Road Safety

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Situation:

The BC road fatality rate is above the Canadian average and is over twice that of countries with the safest roads.

Vision:

To inform policy to make BC's roads the safest in the world and to provide the best post road trauma care in the country.

Overall Goal:

To inform policy to make BC's roads the safest in the world and to provide the best post road trauma care in the country.

Stakeholders:

- RoadSafetyBC
- Office of the Provincial **Health Officer**
- BC Coroner's Office
- ICBC
- RCMP
- City of Vancouver
- Health Authorities
- MoH Services

Target population:

BC Road users (drivers, pedestrian, cyclists)

Inputs

Experience analyzing population level road safety data

BC trauma centre data on studying trauma victims

Research quality data on MV crashes and driver culpability

Activities

Ongoing relationships with RoadSafetyBC and Provincial Health Officer

Immediate Roadside Prohibition (IRP) **Evaluation Study**

Evaluation of BC's child safety restraint legislation

Road trauma study finding elderly more likely to require hospital admission

Member of City of Vancouver Road Safety **Advisory Committee**

Chair of the Research and Data subcommittee of the BC Road Safety Strategy.

Outputs

CIHR funded evaluation of BC's new speed limits

Completion of Canadian Culpability Scoring Tool

- Five year study of role of THC in causing motor
- syncope
- Study on association between leisure activity and risky driving behaviour in young drivers

Study finding impaired drivers treated in hospital after crash are seldom convicted and often engage in impaired driving again

successfully defend road safety law at Supreme Court level

Evaluation of BC's child safety restraint legislation

Grant applications to study effect of legalizing cannabis on road safety and to study outcome of

Developing BC Road Safety Research Centre

Developing improved ED injury surveillance

and functional recovery following road trauma

Short Term (<1 yr)

ed with use of

prescription meds

Immediate Road-

estimated to have

side Prohibition

(IRP) laws

resulted in:

admissions

crashes

trauma

Report on BC

ly unfit drivers

safety restraint

Manuscript on

Elderly drivers

published fall 2017

List of Canadian

Research Priorities

Road Safety

Inventories of: BC road safety

BC linked road

safety - health

record dataset

data

legislation

physician data on

reporting medical-

Validation of child

dispatches for road

Long Term (2-3yrs)

Outcomes

Overall Impact

(CCST), to be used for several studies of drug impaired driving

Survey of BC physicians on reporting medically unfit drivers

- Study on role of cell phones in causing crashes
- vehicle crashes in 7 BC trauma centres Study on risk of crashes following an ED visit for

Immediate Roadside Prohibition Study helped to

road trauma survivors.

Developing list of Canadian Road Safety **Research Priorities**

CIHR funded evaluation Predictors of poor health

Study investigating Articulate results of crash risk associatspeed limit study

> Practice/legislative change; possible improved labelling standards

> Recommendations for BC physicians reporting medically on EM Network website

Increased awareness that elderly are more likely to be seriously injured in crashes

changes on THC impaired driving, or changes in enforcement

Inform possible changes in speed limit policy to

prescription med use to reduce MVC mortality

Possible legislative

reduce MV crash mortality Increased EP and driver awareness regarding

Potential enactment of new unfit driver reporting law to to reduce driving by medically impaired drivers

Enforcement of appropriate child safety restraint laws to maintain child safety on BC roads

Increased awareness of injury risk in elderly motorists to produce better elderly patient outcomes

Significant Challenges:

Priority Goals:

Document extent of

Evaluation of recent

Provide guidelines to

reduce motor vehicle

crashes (MVCs) due to

Improved road trau-

ma surveillance (that

captures all road users)

Better understanding

of outcome following

road trauma (in all

road users)

impairment due to

illicit & prescribed

transport policy.

impairment.

drugs.

Lack of stable funding; currently no ongoing monitoring of the # of drivers impaired by THC; difficulty to influence enforcement of impaired driving laws pertaining to medications; difficulty accessing data on which drivers take Rx drugs and crash