Table E1. Calculated Hazard ratios using an interaction term

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| **Group (0 = no, 1 = yes)** | **Full regression equation (inserting a value of 0 removes the term):** **Log(h) = intercept + Betavertigo + Betaopioid + Betavert\*opioid + other Betas** |
| **Vertigo = 0 (UTI grp), Opioid = 0** | **A.** Log (h) = intercept |
| **Vertigo = 0 (UTI grp), Opioid = 1** | **B.** Log (h) = intercept + Betaopioid |
| **Vertigo = 1, Opioid = 0** | **C.** Log (h) = intercept + Betavertigo |
| **Vertigo = 1, Opioid =1** | **D.** Log (h) = intercept + Betavertigo + Betaopioid + Betavert\*opioid |
|  | **Equations** | **Equation after terms cancel out** | **Calculated Hazard Ratio** |
| **Opioid vs no opioid, in vertigo cohort** | D - C | **Log (h) = Betaopioid + Betavert\*opioid** | e**Betaopioid + Betavert\*opioid** |
| **Opioid vs no opioid, in UTI cohort** | B - A | **Log (h) = Betaopioid** | e**Betaopioid** |
| **Vertigo vs UTI cohort, in all patients with opioid** | D - B | **Log (h) = Betavertigo + Betavert\*opioid** | e**Betavertigo + Betavert\*opioid** |

UTI: urinary tract infection