

REFERENCES

1. WHO, 2009, Regional report on Status of road safety: South-East Asia Region
2. WHO, 2013, Global status report on road safety: Supporting a decade of action
3. AUSTROADS, 1994, Road Safety Audit, Sydney
4. Treat JR 1979, Tri level study of the causes of traffic accidents. Research report compiled by the Institute for Research in Public Safety to the US Department of Transport, Washington DC.
5. Hendricks DL, Fell JC, Freedman M (1999), The relative frequency of unsafe driving acts in serious traffic crashes, National Highway Traffic Safety Administration, US Department of Transport Summary Technical Report.
6. Mosedale J, Purdy A, Clarkson E (2003), Transport Statistics: Road safety, Department for Transport, Great Britain.
7. Jacobs GD (1995), Road accident data collection and analysis in developing countries, (TRRL Laboratory Report 676, Crawthorn Transport and Road Research Laboratory).
8. Odero W, Garner P, Zwi A (1997), Road traffic injuries in developing countries: a comprehensive review of epidemiological studies. Trop. Med. Int. Health. 2:445-460.
9. Van K, Donald J (2001), Vehicular accident investigation and reconstruction, CRC Press LLC, Boca Roton, FL.
10. Hamilton K, Kennedy J (2005), Rural road safety: A literature review, research findings No.203/2005, TRL Limited.



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Appendix A

Table A1: Detail list of contributing factors associated with the principle factors

Principle Factor	Contributory Factor
Human	Impairment – alcohol
	Impairment – drugs
	Impairment – fatigue
	Impairment – illness
	Distraction – stress/emotional state of mind
	Distraction – physical – in/on vehicle
	Distraction – physical – outside vehicle
	Behaviour – panic
	Behaviour – careless/thoughtless/reckless
	Behaviour – nervous/uncertain
	Behaviour – in a hurry
	Failed to judge other person's path or speed
	Disability
	Failed to look
	Looked but did not see
	Inattention
	Person hit wore dark or inconspicuous clothing
	Personal details – other
	Crossed from behind parked vehicle
	Ignored lights at crossing
	Excessive speed
	Following too close
	Inexperience of driving
	Inexperience of vehicle
	Interaction/competent with other road users
	Aggressive driving
	Lack of judgment of own path
Vehicle	Tyres – wrong pressure
	Tyres – deflation before impact
	Tyres – worn/insufficient tread
	Defective lights or signals
	Defective brakes
	Vehicle defects – other

Road & Environment	Site details – poor road surface
	Site details – poor/no street lighting
	Site details – inadequate signing
	Site details – steep hill
	Site details – narrow road
	Site details – bend/winding road
	Site details – road works
	Slippery road
	Local conditions other
	View - glare from sun
	View – glare from headlights
	Surroundings – bend/winding road
	Surroundings – stationery or parked vehicle
	Surroundings – moving vehicle
	Surroundings – buildings, fences, vegetation
	Weather
	Failed to see pedestrian or vehicle in blind spot
	Animal out of control



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Appendix B

Table B1: Relationships between human, vehicle and road/environment factors with accident type

Accident Type	Principle Contribution Factor			Statically Significant Relationships
	Human	Road/Environment	Vehicle	
Head/Rear end	75	5	20	Negligence, close following, speeding, steep gradient, road works, faulty brakes
Sideswipe: same direction	75	20	5	Negligence, dangerous overtaking, sight distance, faulty indicators
Pedestrian	75	25	0	Driving on shoulder, pedestrian visibility, speed, alcohol, pedestrian facilities
Fixed object	80	15	5	Negligence, losing control, speed, alcohol, fatigue, road signs, brakes
Overtaken	70	10	25	Lost control, speed, alcohol, fatigue, sight distance, burst tyres
Sideswipe: opposite direction	90	10	0	Dangerous overtaking, speed, sight distance
Vehicle left road	70	5	25	Lost control, inattention, speed, fatigue, curves, pedestrians, burst tyres
At angle: both straight	90	5	5	Negligence, failed to stop, intersections and control, faulty brakes, access spacing, brakes
Hit animal	10	90	0	Speed, fencing, lighting
Turn right in face of oncoming traffic	95	0	5	Negligence, turning in front of traffic, no use of indicators

Head on	95	5	0	Dangerous overtaking, speed, sight distance, road marking, inattention, inconsiderate driving
Turn from wrong lane	95	5	0	Inattention, no use of indicators, road markings and signs
Reversing	90	5	5	Inattention, illegal movement, faulty brakes
At angle: one or both turning	95	5	0	Inattention, road signs



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