S8 Table. Summary of Sensitivity Analyses

| Description | # Cases / # Participants | # of Studies | Pooled Effect Estimate | 95% CI | l² (%) | p-value for Heterogeneity | Ref. |
|----------------------------|-----------------------------|-----------------|---------------------------|-----------|--------|------------------------------|--|
| Adults only* | 145358 / 6002023 | 21 | 1.36 | 1.18-1.56 | 94.4 | <0.001 | 24,25,27,28,31, 32,33,36,38,39, 40,44,45,46,47, 48,49,50,51,52, 54 |
| PPI only† | 222715 / 6812317 | 24 | 1.48 | 1.14-1.92 | 99.2 | <0.001 | 23,24,25,27,28, 31,32,33,35,36, 37,38,39,40,43, 44,46,47,48,49, 50,51,52, 54 |
| Strict CAP definition‡ | 3733 / 15698 | 7 | 1.22 | 0.99-1.52 | 65.8 | 0.007 | 23,25,28,33,35, 39,45 |
| Low risk of bias§ | 135030 / 6000720 | 13 | 1.26 | 1.09-1.45 | 96.3 | <0.001 | 24,25,27,31,32, 33,37,39,45,46, 47,48,49 |
| Adjusted effect estimate | 149226 / 6018673 | 15 | 1.33 | 1.16-1.52 | 95.7 | <0.001 | 24,25,27,28,31, 32,35,36,37,39, 45,46,47,48,49 |
| Observational studies only | 222815 / 6809694 | 22 | 1.49 | 1.15-1.93 | 99.3 | <0.001 | 23,24,25,27,28, 31,32,33,34,35, 36,3739,40,43,4 445,46,47,48,49 , 54 |

Abbreviations: CI, confidence interval; Ref, study reference number
* Adults only includes studies with more than 95% participants ≥18 years old

[†] PPI only includes studies with exposure defined as PPI use not grouped with other gastric acid suppressing drugs

[‡] Strict CAP definition includes studies that required radiographic confirmation of CAP as part of their case definition

[§] Low Risk of Bias includes studies with low risk of bias as determined by defined as low risk on ≥4 out of 7 criteria for cohort studies and ≥6 out of 8 criteria for case-control studies using the modified Newcastle-Ottawa Scale