- Wound is break in continuity of soft tissues caused by trauma.
- Broadly classified into two groups.
- 1. Closed wound
- 2. Open wound
- 1. Closed wound : No break in continuity of skin or mucus membrane but underlying tissues are damaged.

- Contusion: It produced by blunt objects and results in damage to subcutaneous tissues without breaking continuity of skin.
- Bruise : Mild degree contusions. It is due rupture of capillaries in the skin giving rise to a reddish blue or purple colouration of skin
- Haematoma: Collection of blood in abnormal cavity. It is seen subcutaneously or submucously.

Open wounds :- These are the open wounds

 (1) Incised wounds : - Caused by sharp cutting
 instruments

(2) Lacerated wounds : Wounds appears torn and uneven

edges. It may be more or less extensively injured.

(3) Punctured wounds : This wounds caused by sharp

pointed objects like nails.

• Penetrating wound : These are deep wounds communicating with

Perforating wound : This wound has two opening, one entrance

and other exit. Eg. Wounds of thorax, abdomen etc. Cavities

- Gunshot wound: Caused by various types of firearm
- Abrasions : In which superficial layers of skin are only removed.
- Avulsions: Avulsion is wound in which actual loss of tissue.

- Aseptic wound : Surgical wound made under aseptic condition
- Contaminated wounds : It is wound in which microorganism are

present.

• Infected wounds: In which micro-organism have invaded the

tissues and have started multiplying

and

produce toxins.

- Granulating wounds: Which is showing tendency to heal.
- Ulcerative wounds: has no tendency to heal method of wound healing
- First intension healing (Primary union).
- The narrow space between the edges of the wound is filled with blood clot.

- The blood capillaries and fibroblast grow into this from edges and healing of wound completed 5-15 days.
- In first intension of healing very little scar tissue is formed.
- 3rd day proliferating capillaries appear in the wound.
- 4th day fibroplasia is also evident.

- 2. Second intension of healing : (healing by granulation)
- It is by replacement of tissue.
- It happens in extensive loss of tissue and edges of wound are widely separated.
- The granulation tissue consisting of budding capillaries and fibroblast grow from edges and bottom of wound to fill the gap.

- The granulation tissue is highly vascular.
- It is called granulation tissue because of the granular appearance presented numerous blood capillaries.
- The capillaries grow up and anastomose with each other forming a network.

- The fibrous tissue also proliferate and fibres are interlaid among the capillaries.
- With the growth of fibrous tissue and capillaries coming up to surface of wound, the surface epithelium also grows from its borders and makes healing complete.
- At later stage the fibrous tissue contracts, causing constriction obliteration of most of the newly formed capillaries, thereby giving the characteristic pale colour of scar tissue.
- Healing by second intention takes 14 to 21 days.

• Mixed intention healing : Healing partly by first intention and

partly by second intension.

• This happens when a sutured wound has partially disrupted.