



SNS COLLEGE OF NURSING  
Saravanampatti (po), Coimbatore.



- DEPARTMENT OF NURSING
- COURSE NAME: BSC(NURSING) II YEAR
- SUBJECT :COMMUNITY HEALTH NURSING
- UNIT: V EPIDEMIOLOGY OF NON COMMUNICABLE DISEASE
- TOPIC : ACCIDENTS



# INTRODUCTION



- Accidents are the part of prize we are paying for technological advances.
- Like other diseases accidents are also having
  - Natural history of disease and
  - Agent, Host and Environmental factors



# ACCIDENTS

- DEFINITIONS:-

- ✓ Unexpected, unplanned occurrence of an event which may involve injury.
- ✓ An unpredictable event resulting in recognizable damage.



- WHO(1956)



# CONTD.....



## INJURY:-

A bodily lesion due to acute exposure to energy beyond the physiological tolerance.





# EPIDEMIOLOGY OF INJURIES

## INJURY AS A DISEASE



<b>PATHOLOGIC CONDITION</b>	<b>HOST</b>	<b>AGENT</b>	<b>VECTOR/ VEHICLE</b>	<b>INTER ACTION</b>
Malaria	Human	Plasmodium vivax	Mosquito	Bite
Skull Fracture	Human	Mechanical Energy	Motor cycle	Crash

# CAUSES OF ACCIDENTS

- Accidents are complex phenomena with multiple causation
- Etiological factors are classified to
  - Human
  - Environmental
  - Psychosocial factors



# TYPES OF ACCIDENTS

- Road Traffic Accidents (RTA)
- Domestic accidents
  - Drowning
  - Burns
  - Falls
- Industrial Accidents
- Railway accidents
- Violence





# HUMAN FACTOR

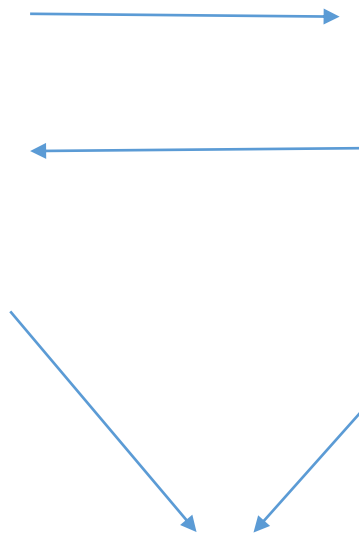
- AGE
- SEX
- EDUCATION
- PSYCHOLOGICAL FACTOR
- LACK OF BODY PROTECTION

# ENVIRONMENTAL FACTORS

- RELATING TO ROAD
- RELATING TO VEHICLE
  - BAD WEATHER
  - MIX TRAFFIC



Precipitating Factor



Increase vulnerability and risk situation

ACCIDENTS



# DOMESTIC ACCIDENTS

- Common domestic accidents are-
  - Drowning
  - Burns by flame,
  - hot liquid,
  - electricity,
  - crackers, chemicals
  - Falls
  - Injury by sharp objects
  - Animal bites.





# PREVENTION AND CONTROL OF DROWNING

- Availability of life jackets and flotation devices around pools & boats.
- Supervision of children by adults
- Creation of safety standards for public and private swimming pools
- Ensuring availability of weather reports to fishermen and to those working on rivers and seas

**Circle of Drowning Prevention**  
Layers of protection are essential to help prevent drowning.  
Plan ahead for aquatic activities:



# PREVENTION AND CONTROL OF BURNS

- Stable stoves/lamps
- Replacement of pressure stoves with wick and gas stoves
- Installation of fire and smoke alarm
- Promotion of cold water for first aid and b



Flame burn



Scald burn



Contact burn



Chemical burn



Electrical burn

# PREVENTION AND CONTROL OF INDUSTRIAL ACCIDENTS

- Ensuring the cost effective protection measures
- Enforcing safety regulations and standards
- Creating awareness among workers



# VIOLENCE

Risk factors for violent behavior:

- Exposure to violence and societal acceptability of violence as a mode to solve the problem
- Availability of lethal weapon at home
- Consumption of alcohol



# PREVENTION OF ACCIDENTS

- Multi-sectorial approach approach for prevention
- **Safety education:**
  - “Accident is a Disease – Education is its Vaccine”
    - Should start from school days
    - Drivers trained for vehicle maintenance and safe driving.
    - Education about traffic rules
    - Training in First Aid.
- **Promotion of Safety measures:**
  - Helmets
  - Seatbelts
  - Leather clothing and boots



# PROMOTION OF SAFETY MEASURES

- Children on back seats
  - Parking at a suitable place
  - Low beam headlights
  - Avoidance of mobile
  - Door locks
  - Proper vehicle design
  - Avoidance of alcohol and drugs





# ELIMINATION OF CAUSATIVE FACTORS

- Improper roads
- Speed limits
- Marking danger points
- Fire guards
- Use of safety equipments
- Safe storage of drugs, poison and weapon.





# ENFORCEMENT OF LAW

- Medical fitness of driver
- Alcohol conc. In blood (80 mg/100 ml limit in India)
- Driving test
- Seat belt wearing
- Speed limit



# ASSESSMENT

1. What are the types of accidents?
2. How will you prevent the Accidents?



# References

- K. Park, Text book of preventive and social medicine, Bhanot publication, 18th edition.
- B.T.Basvanthappa, Community health nursing, Jaypee, Publication, 6th edition.

