Appendix I

Root questionnaire structure

(Researcher form)

Demographic and cycling features

What is your country of residence? _____

Region (to be filled up by the research staff) _____

How old are you? _____

With which gender do you identify yourself?

Female ___

Male ___

Other (Including non-binary and people not willing to disclose it) ___

Highest educational level (on-going, or completed)

Primary or lower ___

Secondary/high school ___

Technical/intermediate training ___

University-Undergraduate degree ___

University-Postgraduate degree ___

Are you an active urban cyclist, i.e., using the bike at least with a certain regularity (once a month or more) for any type of displacement? (filter question)

Yes ___

No ___

During a normal (not lockdown) week, how many hours do you approximately use the bike, in total?

___ hours

On average, how long do your most frequent bike trips usually last?

___ minutes

SSC – Sensation Seeking in Cycling scale

How frequently have you experienced these sensations or performed these behaviors while riding a bike?

F1 – Risk Assumptions / Behavioral Expressions:

- SSC1: Attempting to get to a specific place in less time than usual
- SSC2: Taking pictures or recording videos of my bike trip, or part of it
- SSC3: Attempting some stunt/acrobatic maneuver, even just for the sake of curiosity
- SSC4: Riding with no hands, or only one hand on the handlebar
- SSC5: Going by an irregular or hardly passable path, even if I know a safer, more adequate one
- SSC6: Riding my bike under the effect of alcohol or drugs
- SSC7: Riding on the sidewalk or going against the traffic flow to avoid traffic, or to reach my destination faster

F2 – Non-operational / Attitudinal Factors (F2):

- SSC8: Singing, whistling, or yelling while I ride the bike
- SSC9: Feeling bored of always following the same route(s)
- SSC10: Thinking of what would happen if I did a 'silly' or riskier than usual maneuver
- SSC11: Thinking of what I could do to make my trip more 'exciting'
- SSC12: Trying to catch someone's attention on the road
- SSC13: Not using a helmet, despite having access to one

CBQ - Cycling Behavior Questionnaire

F1 – Please estimate how often you do the following conventional risky behaviors:

0 = Never (at all); 1 = Almost never; **2 = Sometimes**; 3 = Frequently; **4 = Very Frequently**

- CBQ1: Cycling under the influence of alcohol and/or other drugs or hallucinogens
- CBQ2: Riding against the traffic flow (wrong way)
- CBQ3: Zigzagging between (weaving in and out of) vehicles when using a mixed lane
- CBQ4: Handling potentially obstructive objects while riding a bicycle (food, packs, cigarettes ...)
- CBQ5: Feeling that I'm going at a higher speed than I should be going at
- CBQ6: Crossing what appears to be a clear crossing, even if the traffic light is red
- CBQ7: Carrying a passenger on my bicycle, without it being adapted for such a purpose
- CBQ8: Having a dispute in speed or 'race' with another cyclist or driver

F2 - Please estimate how often you do the following risky behaviors, produced by errors:

0 = Never (at all); 1 = Almost never; **2 = Sometimes**; 3 = Frequently; **4 = Very Frequently**

- CBQ9: Unintentionally crossing the street without looking properly, thus making another vehicle brake to avoid a crash
- CBQ10: Colliding (or being close to it) with a pedestrian or another cyclist while cycling distractedly
- CBQ11: Braking suddenly and being close to causing an accident
- CBQ12: Failing to notice the presence of pedestrians crossing when turning
- CBQ13: Not braking on a 'Stop' sign and being close to colliding with another vehicle or pedestrian
- CBQ14: Braking very abruptly on a slippery surface
- CBQ15: While I am distracted, not realizing that a pedestrian intended to cross the street
- CBQ16: Not realising that a parked vehicle intends to leave and consequently having to brake abruptly to avoid a collision
- CBQ17: When riding on the left side, not realising that a passenger is getting out of a vehicle or bus, and thus being close to hitting them
- CBQ18: Trying to overtake a vehicle that had previously used its indicators to signal that it was going to turn, consequently having to brake
- CBQ19: Misjudging a turn and hitting something on the road, or being close to losing balance (or falling)
- CBQ20: Unintentionally hitting a parked vehicle
- CBQ21: Failing to be aware of the road conditions and falling over a bump, hole or obstacle
- CBQ22: Confusing one traffic signal with another, manoeuvring according to the latter
- CBQ23: Trying to brake but not being able to use the brakes properly due to a poor hand positioning

F3 - Please estimate how often you do the following protective behaviors:

0 = Never (at all); 1 = Almost never; **2 = Sometimes**; 3 = Frequently; **4 = Very Frequently**

- CBQ24: I stop and look at both sides before crossing a corner or intersection
- CBQ25: I try to move at a prudent speed to avoid sudden mishaps or braking
- CBQ26: I usually keep a safe distance from other cyclists or vehicles
- CBQ27: When I use the bike path (or bike-lane), I always use the indicated lane
- CBQ28: I avoid going out on my bike in adverse weather conditions

- CBQ29: I avoid going out on my bike if I feel very tired or sick

CD – Cycling Distractions

Normally, do these factors distract you and/or impair your cycling attention/performance during your bike trips?

0 = No; **1 = Yes**

- CD1: Text messages, chats or social networks
- CD2: Phone calls
- CD3: Billboards
- CD4: People that I find attractive
- CD5: My own thoughts or concerns
- CD6: Weather conditions
- CD7: The behaviour of other users of the road
- CD8: Obstacles in the way

RPRS – Risk perception and rule knowledge

Please indicate your level of agreement with the following statements, regarding your cycling experience. Please use this scale:

0 = Strongly disagree; **1 = Disagree**; 2 = Neither agree nor disagree; **3 = Agree**; 4 = Strongly agree

F1 – Traffic Rule Knowledge:

- RPRS1: I readily recognise traffic signals
- RPRS2: I know the basic rules governing other types of vehicles
- RPRS3: I believe that pedestrians should always have priority, even over cyclists
- RPRS4: I easily identify areas prohibited to traffic or bicycle parking
- RPRS5: Overall, I know the bicycle safety regulations of my city/town

F2 – Risk Perception:

- RPRS6: I am aware of the potential consequences of being involved in a traffic accident, for example, with another vehicle
- RPRS7: I perceive potentially higher risks for my safety when I ride a bicycle, than when I am on a motorised vehicle
- RPRS8: I am always aware of the other vehicles that surround me on the road
- RPRS9: I realise that there are signalling and infrastructure problems that can affect my safety
- RPRS10: I believe that cycling under the influence of certain substances (alcohol, illegal and/or prescribed drugs) affects my ability to ride well

- RPRS11: I am aware of the risks involved in using headphones and mobile phones while I ride bicycle
- RPRS12: Riding in urban areas is especially risky, considering the number of vehicles and the complexity of the roads

Self-reported health and cycling performance indicators

In a range from 1 (very bad) to 10 (very good), how would you define your current PHYSICAL health? ___

In a range from 1 (very bad) to 10 (very good), how would you define your current MENTAL health? ___

In a range from 1 (very bad) to 10 (very good), how would you rate your CYCLING PERFORMANCE? ___

Self-reported cycling crashes

Over the past five years, have you experienced any accident or crash-related incident while cycling, regardless of its severity?

No ___

Yes ___ → *Can you estimate how many?* ___