



Supplementary Material

Article Title: Antidepressant Exposure and Risk of Fracture Among Medicaid-Covered Youth

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1. [eTable 1](#) Confounding Analysis of Time-Varying Cox Proportional Hazard Regression

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Supplementary eTable 1: Confounding analysis of time-varying Cox proportional hazard regression

| Potential Confounders | HR | 95% CI | | p-value | Change |
|-----------------------|------|--------|------|---------|--------|
| Unadjusted | | | | | |
| Current | 1.09 | 1.06 | 1.12 | <0.001 | 0.0% |
| Past | 1.04 | 1.01 | 1.06 | 0.002 | 0.0% |
| Categorical age | | | | | |
| Current | 1.07 | 1.04 | 1.10 | <0.001 | -1.8% |
| Past | 1.02 | 1.00 | 1.05 | 0.03 | -1.9% |
| Gender | | | | | |
| Current | 1.10 | 1.07 | 1.13 | <0.001 | 0.9% |
| Past | 1.03 | 1.01 | 1.06 | 0.003 | -1.0% |
| Race | | | | | |
| Current | 1.06 | 1.03 | 1.09 | <0.001 | -2.8% |
| Past | 1.02 | 1.00 | 1.04 | 0.09 | -1.9% |
| Ethnicity | | | | | |
| Current | 1.09 | 1.06 | 1.12 | <0.001 | 0.0% |
| Past | 1.04 | 1.01 | 1.06 | 0.002 | 0.0% |
| Eligibility | | | | | |
| Current | 1.08 | 1.05 | 1.11 | <0.001 | -0.9% |
| Past | 1.03 | 1.01 | 1.06 | 0.003 | -1.0% |
| Anxiety disorder | | | | | |
| Current | 1.08 | 1.05 | 1.11 | <0.001 | -0.9% |
| Past | 1.03 | 1.01 | 1.06 | 0.005 | -1.0% |
| Substance abuse | | | | | |
| Current | 1.08 | 1.05 | 1.11 | <0.001 | -0.9% |
| Past | 1.03 | 1.01 | 1.05 | 0.009 | -1.0% |
| Conduct disorder | | | | | |
| Current | 1.08 | 1.05 | 1.11 | <0.001 | -0.9% |
| Past | 1.03 | 1.01 | 1.05 | 0.005 | -1.0% |
| ADHD | | | | | |
| Current | 1.08 | 1.05 | 1.11 | <0.001 | -0.9% |
| Past | 1.03 | 1.01 | 1.05 | 0.01 | -1.0% |
| MR | | | | | |
| Current | 1.09 | 1.06 | 1.12 | <0.001 | 0.0% |
| Past | 1.04 | 1.01 | 1.06 | 0.002 | 0.0% |
| Autism | | | | | |
| Current | 1.09 | 1.06 | 1.12 | <0.001 | 0.0% |
| Past | 1.04 | 1.01 | 1.06 | 0.002 | 0.0% |
| Diabetes | | | | | |
| Current | 1.08 | 1.06 | 1.11 | <0.001 | -0.9% |
| Past | 1.04 | 1.01 | 1.06 | 0.002 | 0.0% |
| Sickle cell | | | | | |

| Potential Confounders | HR | 95% CI | | p-value | Change |
|-----------------------|------|--------|------|---------|--------|
| Current | 1.09 | 1.06 | 1.12 | <0.001 | 0.0% |
| Past | 1.04 | 1.01 | 1.06 | 0.002 | 0.0% |
| Cerebral palsy | | | | | |
| Current | 1.09 | 1.06 | 1.12 | <0.001 | 0.0% |
| Past | 1.04 | 1.01 | 1.06 | 0.002 | 0.0% |
| Seizures | | | | | |
| Current | 1.08 | 1.06 | 1.11 | <0.001 | -0.9% |
| Past | 1.03 | 1.01 | 1.06 | 0.002 | -1.0% |
| Asthma | | | | | |
| Current | 1.08 | 1.05 | 1.11 | <0.001 | -0.9% |
| Past | 1.03 | 1.01 | 1.06 | 0.003 | -1.0% |
| Congenital heart | | | | | |
| Current | 1.09 | 1.06 | 1.12 | <0.001 | 0.0% |
| Past | 1.04 | 1.01 | 1.06 | 0.002 | 0.0% |
| Cancer | | | | | |
| Current | 1.08 | 1.06 | 1.11 | <0.001 | -0.9% |
| Past | 1.03 | 1.01 | 1.06 | 0.002 | -1.0% |
| Immunocompromised | | | | | |
| Current | 1.09 | 1.06 | 1.12 | <0.001 | 0.0% |
| Past | 1.04 | 1.01 | 1.06 | 0.002 | 0.0% |
| Auto immune | | | | | |
| Current | 1.08 | 1.05 | 1.11 | <0.001 | -0.9% |
| Past | 1.04 | 1.01 | 1.06 | 0.002 | 0.0% |
| Major organ | | | | | |
| Current | 1.09 | 1.06 | 1.12 | <0.001 | 0.0% |
| Past | 1.04 | 1.01 | 1.06 | 0.002 | 0.0% |
| Anorexia | | | | | |
| Current | 1.09 | 1.06 | 1.12 | <0.001 | 0.0% |
| Past | 1.04 | 1.01 | 1.06 | 0.002 | 0.0% |
| Anti-psychotic | | | | | |
| Current | 1.08 | 1.05 | 1.11 | <0.001 | -0.9% |
| Past | 1.03 | 1.01 | 1.06 | 0.005 | -1.0% |
| Anti-convulsant | | | | | |
| Current | 1.07 | 1.04 | 1.10 | <0.001 | -1.8% |
| Past | 1.03 | 1.01 | 1.05 | 0.01 | -1.0% |
| Stimulant | | | | | |
| Current | 1.09 | 1.06 | 1.12 | <0.001 | 0.0% |
| Past | 1.04 | 1.01 | 1.06 | 0.001 | 0.0% |
| Anti-anxiety | | | | | |
| Current | 1.07 | 1.04 | 1.10 | <0.001 | -1.8% |
| Past | 1.03 | 1.01 | 1.05 | 0.006 | -1.0% |
| PPI | | | | | |

| Potential Confounders | HR | 95% CI | | p-value | Change |
|-----------------------|------|--------|------|---------|--------|
| Current | 1.05 | 1.02 | 1.07 | 0.002 | -3.7% |
| Past | 1.02 | 1.00 | 1.04 | 0.09 | -1.9% |
| Steroid | | | | | |
| Current | 1.07 | 1.04 | 1.10 | <0.001 | -1.8% |
| Past | 1.03 | 1.01 | 1.05 | 0.005 | -1.0% |
| Any medication | | | | | |
| Current | 1.05 | 1.02 | 1.08 | < 0.001 | -3.7% |
| Past | 1.01 | 0.99 | 1.04 | 0.21 | -2.9% |

Abbreviations: Attention Deficit Hyperactivity Disorder (ADHD); Mental Retardation (MR); Proton Pump Inhibitors (PPI)