The role of clothing in accidental deaths - an ignored problem in developing countries

Abstract

The brain is a very sensitive organ of the body and consequently susceptible to trauma as in cases of road accidents. The authors present a unique case where a woman travelling as a pillion rider on a motorcycle succumbed to cerebral injury. The incident occurred when one end of her long scarf or dupatta got entrapped in the rear wheel of the vehicle and she fell on the road and sustained injuries. This article illustrates the seriousness of wearing loose clothing while riding two wheelers and endangering of lives. In addition, the authors suggest suitable remedial measures to address the ignored aspects of road safety and their importance in preventing morbidity and mortality in developing countries.

Keywords: clothing, injury, accident, scarf, dupatta

Introduction

Every year, thousands of people lose their lives due to road accidents. The shocking state of road safety is a cause of concern as it not only devastates the family of the deceased, but also puts enormous financial burden on the national resources. The road accident deaths put a burden of more than US $518 on the international economy. India reports one accident every minute and one death every four minutes due to road accidents. Most of these accidents occur as a result of collision between vehicles or structures present on the side of roads. However, some cases have also been reported where the accidents take place due to entrapment of loose clothing in wheels of the vehicle and consequent fall on roads. The authors present an uncommon case from this part of India where a female lost life due to her negligence.

Case report

A 45 years old lady was travelling as a pillion rider on motorcycle. Suddenly her dupatta got entangled in the spokes of the rear tyre of the motorcycle and she fell on the road and sustained serious injuries (Figure 1). She was rushed to a local hospital from where she was referred to this institute as it is one of the leading tertiary care hospitals in this region of India. However, in spite of the all the efforts of the doctors and hospital staff, she could not be saved and succumbed to her injuries two day after the incident and the post mortem conducted at 14hours after death.

Autopsy findings

The Indian law require medicolegal postmortem in each and every case of unnatural death and hence dead body was shifted to the mortuary of the institute. On the external examination, the length of the dead body was 151cms and weight 59kgs. The rigor mortis was present all over the body. Postmortem staining was present on the back of body except pressure areas and was fixed. A reddish brown abrasion of 10cmsx1cm was present obliquely over the front of neck, 1.5cm below the thyroid cartilage and moved obliquely backwards and upwards in the direction of the right lateral side of neck and ended 4cm below the right pinna (Figure 2).

Figure 1 The motorcycle and the entangled dupatta in the rear tyre.

I. On dissection of the neck, however no significant findings were observed. No intimal tears were present on the carotid artery.

II. A lacerated wound of 8cmsx2.3cms was present obliquely on the occipital region of the head at the level of occipital protuberance. Clotted blood was present.

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III. Multiple bluish contusions of varying sizes and shapes were present on the front of chest and both breasts.

IV. A bluish contusion of 4cms x 3cms was present on the anterolateral aspect of left thigh, 8cm below the right anterior superior iliac spine.

V. A bluish contusion of 3cm x 4cm was present on the front of left knee.

VI. A bluish contusion of 3cm x 2cm was present on the front of right knee.

**Discussion**

The dupatta is a long scarf and is worn over the head by women. It is a loose piece of cloth of about 2 to 2.5mts and forms a part of traditional attire in India. The loose clothing has a greater chance to get entangled and become a means of injuries. The association of such loose clothing in sustaining injuries has been documented in literature.1–6 In addition, the absence of safety gears is also known to increase the incidence of severe injuries. This issue is of particular significance to Indian women as it is not mandatory for them to wear helmets in many parts of the country. Consequently, the safety issues largely remain unaddressed. In the past, women members of a particular community in North India protested against making the wearing of helmet compulsory as they tie their hair over the head and cannot thus wear helmets. As religious freedom is a big issue in India, women were ‘spared’ of the compulsion of wearing helmets. But many studies have suggested that the absence of helmets is likely to increase the morbidity and mortality from head injuries.7,8 In most of these cases, head injury remains the leading cause of death in two wheeler accidents.9 The authors believe and advice that those who do not tie hair over the head should be encouraged to wear helmets and all road safety laws should be strictly enforced. The enforcement of laws has not been up to the mark in India.10 In the present case, injuries were sustained as the dupatta of the victim got entangled in the spokes of rear tyre of the motorcycle and she fell on the road and lost her life due to consequent head injury. Such injuries and deaths can be prevented by avoiding loose clothing while driving. Additionally, a ‘cover’ or ‘guard’ over the spokes of the wheel can be provided to prevent such mishaps.

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**Conflicts of interest**

The author declares that there are no conflicts of interest.

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