***Additional tables***

Additional Table 1. The clinical characteristics of Medical Professional Group and General Population Group.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **Gastroscopy examination** | | | **Colonoscopy examination** | | |
| Medical professional  (n=378) | General population  (n=413) | *p* value | Medical professional  (n=325) | General population  (n=418) | *p* value |
| **Gender**  **(M/F)** | 138/240 | 171/242 | .16 | 112/213 | 157/261 | .38 |
| **Age**  **(years, mean±SD)** | 58.66±6.62 | 58.29±8.10 | .48 | 58.81±6.71 | 58.24±7.53 | .28 |

M: male; F: female

Additional Table 2. The positive rates of upper gastrointestinal diseases in Medical Professional Group and General Population Group

|  |  |  |  |
| --- | --- | --- | --- |
| **Positive Rate (%)** | **Medical Professional Group**  **(n=378)** | **General Population Group**  **(n=413)** | ***p* value** |
| **Reflux esophagitis** | 4.0 | 12.6 | <.001\*\*\* |
| **H. pylori** | 27.2 | 28.1 | .79 |
| **Atrophic gastritis** | 19.8 | 25.9 | .04\* |
| **Gastric cancer** | 0.5 | 0.5 | >.99 |
| **Peptic ulcer** | 4.2 | 3.4 | .54 |
| **Gastric polyps** | 23.5 | 25.4 | .54 |

Additional Table 3. The positive rates of lower gastrointestinal diseases in Medical Professional Group and General Population Group

|  |  |  |  |
| --- | --- | --- | --- |
| **Positive Rate (%)** | **Medical professional Group**  **(n=325)** | **General population Group**  **(n=418)** | ***p* value** |
| **Colorectal polyp** | 46.2 | 47.8 | .65 |
| **Colorectal adenoma** | 17.5 | 11.5 | .02\* |
| **Colorectal cancer** | 0.9 | 1.2 | >.99 |
| **Colorectal ulcer** | 0.0 | 1.0 | .14 |
| **Melanosis coli** | 2.8 | 2.9 | .93 |
| **Colonic diverticula** | 3.1 | 7.7 | .007\*\* |

Additional Table 4. The positive rates of lower gastrointestinal diseases in surgeons and non-surgeons.

|  |  |  |  |
| --- | --- | --- | --- |
| **Positive Rate (%)** | **Surgeon (n=54)** | **Non-surgeon (n=271)** | ***p* value** |
| **Colorectal polyp** | 46.3 | 46.1 | .98 |
| **Colorectal adenoma** | 24.1 | 16.2 | .17 |
| **Colorectal cancer** | 0 | 1.1 | >.99 |
| **Colorectal ulcer** | - | - | - |
| **Melanosis coli** | 0 | 3.3 | .37 |
| **Colonic diverticula** | 0 | 3.7 | .38 |

Additional Table 5. The positive rates of upper gastrointestinal diseases in clinical staffs and non-clinical staffs.

|  |  |  |  |
| --- | --- | --- | --- |
| **Positive Rate (%)** | **Clinical staff (n=295)** | **Non-clinical staff (n=83)** | ***p* value** |
| **Reflux esophagitis** | 4.5 | 3.6 | .63 |
| **H. pylori** | 28.6 | 26.3 | .63 |
| **Atrophic gastritis** | 19.5 | 20.1 | .88 |
| **Gastric cancer** | 1.3 | 0.0 | .17 |
| **Peptic ulcer** | 2.6 | 5.4 | .19 |
| **Gastric polyp** | 20.1 | 25.9 | .19 |

Additional Table 6. The positive rates of lower gastrointestinal diseases in clinical staffs and non-clinical staffs.

|  |  |  |  |
| --- | --- | --- | --- |
| **Positive Rate (%)** | **Clinical staff (n=160)** | **Non-clinical staff (n=165)** | ***p* value** |
| **Colorectal polyp** | 45.8 | 46.4 | .92 |
| **Colorectal adenoma** | 21.4 | 14.9 | .14 |
| **Colorectal cancer** | 0.8 | 1.0 | >.99 |
| **Colorectal ulcer** | - | - | - |
| **Melanosis coli** | 3.1 | 2.6 | >.99 |
| **Colonic diverticula** | 2.3 | 3.6 | .75 |

Additional Table 7. The positive rates of upper gastrointestinal diseases in different ages in medical professionals.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Age (years)**  **Positive Rate (%)** | **50-54**  **(n=142)** | **55-59**  **(n=80)** | **60-64**  **(n=69)** | **65-69**  **(n=64)** | **70-74**  **(n=15)** | **75-79**  **(n=8)** | ***p* value** |
| **Reflux esophagitis** | 3.5 | 6.3 | 1.4 | 6.3 | 0.0 | 0.0 | .53 |
| **H. pylori** | 31.7 | 22.5 | 27.5 | 29.7 | 0.0 | 25.0 | .15 |
| **Atrophic gastritis** | 14.1 | 17.5 | 26.1 | 26.6 | 33.3 | 12.5 | .12 |
| **Gastric cancer** | 0.0 | 0.0 | 0.0 | 0.0 | 13.3 | 0.0 | ＜.001\*\*\* |
| **Peptic ulcer** | 2.8 | 3.8 | 4.3 | 6.3 | 6.7 | 12.5 | .71 |
| **Gastric polyp** | 24.6 | 20.0 | 18.8 | 32.8 | 13.3 | 25.0 | .37 |

Additional Table 8. The positive rates of lower gastrointestinal diseases in different ages in medical professionals.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Age (years)**  **Positive Rate (%)** | **50-54**  **(n=125)** | **55-59**  **(n=57)** | **60-64**  **(n=63)** | **65-69**  **(n=60)** | **70-74**  **(n=13)** | **75-79**  **(n=7)** | ***p* value** |
| **Colorectal polyp** | 45.6 | 47.4 | 41.3 | 45.0 | 76.9 | 42.9 | .34 |
| **Colorectal adenoma** | 16.8 | 24.6 | 14.3 | 11.7 | 38.5 | 14.3 | .16 |
| **Colorectal cancer** | 0.0 | 0.0 | 0.0 | 1.7 | 7.7 | 14.3 | ＜.001\*\*\* |
| **Colorectal ulcer** | - | - | - | - | - | - | - |
| **Melanosis coli** | 3.2 | 0.0 | 3.2 | 3.3 | 7.7 | 0.0 | .67 |
| **Colonic diverticula** | 2.4 | 1.8 | 3.2 | 5.0 | 7.7 | 0.0 | .79 |