on public roads is a common activity in many occupations and industries. Previous New Zealand (NZ) research suggests that work-related driving contributes significantly to the overall burden of work-related fatal injury. This presentation will identify and describe the contribution of work-related driving injuries to fatalities that occurred on a public road in NZ between 2005 and 2014.

Methods Data collection involved: 1) identifying all possible injury deaths in those aged 0–84 years from mortality records using selected external cause of injury codes; 2) linking these to Coronial case files; 3) reviewing and coding work-related cases; and 4) restricting to motor vehicle traffic crashes (MVTC). Frequencies, percentages and rates per 100,000 workers/persons were calculated. The burden of ‘bystanders to others’ work’ and people ‘commuting to/from work’ was also quantified.

Results A total of 919 work-related MVTC fatalities occurred on public roads (216 workers, 227 commuters, and 476 bystanders). Work contributed to 33% of transport-related deaths in New Zealand. The Transport sector was the major contributor to work-related MVTC fatalities (42%) while the Utilities sector had a notably high rate (8.5 per 100,000 workers).

Conclusions One third of MVTC fatalities in NZ are work-related therefore interventions focusing on occupational and general road safety mechanisms could provide beneficial reductions in the national road toll. These data have informed NZ’s new road safety strategy, Road to Zero, informing the introduction of a new pillar in work-related driving.

1G.005 DRUG-RELATED DISORDER DIAGNOSES AND DEMOGRAPHIC CHARACTERISTICS ASSOCIATED WITH LEGAL INTERVENTION-RELATED INJURIES

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Background Law enforcement official (LEO) use of force during suspect restraint/apprehension is a serious concern resulting in suspect and LEO injuries. Drug use has been identified as a factor in use-of-force incidents.

Methods This study characterized Kentucky LEO and suspect legal intervention (LI) related injuries and assessed associations between substance use disorder (SUD) diagnoses and demographic characteristics with ICD-10-CM coded LI emergency department (ED) injury visits for years 2016–2018. Logistic regression models examined the most common LEO and suspect injuries.

Results There was a larger proportion of LEO LI hand injury ED visits compared to suspects; there was a larger proportion of suspect LI head injury ED visits compared to LEOS. Among suspect LI ED visits, there were higher odds of head injury ED visits with a SUD (adjusted OR = 1.92), Appalachian county residence (adjusted OR = 1.45), or man handling LI (adjusted OR = 1.42). No association was found between SUS diagnoses or demographic characteristics and LEO legal intervention hand-related injury ED visits.

Conclusions When de-escalation techniques fail and LI is required, LEO tactics other than use-of-force are recommended to reduce injuries. Crisis Intervention Team and other trainings may prove beneficial by reducing the need for force; in cases involving SUDs, it is recommended that suspects be referred to treatment.

Learning Outcomes LEOs should employ alternative tactics to reduce officer and suspect use-of-force injuries during LI. Safer options include control techniques, striking zones on suspects, and other tools and body parts when LEO de-escalation training techniques have failed.

E-Posters P1 – Disaster, Emergency Services & Safe Communities, March 22, 2021

P1.001 DEVELOPING THE CITY EMERGENCY-HEALTH RESPONSE CAPABILITY (CERC) TOOL

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Background There is no validated tool to identify gaps in emergency response systems of urban cities in low-and-middle...