

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

***Gloves***

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## Questions and Justifications for Assessing the Fit and Comfort of Motorcycle Safety Gear (Gloves)

| #                         | 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)?<br><br>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 motorcycle gloves 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 gloves. My gloves are: | This item will provide information on beliefs concerning motorcycle gear.                                |
| 23.  | Indicate whether the following factors influence your motorcycle glove usage.                                       | This item will provide information on beliefs concerning motorcycle gear.                                |
| 24.  | How important the fit of motorcycle gloves to you?  | This item will provide information on beliefs concerning motorcycle gear.                                |
| 25.  | How important is the comfort of motorcycle gloves to you?   | This item will provide information on beliefs concerning motorcycle gear.                                |
| 26.  | How important is having highly protective motorcycle gloves to you?   | This item will provide information on beliefs concerning motorcycle gear.                                |
| 27.  | What are the top three things you consider when purchasing motorcycle gloves?                                       | This item will provide information on beliefs concerning motorcycle gear.                                |
| 28.  | Hand length:  | This measurement will be used to assess fit for proper gear sizing.                                      |
| 29.  | Hand circumference:   | This measurement will be used to assess fit for proper gear sizing.                                      |
| 30.  | (Observation) Did the participant wear motorcycle gloves to the event?  | This observation will be used to determine whether the participant is wearing the gear type of interest. |
| 31.  | Are these your usual motorcycle gloves?   | This item will provide information about currently owned gear.   |
| 32.  | How did you obtain these gloves?  | This item will provide information about currently owned gear.   |
| 33.  | Did someone help fit you for these gloves?  | This item will provide information about currently owned gear.   |
| 34.  | (Observation) Glove type:   | This item will be used to assess gear type and quality.  |
| 35.  | (Observation) Primary / most prominent color(s) (check all that apply):   | This item will be used to assess gear type and quality.  |
| 36.  | (Observation) Glove manufacturer:   | This item will be used to assess gear type and quality.  |
| 37.  | (Observation) Model:  | This item will be used to assess gear type and quality.  |

| #         | Question   | Justification   |
|-----------|--|---|
| 38.       | (Observation) Size:  | This item will be used to assess the fit of gear.   |
| 39.       | Have you made any modifications to these gloves? (Check all that apply)  | This item will be used to assess gear type and quality.   |
| 40.       | Have you added any retroreflective features to these gloves?   | This item will be used to assess gear type and quality.   |
| 41.       | (Observation) Are there fasteners, buckles, Velcro, or straps to adjust fit present on these gloves?   | This item will be used to assess the fit of gear.   |
| 42.       | (Data collector reads) "Partially open and close your hands as if you were holding on to your control handles." (Data collector observes if participant has adequate range of motion)  | This item will be used to assess the fit of gear.   |
| 43.       | Do these gloves adequately cover the wrist to the motorcycle jacket (if present) or do these gloves fully cover the wrist when the participant is seated in the simulated riding position?   | This item will be used to assess the fit of gear.   |
| 44.       | When wearing these gloves for 30 minutes or longer, do you begin to experience pain or discomfort? If so, please point to those areas now.   | This item will be used to assess the fit and comfort of gear.   |
| 45.       | Please select the type of gear you typically wear. If unsure, please select the type of gear you are currently wearing.  | This item will be used to assess what gear items the participant will be shown to measure gear perception.  |
| 46. – 57. | In this section, you will be asked for your opinions about different types of gloves. There is a picture and description of each item to help you evaluate it. For each item, assume the gloves fit, 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.       | What license type(s) 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   |

| #   | Question  | Justification   |
|-----|---|---|
|     |   | 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. |