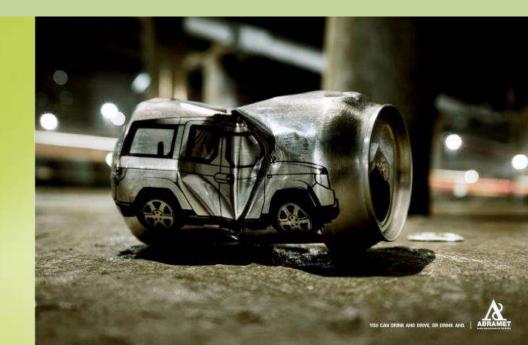


ZAHRA HUSSEIN, MPH, Injury Prevention Program Lead Trauma Services, VGH MEGAN OAKEY, MPH, School Age and Adult Prevention Public Health, VCH

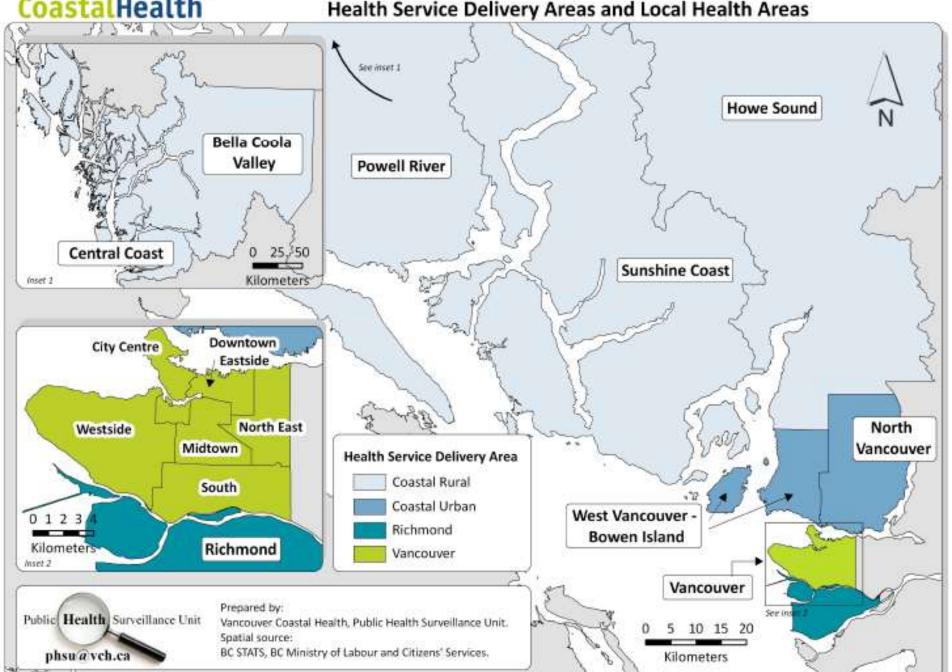
National Road Safety Conference June 2014, Vancouver BC

# Let's take a moment ...

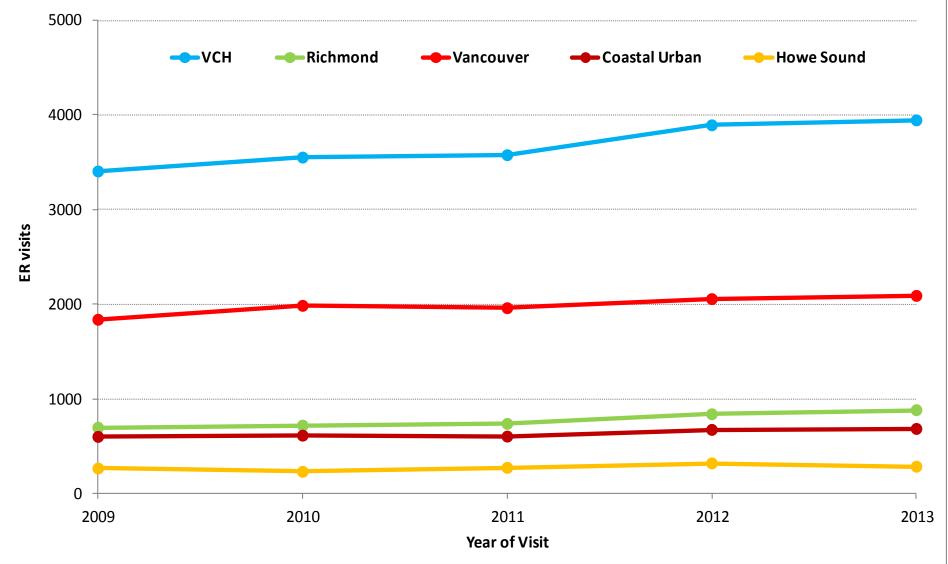




Vancouver Coastal Health Authority
Health Service Delivery Areas and Local Health Areas



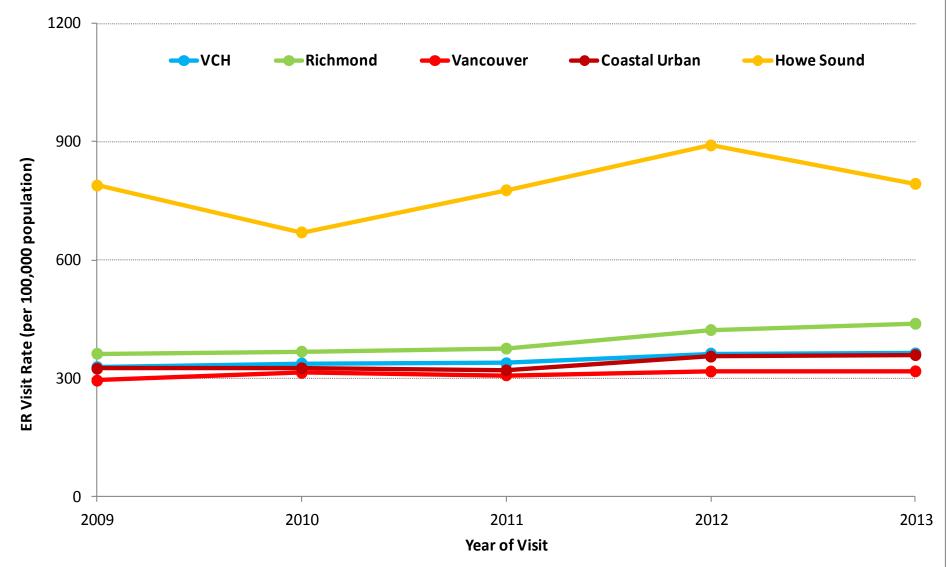
## Number of ER visits due to motor vehicle collisions by HSDAs and Howe Sound LHA, Vancouver Coastal Health Authority, 2009-2013



<sup>\*</sup>Motor vehicle collision-related visits are captured through ICD-9 codes E810-E819, E958.5, E968.5, E988.5 and a key word search through the following data fields: presenting complaint, nature of injury, mechanism of injury and activity at time of injury.

Source: ER visits data include data reported for nine of 13 acute care facilities in VCH and are collected through three different information systems. These systems are: 1 – CareCast (Richmond Hospital, UBC Hospital and Vancouver General Hospital); 2 – Eclipsys (Mount Saint Joseph Hospital and St. Paul's Hospital) and; 3 – McKesson (Lions Gate Hospital, Pemberton Health Centre, Squamish General Hospital and Whistler Health Care Centre). ER data is current as of January 2014.

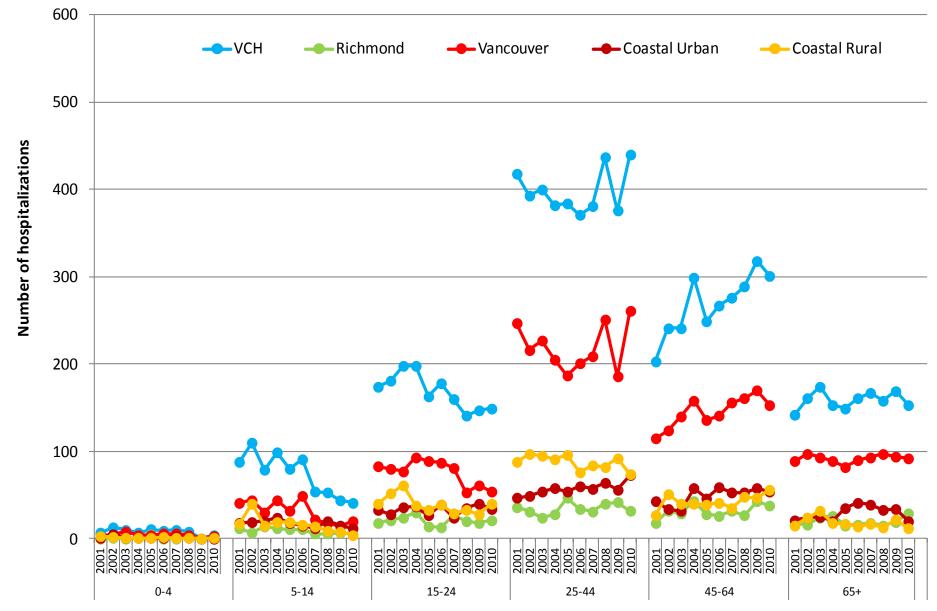
## Number of ER visits due to motor vehicle collisions per 100,000 population by HSDAs and Howe Sound LHA, Vancouver Coastal Health Authority, 2009-2013



<sup>\*</sup>Motor vehicle collision-related visits are captured through ICD-9 codes E810-E819, E958.5, E968.5, E988.5 and a key word search through the following data fields: presenting complaint, nature of injury, mechanism of injury and activity at time of injury.

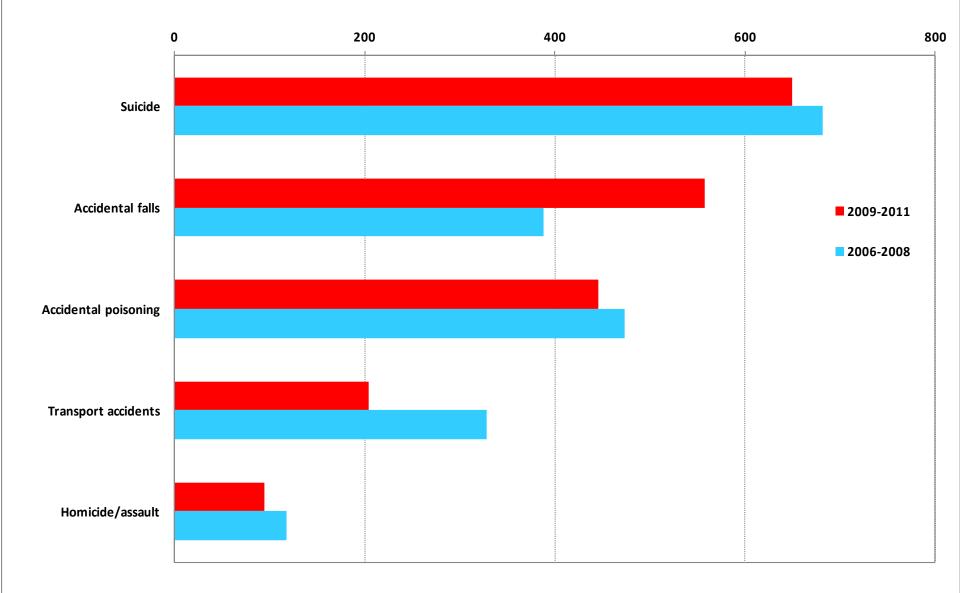
Source: ER visits data include data reported for nine of 13 acute care facilities in VCH and are collected through three different information systems. These systems are: 1 – CareCast (Richmond Hospital, UBC Hospital and Vancouver General Hospital); 2 – Eclipsys (Mount Saint Joseph Hospital and St. Paul's Hospital) and; 3 – McKesson (Lions Gate Hospital, Pemberton Health Centre, Squamish General Hospital and Whistler Health Care Centre). ER data is current as of January 2014.

# Number of hospitalizations due to transport-related injuries by HSDAs and age group, Vancouver Coastal Health Authority, 2001-2010

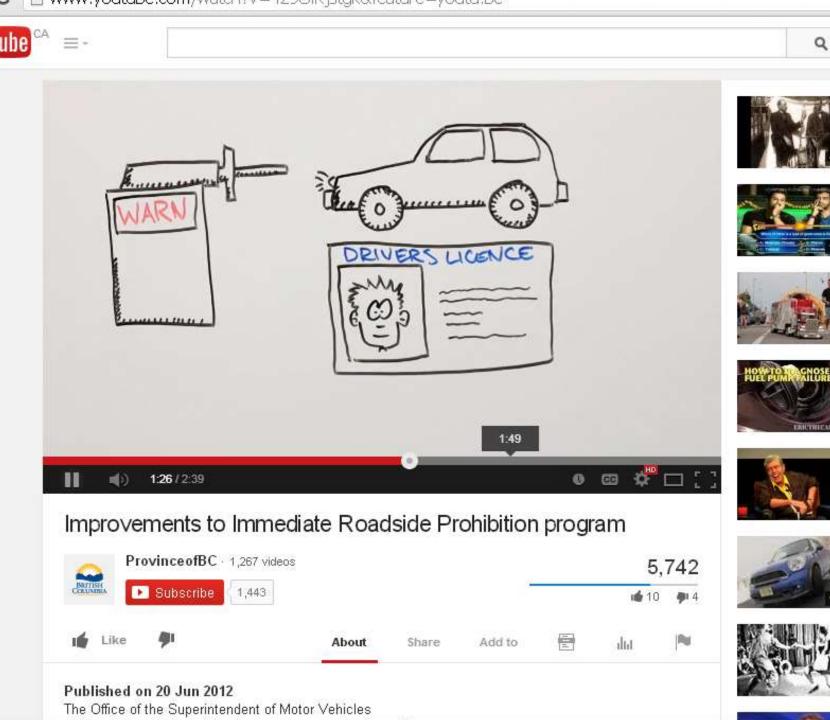


<sup>\*</sup>Transport related hospitalization are captured by ICD 10 code V01-V99. Source: Discharge Abstract Database (DAD), Ministry of Health, BCIRPU, 2013

#### Top five injury-related deaths among VCH residents



ICD 10 codes were used to identify the injury-related death. Each above injury was defined as suicide (X60-X84, Y870), accidental falls (W00-W19), accidental poisoning (X40-X49), transport accidents (V010-V99, Y850, Y859) and homicide/assault (X85-Y09, Y871). Source: Vista Web Application, BC Vital Statistics Agency.



28,810 views

Prohibition D by mtlepley 20,539 views

kaun banega special Golm by james2c2007 68,302 views

Peterbilt 359 Show (Piston by VirtualMake 1,908,499 views

How To Diag Failure - Eric by EricTheCarG 931,597 views

Jerry Lewis of

2013 MINI Co MPH Drive &

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The Jazz Age

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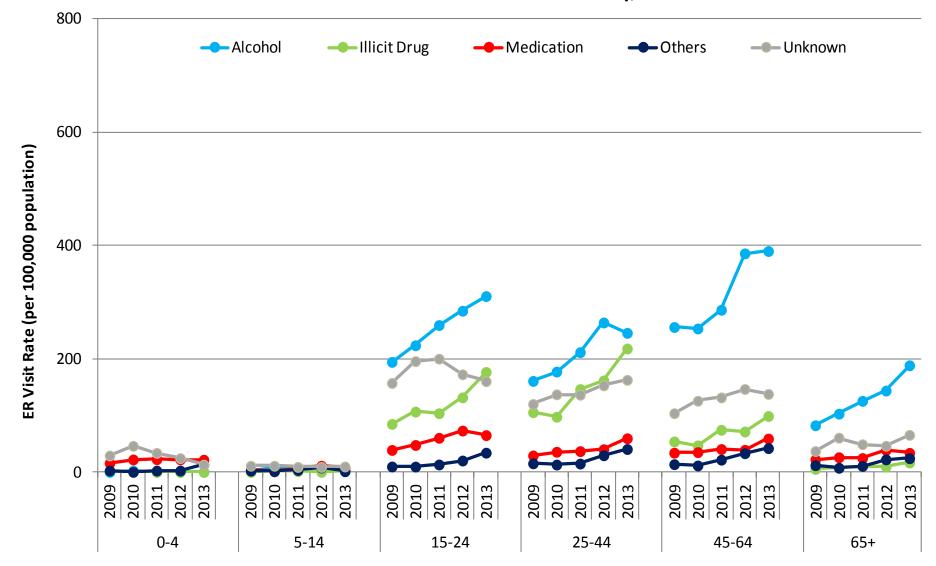
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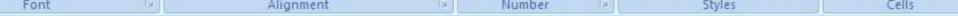
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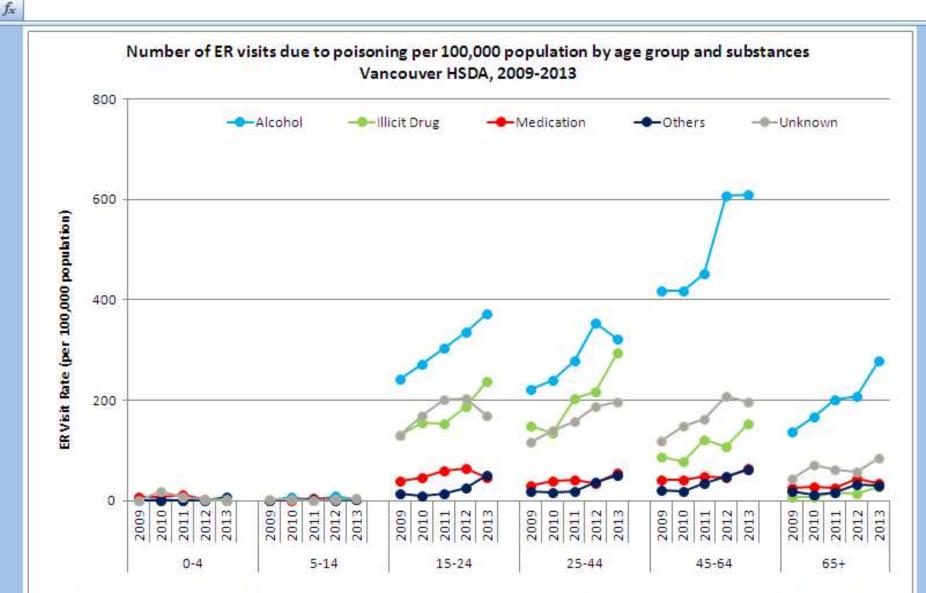
## Number of ER visits due to poisoning per 100,000 population by age group and substances, Vancouver Coastal Health Authority, 2009-2013



<sup>\*</sup>Poisoning related visits are captured through ICD-9 codes 960-979, 980-988, 989, E850-E858, E860-E869, E935 and ICD 10 codes T36-T39, T41-T65 and a key word search through the following data fields: presenting complaint, nature of injury, mechanism of injury and activity at time of injury.

Source: ER visits data include data reported for nine of 13 acute care facilities in VCH and are collected through three different information systems. These systems are: 1 – CareCast (Richmond Hospital, UBC Hospital and Vancouver General Hospital); 2 – Eclipsys (Mount Saint Joseph Hospital and St. Paul's Hospital) and; 3 – McKesson (Lions Gate Hospital, Pemberton Health Centre, Squamish General Hospital and Whistler Health Care Centre). ER data is current as of January 2014.





<sup>\*</sup>Poisoning related visits are captured through ICD-9 codes 960-979, 980-988, 989, E850-E858, E860-E869, E935 and ICD 10 codes T36-T39, T41-T65 and a key word search through the following data fields: presenting complaint, nature of injury, mechanism of injury and activity at time of injury.

Source: ER visits data include data reported for nine of 13 acute care facilities in VOH and are collected through three different information systems. These systems are: 1 - CareCast (Richmond Hospital), UBC Hospital and Vancouver General Hospital); 2 - Eclipsys (Mount Saint Joseph Hospital and St. Paul's Hospital) and; 3 - McKesson (Lions Gate Hospital), Pemberton Health Centre, Squamish General Hospital and Whistler Health Care Centre). ER data is current as of January 2014.

# A Data Snapshot

- **ED** volume and rate of MVC-related injuries in VCH
- **hospitalization** rates for transport-related injuries in VCH among 45-64 age group
- Decreasing transport accident mortality ->
   Road Side/Hands Free Prohibition?
- 1 Increasing **ED** rate of alcohol-related injuries in VCH; particularly, Vancouver

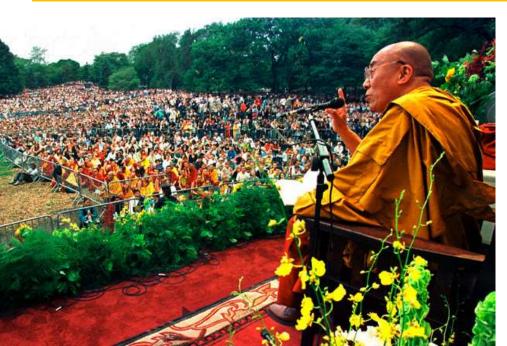
# Now what?!?



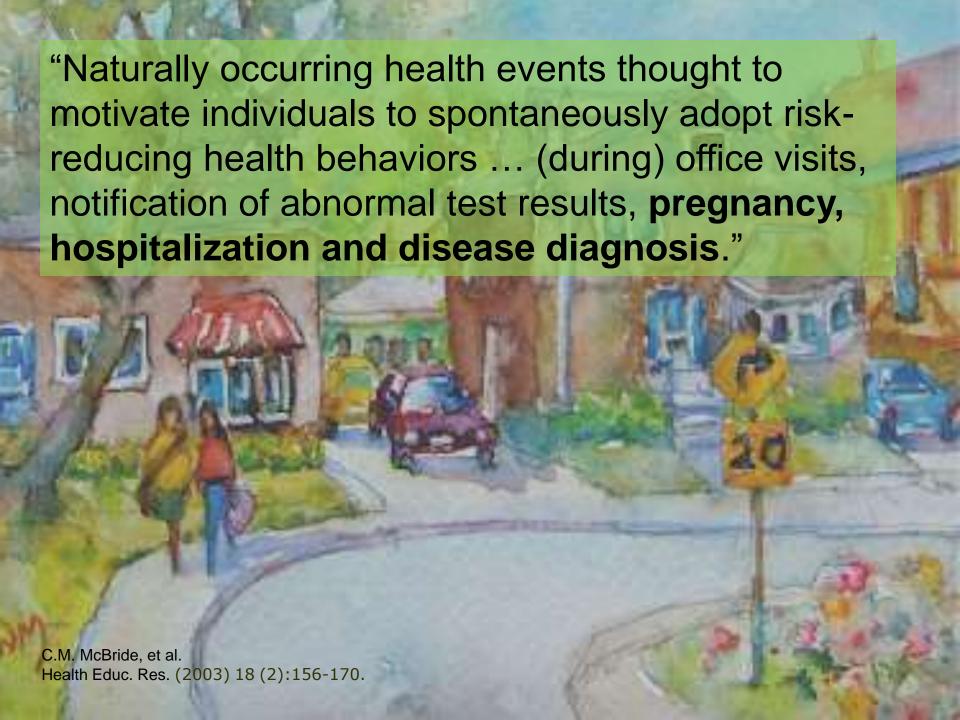




## **A Unique Perspective**









# Are you too busy to improve?



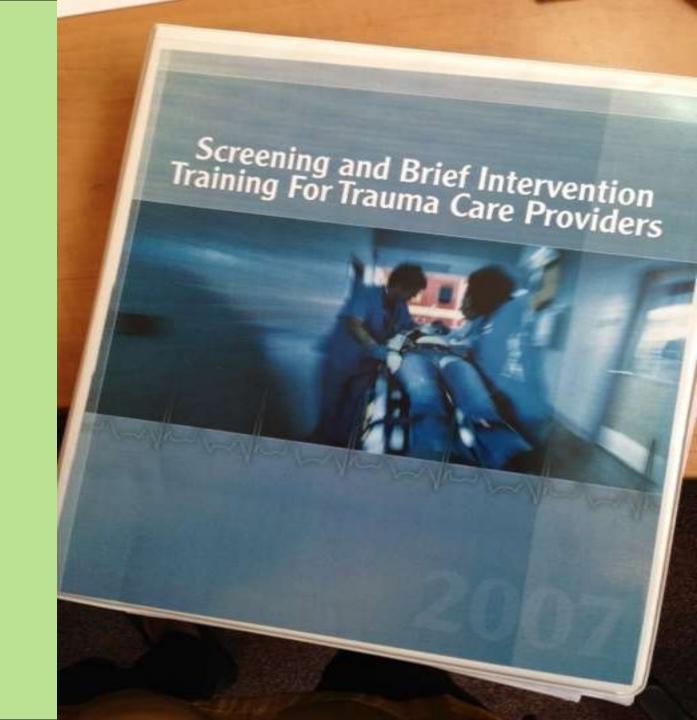


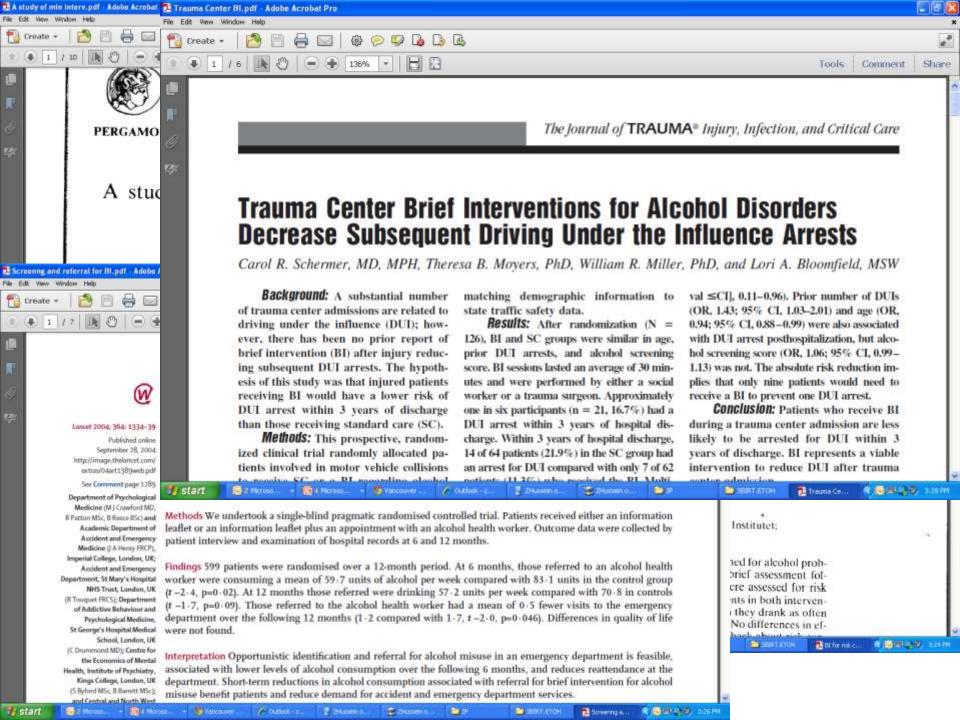
Marie Steinthaler @marmarlade · Mar 17
Are you too busy to improve? (via @ChristophBauer) pic.twitter.com/HKDElqGFgj

♠ Reply ★ Retweet ★ Favourite

Flag media

- Screening,
- Brief
- Intervention and
- Referral to
- Treatment





# AUDIT -C

Questions	Scoring System					Your
	0	1	2	3	4	Score
How often do you have a	Never	Monthly or	2-4 times	2-3 times	4+ times	
drink containing beer, wine		less	per month	per week	per week	
or other alcoholic						
beverages?						
How many units of alcohol	1-2	3-4	5-6	7-9	10+	
do you drink on a typical day						
when you are drinking?						
	<u> </u>				5.11	
How often have you had 4	Never	Less than	Monthly	Weekly	Daily or	
or more units (if female) or		monthly			almost	
5 or more (if male), on a					daily	
single occasion in the last						

**TOTAL** 

**SCORE:** 

**Scoring:** A total of 5+ indicates increasing or higher risk drinking. An overall total

year?

score of 5 or above is AUDIT-C positive.

#### Steps of the Brief Intervention

# Raise the subject

"If it's okay with you, let's take a minute to talk about the alcohol screening form you've filled out today."

#### Provide feedback

Feedback is provided on screening results, BAC/toxicology screen, the link between drinking and injury, guidelines for consumption, and methods for reducing or stopping drinking.

# Enhance motivation

- "On a scale of 0-10, how ready are you to cut back?
- If >0: "Why that number and not a \_\_\_\_\_ (lower one)?"
- If 0: "Have you ever done anything while drinking (using drugs) that you later regretted?"

#### Negotiate plan

- "What steps can you take to cut back your use?
- "How would your drinking (drug use) have to impact your life in order for you to start thinking about cutting back?"

#### Referral:

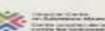
# Canada's Low Risk Drinking Guidelines and Addiction Services: Community Supports, BC211, AA

#### Trinking.

CONTRACTOR OF SECURE

Drinker of a permital strains of the second strains of the second strains when a second strains when, word have said how





Canada's

Low-Risk Alcohol Drinking Guidelines



#### **ALCOHOLICS ANONYMOUS**

Autoropides Artonymous in a failure flag of mon and with each other that they may sales their common problem and help others to receive hour aborralisms The way requirement is a desire to step drinking.

#### Vancouver General Hospital

Mondays, 7:00-8:00pm Gym 2nd Floor, Health Centre

Wednesdays, 7:00-8:00pm JP Pavillon-14th Floor Education Rm #14010

Sundays, 2:00-3:00pm JP Pavilion - 128 Conference Rm #12170

#### DC2115 can help

The Attention & Drug Information and Substrated



CONTRACTOR OF

Victoria adu-













# IP Goal = Reduce the number and severity of injuries presenting in our community

Screen all (a) trauma activations, (b) trauma consults and (c) trauma admits ≥ 15 years unless patient too sick to respond.

Staff training and education: September 2014

Implementation date: Tuesday, October 7, 2014

# **Road Safety Advocacy Strategy**



A huge thank you to the VCH Public Health Surveillance Unit for the data and particularly to Jat Sandhu and Tim Chu for preparing the graphs and helping us to interpret their findings.



### **Public Health Surveillance Unit**



