### Supplemental Table 1A: Change in duodenal polyp burden in those with a genetic diagnosis of FAP

| Duodenal Polyp Burden, mm | No. of Participants | Baseline, Mean (SD) | Month 6, Mean (SD) | Absolute Change Mean (SD) | % change, Mean (SD) | % Change (95% CI) | P-Value |
|---------------------------|---------------------|---------------------|---------------------|---------------------------|---------------------|-----------------|---------|
| All Evaluable Participants| 36                  | 143.8 (117.41)      | 101.4 (84.48)       | -42.3 (69.11)             | -29.1 (33.61)       | -40.5 to -17.8  | <.0001 |
| Severity of Duodenal Polyposis | | | | | | | |
| Spigelman 3               | 28                  | 163.2 (125.97)      | 116.0 (89.45)       | -47.3 (76.51)             | -27.2 (34.58)       | -40.7 to -13.8  | 0.0003 |
| Spigelman 2               | 8                   | 75.8 (30.28)        | 50.6 (32.02)        | -25.1 (29.52)             | -35.8 (31.16)       | -61.9 to -9.8   | 0.0141 |
| Rash Acneiform/Maculo-Papular | | | | | | | |
| Yes                      | 19                  | 163.5 (145.34)      | 112.6 (99.45)       | -50.8 (90.16)             | -29.9 (39.51)       | -48.9 to -10.8  | 0.0040 |
| No                       | 17                  | 121.8 (73.58)       | 88.9 (64.58)        | -32.8 (33.49)             | -28.3 (26.73)       | -42.1 to -14.6  | 0.0005 |
| Sex                      |                     |                     |                     |                           |                     |                 |         |
| Female                   | 16                  | 135.6 (92.43)       | 100.9 (70.81)       | -34.7 (36.32)             | -27.6 (24.52)       | -40.7 to -14.6  | 0.0004 |
| Male                     | 20                  | 150.4 (136.18)      | 101.9 (95.85)       | -48.5 (87.58)             | -30.4 (40.04)       | -49.1 to -11.6  | 0.0031 |
| Median Age               |                     |                     |                     |                           |                     |                 |         |
| <=42                     | 16                  | 137.6 (104.91)      | 90.2 (87.38)        | -47.4 (44.56)             | -40.0 (24.76)       | -53.2 to -26.8  | <.0001 |
| >42                      | 20                  | 148.8 (129.02)      | 110.5 (83.23)       | -38.3 (84.82)             | -20.5 (37.67)       | -38.1 to -2.8   | 0.0252 |

Abbreviations: SD, standard deviation; CI, confidence interval; FAP, familial adenomatous polyposis; APC, aerobic plate count

1Paired t-test of observed mean change, %, against 0%
2Paired signed rank test of observed median change, %, against 0%
Supplemental Table 1B: Change in duodenal polyp number in those with a genetic diagnosis of FAP

| Number of Duodenal Polyps | No. of Participants | Baseline, Mean (±SD) | Month 6, Mean (±SD) | Change (Month 6 - Baseline), Mean (SD) | Absolute Change Mean (±SD) | % Change Mean (±SD) | % Change (95% CI) | P-Value |
|---------------------------|---------------------|----------------------|---------------------|----------------------------------------|---------------------------|---------------------|------------------|---------|
| All Evaluable Participants| 36                  | 46.1 (38.36)         | 32.1 (31.31)        | -14.0 (24.25)                          | -11.9 (15.86)             | -17.3 to -6.6       | <.0001          |         |
| Severity of Duodenal Polyposis |                  |                      |                     |                                         |                           |                     |                  |         |
| Spigelman 3                | 28                  | 50.1 (41.50)         | 35.8 (34.16)        | -14.4 (25.56)                          | -10.4 (13.20)             | -15.5 to -5.2       | 0.0003          |         |
| Spigelman 2                | 8                   | 32.1 (20.66)         | 19.3 (12.58)        | -12.9 (20.45)                          | -17.5 (23.25)             | -36.9 to 2.0        | 0.0712          |         |
| Rash Acneiform/Maculo-Papular |              |                      |                     |                                         |                           |                     |                  |         |
| Yes                       | 19                  | 50.8 (47.75)         | 32.5 (35.27)        | -18.3 (28.59)                          | -12.1 (12.61)             | -18.2 to -6.1       | 0.0005          |         |
| No                        | 17                  | 40.9 (24.46)         | 31.6 (27.29)        | -9.2 (17.89)                           | -11.7 (19.27)             | -21.6 to -1.8       | 0.0202          |         |
| Sex                       |                      |                      |                     |                                         |                           |                     |                  |         |
| Female                    | 16                  | 38.5 (22.96)         | 38.5 (22.96)        | -9.1 (11.48)                           | -8.5 (10.76)              | -14.2 to -2.7       | 0.0067          |         |
| Male                      | 20                  | 52.2 (46.97)         | 34.3 (37.18)        | -18.0 (30.70)                          | -14.7 (18.80)             | -23.5 to -5.9       | 0.0024          |         |
| Median Age                |                      |                      |                     |                                         |                           |                     |                  |         |
| <=42                      | 16                  | 45.8 (30.41)         | 33.4 (34.06)        | -12.4 (20.79)                          | -13.9 (17.26)             | -23.0 to -4.7       | 0.0058          |         |
| >42                       | 20                  | 46.4 (44.50)         | 31.1 (29.79)        | -15.3 (27.17)                          | -10.4 (14.91)             | -17.4 to -3.4       | 0.0056          |         |

Abbreviations: SD, standard deviation; CI, confidence interval; FAP, familial adenomatous polyposis; APC, aerobic plate count

1Paired t-test of observed mean change, %, against 0%; 2Paired signed rank test of observed median change, %, against 0%
Supplemental Table 2: Change in lower GI polyp number and burden from baseline

|                         | No. of Participants | Baseline, Median (IQR) | Month 6, Median (IQR) | Median Change | Median Change, % | P-Value |
|-------------------------|---------------------|------------------------|-----------------------|---------------|------------------|---------|
| **No. of Lower GI Polyps** |                     |                        |                       |               |                  |         |
| All Evaluable Participants | 18                  | 25.0 (5.0 to 67.0)     | 20.0 (4.0 to 47.0)    | -6.0          | -30.8            | 0.02561 |
| **Lower GI Status**      |                     |                        |                       |               |                  |         |
| IPAA                    | 6                   | 3.5 (0.0 to 20.0)      | 5.0 (0.0 to 6.0)      | -1.0          | -50.4            | 0.25001 |
| IRA with Rectal Stump   | 12                  | 44.0 (20.0 to 97.0)    | 32.5 (20.0 to 82.0)   | -14.0         | -30.6            | 0.10551 |
| **Lower GI Polyp Burden, mm** |                   |                        |                       |               |                  |         |
| All Evaluable Participants | 11                 | 4.0 (2.5 to 6.0)       | 3.5 (2.1 to 5.0)      | 0.0           | 0.0              | 0.7031 |
| **Lower GI Status**      |                     |                        |                       |               |                  |         |
| IPAA                    | 3                   | 4.0 (3.0 to 4.0)       | 5.0 (4.0 to 5.0)      | 1.0           | 25.0             | 1.0000 |
| IRA with Rectal Stump   | 8                   | 4.5 (2.5 to 6.0)       | 2.7 (2.0 to 6.0)      | 0.0           | 0.0              | 0.8750 |

Abbreviations: GI, gastrointestinal; IQR, interquartile range; IPAA, ileal pouch-anal anastomosis; IRA, ileorectal anastomosis

1Paired signed rank test of observed median change, %, against 0%