

Introduction



- Launched in
 Downtown
 Vancouver in July
 2016
- 1500 bikes at 150 stations planned
- Provides helmets with each bike

Outline

- → Synthesis of literature
- → Research methods

- → Results
- → Discussion
- → Recommendations & Further Research



<u>Literature Review</u>



- Potential Risks
- Current infection control measures
- Other bike-share programs

Potential Risks

Diseases/conditions of concern

Head Lice

Bed Bugs

Staphylococcus aureus skin infections

Scabies

Scalp Ringworm

Control Measures

- Regular inspection & refreshing
- Deep cleaning
- Helmet liners



Conclusion of literature review

- Sharing helmets poses some risk but it is low
 - Effectiveness of Mobi's cleaning regimen is unproven but they're monitoring progress
 - No comparable bike-share programs

Research Methods

Bike Share Helmets - User Preferences

The suppose of this study is to immercial of Moto cases are entang the hormely provided and if for, what their reasons are. They train who have lead if Moto their sequences of the study. These are to immerciate assumed for the purposition in the type of transaction, and your purposition and beautiful that the other manners than the other was provided for this property as the entanglement, and set the provided as an enterprised some immercial point and enterprised some interest point and early to be an expression of the providing your a will be the to the surround and enterprised some form and the providing your a will be the to the surround and enterprised some first any other parties. You are free to enterprise contact and enterprised some providing order.

- I have read and understand the conditions of the consent form and agree to participate in this study
 - □ 5m
- Please select your age category
 - 10-35 yrs
 - □ 28-85 (vii
 - D 50- 99
- 1) How often do you currently use Mobi Bikes?
 - Acres more (see four book per week)
 - Cookeanity (1-2 time per week)
 - Somewhat other (3-4 times per week)
 - Cher (Nil lines per week)
 - Yes often (7 days our work).

- SurveyMonkey Survey
 - In-person
 - Social media
- Inclusion criteria: anyone who has used a Mobi bike
- Statistical analysis performed in Excel and NCSS

Results

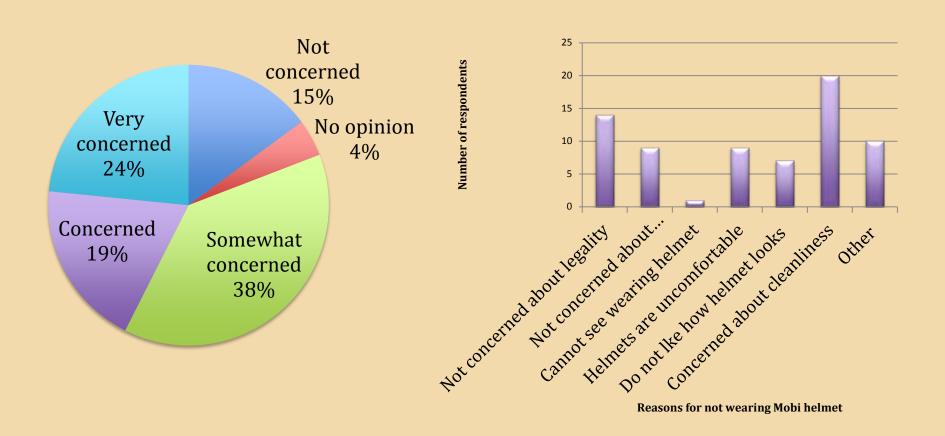


Figure 1. Concern for cleanliness of helmets

Figure 2. For those who prefer not to wear the Mobi helmet what their reasons are

Results

Hypothesis	Conclusion
1. There is an association between helmet use on personal bike and helmet use on Mobi bike	
2. There is an association between level of concern for cleanliness of the Mobi helmet and likelihood of wearing it	X
3. There is an association between most important factor chosen (of aesthetics, cleanliness, safety, comfort/fit, legal requirement) and likelihood of wearing Mobi helmet	

- →Findings were mostly consistent with what was expected
- →Study was limited by the small sample size
 - Seasonal variation in ridership, poor weather, difficulty in predicting the busiest stations, limited social media reach
- → Reasons other than those listed for preference to not use Mobi helmet

User comments



User comments

"Helmets are wet"

"Helmets are not necessary"

User comments

Of the 47 participants, 13 indicated that they didn't believe helmets were necessary for various reasons:

- → Cycling isn't inherently dangerous
- → Cycling is made safer with proper bike infrastructure
- → Is it important to normalize cycling without a helmet to encourage cycling for those who have the perception of it being unsafe
- → Requiring helmets reinforces the idea that cycling is unsafe

Current helmet use research

- → Helmet use has been associated with reduced head injuries in several studies
- → One US study stated that helmet legislation quadrupled helmet use
- → Helmet legislation is most effective when combined with other safety initiatives such as reduced speed limits and improved cycling infrastructure (i.e. separated bike lanes)
- → There is safety in numbers!

Recommendations

 Update helmet cleaning Standard Operating Procedure



2. Share cleaning procedures with users

3. Use members as a resource to report soiled or damaged helmets to ensure timely response

Future Projects

- Follow-up survey after sharing helmet cleaning procedures
- Risk assessment of public health trade-off (risk of contracting illness vs. risk of not wearing a helmet or using the bike service)
- Cycling safety campaigns
 - Helmet use
 - Infrastructure improvements



Sources

Photos:

- @mobi_bikes. (2017, Apr.) "We can't stop admiring...." [Instagram post]. Retrieved from: https://www.instagram.com/p/BMCi-aeAkzh/?taken-by=mobi_bikes&hl=en

Vancouver's new Mobi bike share bikes (Jenni Sheppard/Daily Hive)