Appendix 1: Survey Instrument

Helmet wearing practices and barriers to use in Toronto bike-share (Bixi) users: A case-control study

**SURVEY # \_\_\_\_\_\_\_\_\_\_\_\_**

**SURVEYOR Initials:** \_\_\_\_\_\_\_\_\_\_\_\_

Survey Data

Bixi Location: Site Number: \_\_\_\_\_\_\_\_\_ Location (intersection): \_\_\_\_\_\_\_\_\_\_\_\_

Date (MM/DD/YYYY): \_\_\_\_\_\_\_\_\_\_\_\_

Weekday?: Y/N \_\_\_\_\_\_\_\_\_\_\_\_

Time (24:00 format): \_\_\_\_\_\_\_\_\_\_\_\_

Temperature (Celsius): \_\_\_\_\_\_\_\_\_\_\_\_

Road Conditions: (Dry/Wet/Snow): \_\_\_\_\_\_\_\_\_\_\_\_

**WEARING HELMET?** (Y/N) **\_\_\_\_\_\_\_\_\_\_\_\_**

Demographics:

1) Have you participated in this survey already? (Y/N) \_\_\_\_\_\_\_\_\_ (**IF Yes: Stop**)

2) Age (yrs): \_\_\_\_\_\_\_\_

3) Gender (M /F) \_\_\_\_\_\_\_\_

4) Do you live in Toronto (area code 416/647/905)? Y / N \_\_\_\_\_

5) Do you live in the BIXI coverage area? (Y/N/Don’t know)

6) Do you work or go to school in the BIXI coverage area?(Y/N/Don’t know)

7) What form of Bixi Subscription plan are you using?

- $5 / 24-hour access

- $12 / 72-hours access

- $40 / 30 day subscription

- $ 95 / 1 year subscription

Helmet use:

8) Do you own a bike helmet? Y/N \_\_\_\_\_\_

9) How often do you wear a helmet when you cycle ON YOUR OWN BIKE?

(always / most of the time / sometimes / rarely / never / N/A (don’t have access to a bike))

10) How often do you wear a helmet when you cycle ON BIXI?

(always / most of the time / sometimes / rarely / never)

Barriers to Helmet use: (For all)

11) What factors discourage you from wearing a bicycle helmet? (Typical list of choices:

I always wear my helmet/ I sometimes forget / Unfashionable / uncomfortable / messes hair / makes me sweaty / Bulky, inconvenient to bring / ineffective / unnecessary / Don't own one / don't know/ other: \_\_\_\_\_\_\_\_\_\_\_\_

12) *How would a law that made helmet use mandatory impact your cycling ?*

(Choose any/all):

- I would wear a helmet more often

- I would not wear a helmet more or less frequently than I do now

- I would wear a helmet less often

- I would cycle less

- I would cycle more

- Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Helmet Share

13) Would you use a **clean** helmet if it was available for rent at low cost at the BIXI station?

(Very likely, somewhat likely, neither likely nor unlikely, somewhat unlikely, very unlikely/ I always bring my own helmet / Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ )

14) Would you use a **clean** and adjustable **loaner** helmet if it was available at the BIXI station for no additional charge with your Bixi bike use?

(Very likely, somewhat likely, neither likely nor unlikely, somewhat unlikely, very unlikely / I always bring my own helmet / Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ )

15) Would you wear a helmet (that was given to **you for free, to keep**) if it was provided with your BIXI subscription? ((Very likely, somewhat likely, neither likely nor unlikely, somewhat unlikely, very unlikely)

Cycling Practice:

16) Do you own a bike? (Y/N)

17) How often do you cycle ON YOUR OWN BIKE in the non-winter months?

- Please estimate how many days per month: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

18) How often do you cycle ON BIXI in the non-winter months?

- Please estimate how many days per month: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

19) What is the purpose of this BIXI trip (that you are returning from or starting) – CIRCLE ALL THAT APPLY

a) Social/ entertainment b) Errands / personal appointments c) restaurant /meal

d) Shopping e) Exercise /recreation f) Go to or from work g) Go to or from school

h) go to a meeting I) Other: ­­­­­\_\_\_\_\_\_\_\_\_

20 ) Did you plan on using Bixi today when you left the house?

a) Yes

b) No

c) Maybe: thought I might

Cycling Safety Practice:

21) "How safe do you think cycling is in Toronto"

 (very safe, somewhat safe, neither safe nor dangerous,  somewhat dangerous, very dangerous)

22) How often do you listen to music (with headphones or earbuds) while cycling? (always / most of the time / sometimes / rarely / never)

23) How often do you use a cell-phone while cycling? (always / most of the time / sometimes / rarely / never)

Medical Engagement

*Injury: Personal Bike*

24) Have you been in a cycling accident (collision or fall) in the last TWELVE months on your personal bike? (Y/N) ***(If NO, go to 27)***

25) If so, what was the primary cause: Vehicle door? Vehicle collision? Street-car tracks? Curb or other infrastructure? Other bicycle? Pedestrian? Fall? Other: \_\_\_\_\_\_\_\_\_?

26) Did you go to the emergency department as a result of it? (Y/N)

*Injury: BIXI Bike*

27) Have you been in a cycling accident (collision or fall) in the last TWELVE months on a BIXI bike? (Y/N) ***(If NO, go to 29)***

28) If so, was the primary cause: Vehicle door? Vehicle collision? Street-car tracks? Curb or other infrastructure? Other bicycle? Pedestrian? Fall? Other: \_\_\_\_\_\_\_\_\_?

29) Did you go to the emergency department for it? (Y/N)

Demographics: Socioeconomic

Occupation:

30) What is your employment status? (Circle one)

Student/ Homemaker/Unemployed, seeking work/On disability/ On parental leave/ Self-employed/ Part-time employed/ Full-time employed/ Retired/ Other: \_\_\_\_\_\_ / Refuse

Highest level of education: none/secondary school/university

31) What is your highest level of education? (Circle one)

Primary school / High school/Some undergraduate/undergraduate degree/MD, DDS, LLB, DVM, OD (Optometry), Masters, Doctorate

Language

32) What language do you speak at home? 1) English 2) Other: \_\_\_\_\_\_\_\_\_\_\_\_

Income

33) What is the total yearly income for your entire household? (circle one)

* + Under $10000 per year
	+ Between $10000 and $19999 per year
	+ Between $20000 and $34999 per year
	+ Between $35000 and $49999 per year
	+ Between $50000 and $74999 per year
	+ Between $75000 and $99999 per year
	+ Between $100000 and $149999 per year
	+ Between $150000 and $199999 per year
	+ Over $200000 per year
	+ Not sure/Don’t know
	+ Decline to answer

THANK YOU!

End