FIT, Fecal immunochemical test; *among participants positive on FIT with abnormal colonoscopy.

| Table S2. Detection rates and PPV of FIT for detecting colonic neoplasms | | | | | |
|--|-----------------------|---------------------|-------------------------|------------------------|------------------|
| | Cases detected | FIT returned | Colonoscopy done | Detection rate* | PPV (%)** |
| Adenomas | | | | | |
| Female | 25 | 3276 | 104 | 7.6 (4.9–11.2) | 24.0 (16.2–33.4) |
| Male | 16 | 1537 | 46 | 10.4 (5.9–16.8) | 34.8 (21.3–50.2) |
| Total | 41 | 4813 | 150 | 8.5 (6.1–11.5) | 27.3 (20.4–35.2) |
| Advanced adenomas | | | | | |
| Female | 11 | 3276 | 104 | 3.4 (1.7–6.0) | 10.6 (5.4–18.1) |
| Male | 9 | 1537 | 46 | 5.9 (2.6–11.0) | 19.6 (9.4–33.9) |
| Total | 20 | 4813 | 150 | 4.2 (2.5–6.4) | 13.3 (8.3–19.8) |
| Colorectal cancer | | | | | |
| Female | 2 | 3276 | 104 | 0.6 (0.07–2.0) | 1.9 (0.2–6.8) |
| Male | 1 | 1537 | 46 | 0.7 (0.01–3.6) | 2.2 (0.06–11.5) |
| Total | 3 | 4813 | 150 | 0.6 (0.1–1.8) | 2.0 (0.4–5.7) |
| Advanced adenomas and colorectal cancer | | | | | |
| Female | 13 | 3276 | 104 | 4.0 (2.1–6.7) | 12.5 (6.8–20.4) |
| Male | 10 | 1537 | 46 | 6.5 (3.1–11.9) | 21.7 (10.9–36.4) |
| Total | 23 | 4813 | 150 | 4.8 (3.0–7.1) | 15.3 (9.9–22.1) |
| PPV, Positive predictive value; FIT, Fecal immunochemical test; *per 1000 FIT screened participants, **per 100 colonoscopies done. | | | | | |

| Table S3: Participant's opinion and satisfaction level regarding FIT testing (n=4818) | | | | |
|--|-----------------------|--------------|-----------------|--------------------------|
| | Strongly agree | Agree | Disagree | Strongly disagree |
| I am satisfied with time spent for FIT testing | 3646 (75.7) | 1104 (22.9) | 60 (1.2) | 8 (0.2) |
| I am satisfied with CHWs communication | 3781 (78.5) | 1035 (21.5) | 1 (0.02) | 1 (0.02) |
| I am satisfied with information given by CHWs | 3745 (77.7) | 1070 (22.2) | 2 (0.04) | 1 (0.02) |
| I would recommend FIT to my relatives and friends | 3471 (72.1) | 1317 (27.3) | 26 (0.5) | 4 (0.1) |
| With a negative FIT, it is necessary to do FIT after 2 years | 3432 (71.2) | 1324 (27.5) | 57 (1.2) | 5 (0.1) |
| Free test encourages me to participate | 3497 (72.6) | 1232 (25.6) | 77 (1.6) | 12 (0.2) |
| With a positive FIT, it is necessary to complete a colonoscopy | 3396 (70.5) | 1321 (27.4) | 92 (1.9) | 9 (0.2) |
| Colorectal cancer is a concerning disease | 3085 (64.1) | 1489 (30.9) | 209 (4.3) | 35 (0.7) |
| FIT testing is easy to do | 3136 (65.1) | 1368 (28.4) | 243 (5.0) | 71 (1.5) |
| I prefer to do FIT testing at home | 3099 (64.3) | 1300 (27.0) | 163 (3.4) | 256 (5.3) |
| Stool collection is disgusting | 1908 (39.6) | 1100 (22.8) | 1291 (26.8) | 519 (10.8) |
| FIT: fecal immunochemical test, CHW: community health workers | | | | |