**Appendix 2. Survival model showing accelerated delirium incidence for medication classes administered in hospital**

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| --- | --- | --- | --- |
|  | **Unadjusted hazard ratio****(95% CI)** | **Model 1****Adjusted hazard ratio*a*****(95% CI)** | **Model 2****Adjusted hazard ratio*b*****(95% CI)** |
| Antipsychotics | 2.96 (0.96 to 9.09) | 2.49 (1.56 to 3.99) | 2.46 (1.53 to 3.95) |
| Benzodiazepines | 2.31 (1.33 to 3.99) | 1.45 (1.10 to 1.91) | 1.61 (1.22 to 2.12) |
|  Injectable opioid | 1.58 (1.07 to 2.34) | 1.62 (1.26 to 2.07) | 1.69 (1.32 to 2.17) |
|  Oral opioid | 0.57 (0.35 to 0.92) | 0.72 (0.58 to 0.92) | 0.73 (0.58 to 0.92) |

*a*Models adjusted for age, gender, surgery type, Charlson comorbidity index, APACHE-II score, and cognition at baseline.

*b*Models adjusted for age, gender, surgery type, Charlson comorbidity index, APACHE-II score, cognition at baseline, and worst pain.