

Item Justifications for
Assessing the Fit and Comfort of Motorcycle Safety Gear

Helmets

Table of Contents

Questions and Justifications for Assessing the Fit and Comfort of Motorcycle Safety Gear (Helmet).....2

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#	Question	Justification
Screening 1 (pre-consent)	Are you able to read and understand English?	Participants must be able to read and understand English.
Screening 2 (pre-consent)	Are you at least 18 years old?	Participants must be at least 18 years of age to participate.
#	Observation	Justification
1.	Potential participant gear worn	This item will collect information on general level of use for gear types across participants.
1a.	The helmet is:	This item will collect information on general level of use for gear types across participants.
1b.	The jacket is:	This item will collect information on general level of use for gear types across participants.
1c.	The pants are:	This item will collect information on general level of use for gear types across participants.
1d.	The gloves are:	This item will collect information on general level of use for gear types across participants.
1e.	The footwear is:	This item will collect information on general level of use for gear types across participants.
2.	Weather conditions (check all that apply)	This item will document the conditions during data collection.
2a.	Approximate temperature:	This item will document the conditions during data collection.
3.	Age	This item will be used for classification purposes for analyses if the rider does not self-report this information.
4.	Sex	This item will be used for classification purposes for analyses if the rider does not self-report this information.
5.	Race and/or ethnicity (select all that apply)	This item will be used for classification purposes for analyses if the rider does not self-report this information.
6.	The observed rider:	This item will document if the individual is interested in participating.
#	Question	Justification
7.	What type of bike are you riding today?	This item will collect bike type information.
8.	Make/Model:	This item will collect bike type information.

#	Question	Justification
9.	Model year:	This item will collect bike type information.
10.	How long have you been riding?	This item will provide information about participant riding information and habits.
11.	Check the appropriate box below to indicate how often you ride for each of the following reasons:	This item will provide information about participant riding information and habits.
12.	Check the appropriate box below to indicate how often you ride in each of the following scenarios:	This item will provide information about participant riding information and habits.
13.	Are you or have you been a member of any motorcycle organization(s)? If yes: List up to five of the most recent organization(s) you have been a member of, if you feel comfortable doing so.	This item will provide information about participant riding information and habits.
14.	How does being a member of [embedded text from previous answer] influence your decision to wear protective gear?	This item will provide information about participant riding information and habits.
15.	How did you learn to ride? (Check all that apply)	This item will provide information about participant riding information and habits.
16.	Do you own/possess a motorcycle helmet?	This item will provide information about motorcycle rider gear choices.
16a.	How often do you wear a motorcycle helmet?	This item will provide information about participant riding habits.
17.	Do you own/possess a motorcycle jacket?	This item will provide information about motorcycle rider gear choices.
17a.	How often do you wear a motorcycle jacket?	This item will provide information about participant riding habits.
18.	Do you own/possess motorcycle pants?	This item will provide information about participant motorcycle gear choices.
18a.	How often do you wear motorcycle pants?	This item will provide information about participant riding habits.
19.	Do you own/possess motorcycle footwear?	This item will provide information about participant motorcycle gear choices.
19a.	How often do you wear motorcycle footwear?	This item will provide information about participant riding habits.
20.	Do you own/possess motorcycle gloves?	This item will provide information about participant motorcycle gear choices.

#	Question	Justification
20a.	How often do you wear motorcycle gloves?	This item will provide information about participant riding habits.
21.	How does wearing a motorcycle helmet affect each of the following for you?	This item will provide information on beliefs concerning motorcycle gear.
22.	Indicate how much you agree/disagree with the following statements regarding your motorcycle helmet. My helmet (is):	This item will provide information on beliefs concerning motorcycle gear.
23.	Indicate how the following factors influence your motorcycle helmet usage.	This item will provide information on beliefs concerning motorcycle gear.
24.	How important is the fit of a motorcycle helmet to you?	This item will provide information on beliefs concerning motorcycle gear.
25.	How important is the comfort of a motorcycle helmet to you?	This item will provide information on beliefs concerning motorcycle gear.
26.	How important is having a highly protective motorcycle helmet to you?	This item will provide information on beliefs concerning motorcycle gear.
27.	What are the top three things you consider when purchasing a motorcycle helmet?	This item will provide information on beliefs concerning motorcycle gear.
28.	(Observation) Head shape assessment:	This measurement will be used to assess fit for proper gear sizing.
29.	Head circumference:	This measurement will be used to assess fit for proper gear sizing.
30.	Head breadth:	This measurement will be used to assess fit for proper gear sizing.
31.	Head length:	This measurement will be used to assess fit for proper gear sizing.
32.	(Observation) Did the participant wear a motorcycle helmet to the event?	This observation will be used to determine whether the participant is wearing the gear type of interest.
33.	Is this your usual motorcycle helmet?	This item will provide information about currently owned gear.
34.	How did you obtain this helmet?	This item will provide information about currently owned gear.
35.	Did someone help fit you for this helmet?	This item will provide information about currently owned gear.
36.	(Observation) Helmet type:	This item will be used to assess gear type and quality.
37.	(Observation) Primary / most prominent color(s) (check all that apply):	This item will be used to assess gear type and quality.

#	Question	Justification
38.	(Observation) Helmet manufacturer:	This item will be used to assess gear type and quality.
39.	(Observation) Model:	This item will be used to assess gear type and quality.
40.	(Observation) Size:	This item will be used to assess the fit of gear.
41.	(Observation) Manufacture month and year:	This item will be used to assess gear type and quality.
42.	(Observation) Safety labels (check all that apply):	This item will be used to assess gear type and quality.
43.	Have you made any modifications to this helmet? (Check all that apply)	This item will be used to assess gear type and quality.
44.	Have you added any retroreflective features to this helmet?	This item will be used to assess gear type and quality.
45.	(Observation) The chinstrap:	This item will be used to assess the fit of gear.
46.	(Observation) Chinstrap fit:	This item will be used to assess the fit of gear.
47.	(Observation) The cheek pad fit has:	This item will be used to assess the fit of gear.
48.	(Data collector reads) "I am going to hold your motorcycle helmet still, and I want you to attempt to move your head up and down while I am holding it. Please attempt to move your head up and down a few times." (Data collector grasps helmet to prevent it from moving and observes)	This item will be used to assess the fit of gear.
49.	(Data collector reads) "I am going to hold your motorcycle helmet still, and I want you to attempt to move your head side to side while I am holding it. Please attempt to move your head side to side a few times." (Data collector grasps helmet to prevent it from moving and observes)	This item will be used to assess the fit of gear.
50.	When wearing this helmet for 30 minutes or longer, do you begin to experience any pain or discomfort? If so, please point to those areas now.	This item will be used to assess the fit and comfort of gear.

#	Question	Justification
51. – 57.	In this section, you will be asked for your opinions about different types of helmets. There is a picture and description of each item to help you evaluate it. For each item, assume the helmet fits, it would come in the color you want and at an affordable cost.	This item will be used to measure perceptions of presented gear.
58.	In what State do you currently live?	This item will be used for classification purposes for analyses, and to explore demographic factors that may influence gear fit and comfort preferences among riders.
59.	Which license types do you currently have? (Check all that apply)	This item will be used for classification purposes for analyses, and to explore demographic factors that may influence gear fit and comfort preferences among riders.
60.	What is your age?	This item will be used for classification purposes for analyses, and to explore demographic factors that may influence gear fit and comfort preferences among riders.
61.	What is your sex?	This item will be used for classification purposes for analyses, and to explore demographic factors that may influence gear fit and comfort preferences among riders.
62.	What is your race and/or ethnicity? (Select all that apply)	This item will be used for classification purposes for analyses, and to explore demographic factors that may influence gear fit and comfort preferences among riders.