



# Ten Years Retrospective Study and Analysis of Road Traffic Accident Victims

**Dr. K.G.JulianaJeyanthi**

M.D. Professor, Dept. of Forensic Medicine, Madurai Medical College, Madurai – 625020 Tamil Nadu, India

**ABSTRACT**

This ten years retrospective study and analysis of examination of victims of road traffic, has thrown in some light on this day to day occurring event. The analysis of findings of these victims (from 2006 to 2010), has enlightened us about the sex which is being mostly affected, the mostly affected age group, the time at which maximum number of accidents occur, the types of injuries inflicted upon the victims, The types of bodily injuries varied. Most of the victims were men..There were also very few kids and very old people in this group. But none were with either mental retardation or mental illness. This is a ten years retrospective study of road traffic accident victims from the year 2006 to 2015 in Govt. Theni Medical college ,Theni. Theni district includes areas from Kerala border in the west such as Kumuli,Bodi,Uthamapalayam,Cumbum, chinnamanoor,varusanadu,KadamalaikunduKandamanoor,Allinagaram,PCpatti, Periyakulam,Devathanapatti,andAndipatti. Cases came from all these areas come to our Institution.

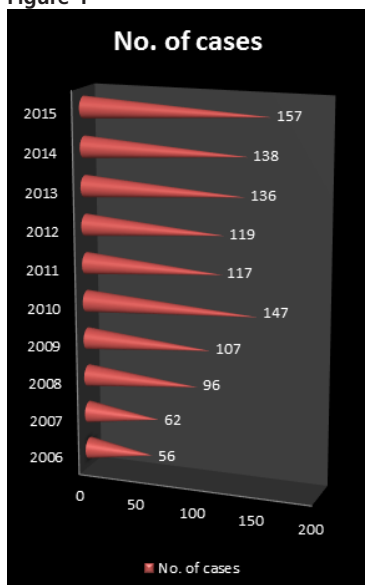
**KEYWORDS**

victims of road traffic accidents, most affected age group,sex,the time at which maximum number of accidents occur

The details of number of road traffic acciacident victims that came to our our Institution for postmortem is:- Table-1

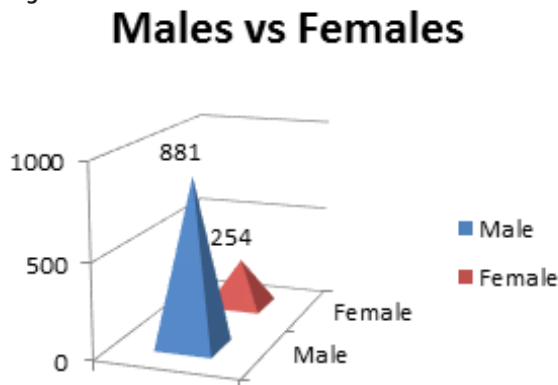
year	Male	Female	Total
2006	44	12	56
2007	35	27	62
2008	75	21	96
2009	76	31	107
2010	106	41	147
2011	91	26	117
2012	96	23	119
2013	107	29	136
2014	117	21	138
2015	134	23	157
Total	881	254	1135

Figure-1



In ten years (2006 to 2015) the number of road traffic accident cases has increased three times. It was 56 in the year 2006. But it is 157 in the year 2015. And if we keenly observe, there is no marked increase in the female cases. On the other hand, the number of male cases has increased tremendously to three fold. The number of male cases in 2006 was 44. But in 2015 it is 134.

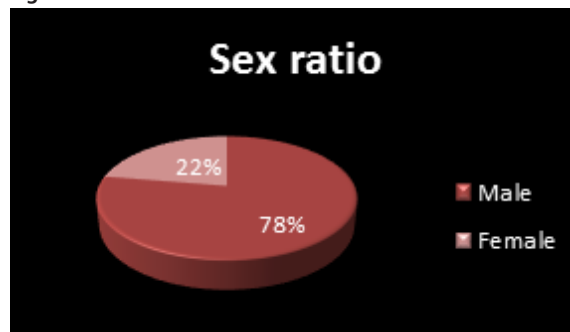
Figure-2



Males were more affected than females. They were affected three and a half times more than the females.

Male : Female ratio is-- 3.54 : 1.0

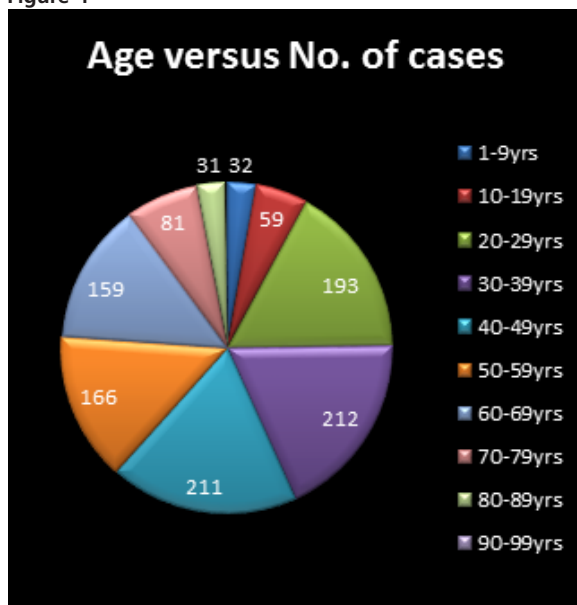
Figure-3



**Table-2**

Age in yrs.	No.
0-9	32
10-19	59
20-29	193
30-39	212
40-49	211
50-59	166
60-69	159
70-79	81
80-89	31
90-99	3

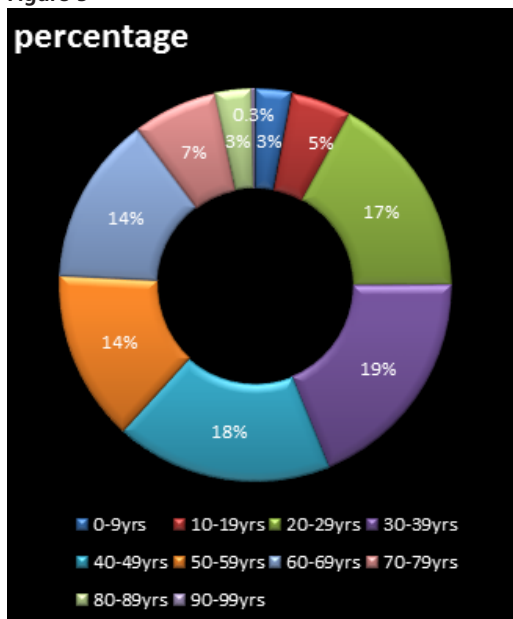
**Figure-4**



The age group that is the least affected is the tenth and eleventh decade (90yrs. – 99yrs.).

The mostly affected age is the fourth and fifth decade age group( 30yrs.-39yrs. and 40yrs,-49yrs.).

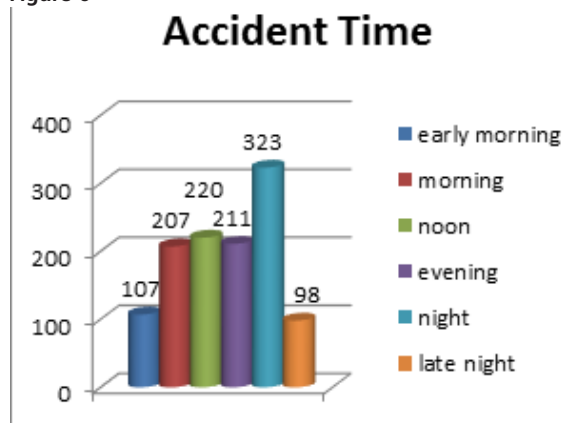
**Figure-5**



**Table-3**

Time		No. of cases
12.00AM-6.00AM	Early Morning	107
06.00AM-11.00AM	Morning	207
11.00AM-03.00PM	Noon	220
03.00PM-06.00PM	Evening	211
06.00PM-10.00PM	Night	323
10.00PM-12.00PM	Late Night	98

**Figure-6**



The maximum number of accidents occur in the night between 06.00pm and 10.00pm.

The minimum number of accidents is seen in the late night between 10.00pm and 12.00pm.

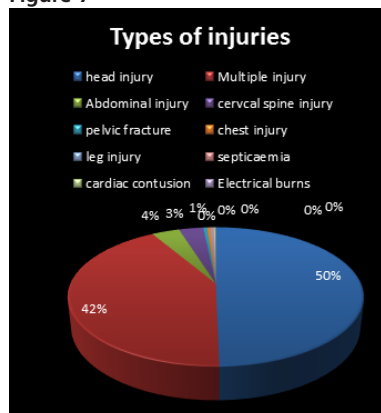
Almost equal number of accidents were encountered during morning, noon and evening.

Males were more affected than females.They were affected 3.5 times more than the females.

**Table-4**

Type of injury	No. of cases
Head injury	575
Multiple injuries	484
Abdominal injury	42
Cervical spine injury	37
Pelvic fracture	06
Chest injury	05
Septicaemia	02
Cardiac contusion	02
Electrical burns	01

**Figure-7**



The cause of death in 50% of cases is head injury. 42% of death is due to shock and haemorrhage due to multiple injuries.

### Inference

1. In ten years (2006 to 2015) the number of road traffic accident cases has increased three times.
2. It was 56 in the year 2006. But it is 157 in the year 2015.
3. There is no marked increase in the female cases.
4. The number of male cases has increased tremendously to three fold.
5. Males were more affected than females.
6. They were affected three and a half times more than the females.
7. Male : Female ratio is-- 3.54 : 1.0
8. The age group that is the least affected is the tenth and eleventh decade (90yrs. – 99yrs.).
9. The mostly affected age is the fourth and fifth decade age group (30yrs.-39yrs. and 40yrs.-49yrs.).
10. The maximum number of accidents occur in the night between 06.00pm and 10.00pm.
11. The minimum number of accidents is seen in the late night between 10.00pm and 12.00pm.
12. Almost equal number of accidents were encountered during morning, noon and evening.
13. The cause of death in 50% of cases is head injury.
14. 42% of death is due to shock and haemorrhage due to multiple injuries.

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