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## Different Types Of Helmets

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### ABSTRACT :

In the light of the increasing importance of the use of helmets in minimizing accidental deaths, its important to understand the varieties and problems in using helmets. To understand this I conducted a survey and drew conclusions and some recommendations to improve the safety levels, comfortable levels, and designs.

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### Introduction:

A motorcycle helmet is a type of helmet used by motorcycle riders. Motorcycle helmets contribute to motorcycle safety by protecting the rider's head in the event of an impact. They reduce the risk of head injury by 69% and the risk of death by 42%. Their use is required by law in many countries. The United Nation Sustainable Development Goals (SDG) outline the target to halve the number of global road traffic deaths and injuries by 2020 (about 1.25 million road traffic deaths were recorded in 2013). However, a recent World Health Organization (WHO) report on global road safety shows that in sharp contrast to the SDG targets, annual traffic fatalities have reached and stagnated at 1.35 million. A 2008 systematic study showed that helmets reduce the risk of head injury by around 69% and the risk of death by around 42%. Although it was once speculated that wearing a motorcycle helmet increased neck and spinal injuries in a crash, recent evidence has shown the opposite to be the case: helmets protect against cervical spine injury. A study that is often cited when advancing the argument that helmets might increase the incidence of neck and spinal injuries dates back to the mid-1980s and "used flawed statistical reasoning" Wearing a helmet helps to reduce the impact of an accident on your head. While riding your two-wheeler, it is very likely that if you are involved in an accident, then the resulting head injuries can be fatal, if you are not wearing a helmet. If you face a collision without wearing a helmet, it might cause external as well as internal brain injuries, which can cost your life. Thus, you should wear helmets to protect your life. Helmet test standards provide a minimum requirement with regard to helmet performance, it also incentivize continuous improvement of helmet safety designs. In India we do not take safety seriously." Not wearing helmets resulted in deaths of 44,666 (30,148 drivers and 14,518 pillion) or 29.82% of total road accident fatalities during 2019, according to the ministry data. In this experiment I will analyze how people are feeling and what are there priorities while choosing a helmet. In today's market we have multiple brands and multiple designs like :

1. Vega
2. Steel bird
3. Studds
4. Sage square
5. Dads Getz
6. Viber
7. Aeroh Urban Glossy

**Objective 1:** To study about the dimensions of different Helmets.

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### Methodology :

To understand the problems and varieties of helmets in the market. I randomly chose 5 different people (3 females and 2 males) who use helmets on a frequent basis to understand. I constructed a well-prepared questionnaire to ask all my inquiries and doubts. In my questionnaire, I included questions asking them about how frequently they use to check their comfortability level, what varieties they use to understand the trend, and the companies available in the market.

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### Work done:

I talked with the selected people and enquired about all my doubts regarding this and later took photos and videos while they are driving. I checked

their present using helmets with all other helmets available on the market and drew conclusions about the problems faced by them and myself gave some recommendations on how we can solve these problems. I explained to them the importance of wearing helmets while driving.

## Results :

### Questionnaire:

1.Name : **Geetha**

2.Age :**23**

3.Sex :**Female**

4.Height :**5.3**

5.Weight :**65**

6. Do you wear a helmet.

a. Yes b. No. (**Yes**)

7.Which helmet brand are you using :**Vega**

8.years of use

a. 2 years b.1 year c.more than 2 years (**2 years**)

9.Does your helmet have the ISI logo

a. Yes b.No (**Yes**)

10.Do your helmet is comfortable.

a. Yes b. No(**Yes**)

11. Does a helmet make you feel safer.

a.yes b. No(**yes**)

12. Do you know the right size of your helmet.

a. Yes b.No(**No**)

13.How often would you wear helmet .

a. Sometimes b. Rarely c.often d.never(**Rarely**)

15.Which size of helmet is comfortable do you think .

a. S b. M c. L d. XL(**S**)

16.Do you wear a helmet while sitting on the backseat of a 2 wheeler.

a. 100% b. 75% c.50% d.<50%(**<50%**)

17.What is the reason for not wearing helmet if you use it less than 50% of the time.

a. Cost b. Discomfort c. Appearance d. Other(**discomfort**)

18.Do you securely tie chin straps of the helmet?

a. 100% b. 75% c. 50% d. <50%(**50%**)

19.How long do you wear helmet and drive.

a. 10 minutes b.10-20minutes c. 20-30 minutes d. Over 30 minutes(**20-30min**)

Question	strongly disagree		neutral	strongly agree		opinion
	1	2		4	5	
Helmet feature is important	1	2	3	4	5	4
Motorcyclist prefer branded helmet	1	2	3	4	5	3
Price is not a concern	1	2	3	4	5	3
Motorcyclist prefer design over quality	1	2	3	4	5	2

Motorcyclist willing to pay more comfortable helmet	1	2	3	4	5	3
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Question	frequently	less	none
How frequently you using a helmet?		Less	
How often you buy a new helmet ?		Less	

After studying 5 different members with their helmets using the experience I received the following results: 60% of people were happy with the safety levels and helmet models available in the market. After driving for one hour with the helmet, people are feeling very sweaty and uncomfortable 60% of people are facing this problem. The price of helmets is not very high and 80% of the people are ready to buy helmets and use them without any complaints. People are not wearing helmets regularly and very often people sitting back seat are wearing their helmets.

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### Recommendations:

1. Update models with the latest trend it attracts youth towards the habit of wearing helmets.
2. Authorities should not compromise on the standards of safety levels.
3. Government must make helmet wearing mandatory.
4. Concerned departments combined with NGOs should conduct awareness programs about the safety measures.
5. Encourage youth with incentives to bring the latest inventions regarding helmets.
6. Common standards should be encouraged regarding measurements of the helmet.

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### Conclusion:

People are not actively and self-interested in wearing helmets they are wearing helmets only for the sake of avoiding traffic fines this trend should be stopped and citizens should actively participate and wear helmets for their own safety. Instead of focusing on styles they should prioritize their life and understand that life is more important than any style. Authorities should conduct a large number of awareness programs to make people understand the role of helmets in decreasing the death rate during accidents. People should stop blaming authorities and the government all the time and actively participate in this program without the citizen's contribution any effort by the government will go in vain. Only with the contribution of people, we can make this happen.

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### References:

1. [https://unctad.org/system/files/official-document/dtltlb2017d4\\_en.pdf](https://unctad.org/system/files/official-document/dtltlb2017d4_en.pdf)
2. [https://www.cochrane.org/CD004333/INJ\\_helmets-are-shown-to-reduce-motorcyclist-head-injury-and-death](https://www.cochrane.org/CD004333/INJ_helmets-are-shown-to-reduce-motorcyclist-head-injury-and-death)
3. [https://morth.nic.in/sites/default/files/RA\\_Uploadimg.pdf](https://morth.nic.in/sites/default/files/RA_Uploadimg.pdf)
4. <https://www.uaoa.in/types-of-bike-helmets-in-india/>
5. <https://www.scribd.com/document/408187720/Market-Survey-on-Wearing-Helmets>
6. <https://helmets.org/quick.htm>
7. <https://aip.scitation.org/doi/10.1063/5.0034305>
8. <https://timesofindia.indiatimes.com/city/mumbai/awareness-boosts-helmet-use-among-kids-from-28-to-95/articleshow/90854662.cms>