**Supplementary 4: Frequency of demographic and clinical characteristics among CCv4.0 IEM patients (n=128) and CCv3.0 only IEM patients (n=46), 2011-2019**

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| --- | --- | --- | --- |
|  | **Group 1**  **CCv4.0 patients (n=128)** | **Group 2 CCv3.0 only patients (n=46)** | **P-value** |
| **Upper endoscopy finding of esophagitis**, n (%) | 23 (18.0%) | 9 (19.6%) | 0.8105 |
| **Upper endoscopy finding of hiatal hernia**, n (%) | 40 (31.3%) | 21 (45.7%) | 0.0791 |
| **Abnormal esophageal pH exposure (when esophageal pH is <4 greater or equal to 1.6% of the time during the total study) while on a PPI on pH impedance study**, n (%) | 28 (21.9%) | 16 (34.8%) | 0.1127 |
| **Abnormal esophageal pH exposure (when esophageal pH is <4 greater or equal to 4.2% of the time during the total study) while not on a PPI on pH impedance study**, n (%) | 9 (7.0%) | 2 (4.3%) | 0.7298 |

IEM, ineffective esophageal motility; CCv4.0, Chicago Classification v4.0; CCv3.0, Chicago Classification v3.0; PPI, proton pump inhibitor

Fisher’s exact test