**Supplementary 2: Association of the mean LES pressures among CCv4.0 IEM patients (n=128), CCv3.0 only IEM patients (n=46), or all patients combined (n=174) with the presence of the symptom of dysphagia, reflux, or regurgitation or upper endoscopy finding of hiatal hernia or esophagitis, 2011-2019**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Mean LES pressure** | | |
|  | **Group 1**  **CCv4.0 patients (n=128)** | **Group 2 CCv3.0 only patients (n=46)** | **All patients combined**  **(n=174)** |
| **Symptom of dysphagia present** | n=66  p=0.3008 | n=32  p=0.3835 | n=98  p=0.5996 |
| **Symptom of reflux present** | n=64  p=0.1759 | n=27  p=0.8409 | n=91  p=0.3157 |
| **Symptom of regurgitation present** | n=41  p=0.3500 | n=14  p=0.8767 | n=55  p=0.4997 |
| **Upper endoscopy finding of hiatal hernia present** | n=40  p=0.4560 | n=21  p=0.1098 | n=61  p=0.1416 |
| **Upper endoscopy finding of esophagitis present** | n=23  p=0.2639 | n=9  p=0.1145 | n=32  p=0.0727 |

IEM, ineffective esophageal motility; CCv4.0, Chicago Classification v4.0; CCv3.0, Chicago Classification v3.0; LES, lower esophageal sphincter

Wilcoxon rank-sum test