**Supplement Table 1.** Consistency (homogeneity) between evaluation results and BBPS scores of AI-CNN and Control groups.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Group** | **Results** | **Total BBPS ≥ 6, n (%)** | **Total BBPS < 6, n (%)** | **Breslow-Day****P-value** |
| **AI-CNN** | Pass | 633 (86.7) | 65 (8.9) | 0.976 |
| (N = 730) | Not pass | 26 (3.6) | 6 (0.8) |  |
|  |  |  |  |  |
| **Control** | Pass | 639 (90.8) | 59 (8.4) |  |
| (N = 704) | Not pass | 5 (0.7) | 1 (0.1) |  |
| Abbreviations: AI-CNN, artificial intelligence–convolutional neural network; BBPS, Boston Bowel Preparation Scale |

**Supplement Table 2.** Quality of bowel preparation and outcomes of colonoscopy between the AI-CNN group and Control group (Subgroup: Not pass)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameters** | **Overall ITT****N = 38** | **AI-CNN****N = 32** | **Control****N = 6** | **P-value†** |
| Bowel preparation quality, n (%) |  |  |  |  |
| Adequate (BBPS ≥ 6) | 31 (81.6) | 26 (81.3) | 5 (83.3) | 0.904 |
| Inadequate (BBPS < 6) | 7 (18.4) | 6 (18.8) | 1 (16.7) |  |
| BBPS score, mean ± SD |  |  |  |  |
| Total | 6.45 ± 1.27 | 6.47 ± 1.32 | 6.33 ± 1.03 | 0.694 |
| Right colon | 1.92 ± 0.54 | 1.97 ± 0.47 | 1.67 ± 0.82 | 0.465 |
| Transverse colon | 2.45 ± 0.55 | 2.47 ± 0.57 | 2.33 ± 0.52 | 0.538 |
| Left colon | 2.08 ± 0.54 | 2.03 ± 0.54 | 2.33 ± 0.52 | 0.218 |
| PDR, n (%) | 15 (39.5) | 11 (34.4) | 4 (66.7) | 0.138 |
| ADR, n (%) | 6 (15.8) | 4 (12.5) | 2 (33.3) | 0.199 |
| Number of polyps, mean ± SD | 2.5 ± 2.6 | 3.0 ± 2.9 | 1.0 ± 0.0 | 0.090 |
| †The comparison between the AI-CNN group and Control groupAbbreviations: ADR, adenoma detection rate; AI-CNN, artificial intelligence–convolutional neural network; BBPS, Boston Bowel Preparation Scale; ITT, intention-to-treat; PDR, polyp detection rate; SD, standard deviation |