**MULTIPLE INJURY PROFILES OF DIFFERENT ROAD USERS IN NEW ZEALAND, 2000–2007**

S Tin Tin*, A Woodward, S Ameratunga  
Correspondence: Section of Epidemiology and Biostatistics, School of Population Health, University of Auckland, Tamaki Campus, University of Auckland, Private Bag 92019, Auckland 1142, New Zealand

10.1136/ip.2010.029215.661

**Aim** To compare profiles of traffic injuries sustained by different road users that resulted in death or hospital inpatient treatment.

**Methods** Traffic injuries were identified from the Mortality Collection and the National Minimum Dataset. The hospitalised sample was restricted to patients admitted to public hospitals with (a) a principal diagnosis of injury only, (b) hospital stay of one day or more and (c) first admissions only. Using a modified Barell matrix, the International Classification of Diseases injury diagnosis codes were classified into seven body regions and six injury types/natures. The ‘multiple injury profiles’ approach was used and up to ten diagnoses per case were extracted.

**Results** During 2000–2007, 13,792 car/van drivers, 9,252 car/van passengers, 5,881 motorcyclists, 5,266 pedal cyclists and 4,152 pedestrians were killed or admitted to hospital. The most common injuries (experienced by >20% of specific road users injured) include:

- **Traumatic brain injuries – internal:** occurred in 30.1% of pedestrians, 26.2% of drivers, 24.1% of passengers and 20.8% of pedal cyclists.
- **Other head, face, neck – open wounds:** occurred in 31.7% of drivers, 29.2% of passengers and 26.7% of pedestrians.
- **Lower extremity – fracture:** occurred in 38.8% of pedestrians, 35.0% of motorcyclists and 23.4% of drivers.
- **Upper extremity – fracture:** occurred in 34.4% of pedal cyclists and 31.1% of motorcyclists.

The detailed matrix will be presented graphically for each road user.

**Conclusion** The injury profiles varied by mode of travel. This could help inform the prioritisation of future injury prevention, road safety and healthcare policies and interventions targeted at specific road users.