Evaluating the effect of a social marketing campaign on bicycle helmet use in BC

The Health Action Process Approach Model and the Preventable Campaign

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Background

- Bicycle helmet use for all ages has been mandated by legislation in BC since 1996
- In 2010 alone*, cycling injuries accounted for
 - 19% of all transport-related hospitalizations
 - 7,743 emergency room visits (20% of total)
 - \$63 million in direct costs
 - \$36 million in indirect costs
- Bicycle helmets help prevent serious head injuries

* Rajabali F, Barnett B, Pike I. Economic Burden of Injury in Britsih Columbia. Vancouver, BC: BC Injury Research and Prevention Unit, 2015.



The Preventable Campaign

- Raise awareness, transform attitudes & behaviours
- Address the underlying attitude: it's not going to happen to me
- Reminder in the time & place of highest risk
- Includes mass media, ambient media & guerrilla stunts

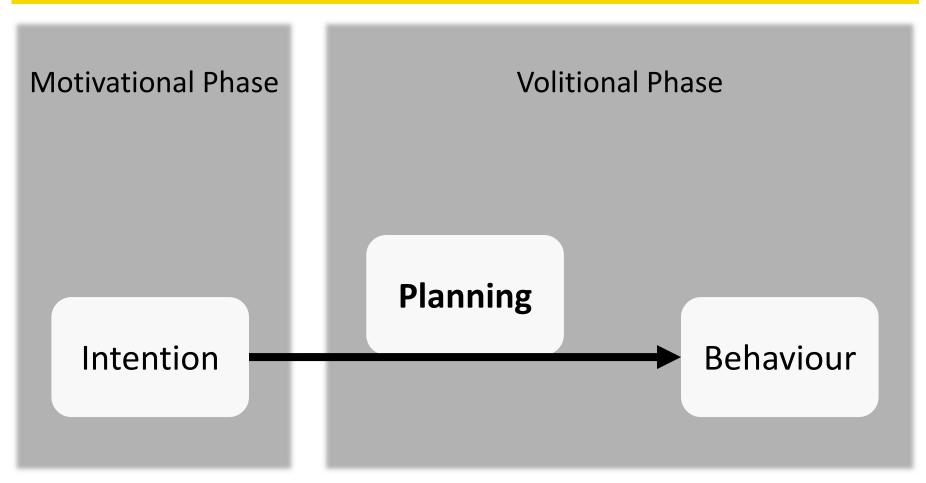


You're not expecting to need a helmet today.

preventable.ca



The Health Action Process Approach Model



Schwarzer R. Modeling health behavior change: How to predict and modify the adoption and maintenance of health behaviors. *Applied Psychology* 2008;57(1):1-29.

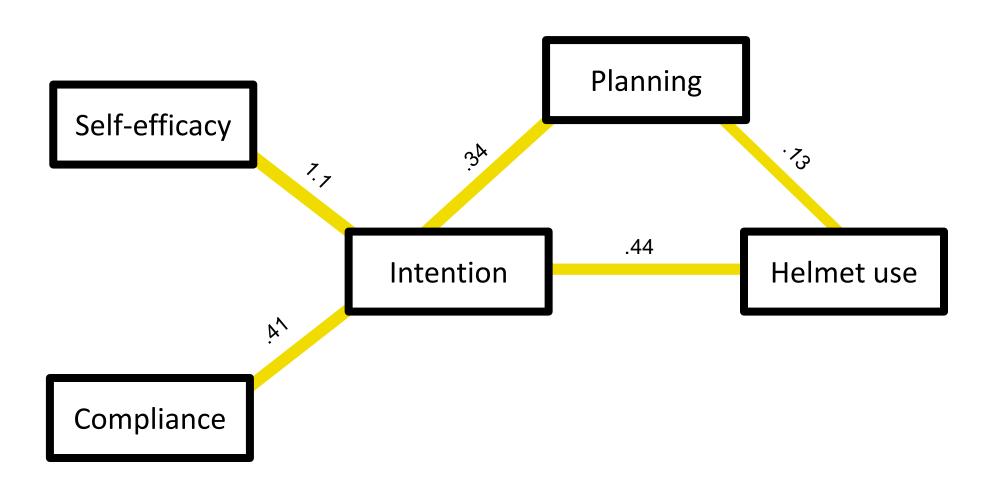


Methods

- Survey of 400 cyclists in BC through regionallyrepresentative sample from online market research panel provider
- Measures to assess self-efficacy, intentions, risk perceptions, planning, helmet use, and awareness of the Preventable campaign slogans
- Propensity score matching (PSM) was used to compare campaign-exposed respondents to unexposed respondents
- Generalized linear modeling tested factors within the HAPA model, including exposure to the Preventable campaign



Results – HAPA constructs





Results – Regression coefficients

	Self-efficacy	Compliance	Intention	Planning	Behaviour
Campaign Exposure					
"Have a word with yourself"	0.27**	0.17	0.38*	0.22*	0.21*
"Seriously?"	-0.03	0.03	-0.08	0.02	-0.07
Gender					
Males	-0.02	-0.04	-0.16	-0.22**	-0.12
Type of Cyclist					
Occasional	0.04	0.16	0.09	-0.04	0.00
Recreational	-0.07	0.26	-0.03	0.09	-0.02
Daily transportation	0.04	0.09	0.06	0.16	0.19
Sports (road)	0.26	-0.49	0.22	0.20	0.29
Sports (mountain)	0.10	0.54	0.29	0.10	0.09
Other	-0.02	-0.38	-0.57	-0.03	0.01
Time on bike					
Daily	Ref.	Ref.	Ref.	Ref.	Ref.
Weekly	<mark>0.46**</mark>	<mark>0.64</mark>	1.10**	0.31	<mark>0.68**</mark>
Monthly	<mark>0.42*</mark>	<mark>0.83*</mark>	1.15**	0.22	0.62**
Few times per year	0.47**	<mark>0.88*</mark>	1.05**	0.07	0.60**
Once or twice a year	<mark>0.46*</mark>	1.10**	1.33**	0.18	<mark>0.67**</mark>





Discussion

- Why Preventable works:
 - Evidence-based approach
 - Creative platform is adaptable to the right time & place
 - Messaging speaks to the audience "on their own terms" and is focus tested prior to going into market
 - Addresses the underlying attitude that connects preventable injuries at home, at work, at play and on the road
 - Public, private and not-for-profit partnerships provide expertise, resources and unique communication channels
 - Ongoing campaign tracking to evaluate impact & optimize the platform and delivery strategy



Thank You

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