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Dr. Deeksha M
1-91 G3 Jai Guruji Malpe 2nd
Cross Road, Subramanya
Nagar Santhekatte Post,
Udupi, Karnataka, India

Dr. Umesh Mohan CS
Alvas Homoeopathic Medical
College and Hospital, Mijar,
Moodbidri, Karnataka, India

Assess the knowledge, awareness and practice of wearing seatbelts and helmet among the drivers of private vehicle who are visiting Moodbidri municipality

Dr. Deeksha M and Dr. Umesh Mohan CS

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Abstract

Main aim of the research is to assess the knowledge of wearing Seatbelt and Helmets among the drivers of private vehicle who are visiting Moodbidri Municipality. To assess the knowledge of traffic rules among the adult population. Also to assess whether the peoples are practicing the traffic rules. And the riders are aware about the government action if they are not obeyed the rules. Also having the aim of educating the people about Road-Traffic safety measures. By this research work finding out the cause of not wearing helmet and seatbelt or to know any particular reason behind refusing to wear Helmet and seatbelt while travelling in vehicle. Trying to find out the solution for reducing the fatal and grievous injury in Road-accident because of non-usage of seatbelt and helmet while riding the four-wheeler and two-wheeler vehicle.

Also Aiming at Improvement of Hospital Set up and Arrangement of proper Emergency care unit in the hospital for the patient who are coming to hospital after RTA. Surgery and Medicine Department of the Medical Health Centers have to be improved to provide emergency-health care with all the equipments and all the setup for any procedures.

A questionnaire was prepared regarding the knowledge of wearing seatbelt and helmet .Collected data was evaluated. The collected data was analyzed. Inference was obtained from the data obtained. By this study it was assessed that people are aware of most of rules and regulation of road safety measures and their importance in preventing RTA but at the same time it was even noted that most of the people have paid fine for not following the Safety measures rules and regulations. From this it can be inferred that though people were aware about wearing seat belt and helmet it has not been practiced properly. Based on this further study can be made and reason for this can be assessed so as to implement the traffic rules properly.

Keywords: Assess the knowledge, awareness, seat belt and helmet

Introduction

Road Safety is the prime importance as road accidents are among the biggest cause of deaths in the country like India. It's a significant burden on the health care system. The new Motor Vehicle Act 2019 implemented in the month of September. These amendments were targeted mainly, towards bringing changes in the transport sector to encourage safer driving practices among Indian motor vehicle drivers. The summary of the proposed bill included increase in penalties for serious traffic offences like not wearing seatbelts and helmets.

I undertook this study to assess the knowledge, awareness and practice of road traffic safety rules among the people.

Materials and Methods

Source of Data: Moodbidri municipality area

Inclusion Criteria: Group 1: People visiting to moodbidri having driving license with four-wheeler vehicles registration number KA19, KA20, KA21, KA70

Group 2: People visiting to moodbidri having driving license with two-wheeler vehicles registration number KA19, KA20, KA21, KA70

Exclusion Criteria: People visiting to moodbidri having driving license with vehicles registration number other than KA19, KA20, KA21, KA70.

Corresponding Author:
Dr. Deeksha M
1-91 G3 Jai Guruji Malpe 2nd
Cross Road, Subramanya
Nagar Santhekatte Post,
Udupi, Karnataka, India

Method of collection

Collecting data related to the awareness about wearing seatbelt and helmet while driving and riding the vehicle from the public. By providing questionnaires related to the road traffic safety measures and collecting all the answer and inference will be drawn from the collected data.

- **Sample Size:** Maximum number of people
- **Sample Technique:** Purposive Sampling

Study Design

- Two separate questionnaires were prepared to assess the awareness of wearing seatbelt and helmet while riding the vehicle.
- Information collected from both two wheeler vehicle and four wheeler vehicle riders among the Moodbidre town
- Awareness regarding the road signs and the importance of road safety will be provided.
- Collected data will be evaluated for each of the questions.
- The result obtained will be statistically analyzed.
- Inference will be draw from the data obtained

Result and Discussion

Survey regarding awareness of wearing helmet while riding two-wheeler vehicle among the riders of two-wheeler vehicle who are visiting moodbidri municipality information collected from 492 candidates for the study.

1. Should you wear helmet while driving two wheeler vehicles?

- A) YES I wear - 163 candidates
- B) NO not wearing - 68 candidate
- C) Wear, only after seeing traffic police – 123 candidate
- Wearing only sometimes – 138 candidate

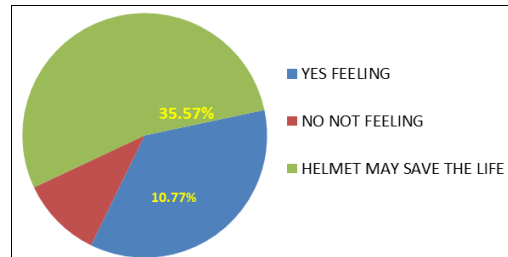


Fig 2: Total number of candidates

53.65% of candidates feel Helmet may save their life in road traffic accident, 10.77% are not feel Helmet will not have any role in saving once life in any accident 35.57% candidates are feels Helmet will save their life and they are using the Helmet while travelling.

Whether both rider and pillion rider are using helmets while travelling in two-wheeler vehicle?

- a. Both will wear-158 candidates
- b. Not only rider will wear- 334 candidates

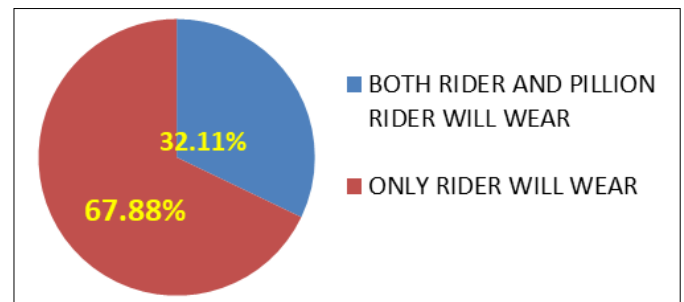


Fig 3: Total number of candidates

While riding two wheeler around 32.11% of people in 492 candidates both rider and pillion rider will wear helmet but 67.88% of candidates are saying only rider will wear helmet.

What is the benefit of wearing helmet while riding the two wheeler vehicle?

- a. Helmet act as a additional layer for the head- 79 candidates
- b. Reduce the impact of force or collision to the head during bike accident- 109 candidates
- c. To prevent open or closed head injury – 61 candidates
- D) All the above – 243 candidates

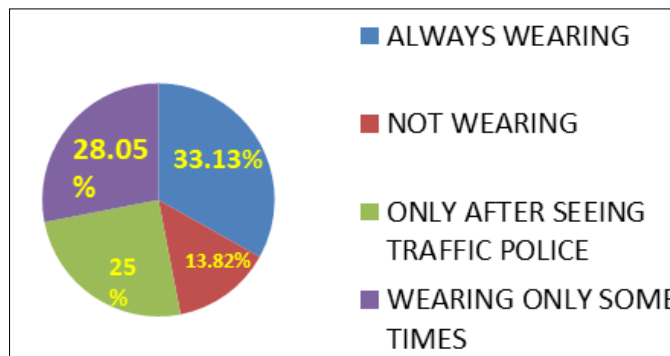


Fig 1: Total Number of Candidates

Information collected from 492 candidates in that around 33.13% are always used to wear helmet, 28.05% are wearing only some times , 25% candidates are wearing only after seeing traffic police and 13.82% are not wearing helmet.

2. Do you think Helmet can save ones during road traffic accidents?

- A) Yes I feel -175 Candidates
- B) No not feeling – 53 Candidates
- C) Helmet may save the life –264 candidates

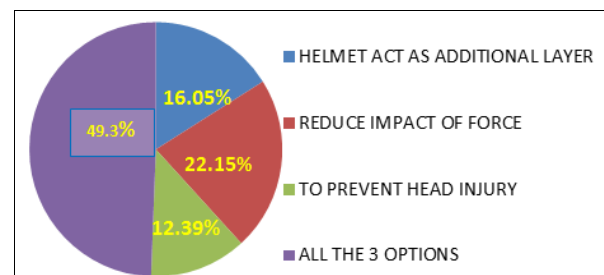


Fig 4: Total number of candidates

According to the survey all candidates are knowing that helmet is a Primary protective device while riding two-wheeler vehicle, giving their opinion by saying different uses of helmet.

Till now whether you paid penalty for not using helmet?

Yes paid- 371 candidates

Not paid- 121 candidates

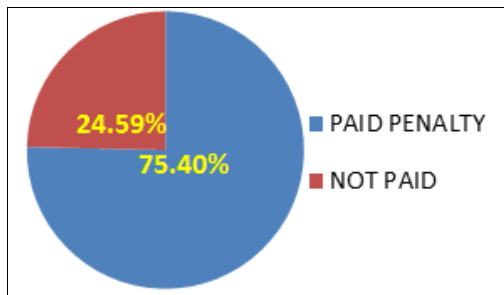


Fig 5: Total number of candidates

- Around 371 candidates are paid penalty for not following rules of wearing helmet while riding the vehicle in 492 candidates.
- Penalty amount is around 500/- paid by 39.22% of the candidates
- Around 18.49% are paid 1000/- as their penalty for not wearing helmet
- 14.83% of candidates are paid more than 1000/- rupees as a Penalty fee
- Survey regarding awareness of wearing seatbelt while driving car among the drivers of four-wheeler vehicle who are visiting moodbidri municipality information collected from 464 candidates
- According to the survey among 464 candidates all are having opinion of seatbelt will protect the passengers from road traffic accident one or other way but still some are not practicing.

Conclusion

Main aim of the study is to Assess the Knowledge of Road Signs and Road Markings among the drivers of private vehicle who are visiting Moodbidri Municipality. To assess the knowledge of traffic rules among the adult population and to assess whether the peoples are practicing the road signs and road markings.

By this study it was assessed that people are aware of most of road signs and road markings and their importance in preventing RTA but at the same time it was even noted that most of the people have paid fine for not following the road signs and road markings. From this it can be inferred that though people are aware about the road signs and road markings it has not been practiced properly.

Based on this further study can be made and reason for this can be assessed so as to implement the traffic rules properly. There must be Improvement of Hospital Set up and Arrangement of proper Emergency care unit in the hospital for the patient who are coming to hospital after RTA. Surgery and Medicine Department of the Medical Health Centers have to be improved to provide emergency-health care with all the equipment's and all the setup for any procedure

It has been observed that, even though people are aware of road signs, they do not follow them properly. Hence, paying penalty along with one day awareness programme should be considered as the punishment. This shall help in prevention of unnecessary violating of rules as well as not committing the same mistakes further.

Conflict of Interest

Not available

Financial Support

Not available

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