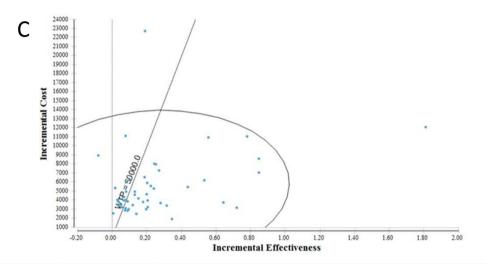
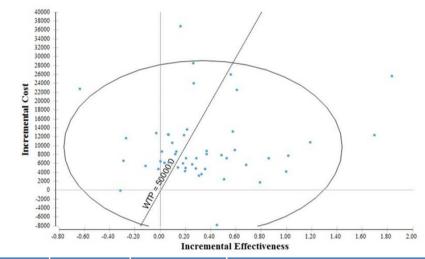
A. Probabilistic Sensitivity Analysis Summary: Biennial Stool DNA Testing with Diagnostic White Light Colonoscopy Versus No Surveillance (Natural History)



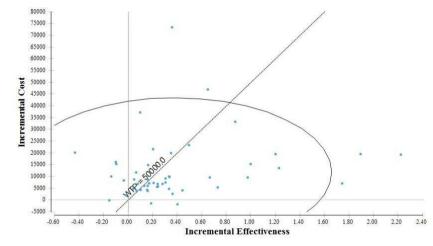
| Component | Quadrant | Overall % (n=100) | Interpretation |
|-----------|----------|----------------------|--|
| C-1 | Q-IV | 3% | Screening strategy is less costly and more effective than no surveillance. <u>Screening strategy recommended</u> because it absolutely dominates no surveillance. |
| C-2 | Q-I | 63% | Screening strategy is more costly and more effective than no surveillance. Screening strategy recommended because its ICER does not exceed WTP. |
| C-3 | Q-III | 0% | Screening strategy is less costly and less effective than no surveillance. Screening strategy recommended because its ICER does not exceed WTP. |
| C-4 | Q-I | 28% | Screening strategy is more costly and more effective than no surveillance. Screening strategy not recommended because its ICER exceeds WTP. |
| C-5 | Q-III | 1% | Screening strategy is less costly and less effective than no surveillance. Screening strategy not recommended because its ICER exceeds WTP. |
| C-6 | Q-II | 5% | Screening strategy is more costly and less effective than no surveillance. Screening strategy not recommended because it is absolutely dominated by no surveillance. |

B. Probabilistic Sensitivity Analysis Summary: Biennial Chromoendoscopy Versus No Surveillance (Natural History)



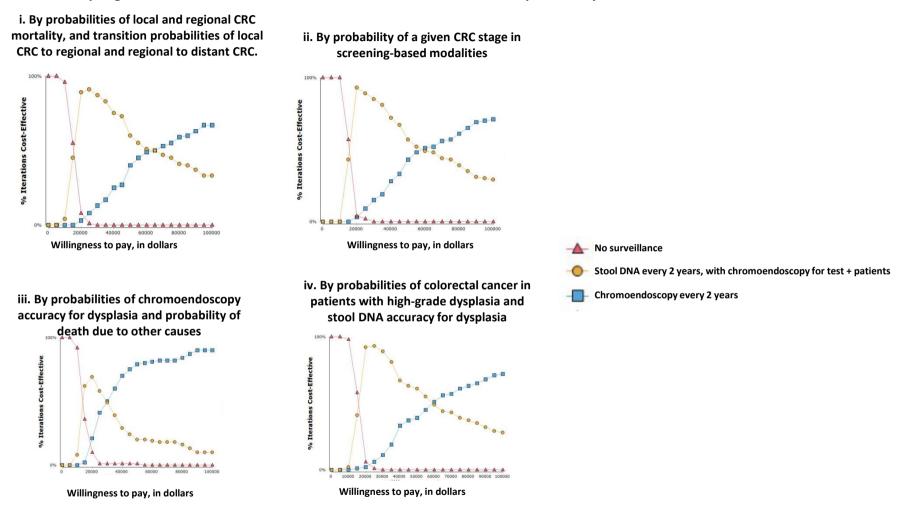
| Component | Quadrant | Overall % (n=100) | Interpretation |
|-----------|----------|----------------------|--|
| C-1 | Q-IV | 11% | Screening strategy is less costly and more effective than no surveillance. <u>Screening strategy recommended</u> because it absolutely dominates no surveillance. |
| C-2 | Q-I | 55% | Screening strategy is more costly and more effective than no surveillance. <u>Screening strategy recommended</u> because its ICER does not exceed WTP. |
| C-3 | Q-III | 0% | Screening strategy is less costly and less effective than no surveillance. Screening strategy recommended because its ICER does not exceed WTP. |
| C-4 | Q-I | 20% | Screening strategy is more costly and more effective than no surveillance. Screening strategy not recommended because its ICER exceeds WTP. |
| C-5 | Q-III | 1% | Screening strategy is less costly and less effective than no surveillance. Screening strategy not recommended because its ICER exceeds WTP. |
| C-6 | Q-II | 13% | Screening strategy is more costly and less effective than no surveillance. Screening strategy not recommended because it is absolutely dominated by no surveillance. |

C. Probabilistic Sensitivity Analysis Summary: Biennial White Light Colonoscopy Versus No Surveillance (Natural History)



| Component | Quadrant | Overall % (n=100) | Interpretation |
|-----------|----------|----------------------|--|
| C-1 | Q-IV | 11% | Screening strategy is less costly and more effective than no surveillance. <u>Screening strategy</u> <u>recommended</u> because it absolutely dominates no surveillance. |
| C-2 | Q-I | 44% | Screening strategy is more costly and more effective than no surveillance. <u>Screening</u> <u>strategy recommended</u> because its ICER does not exceed WTP. |
| C-3 | Q-III | 1% | Screening strategy is less costly and less effective than no surveillance. <u>Screening strategy</u> <u>recommended</u> because its ICER does not exceed WTP. |
| C-4 | Q-I | 32% | Screening strategy is more costly and more effective than no surveillance. Screening strategy not recommended because its ICER exceeds WTP. |
| C-5 | Q-III | 1% | Screening strategy is less costly and less effective than no surveillance. Screening strategy not recommended because its ICER exceeds WTP. |
| C-6 | Q-II | 11% | Screening strategy is more costly and less effective than no surveillance. Screening strategy not recommended because it is absolutely dominated by no surveillance. |

Sampling of CRC incidence rate with additional clusters of two or four probability-based variables



| | se Range | distribution (base case, 95% CI) | |
|-------------------------------|-----------|--|---------|
| | | (base case, | |
| | | | |
| | | 95% CI) | |
| Lille anative O alitic | | | |
| Ulcerative Colitis | | | |
| Annual rate of UC 0.0023 | 0.0016- | Beta (0.0023; | 1,2 |
| flare requiring | 0.0075 | 0.0015) | |
| colectomy | | | |
| Probability of 0.0013 | 0.0001- | Beta (0.0013; | 3 |
| death due to other | 0.003 | SD 0.0007) | |
| causes in UC | | | |
| Colonoscopy test characterist | ic | | l |
| WLE sensitivity for 0.695 | 0.00-1.00 | Beta (0.695, | 4-7 |
| dysplasia | | SD 0.100) | |
| WLE specificity for 0.9 | 0.00-1.00 | Beta (0.90, | 4, 7, 8 |
| dysplasia | | SD 0.15) | |
| WLE or 0.9 | 0.80-1.00 | Beta (0.9; SD | 4, 6, 9 |
| chromoendoscopy | | 0.05) | |
| sensitivity for CRC | | | |
| WLE or 0.999 | 0.90-1.00 | Beta (0.999; | 1, 4 |
| chromoendoscopy | | SD 0.025) | |
| specificity for CRC | | | |
| Chromoendoscopy 0.833 | 0.36-1.00 | Beta (0.833, | 7, 10 |
| sensitivity for | | SD 0.159) | |

Supplemental Table 1: Additional transition probabilities, utilities and model variables

| dysplasia in UC | | | | |
|--------------------|-------|-------------|--------------|--------|
| Chromoendoscopy | 0.913 | 0.44-1.00 | Beta (0.913, | 8, 10 |
| specificity for | | | SD 0.141) | |
| dysplasia in UC | | | | |
| Dysplasia | | | | |
| Probability of LGD | 0.75 | 0.61-0.80 | Beta (0.75; | 7, 11 |
| if dysplasia on | | | SD 0.048) | |
| surveillance | | | | |
| colonoscopy | | | | |
| Probability of HGD | 0.25 | 0.20-0.38 | Beta (0.25; | 7, 11 |
| if dysplasia on | | | SD 0.045) | |
| surveillance | | | | |
| colonoscopy | | | | |
| Proportion | 0.60 | 0-1.00 | Beta (0.60; | 12 |
| proceeding to | | | SD 0.25) | |
| colectomy if LGD | | | | |
| Probability of | 0.19 | 0.04-0.46 | Beta (0.19, | 13, 14 |
| synchronous CRC | | | SD 0.105) | |
| if LGD | | | | |
| Probability of | 0.14 | 0.090-0.314 | 0.090-0.314 | 14 |
| developing CRC | | | Beta (0.140; | |
| given LGD | | | SD 0.056) | |
| Probability of | 0.53 | 0.42-0.67 | Beta (0.53, | 13, 15 |
| synchronous CRC | | | 0.06) | |
| if HGD | | | | |

| Probability of | 0.0036 | 0.0008- | Beta (0.0036, | 16 | | | | | | | | | |
|--------------------|---|-------------|---------------|-------|--|--|--|--|--|--|--|--|--|
| dysplasia in | | 0.015 | SD 0.004) | | | | | | | | | | |
| chronic UC | | | | | | | | | | | | | |
| Cancer progression | Cancer progression (annual transition proportion) | | | | | | | | | | | | |
| From local CRC to | 0.20 | 0.10-0.30 | Beta (0.20; | 17 | | | | | | | | | |
| regional CRC | | | SD 0.05) | | | | | | | | | | |
| From regional | 0.40 | 0.20-0.60 | Beta (0.40; | 17 | | | | | | | | | |
| CRC to distant | | | SD 0.10) | | | | | | | | | | |
| CRC | | | | | | | | | | | | | |
| Cancer mortality | | | | I | | | | | | | | | |
| Local cancer | 0.0211 | 0.0158- | Beta (0.0211; | 18 | | | | | | | | | |
| (Dukes A/B, stage | | 0.0263 | SD 0.0026) | | | | | | | | | | |
| 1-2) | | | | | | | | | | | | | |
| Regional cancer | 0.0699 | 0.0524- | Beta (0.0699; | 18 | | | | | | | | | |
| (Dukes C, stage 3) | | 0.0874 | SD 0.0088) | | | | | | | | | | |
| Distant cancer | 0.3467 | 0.2600- | Beta (0.3467; | 18 | | | | | | | | | |
| (Dukes D, stage 4) | | 0.4334 | SD 0.0434) | | | | | | | | | | |
| Adverse events | | | | | | | | | | | | | |
| Mortality from | 0.024 | 0.018-0.16 | Beta (0.024; | 19 | | | | | | | | | |
| emergent | | | SD 0.036) | | | | | | | | | | |
| colectomy | | | | | | | | | | | | | |
| Mortality from | 0.006 | 0.0035- | Beta (0.006; | 1, 19 | | | | | | | | | |
| elective colectomy | | 0.066 | SD 0.016) | | | | | | | | | | |
| Mortality from | 0.042 | 0.039-0.057 | Beta (0.042; | 20 | | | | | | | | | |
| colectomy for CRC | | | SD 0.005) | | | | | | | | | | |

| Morbidity from | 0.421 | 0.316-0.526 | Beta (0.421; | 19 |
|--------------------|---------|-------------|-----------------|--------|
| emergent | | | SD 0.053) | |
| colectomy | | | | |
| Morbidity from | 0.346 | 0.260-0.433 | Beta (0.346; | 19 |
| elective colectomy | | | SD 0.043) | |
| Morbidity from | 0.384 | 0.278-0.405 | Beta (0.384; | 21 |
| | 0.004 | 0.270 0.400 | | 21 |
| colectomy for CRC | | | SD 0.032) | |
| Mortality from | 0.00007 | 0.00006- | Beta | 21 |
| surveillance | | 0.0003 | (0.00007; SD | |
| colonoscopy | | | 0.00006) | |
| Morbid adverse | 0.005 | 0.001-0.009 | Beta (0.005; | 21 |
| event from | | | SD 0.002) | |
| surveillance | | | | |
| colonoscopy | | | | |
| Perforation from | 0.0001 | 0.00003- | Beta (0.0001; | 21 |
| surveillance | | 0.003 | SD 0.0007) | |
| colonoscopy | | | | |
| Utilities | | | | |
| Chronic UC, with | 0.94 | 0.85-1.0 | Triangular | 22, 23 |
| or without | | | (0.94, 0.85, | |
| dysplasia | | | 1.0) | |
| Post-IPAA | 0.9 | 0.84-0.94 | Triangular | 21 |
| | | | (0.90, 0.84, | |
| | | | 0.94) | |
| Local cancer | 0.74 | 0.69-0.78 | , Triangular | 24 |
| | | | | |

| (Dukes A/B, stage | | | (0.74, 0.69, | |
|--------------------|---------------|-------------|----------------|--------|
| 1-2) | | | 0.78) | |
| Regional cancer | 0.59 | 0.54-0.69 | Triangular | 24 |
| (Dukes C, stage 3) | | | (0.59, 0.54, | |
| | | | 0.69) | |
| Distant cancer | 0.25 | 0.20-0.31 | Triangular | 24 |
| (Dukes D, stage 4) | | | (0.25, 0.20, | |
| | | | 0.31) | |
| Severe UC flare | 0.42 (1 mo) | 0.10-0.70 | Triangular | 21, 23 |
| resulting in | | | (0.42, 0.10, | |
| colectomy | | | 0.70) | |
| Surgery (IPAA or | 0.61 (1 mo) | 0.32-0.84 | Triangular | 23 |
| other type of | | | (0.61, 0.32, | |
| colectomy) | | | 0.84) | |
| Colonoscopy | 0.031 (1 mo) | 0.001-0.125 | Triangular | 1 |
| adverse events | | | (0.031, 0.001, | |
| | | | 0.125) | |
| Postoperative | 0.55 (1 mo) | 0.30-0.70 | Triangular | 23 |
| adverse events | | | (0.55, 0.30, | |
| | | | 0.70) | |
| Other variables | 1 | 1 | 1 | 1 |
| Discount rate | 3% | | | 25, 26 |
| Cycle length | 1 y | 0-10 y | | |
| Willingness to pay | \$50,000/QALY | | | 27 |
| threshold | | | | |

CI, Confidence interval; UC, ulcerative colitis; SD, standard deviation; WLE, white-light endoscopy; CRC, colorectal cancer; LGD, low-grade dysplasia; HGD, high-grade dysplasia; IPAA, ileal pouch anal anastomosis; QALY, quality-adjusted life year

Adapted from Konijeti GG, Shrime MG, Ananthakrishnan AN, Chan AT. Cost-effectiveness analysis of chromoendoscopy for colorectal cancer surveillance in patients with ulcerative colitis. Gastrointest Endosc. 2014 Mar;79(3):455-65 and used with permission.

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| "Relative to Baseline" Analysis | STRATEGYNAME | соят | EFF | INCRCOST vs Baseline | INCREFF vs Baseline | ICER_vs_Bas eline |
|---------------------------------------|--|-----------|-------|-------------------------|---------------------------|----------------------|
| | No Surveillance (Natural History) | 189960.26 | 19.65 | 0 | 0 | 0 |
| | sDNA testing with WLE Confirmatory q2 year | 194913.88 | 19.92 | 4953.626 | 0.266 | 18643 |
| | White light endoscopy q2 year | 201112.19 | 20.05 | 11151.933 | 0.400 | 27907 |

| "Incremental" Analysis | STRATEGYNAME | соѕт | EFF | INCRCOST | INCREFF | ICER | NI V |
|---------------------------|--|-------------|-------------|-------------|----------|-------|---------|
| | No Surveillance (Natural History) | 189960.2578 | 19.65055763 | 0 | 9 | 0 | -18 |
| | sDNA testing with WLE Confirmatory q2 year | 194913.8841 | 19.91627132 | 4953.626267 | 0.265714 | 18643 | -19 |
| | White light endoscopy q2 year | 201112.1913 | 20.05016251 | 6198.30722 | 0.133891 | 46294 | -20 |

| | NMB at WTP 0 | NMB at WTP 5000 | NMB at WTP 10000 | NMB at WTP 15000 | NMB at 18642.73 | NMB at 25000 | NMB at 30000 | NMB at 35000 | NMB at 40000 | NMB at 45000 | NMB at 46294 | NMB at 50000 | NMB at 100000 | highest NMB = optimal strategy at WTP (not |
|---|-----------------|--------------------|------------------------|------------------------|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|--|
| 0 | -189960.26 | -91707.5 | 6545.319 | 104798.1 | 176379.8 | 301303.7 | 399556.5 | 497809.3 | 596062 | 694314.8 | 719742.7 | 792567.6 | 1775096 | |
| | -194913.88 | -95332.5 | 4248.829 | 103830.2 | 176379.8 | 302992.9 | 402574.3 | 502155.6 | 601737 | 701318.3 | 727090 | 800899.7 | 1796713 | |
| ٦ | -201112.19 | -100861 | -610.566 | 99640.25 | 172677.6 | 300141.9 | 400392.7 | 500643.5 | 600894.3 | 701145.1 | 727090 | 801395.9 | 1803904 | |

Net monetary benefit (NMB) analysis (and acceptability curve) directly relates to ICER (G8 through G10) Acceptability curves provide the additional information of quantifying how *often* a strategy has a higher NMB at a given WTF

ICERs *imply* optimal WTP thresholds No Surv: Optimal at WTP \$0 - <\$18,643 SDNA: Optimal at WTP > \$18,643 - < \$46294 WLE: Optimal at WTP >\$46,294 te the concordance with ICER thresholds)

| "Relative to Baseline" Analysis | STRATEGYNAME | соѕт | EFF | INCRCOST vs Baseline | INCREFF vs Baseline | ICER_vs_Bas eline |
|------------------------------------|---|-----------|-------|-------------------------|---------------------------|----------------------|
| | No Surveillance (Natural History) | 189960.26 | 19.65 | 0 | 0 | 0 |
| | sDNA testing with Chromo Confirmatory q2 year | 194812.43 | 19.95 | 4852.173 | 0.297 | 16362 |
| | Chromoendoscopy q2 year | 200260.79 | 20.08 | 10300.532 | 0.432 | 23830 |

| "Incremental" |
|---------------|
| Analysis |

| ental" ysis | STRATEGYNAME | соѕт | EFF | INCRCOST vs Baseline | INCREFF vs Baseline | ICER_vs_Bas eline | | NMB at WTP 5000 | NMB at WTP 10000 | NMB at WTP 15000 | NMB at 16362 | NMB at 25000 | NMB at 30000 | NMB at 35000 | NMB at 40000 | NMB at 40151 | NMB at 45000 | NMB at 50000 | NMB at 100000 | highest NMB = optimal strategy a |
|----------------|---|-----------|-------|-------------------------|---------------------------|----------------------|---------|--------------------|------------------------|---------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|----------------------------------|
| | No Surveillance (Natural History) | 189960.26 | 19.65 | 0 | 0 | 0 | -189960 | -91707 | 6545 | 104798 | 131562 | 301304 | 399556 | 497809 | 596062 | 599029 | 694315 | 792568 | 1775096 | |
| | sDNA testing with Chromo Confirmatory q2 year | 194812.43 | 19.95 | 4852.1727 | 0.2965 | 16362 | -194812 | -95077 | 4659 | 104394 | 131562 | 303865 | 403601 | 503336 | 603072 | 606084 | 702807 | 802543 | 1799898 | |
| | Chromoendoscopy q2 year | 200260.79 | 20.08 | 5448.3589 | 0.1357 | 40151 | -200261 | -99847 | 567 | 100981 | 128334 | 301809 | 402223 | 502637 | 603051 | 606084 | 703465 | 803879 | 1808020 | |

at WTP