



Dr. M. C. Misra

AIIMS, India



Trauma: An Epidemic of the 21st Century Emergency Services for Improving Road Safety

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November 8, 2011

Greetings from AIIMS, New Delhi



All India Institute of Medical Sciences, New Delhi

An outing that turned into Sunday gloom

FATAL IAF personnel were on way to Akshardham when a sedan rammed their van

T Correspondent
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NEW DELHI: For three Indian Air force (IAF) personnel, a Sunday morning leisure trip to the capital's tourist spots turned out to be their last.

The accident took place when the air force officers were heading to Akshardham Temple after spending a bright Sunday morning at the Rashtrapati Bhavan lawns.

A Skoda car, driven by one Nishant Kumar (26), approaching the area from Janpath, rangled into their Maruti van at the Rajpath-Janpath crossing.

"We were going to Akshardham Temple from Rajpath when a Skoda car, driven at high speed, crashed into our vehicle at the red light," said Ajay Yadav, a non-commissioned officer of the Indian Air Force, who fractured his left arm in the accident.

Three other air force personnel — Lakhan Das, who was driving the van, Manish Chauhan and SK Chakravarty — died because of severe head injuries.

The police are investigating whether the Skoda driver bumped the traffic signal.

"It is possible that the traffic light was blinking at the time of the accident and the Skoda driver did not slow down. We are looking into all the angles and have arrested Nishant Kumar, the Skoda driver," said a senior police officer.

The Skoda car is owned by SL Ganpati, a resident of Kalkaji, Kumar, a resident of Pul

HOW IT UNFOLDED



Prghladpur near Badarpur; had been working as his driver for the past four years, the police said. The injured — identified as Chakravarty's wife Meenakshi (45), SS Vaishakh (24), Shaileendra (23) and Ajay Yadav (22) — are undergoing treatment at the Ram Manohar Lohia hospital.

2 KIDS DEAD, 3 HURT IN OTHER MISHAPS

Meanwhile, two children were killed and three of hers suffered injuries in two other accidents on manic Sunday.

Gautam Joshi (11) was travelling with his father Govardhan Joshi, when a car hit their bike

at Sardar Patel Marg.

"Around 7pm, a family of four was going to Connaught Place on a motorcycle, when a car rammed them from behind. They were rushed to RML hospital, where the boy was declared brought dead," a senior police officer said.

"Govardhan works in the audit department of the Indian Army," he added.

In another accident, Roopa (12) was crushed to death by an unidentified vehicle in Khajoori Khas area of northeast Delhi on Sunday morning.

In this regard, a case has been registered at the Khajoori Khas police station.



The mangled remains of the Maruti van in which the air force personnel were travelling on Sunday. ARVIND YADAV/HT PHOTO

Family learnt of van driver's demise from TV



The distraught wife and daughter of Lakhan Das, the driver of the ill-fated Maruti van carrying air force personnel. RAJ K RAJ/HT PHOTO

Rajat Arora
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NEW DELHI: On Sunday, Lakhan Das, 38, got up early. He was to take his colleagues at the Dhansa air force station for sightseeing. Das left home at 7am in a Maruti van.

Less than two hours later, at 9.45am, the father of two met with an accident in the same van.

Das was severely injured after a speeding car rammed into his vehicle near India Gate. He later died at the Ram Manohar Lohia hospital.

His wife learnt of the accident when she saw the mangled van on TV.

Said Naveen Thakur, a neighbour of the Das family, "I first saw the news flashing on TV. I rushed to his house to tell his wife that Das has met with an accident and is badly injured. His wife also saw it on TV before leaving for the hospital."

The family reached the hospital at 2pm, praying that Das, a grade four employee of the

(His wife saw (the news about the accident) on TV before leaving for hospital.)
 NAVEEN THAKUR
 victim's neighbour

Indian Air Force (IAF), would only be injured.

Little did they know that he had succumbed to injuries before they could meet him for the last time.

"I don't know how my father is. No one is telling us anything. I hope he's alright," said the IAF personnel's daughter.

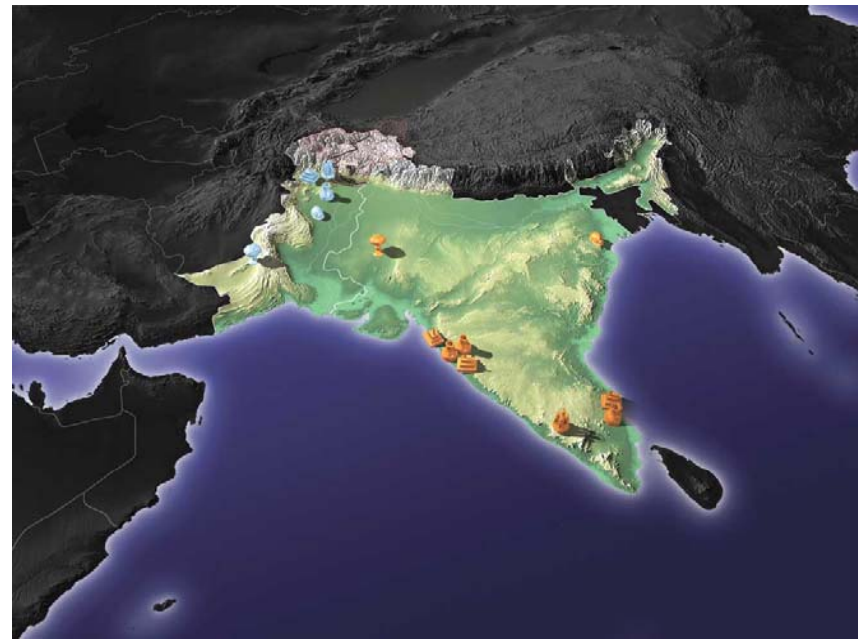
"We are not able to muster up the courage to tell his wife and daughter that he's dead. His daughter, Pooja, is in 10th standard and his son studies in 9th standard. We don't know how they are going to bear this pain," added Thakur.

The family was finally told about Das' demise in the evening.

"He died of severe head injuries," said a senior doctor, requesting anonymity.

India at a Glance

- *India's total landmass* is 32,87263 square kilometers; 2.4% Total Surface Area of the World
- 7th Largest, Russia, Canada, China, USA, Brazil, Australia
- Population - > 1.2 Billion
- 28 States & 7 UT
- 3% GDP
- Increased modernization of automobiles and highways
- Multiplicity of road users









Terrorism and Bomb Blasts





Tremendous human tragedy



**Loss of Lives, Limbs
Permanent Disability**



Injury

3rd commonest cause of
death in all ages

Cost 3% GDP

Injury: Magnitude of the problem

- Deaths from injury in 1990 - 5.1m
- Projected to rise in 2020 - 8.4m
- Deaths from road traffic injuries - 2.2%
- Global deaths & disability - 2.8%
- Road traffic injuries
in developing countries - 88%(1m)
- Fatalities world wide (15-44) - 50%

Injury/Accident – epidemic of 21st Century

HINDUSTAN TIMES, NEW DELHI
MONDAY, DECEMBER 14, 2009

Auto, Audi collide, 2

WRONG SIDE STORY Police say the auto was not driving in its designated lane



■ **Aftermath:** The smashed-up Audi car and the virtually dismantled auto involved in Sunday's accident.

HT Correspondent
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NEW DELHI: Two sisters travelling in an autorickshaw suffered injuries when it collided with an Audi A6 car in South Delhi in the wee hours of Sunday.

The police said that the accident was caused as the autorickshaw driver was on the wrong side of the road.

According to police, the incident happened in Chirag Delhi around 2:45 am. The police said that the sisters Meera Arora (47) and Vimla Arora (50) were on their way home from a religious function in Greater Kailash-II.

Both the driver of the car Apurva (27) who only goes by his first name and Kishore Kumar (32) the auto driver were arrested and later released on bail.

Police said that medical examination revealed that none of the accused was driving under the influence of alcohol.

"The autorickshaw driver who was on his way to Trinagar

was driving on the wrong side of the road. Apurva was going back home from a friend's place in Vasant Vihar. Near the Savitri Nagar flyover the autorickshaw collided with the Audi which was at high speed," said a senior police officer on the condition of anonymity, as he is not authorized to speak to the media.

The autorickshaw driver and the women were rushed to AIIMS Trauma Center where their condition is reported to be stable.

Police said that the women in their statement also stated that the driver of the autorickshaw was at fault.

"We were going back home to Trinagar from GK-II after attending a *satsang* (a religious gathering). We had hired the autorickshaw from Trinagar and asked him to wait till the *satsang* ended," said Meera.

Police added that Apurva has done his engineering and MBA and is presently working with

TWO YOUNG MEN KILLED IN ACCIDENT

HT Correspondent
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NEW DELHI: Two motorcyclists reportedly driving under the influence of liquor were killed when their motorcycle hit a roundabout on Mandir Marg in New Delhi district on Sunday morning, said police.

The deceased have been identified as Ram Avtar (24) and Sunny (21), both residents of Tilak Nagar in West Delhi.

Police said the accident took place at around 5 am on Shankar Road near Talkatora Stadium, when the victims were heading towards Bangla Sahib Gurudwara for morning prayers.

The police said four of the victims' friends, were following the motorcycle in a Wagon R car.

"Sunny was riding the motorcycle and Ram Avtar was riding pillion. While taking a turn on the roundabout, Sunny lost control over the vehicle. They were not wearing helmets," said a senior police officer.

"They first hit the roundabout and then the road and due to severe head injuries died on the spot."

He added Sunny had just learnt to ride a motorcycle. Police said that a passerby saw the victims lying unconscious in a pool of blood on the road and made a PCR call.

"We took the victims to Lady Harding Hospital where they were declared brought," said the officer. Police added they are also investigating if the Wagon R hit the motorcycle from behind.

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Some women victims

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Injury/Accident – epidemic of 21st Century

short stories

MAN KILLED IN CAR CRASH

NEW DELHI: A merchant navy engineer was killed and his wife and daughter hurt when a speeding Audi A6 car hit their car at Golf Course Extension Road in Gurgaon on Friday.

P3

SUNDAY HINDUSTAN TIMES, NEW DELHI
DECEMBER 27, 2009

Engineer killed in hit and run

GURGAON HORROR Accused flees spot leaving merchant navy officer, family to die

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NEW DELHI: A 47-year-old merchant navy chief engineer was killed and his wife critically injured when a speeding Audi car rammed their Hyundai car at Golf Course Extension Road in Gurgaon on Friday afternoon, said police. The couple's 14-year-old daughter, also the car, was injured but later eased from hospital.

Sanjiv Mittal, the 48-year-old firm owner and IIT graduate, who was driving the Audi, fled from the spot after the incident. Mittal was arrested by police Saturday afternoon, a full 24 hrs later. Police say he was driving the car on a test drive. Eyewitnesses said the Audi pushed the 110 with such force that the smaller car toppled thrice before stopping at a distance of 36 yards from the spot of the collision. The Audi hit the 110 from the right, ramming diagonally into the driver's side.

Avinash Chandra Shah, who was driving the Audi, was arrested by police Saturday afternoon, a full 24 hrs later. Police say he was driving the car on a test drive. Eyewitnesses said the Audi pushed the 110 with such force that the smaller car toppled thrice before stopping at a distance of 36 yards from the spot of the collision. The Audi hit the 110 from the right, ramming diagonally into the driver's side.



The Hyundai i10 car that Avinash Sharma was driving was hit by such force it toppled over thrice before coming to rest on a mound of sand 36 yards away.



The accused Sanjiv Mittal (in blue) fled the site after allegedly hitting the i10 car with the Audi (right) he was driving. The Audi was said to be speeding and rammed the i10 from the right.

hindustantimes | metro | 03

The price of a life: Two years and Rs 1,000

HIT AND RUN CASES

MITTAL BOOKED UNDER:

Section 279 (rash driving)	279
Section 337 (causing hurt)	337
Section 338 (causing grievous injury)	338
Section 304 A (causing death by negligence)	304 A

(causing death by negligence) of IPC, these sections invite a maximum of two years imprisonment and a maximum fine of Rs 1,000.

Delhi Police had recently proposed to increase the punishment of death due to negligence (304 A) from two to three years. Gurgaon police said they did not conduct any alcohol test on the accused, as it was already more than 24 hours that he was arrested.

"Once the accused flees the scene, even if he is drunk, it becomes difficult to prove whether he had consumed alcohol at the time of incident or not," said another officer.

Mittal was arrested a good 24 hours after the accident took place as he also fled the scene leaving the victims to die.

Mittal has been booked under Sections 279 (rash driving), 337 (causing hurt), 338 (causing grievous injury) and 304 A near Bhiqaj Cama Place.

later caught and produced in a juvenile home. As the boy was a minor, his father was booked under the Motor Vehicle Act and let off with a fine of Rs 1,000.

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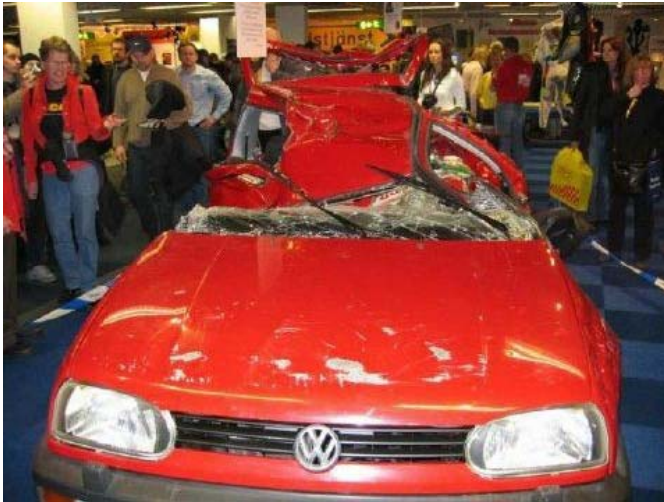
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Injury/Accident – epidemic of 21st Century



11/8/2011

Road accidents

road accidents

- **STATISTICS** 1,978 fatal accidents in 2010; Delhi Police claim focus on road safety, management helped bring down casualties

HT Correspondent

htreporters@hindustantimes.com

NEW DELHI: Last year, Delhi, which registers large numbers of road fatalities annually, saw a fall in fatal accidents. Or so the Delhi Police claim. And the figure would decline further this year, Delhi police commissioner BK Gupta promised.

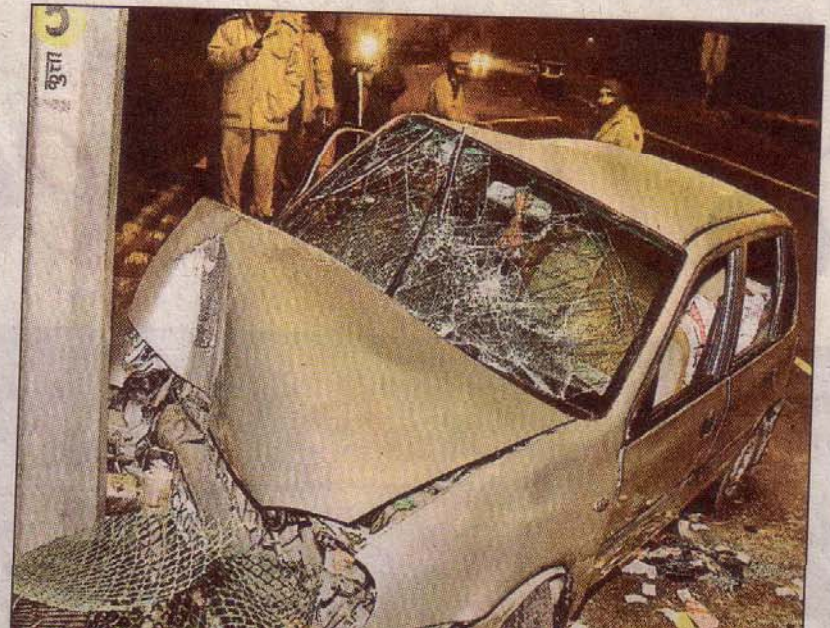
To ensure this, Gupta said the police have decided to focus on specific areas related to traffic management. This includes a massive crackdown on drunken driving, increase in penalty for road norm violation and improved traffic management in busy areas like market places.

Delhi police last year and we will lay emphasis on this during the current year also," Gupta added.

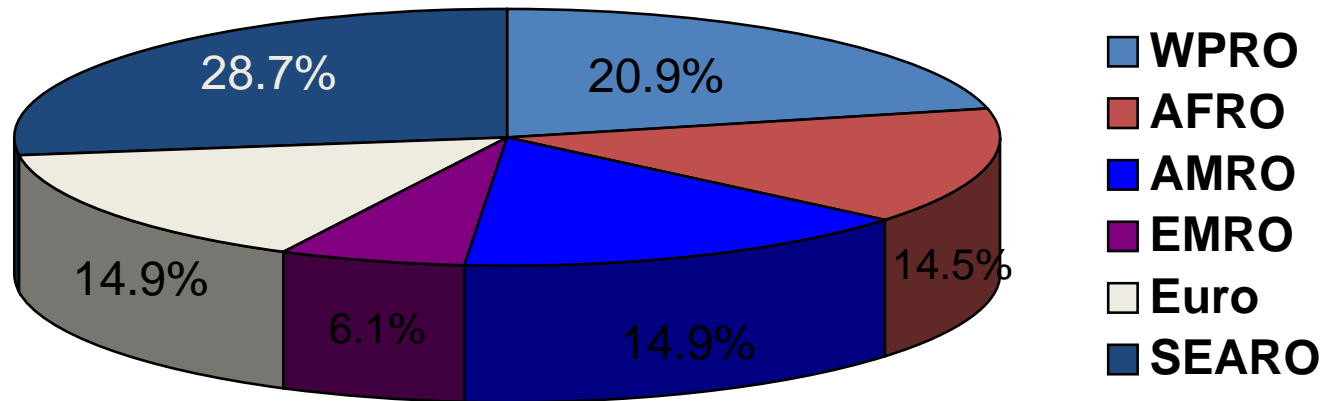
The number of fatal accidents in 2010 was 1,978, while in 2009, the figure stood at 2,182.

The city police chief attributed the fall in accidents to systematic analysis of accidents, increased police presence at intersections, special night patrolling, stern action against drunken driving, among other measures.

Gupta said that stern measures like suspension of driving licenses and cancellation of the same for subsequent offences have resulted in reducing traffic violations.

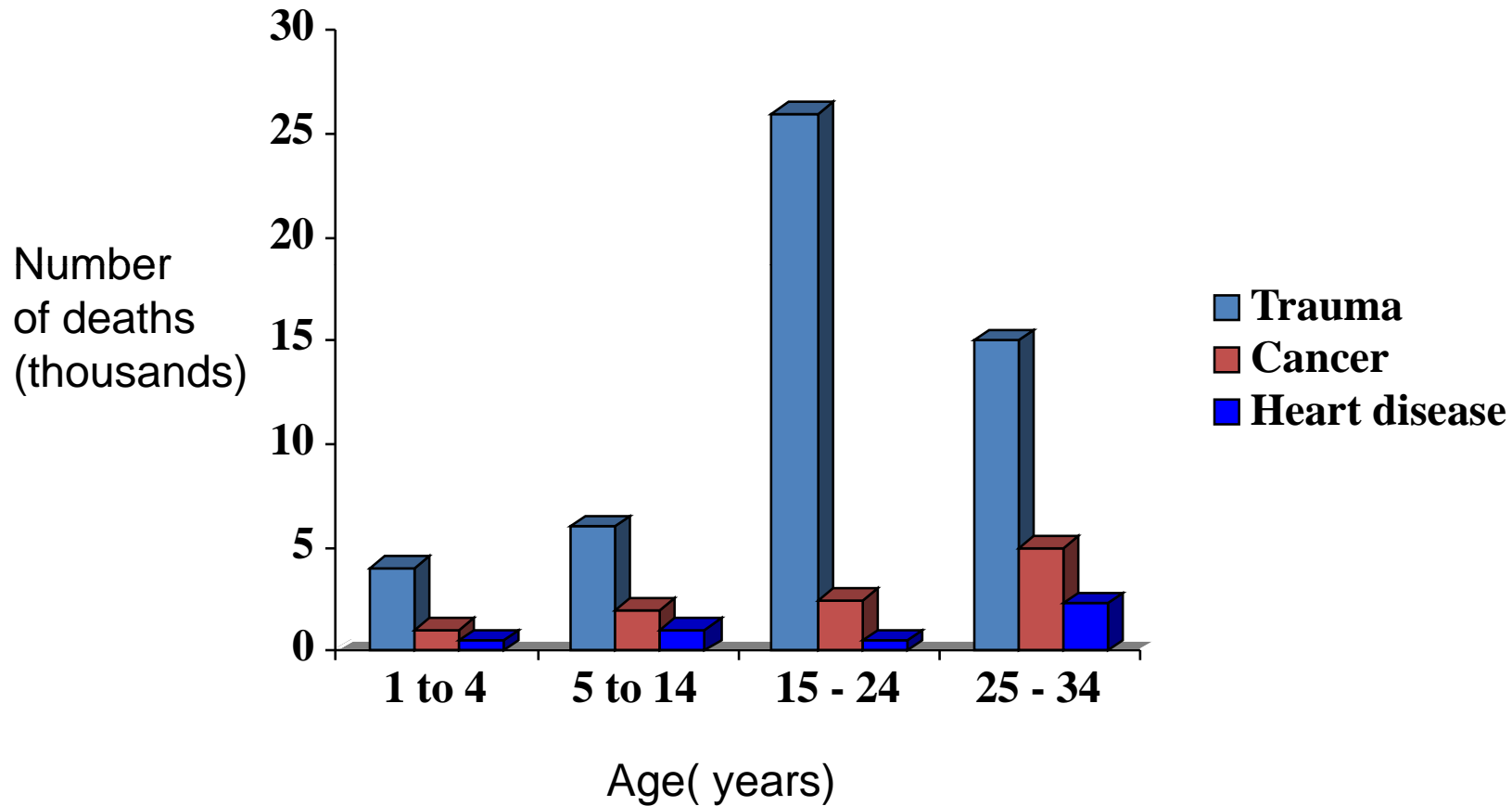


The distribution of road traffic deaths by WHO region, 1998

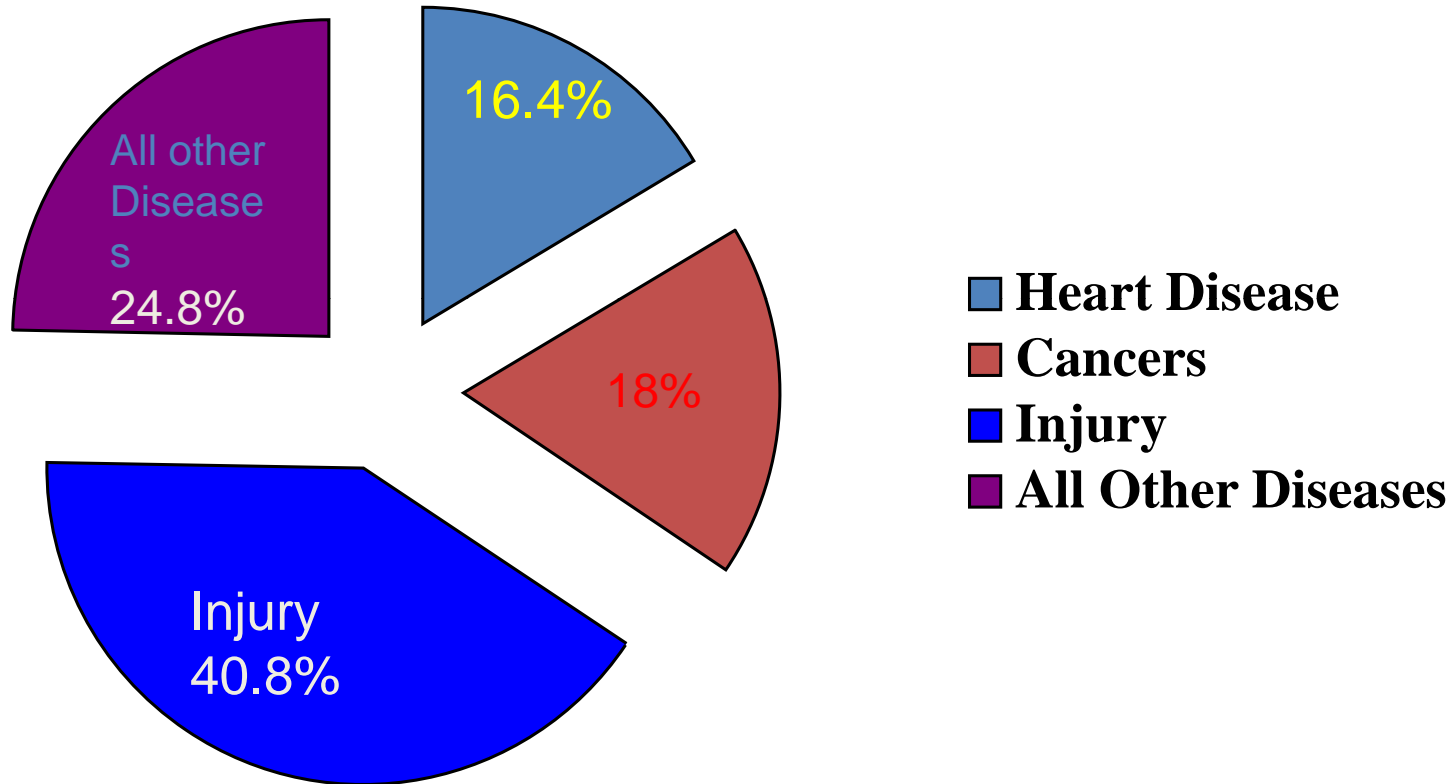


Road traffic injuries killed an estimated 1.2 million persons in 1998
Over 70% - nearly 850,000 persons - killed in road traffic injuries
in 1998 were under 45 years of age.

Trauma deaths



Years of productive life lost



Traffic fatalities/100,000

- USA & France 15.2
- New Zealand 13.3
- Canada 9.7
- Australia 9.4
- Japan & Switzerland 8.2
- Sweden & UK 6.0

Gross traffic fatalities

UAE

10708 Road accidents

662 Deaths

10566 Injuries

China

100 000

Deaths / year

India

1,26,896

deaths/2009

Delhi

2000/year

Saudi Arabia

30500 Road accidents

3913 deaths

28378 Injuries

Road deaths in India

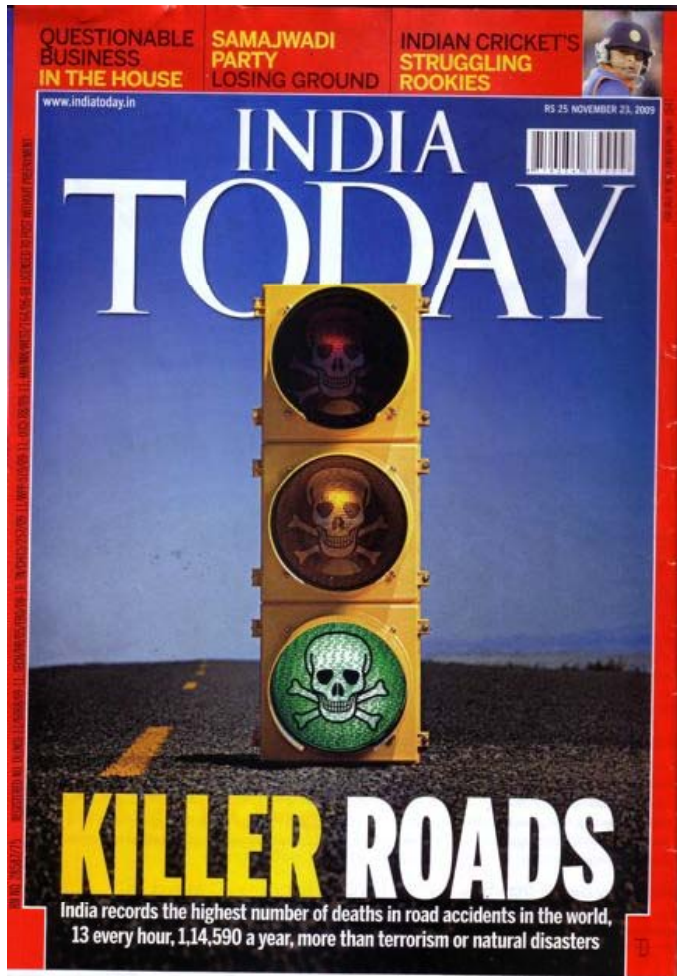
Year	Persons killed (in nos.)	% variation over previous Year
2005	98,254	7.5
2006	1,05,725	7.6
2007	1,14,590	8.4
2008	1,18,239	3.2
2009	1,26,896	7.3

Accidental Deaths

Year	Accidental deaths	% Increase
1999	271918	
2009	357021	31.3

30.5/100,000

India Records Highest Number of deaths in RTA in World 14/hr, 1,26,896 in 2009,



“ Most people use their car as a murder weapon as they drive with intense rage. Speed thrills also calm them down. ”
 RAJAT MITRA, *Criminal Psychologist*

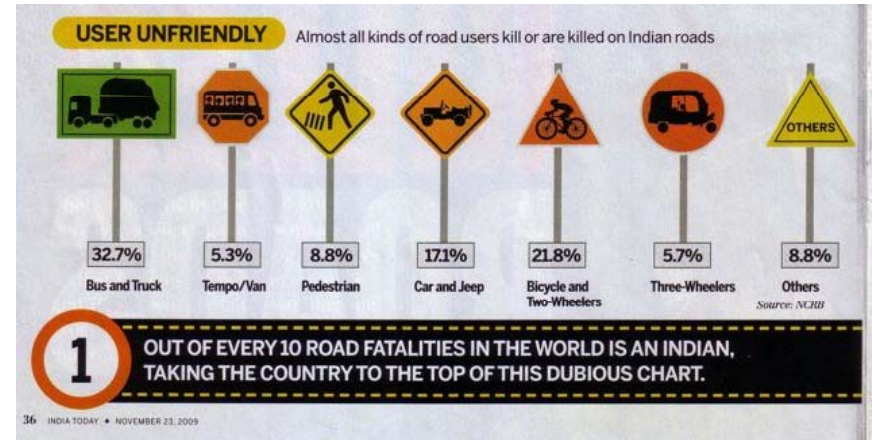
COMPARISON WITH THE US

A high number of vehicles is no indicator of higher road fatality

	INDIA	USA
Population	114,79,95,904	30,40,59,724
Total vehicles	7,27,18,000	46,98,51,833
Total road accidents	4,18,600	64,20,000
Total road fatalities	1,14,590	42,636
Total road injuries	4,65,300	29,00,000
Average road fatalities per hour	13	Nearly 5
Ratio between injured and dead	5:1	69:1

The US has six times more vehicles and experiences nearly 15 times more road accidents, but its road fatality figure is 37 per cent of India's. The key difference is in the profile of victims : in India, it is primarily pedestrians, cyclists and two-wheelers while in the US it is car drivers.

Killer Roads



Injury – A Silent Genocide

- Road traffic fatalities
- Dead at work Places – 1/Every Five Minutes
- Terrorism
- War – Low intensity

Disease burden (DALYs) for the 10 leading causes

1999

Disease or injury

1. Lower resp. tract infections
2. HIV/AIDS
3. Perinatal conditions
4. Diarrhoeal diseases
5. Unipolar major depression
6. Ischaemic heart disease
7. Cerebrovascular disease
8. Malaria
- 9. Road traffic injuries**
10. COAD

2020

Disease or Injury

1. Ischaemic heart disease
2. Unipolar major depression
- 3. Road traffic injuries**
4. Cerebrovascular disease
5. COAD
6. Lower resp. tract infections
7. Tuberculosis
8. War
9. Diarrhoeal diseases
10. HIV/AIDS

DALY = Disability adjusted life year

Growing Realization in India

- Injury – A Major Public Health Problem
- Planning of Trauma Centers along highways
- Upgradation of 20 Medical School Hospitals Across India for Trauma care (PMSSY)
- Introduction and implementation of Pre-hospital Emergency Services across India
- Urgent requirement for Trained Medical and paramedical manpower
- 2000 deaths each year on Delhi Roads
- > 1,26,896 persons die each year in India in Road accidents
- Bomb blast, Gun shot, Construction site disasters
- 26 Mass casualty Events

Huge “GAP” Exists between Supply & Demand

Magnitude of Trauma in India

Government of India Initiatives

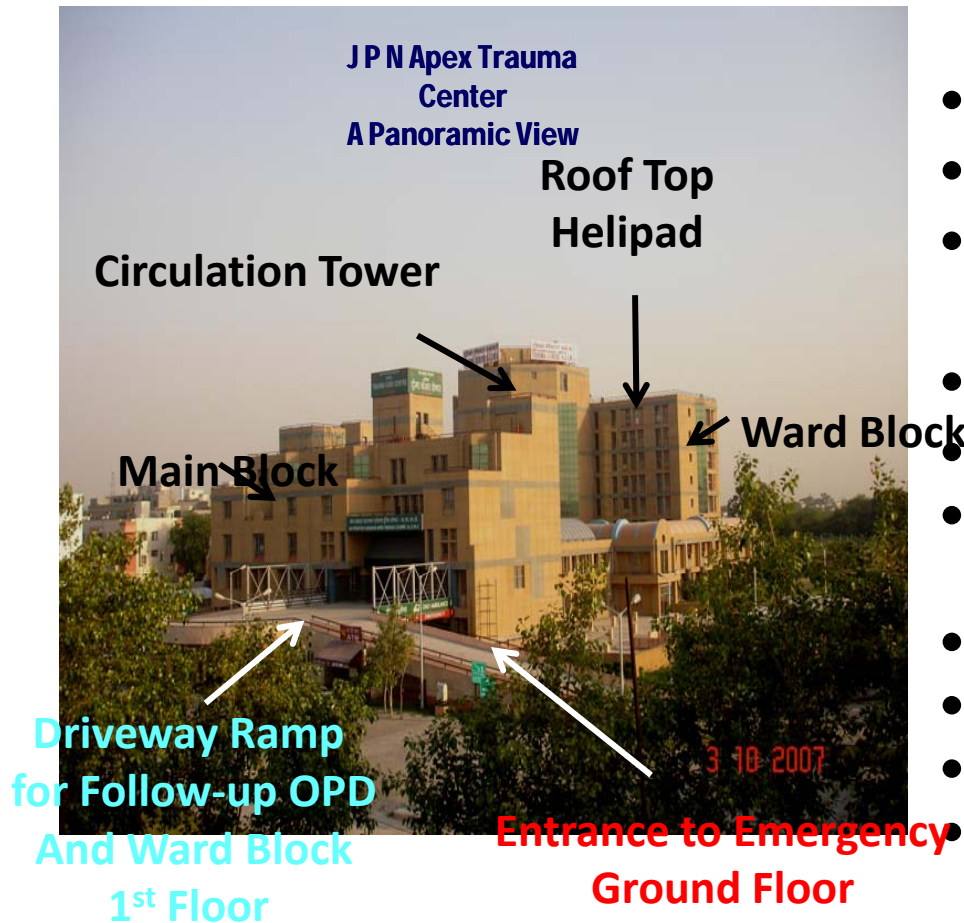
Challenges Ahead

- Planning and Building 140 Level II & III Trauma Centres along “Golden Quadrilateral”
- Pre-Hospital care covering both Rural & Urban India
- **To engage trained medical and paramedical manpower to provide 24x7 Acute care**

Vulnerable Pedestrian



Apex Trauma Center at AIIMS



Started on 26 Nov 2006

- Level I
 - State of the art Patient Care
 - Trauma Education & Training
 - Trauma Research
 - Design Systems
 - Role Model Total Bed Strength: 180
 - Triage/ ED: 25
 - Recovery: 5
 - Trauma ICU (Two): 35
 - Wards (Four): 120
- 125-150 Patients/24hours**
- 50,000/Year ED Patients & 4000 Operative procedures**

Demographic data 2010

- Emergency Attendance 47,767
- Admissions in hospital 04813
 - Neurosurgery 02073
 - Orthopaedics 00972
 - Surgery 01768
- Major surgical procedures 03964
 - Orthopaedics 01658
 - Neurosurgery 01068
 - Surgery 01238
 - ICU Admission 00554

- Trauma Centre movie

Mass Casualty Incidents

N = 32

Incidents	Red	Yellow	Green
<ul style="list-style-type: none">• Mass accidents• Building collapse• Other Incidents	150	800	1654

UN/WHO Resolution

A Decade of Action on
Road Safety
2011-2020

A Framework for a decade of Action 2011-2020

- Goals and Specific objectives with an agreed target
- Activities designed to achieve specific target through a series of indicators
- Funding commensurate to the activities

Goals and Specific objectives with an agreed target

- Setting an ambitious target for reduction of road fatalities by 2020
- Strengthening Global architecture for road safety
- Increasing the level of Global funding
- Increasing human capacity within countries relating to Road Safety
- Improving Quality of Data collection at the National, Regional and Global levels
- Monitoring Progress

Implementation of Five Pillars

National Activities				
PILLAR 1	PILLAR 2	PILLAR 3	PILLAR 4	PILLAR 5
Road Safety Management	Infrastructure	Safe Vehicles	Road User Behaviour	Post-Crash care

International road safety coordination

- Activity 1 – Increase Global Funding (10% Road Infrastructure Investments)
- Activity 2 – Advocate for Road safety at Highest levels (Declaration by the PM from the Ramparts of Red fort on 15th August address to the Nation)
- Activity 3 – Increase awareness of risk factors and Injury Prevention – 2011, 2015, 2018 – Enforcement of Helmet Vaccine Across India (**SUPREME COURT JUDGMENT**)
- Activity 4 - Implementation of Road safety Good Practices and Trauma Care (PMMSY/Trauma Centres Planning)

Vulnerable Road User: STOP ROAD SIGN



Helmet Vaccine



International road safety coordination

- Activity 5 – Improve the Quality of Road Safety Data Collected
 - Standardizing Definitions (Death/Injuries)
 - Estimation of Road Traffic Injury Health Losses
 - Investment in Development of National Crash analysis systems and related health surveillance systems

International road safety coordination

Activity 5

- Development of Road Safety Data Management systems in collaboration with International Road Traffic Accident Database (IRTAD) Group

**NETWORKING OF
TRAUMA CENTRES**

International road safety coordination: Potential Indicators

- Number of Road Traffic Deaths
- Regional Databases (IRTAD)
- Intermediate Indicators (Helmet Wearing, Seat Belt Wearing, Network speeds etc.)

Influence Road User Behaviour

- Activity 1 – Increase awareness of Road safety risk factors and Prevention measures
- Activity 2 – Safe System : Speed limits
- Activity 3 – Blood Alcohol related crashes
- **Activity 4 – Motorcycle Helmets to reduce head Injuries Including all women**
- Activity 5 – Child Restraints
- Activity 6 – Enforcement of Law related to Commercial vehicles freight and public transport
- Activity 7 – Strict Enforcement of Road Traffic Laws
- Activity 8 – Road safety Employee Education both Public & Private

Improving Post – Crash Care: Develop Trauma Team Concept

- Components – Resuscitation – Rehabilitation

- Pre-Hospital Care – BECC, PHTLS
RTTDC

- Efficient Hospital Trauma Care
 - TEAM
 - ATLS
 - ATCN
 - AUSTLS

- Longer Term Rehabilitation Care

Multipronged strategy

- Injury prevention – Helmet enforcement, Road behaviour, Awareness
- Injury Research – Data gathering (trauma Registry)
- Organized Pre-hospital Care, Networking of Trauma Centres across
- Trauma Education and Training – Immediate care Providers
- Trauma Education and Training – Surgical care, Critical care

Trauma Education and Training

– Surgical care, Critical care

Specialized courses

- **MD (Emergency Medicine)**
- **MS (Trauma Surgery)**
- **MD (Critical care)**
- **Mch (Trauma and Critical care)**

ATLS Provider Courses: www.atls.in



Saturday, October 03, 2009

Advanced Trauma Life Support® (ATLS®) Course of American College of Surgeons - India Program

**ATLS® Course,
Jai Prakash Narayan Apex Trauma Centre
All India Institute of Medical Sciences
New Delhi**

Dear Friends,

It gives me immense pleasure to announce that we are organizing (ATLS®) Courses at 30th Apex Trauma Centres, All India Institute of Medical Sciences, New Delhi.

I take the opportunity to invite you to participate in the course.

The Ministry of Health & Family Welfare, Govt. of India, National Disaster Management Authority, Govt. of India, and the All India Institute of Medical Sciences are supporting the ATLS - India Program to develop trained medical manpower in trauma care.

The detailed registration form and other details regarding course fee etc are given here in.

Acceptance of the registration for participation for provider and instructor courses is strictly on first come first serve basis. Once the participation is accepted, the course fee is non-refundable. You will be alerted the course depending on the availability of the seats in a particular course. Once a particular course is full, your application will be included in subsequent course.

Looking forward to your participation.

www.atls.in

M.C.MENGA
Program Director
ATLS - India

TRAUMA 2009

Site designed and hosted by StarNet

Other Initiatives

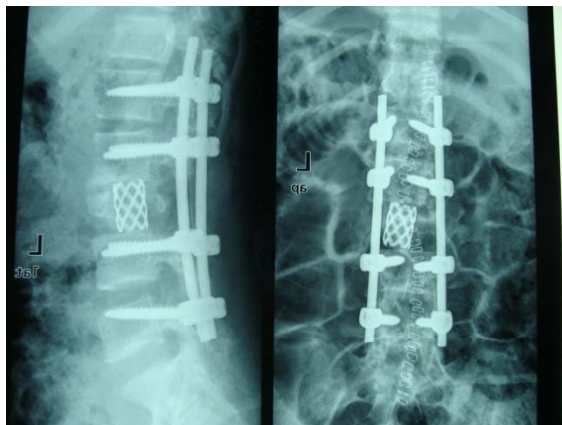
- ATCN – March 2010
- PHTLS



Public Awareness Program

- Basic Emergency Care Course (BECC)
 - Lay Public
 - School Curriculum
 - College Students
 - Community
 - Media

Landmark surgeries



*Miracles may happen
but only a good team
can ensure that they do*



Containing Injury Epidemic

Accident/Injury Prevention:

A huge challenge &

A

Social Responsibility

- Adamo film

Adamo's discharge from TC



11/8/2011

Bhubaneshwar movie

Helmet Use

Prime Minister of India
Dr. Man Mohan Singh
Visits
JPN Apex Trauma center



To Commend the
Services rendered by
Security Personnel
Injured in a blast at
Indian Embassy, Kabul
On
7th July 2008

Thank you



**JAI PRAKASH NARAIN APEX TRAUMA CENTER
AIIMS, New Delhi**

Come Visit Us...

Thank You