



# Factors Predicting Safe Motorcyclist Riding Behaviors among Thai Undergraduates

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Published: January 16, 2024

Cite as: Tanaporn P, Sarunya B, Mondha K. Factors Predicting Safe Motorcyclist Riding Behaviors among Thai Undergraduates. Open Public Health J. 2024; 17: e18749445281386. <http://dx.doi.org/10.2174/0118749445281386231227094640>



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## Questionnaire

### Factors Predicting Safe Motorcyclist Riding Behaviors among Thai Undergraduates

#### Section 1: General Characteristic

**Instruction:** Please read each question carefully before answering it. Choose only one answer from each question that describes your characteristic

1. Sex ☐ 1) Male ☐ 2) Female
2. Age year
3. Year of study  
☐ 1) 1<sup>st</sup> year ☐ 2) 2<sup>nd</sup> year  
☐ 3) 3<sup>rd</sup> year ☐ 4) 4<sup>th</sup> year
4. How much per month do you receive the money from your parent? ☐☐☐☐☐ THB/Month
5. How often do you ride motorcycles in your daily life (days/ week) ?  
☐ 1) daily (7 days) ☐ 2) 5-6 day/ week  
☐ 3) 3-4 day/ week ☐ 4) 1-2 day/week
6. How long have you been riding motorcycles? ☐☐ Years
7. What kind of housing/accommodation do you live in?  
☐ 1) Dormitory inside the university ☐ 2) Dormitory outside the university  
☐ 3) own house or relatives house ☐ 4) Other

8. On average, what is the distance between your residence and the university? ☐☐☐☐ kilometers

9. What is your objective of riding a motorcycle? (Select one answer)

- ☐ 1) Travel conveniently ☐ 2) Saving on traveling time  
☐ 3) Be safety ☐ 4) Saving on transportation costs.  
☐ 5) Other

10. Do you have a motorcycle driving license?

☐ 1) Yes → How long have you had your driver's license? ☐☐ Years

☐ 2) No → please give the reason (Skip to 14)

11. What type of motorcycle driving license do you have?

- ☐ 1) Temporary license, two-year validity  
☐ 2) Private license, five-year validity

12. Do you have training before applying for a motorcycle driving license?

- ☐ 1) Yes, at Department of Land Transport ☐ 2) Yes, via online training  
☐ 3) No ☐ 4) Not sure

13. Do you have any experience of motorcycle driving after alcohol drinking?

- ☐ 1) Always ☐ 2) Often  
☐ 3) Sometime ☐ 4) None

14. Over the past year, do you have any accidents

caused by riding a motorcycle?

☐ 1) No (Skip to section 2)

☐ 2) Yes

14.1) How many times have you had accidents caused by riding? ☐ time/ year

14.2) What is the accidental cause of riding a motorcycle?

14.2.1) High-speed riding ☐ 1) Yes ☐ 2) No

14.2.2) Not wearing a helmet ☐ 1) Yes ☐ 2) No

14.2.3) Riding a motorcycle in a reverse direction ☐ 1) Yes ☐ 2) No

14.2.4) Cutting off another vehicle while riding a motorcycle over a short distance

☐ 1) Yes ☐ 2) No

14.2.5) Traffic signal violations ☐ 1) Yes ☐ 2) No

14.2.6) Riding a motorcycle after alcohol drinking ☐ 1) Yes ☐ 2) No

14.2.7) Motorcycle is not in a good condition ☐ 1) Yes ☐ 2) No

14.2.8) Damaged road conditions ☐ 1) Yes ☐ 2) No

14.2.9) Slippery roads ☐ 1) Yes ☐ 2) No

14.2.10) Other

## Section 2: knowledge-related traffic rules

**Instruction:** Please read each question carefully before answering. Choose the one answer from each question that best describes your opinion by placing a checkmark (✓) in the box.

| Items   | Answer  |           |                  |
|---|---------|-----------|------------------|
|   | Correct | Incorrect | Uncertain Answer |
| 1. Wearing a full-face safety helmet or half-leaf helps to protect both the face and head   | -       | -         | -                |
| 2. The safety helmet must be a suitable size for your head  | -       | -         | -                |
| 3. The blood alcohol content of 20 mg % indicated that a motorcyclist rider aged under 20 years with a temporary driving license violated a traffic law | -       | -         | -                |
| 4. Motorcyclist riders who have a blood alcohol content greater than 50 mg % indicated they violated a traffic law                                      | -       | -         | -                |
| 5. The punishment for drunk driving on a motorcycle is both fine and a driver's license suspended for at least six months.                              | -       | -         | -                |
| 6. When riding a motorcycle through an intersection or encountering a red flashing red light, motorcyclist rider must reduce their speed                | -       | -         | -                |
| 7. The red and white traffic signs on the pavement indicate that parking is prohibited  | -       | -         | -                |
| 8. If riding the motorcycle through an intersection that does not have a traffic light, the rider must allow the vehicle on their left side to go first | -       | -         | -                |
| 9. Motorcycles over five years old must undergo a vehicle inspection prior to paying annual tax   | -       | -         | -                |
| 10. The motorcycle's headlight should be yellow   | -       | -         | -                |
| 11. The side view mirror on the motorcycle must be in an upright position on the handlebars   | -       | -         | -                |
| 12. The law requires that every type of motorcycles must have a maximum cylinder capacity of 110 cc.  | -       | -         | -                |
| 13. People aged 15 years and over who are not yet 18 can apply for a temporary motorcycle driving license with a cylinder capacity not exceeding 110 cc | -       | -         | -                |
| 14. People aged 18 years and over can apply for a temporary motorcycle driving license motorcycles with a cylinder capacity of 110 cc or more.          | -       | -         | -                |
| 15. The traffic law prohibits using a mobile phone while riding a motorcycle  | -       | -         | -                |
| 16. Riding a motorcycle in urban or municipal areas could not use a speed exceeding 80 km/hr.   | -       | -         | -                |
| 17. Riding a motorcycle outside the city limits or outside the municipal area could not use a speed exceeding 90 km/hr.                                 | -       | -         | -                |
| 18. Motorcycles with a cylinder capacity of 400 cubic centimeters or more could not use a speed exceeding 110 km/hr                                     | -       | -         | -                |

## Section 3: Attitudes toward safe motorcyclist riding behavior

**Instruction:** Please read each question carefully

before answering. Choose the one answer from each question that best describes your opinion from strongly agree to strongly disagree by placing a checkmark(✓) in the box.

| You believe that.....   | Strongly Agree | Agree | Neither Agree Nor Disagree | Disagree | Strongly Disagree |
|---|----------------|-------|----------------------------|----------|-------------------|
| 1. Riding a motorcycle without wearing a helmet is dangerous, even if you are cautious                                    | -              | -     | -                          | -        | -                 |
| 2. If riding a motorcycle for short distances, it's unnecessary to wearing a helmet                                       | -              | -     | -                          | -        | -                 |
| 3. Drinking alcohol before riding a motorcycle can cause to impaired consciousness  | -              | -     | -                          | -        | -                 |
| 4. Consuming even a small amount of alcohol can decrease riding performance   | -              | -     | -                          | -        | -                 |
| 5. Even if you are drunk, you remain a safe motorcyclist riding   | -              | -     | -                          | -        | -                 |
| 6. There is no need to regularly check the motorcycle's headlight before riding because the road's light is bright enough | -              | -     | -                          | -        | -                 |
| 7. Regularly checking the motorcycle tires before riding helps you drive safely   | -              | -     | -                          | -        | -                 |
| 8. Regular checking the motorcycle brake system before riding helps you drive safety                                      | -              | -     | -                          | -        | -                 |
| 9. Training before applying for a motorcycle driving license wastes time and does not increase knowledge                  | -              | -     | -                          | -        | -                 |
| 10. Even if you do not have a motorcycle driving license, it is possible to ride safety                                   | -              | -     | -                          | -        | -                 |
| 11. Urgent braking of the motorcycle causes danger to the following vehicle   | -              | -     | -                          | -        | -                 |
| 12. When riding a motorcycle through a community or school, it is not necessary to reduce speed if there are no crowds    | -              | -     | -                          | -        | -                 |
| 13. When riding a motorcycle in rural or urban areas, it could use the same speed   | -              | -     | -                          | -        | -                 |
| 14. Riding a motorcycle in a reverse direction does not cause any trouble to others                                       | -              | -     | -                          | -        | -                 |
| 15. While riding a motorcycle, you can use a mobile phone   | -              | -     | -                          | -        | -                 |

#### Section 4: Subjective norm toward safe motorcyclist riding behavior

**Instruction:** Please read each question carefully

before answering. Choose the one answer from each question that best describes your opinion from strongly agree to strongly disagree by placing a checkmark (✓) in the box

| You perceived that.....   | Strongly Agree | Agree | Neither Agree Nor Disagree | Disagree | Strongly Disagree |
|---|----------------|-------|----------------------------|----------|-------------------|
| 1. Family always reminds you to wear a safety helmet and fasten the chin strap during riding a motorcycle     | -              | -     | -                          | -        | -                 |
| 2. Family forbids alcohol drinking before riding a motorcycle   | -              | -     | -                          | -        | -                 |
| 3. Family always reminds you to check the motorcycle's condition before riding a motorcycle                   | -              | -     | -                          | -        | -                 |
| 4. Family always reminds you to carry a motorcycle driving license while riding a motorcycle                  | -              | -     | -                          | -        | -                 |
| 5. Family don't allow you to ride a motorcycle if you don't have a motorcycle driving license                 | -              | -     | -                          | -        | -                 |
| 6. Family always reminds on riding a motorcycle with caution  | -              | -     | -                          | -        | -                 |
| 7. Family reminds on riding a motorcycle without a reverse direction so as not to cause any trouble to others | -              | -     | -                          | -        | -                 |
| 8. A friend often reminds you to wear a safety helmet before riding a motorcycle                              | -              | -     | -                          | -        | -                 |
| 9. A friend forbids riding a motorcycle if drinking an alcoholic beverage                                     | -              | -     | -                          | -        | -                 |
| 10. A friend often asks about checking the motorcycle tires before riding                                     | -              | -     | -                          | -        | -                 |

| You perceived that.....  | Strongly Agree | Agree | Neither Agree Nor Disagree | Disagree | Strongly Disagree |
|--|----------------|-------|----------------------------|----------|-------------------|
| 11. A friend ask that do you have a motorcycle driver's license  | -              | -     | -                          | -        | -                 |
| 12. A friend forbids riding a motorcycle at a speed exceeding the legal limit  | -              | -     | -                          | -        | -                 |
| 13. A friend reminds on riding a motorcycle without a reverse direction  | -              | -     | -                          | -        | -                 |
| 14. Road safety campaign related to wear a safety helmet and fasten the chin strap, modeled by a favorite group of superstars or celebrities, which makes you imitate              | -              | -     | -                          | -        | -                 |
| 15. Road safety campaigns related to "don't drive drunk", modeled by a favorite group of superstars or celebrities, which makes you imitate  | -              | -     | -                          | -        | -                 |
| 16. Road safety campaigns promoting "free a motorcycle inspection during a long holiday", modeled by a favorite group of superstars or celebrities, which makes you imitate        | -              | -     | -                          | -        | -                 |
| 17. Encouraging to carry a motorcycle riding license and apply for a motorcycle driving license, modeled by a favorite group of superstars or celebrities, which makes you imitate | -              | -     | -                          | -        | -                 |
| 18. Motorcycle riding campaign "slow but sure, safety riding along the route," modeled by a favorite group of superstars or celebrities, which makes you imitate                   | -              | -     | -                          | -        | -                 |

### Section 5: Perceived behavioral control over safe motorcyclist riding behavior

**Instruction:** Please read each question carefully

before answering. Choose the one answer from each question that best describes your opinion on the level of confidence from very high to very low by placing a checkmark (✓) in the box

| You are confident to.....   | Very High | High | Medium | Low | Very Low |
|---|-----------|------|--------|-----|----------|
| 1. Wear a safety helmet every time while riding a motorcycle  | -         | -    | -      | -   | -        |
| 2. Wear a safety helmet every time, even if traveling a short distance  | -         | -    | -      | -   | -        |
| 3. Fasten the chin strap every time, even if it feels uncomfortable   | -         | -    | -      | -   | -        |
| 4. Do not ride a motorcycle, even if drinking a small amount of alcoholic beverage                            | -         | -    | -      | -   | -        |
| 5. Do not drink alcoholic beverages, regardless of whether you ride a motorcycle for a short or long distance | -         | -    | -      | -   | -        |
| 6. Definitely do not ride a motorcycle while intoxicated  | -         | -    | -      | -   | -        |
| 7. Do not ride when the headlights' motorcycle is out of order  | -         | -    | -      | -   | -        |
| 8. Do not ride when the motorcycle tires are damaged  | -         | -    | -      | -   | -        |
| 9. Do not ride when the motorcycle brake system is not is not functioning properly                            | -         | -    | -      | -   | -        |
| 10. Take the motorcycle riding's license test before riding a motorcycle                                      | -         | -    | -      | -   | -        |
| 11. Safe riding a motorcycle, even without a motorcycle riding's license                                      | -         | -    | -      | -   | -        |
| 12. Apply the knowledge gained from the motorcycle riding license test correctly                              | -         | -    | -      | -   | -        |
| 13. Always reduce the motorcycle's speed while reaching an intersection or curve                              | -         | -    | -      | -   | -        |
| 14. Reduce the motorcycle's speed and caution while riding a motorcycle past the community or school          | -         | -    | -      | -   | -        |
| 15. Ride a motorcycle at a maximum speed of 80 km/hr, even if you're in a hurry                               | -         | -    | -      | -   | -        |
| 16. Do not ride a motorcycle in the reverse direction, even if the road is clear or you're in a hurry         | -         | -    | -      | -   | -        |
| 17. Do not use a mobile phone while riding a motorcycle   | -         | -    | -      | -   | -        |

## Section 6: The intention to perform safe motorcyclist riding behavior

**Instruction:** Please read each question carefully

before answering. Choose the one answer from each question that best describes your intention from highest to lowest intention by placing a checkmark (✓) in the box

| You are intent or ready to...  | Highest Intention | High Intention | Medium Intention | Low Intention | Lowest Intention |
|--|-------------------|----------------|------------------|---------------|------------------|
| 1. Fasten the chin strap every time you wear a safety helmet while riding a motorcycle               | -                 | -              | -                | -             | -                |
| 2. Wear a safety helmet every time, even if you're traveling a short distance                        | -                 | -              | -                | -             | -                |
| 3. Purchase a safety helmet that displays the certified signs of the Thai Industrial Standard        | -                 | -              | -                | -             | -                |
| 4. Do not drink an alcoholic beverage before riding a motorcycle                                     | -                 | -              | -                | -             | -                |
| 5. Do not drink alcoholic beverages, even if you are riding a motorcycle for a short distance        | -                 | -              | -                | -             | -                |
| 6. Do not ride a motorcycle when you are drunk   | -                 | -              | -                | -             | -                |
| 7. Always check the headlights' motorcycle before riding   | -                 | -              | -                | -             | -                |
| 8. Always check the tire pressure's motorcycle before riding   | -                 | -              | -                | -             | -                |
| 9. Always check the motorcycle brake system before riding  | -                 | -              | -                | -             | -                |
| 10. Do not ride a motorcycle if you do not have or do not carry a motorcycle riding license          | -                 | -              | -                | -             | -                |
| 11. Always reduce the motorcycle's speed while reaching an intersection or curve                     | -                 | -              | -                | -             | -                |
| 12. Reduce the motorcycle's speed and caution while riding a motorcycle past the community or school | -                 | -              | -                | -             | -                |
| 13. Ride a motorcycle at a speed not exceeding 80 km/hr.   | -                 | -              | -                | -             | -                |
| 14. Do not use a mobile phone while riding a motorcycle  | -                 | -              | -                | -             | -                |
| 15. Do not ride a motorcycle in the reverse direction, even if it seems quicker or the road is clear | -                 | -              | -                | -             | -                |

## Section 7: Safe Motorcyclist Riding Behaviors

**Instruction:** Please read each question carefully

before answering. Choose the one answer from each question that best describes your behavior from always to never by placing a checkmark (✓) in the box

| Your behavior toward riding a motorcycle  | Frequency of practice within the last seven days |         |           |        |       |
|---|--|---------|-----------|--------|-------|
|   | Always   | Usually | Sometimes | Rarely | Never |
| 1. Wear a safety helmet while riding a motorcycle, regardless of where you go             | -  | -       | -         | -      | -     |
| 2. Fasten a chin strap while riding a motorcycle, regardless of where you go              | -  | -       | -         | -      | -     |
| 3. Wear a safety helmet that displays the certified signs of the Thai Industrial Standard | -  | -       | -         | -      | -     |
| 4. Drink alcoholic beverages before riding a motorcycle.                                  | -  | -       | -         | -      | -     |
| 5. Asking a friend to ride a motorcycle instead of you if you drink alcoholic beverages   | -  | -       | -         | -      | -     |
| 6. Riding a motorcycle while intoxicated  | -  | -       | -         | -      | -     |
| 7. Check the headlights' motorcycle before riding   | -  | -       | -         | -      | -     |
| 8. Check the tire pressure's motorcycle before riding                                     | -  | -       | -         | -      | -     |
| 9. Check the motorcycle brake system before riding  | -  | -       | -         | -      | -     |
| 10. Carry a motorcycle driver's license   | -  | -       | -         | -      | -     |

| Your behavior toward riding a motorcycle   | Frequency of practice within the last seven days |         |           |        |       |
|--|--|---------|-----------|--------|-------|
|  | Always   | Usually | Sometimes | Rarely | Never |
| 11. Reduce the motorcycle's speed while reaching an intersection                                   | -  | -       | -         | -      | -     |
| 12. Reduce the motorcycle's speed of the motorcycle while entering to the community or school area | -  | -       | -         | -      | -     |
| 13. Riding a motorcycle at a speed not exceeding 80 km/hr.   | -  | -       | -         | -      | -     |
| 14. Use a mobile phone while riding a motorcycle   | -  | -       | -         | -      | -     |
| 15. Riding a motorcycle in a reverse direction   | -  | -       | -         | -      | -     |

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