

Concussion Policy and Research

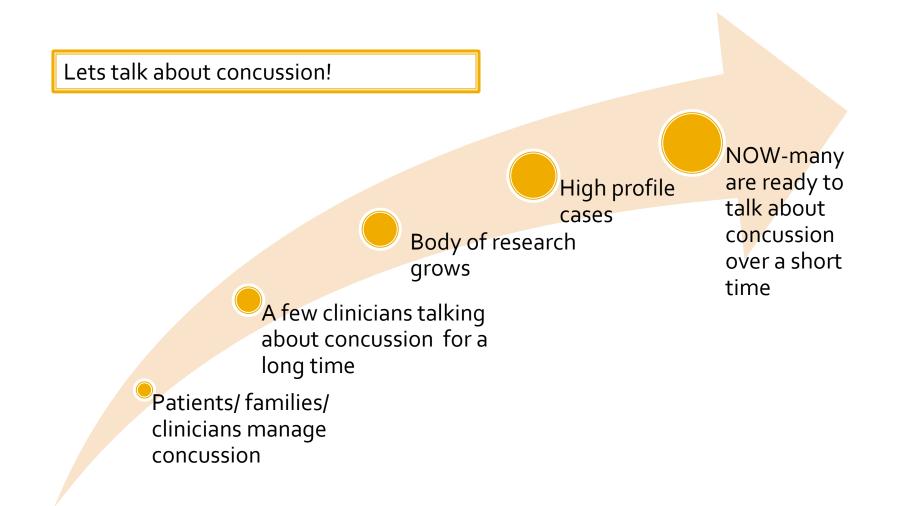
Lynne Fenerty, RN, DOMP ThinkFirst Nova Scotia/ QEII Division of Neurosurgery ACIP 2012 Injury Prevention Conference October 16, 2012 Main Republic Ballroom 10:15



Concussion Panel

- Dr. Charles Tator History ThinkFirst
- Matt Eagles Concussion Survivor
- Dr. JoAnne Savoie Concussion Management
- Lynne Fenerty Policy and Research

Historically speaking-It's a relief!



Who is Talking Policy and Research now?

Google Searches Concussion Policy

31,900,000 results

Concussion Research

6,250,000 results

Concussion Research Funding 1,290,000 results

What have we learned from Concussion Research?

Lots to date	A lot more in the future
 Brain needs rest Can't see injury on current imaging It can be a slow recovery 	 Should we exercise some? New imaging technology, biomarkers

Future treatments

Policy, Research and behavior change

I qot

back

Eric Lindros

Adam Deadmarsh Pat LaFontaine

Research, knowledge, education and awareness are changing policy in hockey now.

Athletes are aware now too!

Research, brain banks - CTE (Chronic Traumatic Encephalopathy) found in hockey players-this is changing policy!





Policy/Legislation can be the stimulus to push towards a state of education and readiness.

OR

 Education and readiness first and then implement policy/legislation.

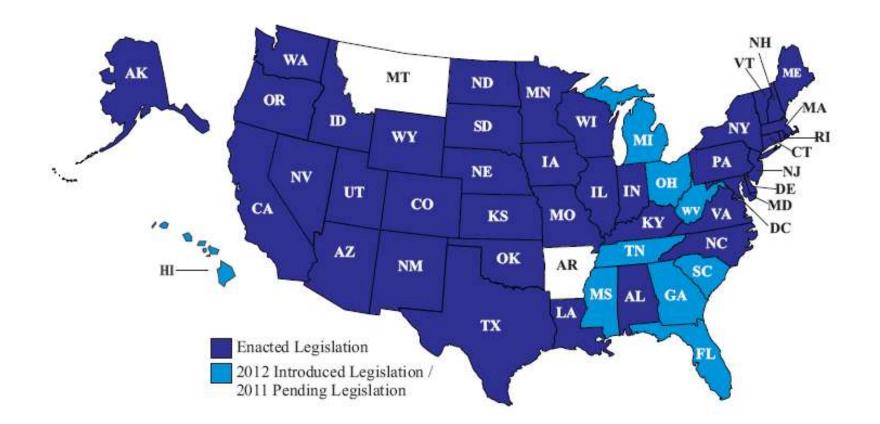
Principals of Policy

 Policy development based on research and best practices.

 Concussion policy across full spectrum of concussion.

i.e. medical and community readiness for policy such as, return to play.

Enacted Legislation Targeting Youth Sports-Related Concussions



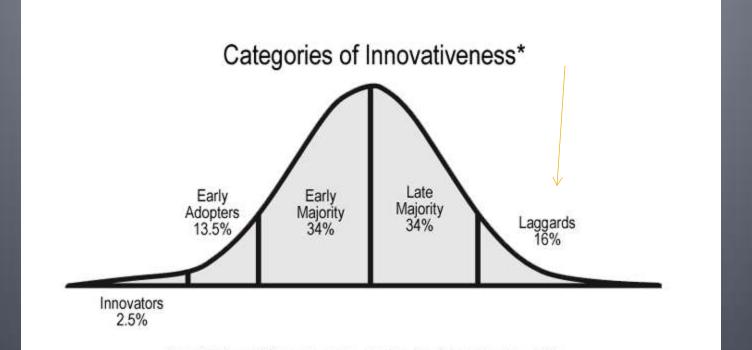
Source: National Conference of State Legislatures, 2012.

Canada

- Ontario is the first province in Canada to introduce legislation on concussion in schools "The Education Amendment Act (Concussions)"
- B.C. Proposed private members bill.
 "The Concussions in Youth Sport Safety Act "

Behavioral Change Laggards often need extra push !

Policy often directed at the Laggards



*From E.M. Rogers, Diffusion of Innovations, 4th edition (New York: The Free Press, 1995)

Nova Scotia-Research and Policy Getting the work done!

- Neurosurgery interest in injury prevention dates back 22 years +
- Aligned Injury prevention work with research, advocacy and policy
- NS Population 921,727 (2011), 42 % HRM
- Dedicated, collaborative injury prevention network

Collaborative Research and Policy Department of Health and Wellness

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ABOUT	Healthy Comm	unities			Injury Prevention	
PROGRAMS AND SERVICES	Nova Scotia Non-Le Helmet Policy Paper	gislated Sport ar	nd Recreat	ion	<u>Cost of Injury</u> Injury Prevention	
PUBLIC HEALTH	This policy paper was compiled by the Division of Neurosurgery, QE II Health Sciences Centre, Halifax, Nova Scotia at the request of the Department of Health and Wellness. It identifies activities where helmets may be effective in preventing or reducing the severity of brain injuries.			<u>Strategy</u> <u>Injury Prevention</u> <u>Strategy Highlights</u>		
> Environmental Health	This is useful information f	or government and o	ur partners to	o help guide	Injury Prevention Best	
 Healthy Communities Acts and Legislation 	policy discussions; howeve Department of Health and	Wellness.			Practices Resources Falls	
> Chronic Disease and	Nova Scotia Non-Legislated	d Sport and Recreatio	n Helmet Poli	cy Paper	Road Safety	-
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Nova Scotia Experience

Research informing

- 1. advocacy efforts
- 2. policy development

Research measuring the effectiveness of Injury Prevention

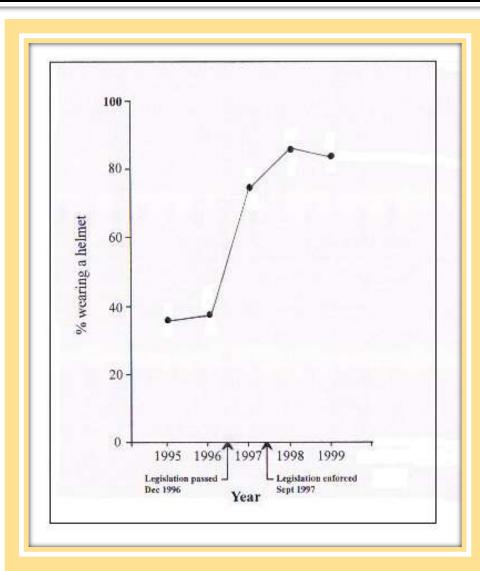
- a. Education
- b. Legislation
- c. Enforcement

Only Possible via Collaboration!

Nova Scotia Examples Research Translation and Policy

Helmets- Wheeled activities-legislation Helmets -Skating-policy Helmet -Skiing and snowboarding -legislation

Helmet use across time in NS Pre -legislation –post- sustained

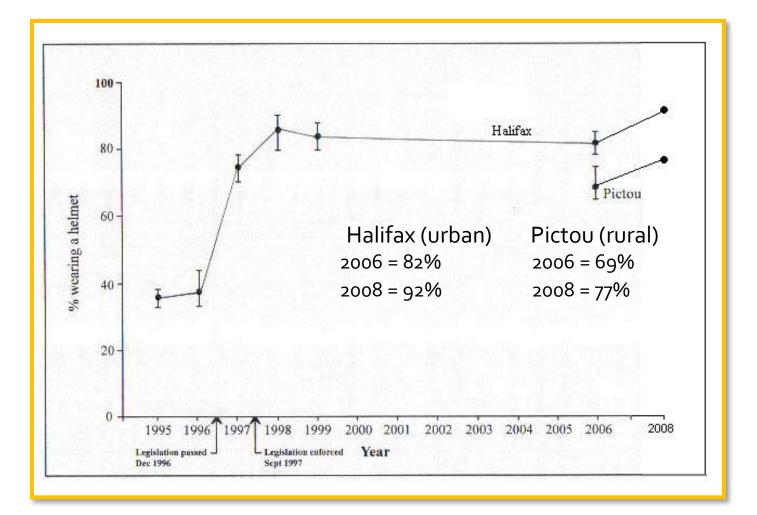


Helmet Use Rates for Halifax

Year	Rate (%)		
1995	35.9		
1996	37.7		
1997	75.3		
1998	85.5		
1999	83.8		

LeBlanc et al. (2002)

Results - Enforcement and Helmet use



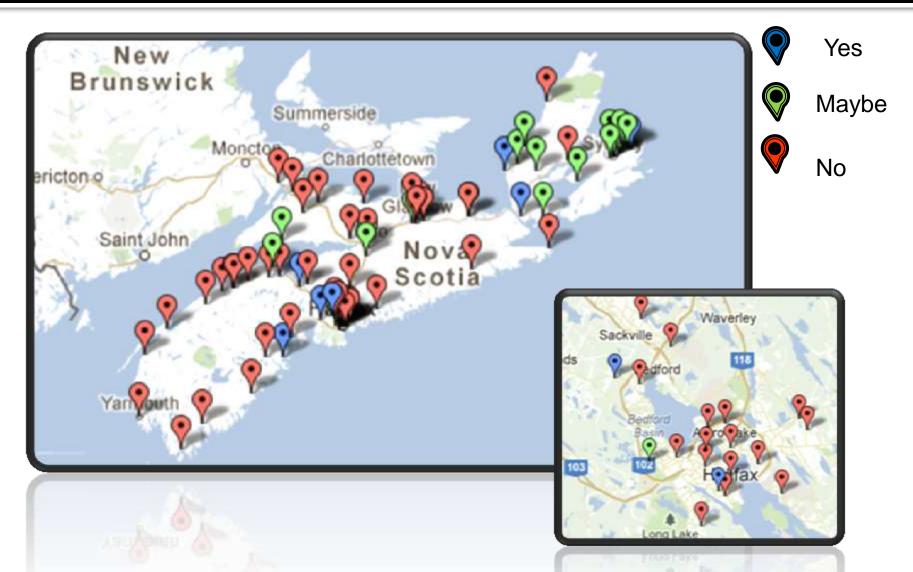
Skating Helmet Rules in NS All-Ages 2009 baseline



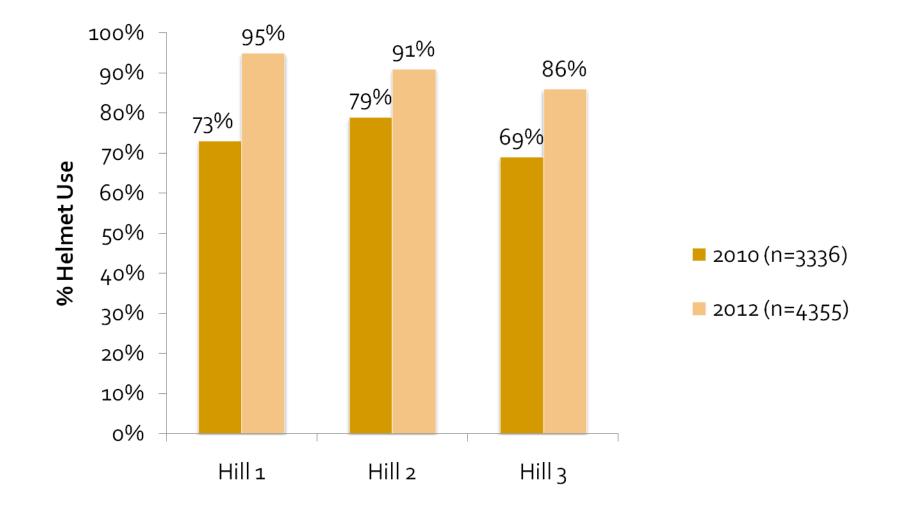
All-Ages Helmet Rules in NS 2011-one year post Dal arena policy



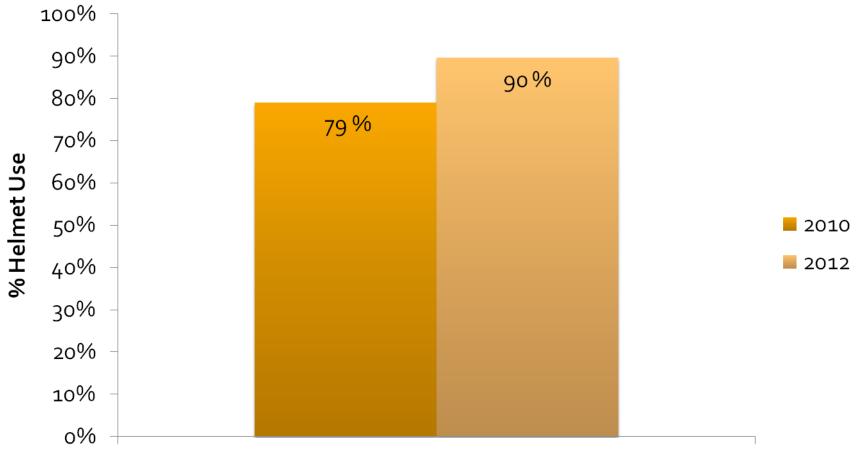
Current All-Ages Helmet Rules in NS-growing interest-readiness



Skiing and Snowboarding Helmet use 2010 vs. 2012 - Hills

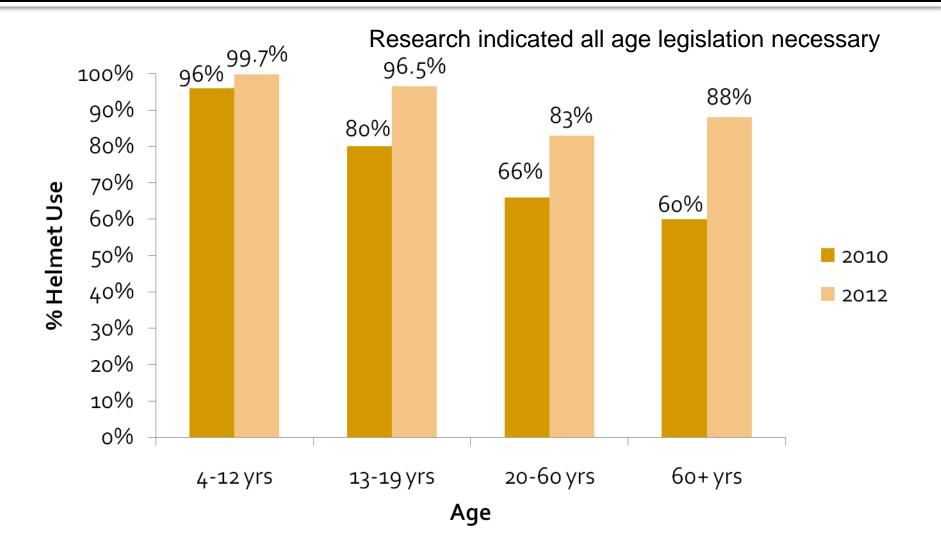


Skiing Snowboarding Overall

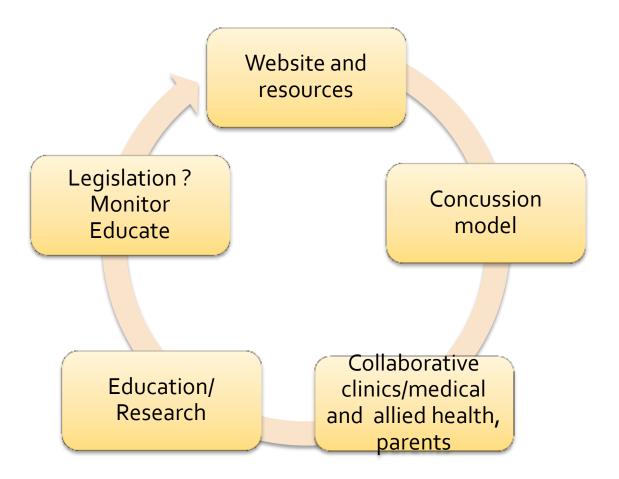


Helmet Wearers

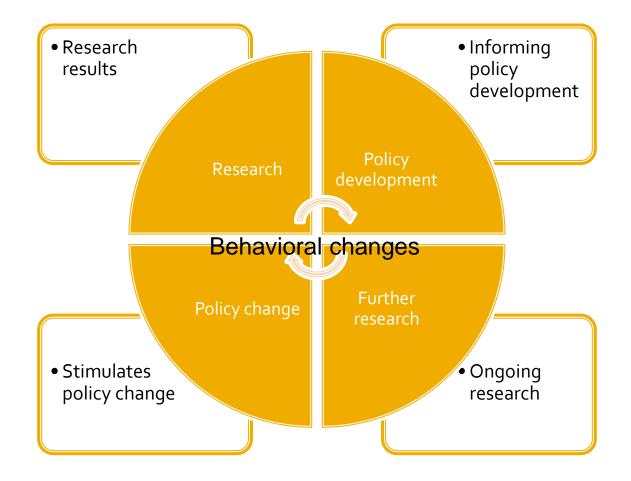
2010 vs. 2012 across age groups



Concussion in NS- early stages



Research driving policy Policy driving research



Future

Bright future

- Research
- Education
- Policy/Legislation

 Most importantly ...improved prevention so patients will NOT suffer concussions

 For those with concussions ...a better management experience and improved outcomes !

Readiness and Timing = Now



Improving Patient Outcomes Preventing and Managing Concussions Together

Acknowledgements

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- Department of Health and Wellness
- Division of Neurosurgery

Reflects work of many collaborative partners!

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Thank You!