Assessing the feasibility of an online survey: Transport and well-being among teenagers in New Zealand

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Participatory photography gives voice to young non-drivers in New Zealand

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Summary
Thesis topic:

“Mobility Health - Bridging the gap between transport behavior and well-being among teenagers”

Main research question:
What dimensions of transport behavior predict well-being among youth aged 16-18 in the Southland region of New Zealand, and in Portland, Oregon, USA?
- **Project 1**: Qualitative photovoice project, completed August 2014 - manuscript in peer review
- **Project 2**: Pilot on-line survey - Completed October 2014
- **Project 3**: Main survey in Southland, New Zealand
- **Project 4**: Qualitative interviews and online survey in Portland, Oregon, USA
Hospitalization due to motor vehicle accidents - New Zealand

Age 15-19 years, 2001-2013

Number of Discharges

2001 2013

IPRU, University of Otago, National Injury Query System
Age 15-19 years, MV occupant, both genders

Hospitalization due to motor vehicle accident

- 2001-2013
  - Crude rate – Southland: 169.4/100,000 persons
  - Crude rate – NZ: 147.8/100,000 persons
  - Crude rate – U.S.: 101.4/100,000 persons

Death due to motor vehicle accident

- 2001-2011
  - Crude rate – Southland: 46.6/100,000 persons
  - Crude rate – NZ: 17.5/100,000 persons
  - Crude rate – U.S.: 9.26/100,000 persons

IPRU, University of Otago, National Injury Query System

WISQARS http://www.cdc.gov/injury/wisqars/
**Aims:** To assess feasibility of on-line survey design, content, resource management and methods of distribution

**Design & Method:** On-line survey written with Qualtrics® survey tool, with two different delivery methods

**Participants:** Teenagers age 16-18; five classes from 2 secondary schools
Pilot procedures

“In-class”
- Personalized email sent to student address
- Introduction in class, followed by in-class survey

“A-home”
- Introduction to survey at school assembly
- Consents gathered from those interested
- Personalized email sent to preferred address
- Reminder emails used in both methods
Results

- Overall response rate = 82%
- “In-class” response rate = 97%
- “At-home” response rate = 55%
- Male response rate = 67%
- Female response rate = 100%
- Average time to complete = 17 min
- Reminder emails increased responses by 7
Lessons learned

- 4-6 times in the last month
- More than 6 times in the last month

Q26

If you had your choice, what would be your preferred mode of transportation?

*Please choose only one*

- Driving yourself
- Being a passenger in a car
- Cycling
- Walking
- Taking the bus
- Skateboarding or scooter
- Motorbike
If you had your choice, what would be your preferred mode of transportation?

*Please click and drag each mode up or down to rank them in order of your preference*

- Car, motorbike or scooter (driver or passenger)
- Cycling
- Walking
- Taking the bus or other form of public transport
- Skateboarding

Now I'd like to ask you how you got to and from school last week.

Did you go to school at least one day last week?

- Yes
- No
Now I’d like to know how you feel about your life in general.

In general, how do you feel about ....

<table>
<thead>
<tr>
<th></th>
<th>Very Happy</th>
<th>Happy</th>
<th>Unhappy</th>
<th>Very Unhappy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Your school</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The people you go to school with</td>
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<tr>
<td>Your independence</td>
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<tr>
<td>Your social life</td>
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<tr>
<td>The money you have to spend on things</td>
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<tr>
<td>Your ability to get on with people</td>
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<tr>
<td>Your spare time activities</td>
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<tr>
<td>Your standard of living</td>
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<tr>
<td>The future</td>
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</tr>
<tr>
<td>Your life as a whole</td>
<td></td>
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</tbody>
</table>
Q13

Overall, how happy do you feel? Please imagine your general feelings of happiness - for example, over the past year, not just today - on a scale of 0 to 10 (0=very unhappy and 10=very happy).

Please click on and drag the slider to what number best describes your overall feeling of happiness.

Very unhappy

0 1 2 3 4 5 6 7 8 9 10

Very happy

Overall level of happiness

Q14

How well do the following statements describe your relationship with your family/whanau?

<table>
<thead>
<tr>
<th>Statement</th>
<th>Always true/Almost always true</th>
<th>Often true</th>
<th>Sometimes true</th>
<th>Never true/Almost never true</th>
</tr>
</thead>
<tbody>
<tr>
<td>I like to spend free time with my family/whanau</td>
<td></td>
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<tr>
<td>I can easily think of things to do together as a family/whanau</td>
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</tr>
<tr>
<td>My family/whanau ask each other for help</td>
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</tbody>
</table>
Q7

In the last month, which of these kinds of transport have you used to get to places?

Tick as many as apply to you

- Car (as driver)
- Car (as passenger)
- Bus
- Walking
- Bike
- Skateboard or non-motorised scooter
- Motorbike

Q8

University of Otago, celeb

I'd like to ask you some questions about you and how you see yourself.
In the last month, which of these have you used to get to places?

*Tick as many as apply to you*

- School bus
- Public bus
- Walking
- Cycling
- Skateboarding
- Car (as driver)
- Car (as passenger)
- Motorbike or scooter

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Q9

Your Friends, and Your Family ...
Lessons learned

- Barriers
  - Time to enter emails
  - Time to take survey
  - Time spent working with schools and engaging students
- The importance of chocolate!
- Use of social media
- Māori translation and ethical principles
Sneak peek at MAIN STUDY so far….

- Eleven schools have completed main study survey in Southland, NZ
- Response rate is currently 77%
- Reminder emails have increased responses by 56 surveys
- Portland sample to be surveyed Fall 2015 – the “at-home” method using Facebook most likely
Acknowledgements

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    - Division of Humanities
  - Safe States
  - Student scholarship to attend conference
...and they all lived happily ever after. The End!
Questions?