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| **Supplementary Table 1.** Effect of an unmeasured confounder on hazard ratio of perioperative adverse cardiac event for one-year mortality in the propensity-score-matched population. |
|  |  | **OR*ZY*|*X*** |
|  |  | **1.5** | **2** | **2.5** | **3** | **3.5** | **4** |
| ORzx | 0.3 | 1.62 (1.50-1.74) | 1.78 (1.65-1.91) | 1.91 (1.78-2.06) | 2.03 (1.88-2.19) | 2.13 (1.98-2.30) | 2.22 (2.06-2.39) |
| 0.4 | 1.54 (1.44-1.66) | 1.66 (1.54-1.78) | 1.75 (1.63-1.88) | 1.83 (1.70-1.97) | 1.90 (1.77-2.04) | 1.96 (1.82-2.11) |
| 0.5 | 1.50 (1.39-1.61) | 1.58 (1.47-1.70) | 1.65 (1.53-1.77) | 1.70 (1.58-1.83) | 1.75 (1.63-1.88) | 1.79 (1.67-1.93) |
| 0.6 | 1.46 (1.36-1.57) | 1.52 (1.42-1.63) | 1.57 (1.46-1.68) | 1.61 (1.50-1.73) | 1.64 (1.53-1.76) | 1.67 (1.55-1.79) |
| 0.7 | 1.43 (1.34-1.54) | 1.47 (1.37-1.58) | 1.51 (1.40-1.62) | 1.54 (1.43-1.65) | 1.56 (1.45-1.67) | 1.58 (1.47-1.70) |
| Prevalence of unmeasured confounder = 40% |  |  |  |  |  |
| Numbers represent ORs (including 95% CIs).  |  |  |  |  |  |  |
| HR, hazard ratio; X: dichotomous exposure measure, y dichotomous outcome measure, z : potential dichotomous confounder. |
| ORZX indicates the association (OR) between the unmeasured confounder and left atrial volume index.  |
| ORZY|X indicates the association (OR) between the unmeasured confounder and postoperative atrial fibrillation. |