SAFETY OF THE REAR SEAT PASSENGER: THE IMPORTANCE OF A NEW LEGISLATION

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ABSTRACT

The enforcement of law for the front seat occupants to wear seat belts and timely deployment of air bags during crashes has unquestionably reduced front seat occupant morbidity and fatality. However, law does not impose any regulation for the rear seat passengers to wear seat belts in Sri Lanka. As a result an increased incidence of rear seat passenger fatality in high speed crashes is observed in forensic practice. This communication presents four unrestrained rear seat passenger fatalities, in two similar crashes. Imposing of regulations in Sri Lanka to wear seatbelts for rear passengers is strongly recommended as it minimizes fatalities/injuries, not only in rear seat passengers but in all the occupants of a vehicle.

Case 1

Four vehicle occupants returning home to Kandy from Kegalle, past mid-night were admitted to the hospital following a collision of their modern car with a water bowser from behind at Peradeniya. The driver, on examination had some chest pain on deep breathing and was discharged the same day. He had no memory of the accident and claimed that he was aware about the timely deployment of air bags. The front seat passenger was discharged the following day with only some discomfort in his chest. Both of them showed negative results for the drunkenness.

Both rear seat occupants were dead on admission, one with a large scalp laceration and a hinge fracture of the skull and the other with a flail chest and cardiopulmonary contusion detected at autopsy. None of the deceased persons had blood alcohol.

Key words: Rear seat passenger, road safety

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The examination of the scene revealed no tire marks to suggest any breaking. Gross damage on car’s front crumple zone (Figure 1) suggested a high speed when it was collided the water bowser.

**DISCUSSION**

When struck against another, the motion of vehicles and occupants are left to the laws of physics of momentum and inertia. In both case scenarios the rear seat passengers who were unrestrained, possibly hurled inside the vehicles dashing against seats, tempered glass and hard/sharp objects carried inside passenger compartment. In a research done in Japan, the unbelted rear seat dummies were thrown around inside the passenger compartment, making contact at several locations such as thrown over the front seat, making contact with the front seat, roof and instrument panel3. This study demonstrated that a rear seatbelt is useful for preventing hard contact with the vehicle interior3. Restrained rear seat passenger does not only prevent serious injuries/fatalities against him/her but, those against front seat passenger/driver too2.

Wearing of rear seat belts has been made compulsory by law in Australia, Czech Republic, Finland, France, Germany and many other countries4 thought it has not been made compulsory in India, Indonesia, and Philippines including Sri Lanka4. The availability of highways, modern fast cars with up-to date safety features could not counter the negligence of not wearing the readily available rear passenger seat belt. The situation worsens when it is associated with fatigue of long distance travel that falters driver reflexes and even causing the driver to fall asleep as it appears clearly to be the case in 1st case scenario described above.

**CONCLUSION**

Imposing of regulations in Sri Lanka to wear seatbelts for rear passengers is strongly recommended as it minimizes fatalities/injuries, not only in rear seat passengers but in all the occupants of a vehicle.
REFERENCES


