Fireworks Legislation and the Incidence of Severe Fireworks-related Injuries in Washington State

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**Aims/Goals:** Fireworks are associated with >200 reported injuries/year, which can be severe and disabling, in the state of Washington. Our goal was to determine the association between county-level fireworks legislation and the incidence rate of severe fireworks-related injuries.

**Methods:** Using an institutional fireworks injury database, US Census data, and municipal coding provided by the State Fire Marshal data sources, we collected incidence data about patients with fireworks-related injuries admitted to Washington state’s only level 1 trauma center from 2005 to 2015.

**Results & Interpretation:** The incidence of injury among counties exposed to varying levels of consumer fireworks legislation (banned, restricted, no restrictions) resulted in a crude cumulative incidence of 3.97/100,000 people. Further analysis showed that the adjusted cumulative incidence in counties with a ban on consumer fireworks was 2/100,000.

**Conclusions:** Consumer fireworks regulation is associated with a lower incidence of severe fireworks-related injuries in Washington state.