Supplementary Figure 1a  One-way sensitivity analysis on the compliance rate of FS

ICER: Incremental Cost-Effectiveness Analysis. Strategy 1: Both male and female subjects received flexible sigmoidoscopy (FS) every 5 years (50, 55, 60, 65 and 70 years); Strategy 2: both male and female subjects received colonoscopy every 10 years (50, 60, 70 years); Strategy 3: FS for each woman at 50 and 55 year-old followed by colonoscopy at 60 and 70 year-old; male subjects received colonoscopy at 50, 60 and 70 year-old; Strategy 4: FS for each woman at 50, 55, 60 and 65 year-old followed by colonoscopy at 70 year-old; male subjects received colonoscopy at 50, 60 and 70 year-old; Strategy 5: FS for each woman at 50, 55, 60, 65 and 70 year-old; male subjects received colonoscopy at 50, 60 and 70 year-old.
Supplementary Figure 1b  One-way sensitivity analysis on the specificity of FS

ICER: Incremental Cost-Effectiveness Analysis. Strategy 1: Both male and female subjects received flexible sigmoidoscopy (FS) every 5 years (50, 55, 60, 65 and 70 years); Strategy 2: both male and female subjects received colonoscopy every 10 years (50, 60, 70 years); Strategy 3: FS for each woman at 50 and 55 year-old followed by colonoscopy at 60 and 70 year-old; male subjects received colonoscopy at 50, 60 and 70 year-old; Strategy 4: FS for each woman at 50, 55, 60 and 65 year-old followed by colonoscopy at 70 year-old; male subjects received colonoscopy at 50, 60 and 70 year-old; Strategy 5: FS for each woman at 50, 55, 60, 65 and 70 year-old; male subjects received colonoscopy at 50, 60 and 70 year-old.
Supplementary Figure 1c  One-way sensitivity analysis on the cost of colonoscopy

ICER: Incremental Cost-Effectiveness Analysis. Strategy 1: Both male and female subjects received flexible sigmoidoscopy (FS) every 5 years (50, 55, 60, 65 and 70 years); Strategy 2: both male and female subjects received colonoscopy every 10 years (50, 60, 70 years); Strategy 3: FS for each woman at 50 and 55 year-old followed by colonoscopy at 60 and 70 year-old; male subjects received colonoscopy at 50, 60 and 70 year-old; Strategy 4: FS for each woman at 50, 55, 60 and 65 year-old followed by colonoscopy at 70 year-old; male subjects received colonoscopy at 50, 60 and 70 year-old; Strategy 5: FS for each woman at 50, 55, 60, 65 and 70 year-old; male subjects received colonoscopy at 50, 60 and 70 year-old.
Supplementary Figure 1d  One-way sensitivity analysis on the cost of flexible sigmoidoscopy

ICER: Incremental Cost-Effectiveness Analysis. Strategy 1: Both male and female subjects received flexible sigmoidoscopy (FS) every 5 years (50, 55, 60, 65 and 70 years); Strategy 2: both male and female subjects received colonoscopy every 10 years (50, 60, 70 years); Strategy 3: FS for each woman at 50 and 55 year-old followed by colonoscopy at 60 and 70 year-old; male subjects received colonoscopy at 50, 60 and 70 year-old; Strategy 4: FS for each woman at 50, 55, 60 and 65 year-old followed by colonoscopy at 70 year-old; male subjects received colonoscopy at 50, 60 and 70 year-old; Strategy 5: FS for each woman at 50, 55, 60, 65 and 70 year-old; male subjects received colonoscopy at 50, 60 and 70 year-old.