

INJURIES

Dr Amandeep Singh, Assistant Professor

INJURY - Legally

Section 44 IPC

Any harm, whatever illegally
caused to any person,
in body, mind, reputation or
property

INJURY/ WOUND - Medical

Any
breach or discontinuity
of the tissue of the living
body.

Trauma

- Insult to the lining tissue
- It is an injury inflicted by force on a living tissue

Classification of Injuries – Medical

- Mechanical
- Thermal
- Chemical
- Physical
- Explosions

Mechanical Injuries

- Due to Blunt Force
 - Abrasions
 - Bruises/ Contusions
 - Lacerations
 - Fracture and dislocations
- Due to Sharp Force
 - Incised wounds
 - Chop wounds
 - Stab Wounds
- Due to Firearms

Thermal Injuries

- Due to Cold
 - Frostbite
 - Trench Foot
 - Immersion Foot
- Due to Heat
 - Burns
 - Scalds

Physical

- Electricity
- Lightening
- X-Rays
- Radioactive material

CLASSIFICATION:

Depending upon Gravity
(Legal)

- Simple Injury
- Grievous Injury

CLASSIFICATION:

Depending upon time of
Infliction

- Antemortem
- Postmortem
- Perimortem

CLASSIFICATION:

Depending upon the manner of infliction

- Suicidal
- Homicidal
- Accidental
- Defence wounds
- Self-inflicted/ self suffered
- Fabricated Fictitious injuries

Mechanism of Mechanical Injuries

- These are injuries which follow the principles of mechanics.
- Caused by either moving object or weapon (Counterforce is inertia of the body) or movement of the body itself (Counter-force | rigidity of the surface)

Impact

Energy transferred
to tissue

Causes compression / traction
strain or combination, on the
tissue

Some energy spent
in moving of body

Shearing strain produced

Causes Force alteration
of shape of tissue

Soft Tissue - Ruptures
Rigid Tissue like bone -
Fractures
When their limit of
elasticity is exceeded

By Blunt weapon / force

- Abrasions
- Contusions
- Lacerations
- Fracture and Dislocations

ABRASIONS

An injury involving only
outer layers of skin

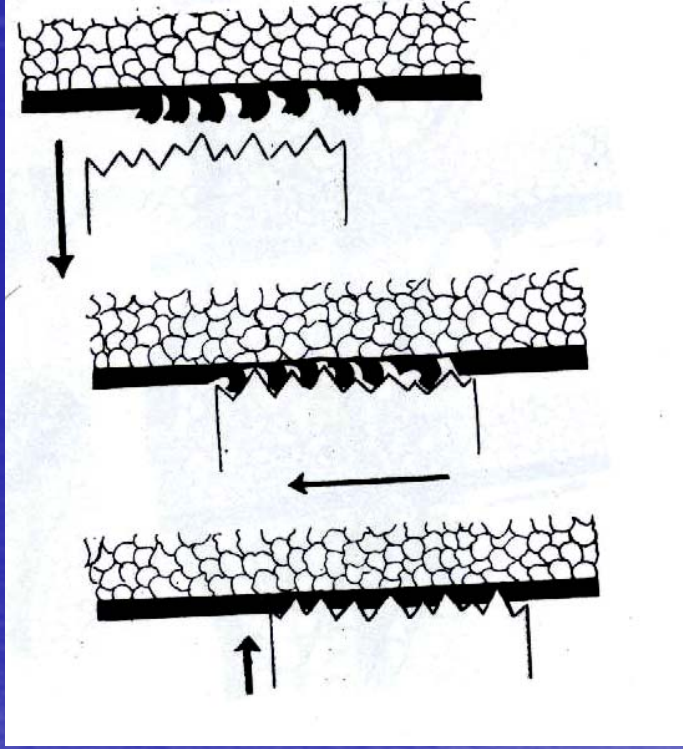
Abrasions

- Type:

- Simple abrasion –
due to blunt
weapon

Mechanism

Injuries to superficial epithelial layer of skin by friction.



SCRATCH

- **Linear Injury produced by a pointed object**
 - Thorn
 - Pin
 - Finger nail
- **Carries the epithelium in front of it**
- **Heaped up epithelium at the end**

PATTERNED ABRASIONS

Crushing of cuticle due to direct impact or contact or pressure

- Ligature Mark in hanging
- Grill marks in car accidents
- Tyre marks
- Whip marks in beating
- Muzzle marks in gun shot injuries

Age of Abrasion

- Bright red Fresh
- Red Scab 12– 24 hours
- Reddish brown 2 – 3 days
- Partial shedding of scab 4 -7 days
- Complete healing 10 days

BE AWARE OF

- Ant bites
- Pressure sores
- Excoriation of skin

Antemortem vs. postmortem
by vital reaction

ABRASIONS- WHAT THEY TELL

- Site of impact
- Weapon
- Direction
- Cause
- Time