

Table S1. Odds ratios from a comparison of the participants with traumatic brain injury (TBI) and individuals without TBI (age ≥ 70 years) from the general population.

| Year | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|------------|------|------|------|------|------|------|------|------|------|------|
| Odds ratio | 26.9 | 25.3 | 20.1 | 17.8 | 14.2 | 12.6 | 10.7 | 8.6 | 6.5 | 4.4 |

Table S2. The crude incidence and mortality rates of participants in the 0–4 and 5–9 years groups.

| Year | Age | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | <i>p</i> for Trend |
|----------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------|
| Crude incidence rate | 0–4 | 1818.8 | 1920.8 | 1921.5 | 1788.0 | 1738.5 | 1677.0 | 1487.5 | 1344.6 | 1353.4 | 1308.5 | <0.001 |
| | 5–9 | 839.1 | 887.0 | 913.1 | 882.8 | 877.8 | 843.1 | 792.6 | 734.8 | 710.0 | 716.8 | <0.001 |
| Crude mortality rate | 0–4 | 3.6 | 3.8 | 2.9 | 2.6 | 2.2 | 2.4 | 2.2 | 1.4 | 1.6 | 1.1 | 0.055 |
| | 5–9 | 1.6 | 1.9 | 1.4 | 1.1 | 1.1 | 0.7 | 0.6 | 0.3 | 0.7 | 0.4 | 0.099 |

Table S3. The stratification of the crude incidence rate based on the diagnosis of the type of traumatic brain injury.

| Year | Age | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | <i>p</i> for Trend |
|---------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------|
| Concussion | 0–4 | 1538.8 | 1662.2 | 1683.5 | 1568.2 | 1553.9 | 1490.7 | 1324.5 | 1218.0 | 1234.8 | 1202.4 | <0.001 |
| | 5–9 | 716.5 | 770.0 | 810.0 | 782.6 | 793.9 | 765.6 | 720.8 | 678.1 | 653.7 | 665.7 | <0.001 |
| Intracranial injury | 0–4 | 293.8 | 272.9 | 257.3 | 223.4 | 183.1 | 185.3 | 157.7 | 132.4 | 129.7 | 114.1 | <0.001 |
| | 5–9 | 137.4 | 132.0 | 119.7 | 110.5 | 92.9 | 86.1 | 76.2 | 66.5 | 70.2 | 65.5 | <0.001 |