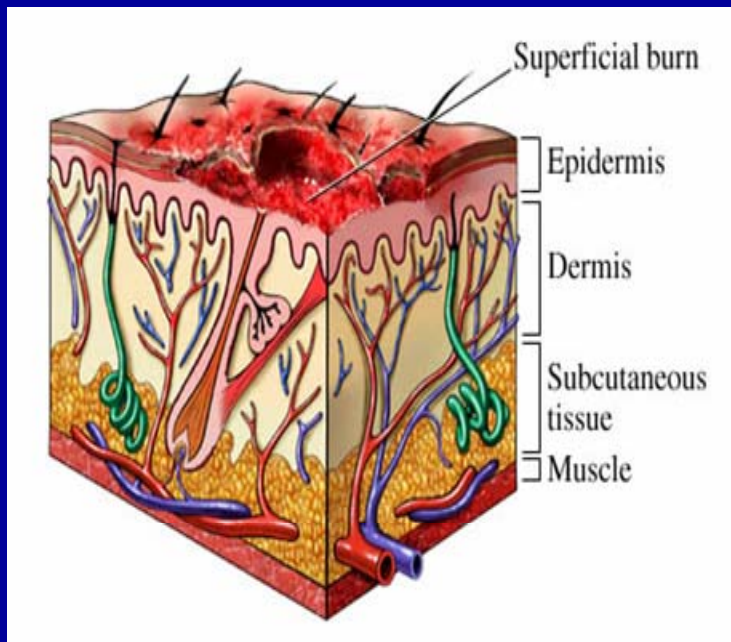


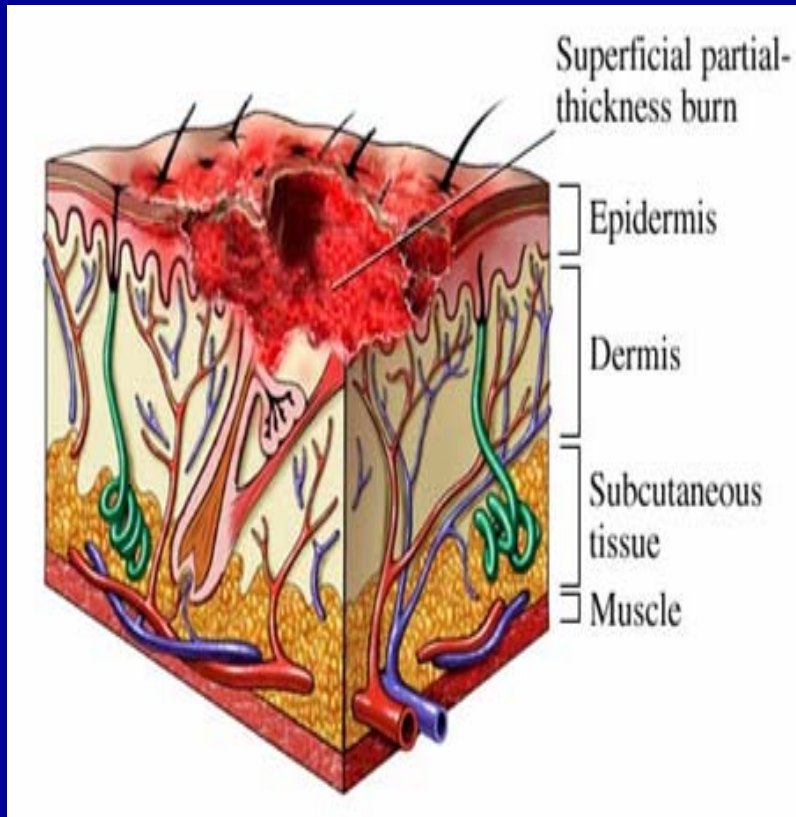
ASSESSMENT OF BURNS

- BSA(Body Surface Area)-Rule of NINES,
Rule of the palm.
- Depth-Jacksons Pin Prick Test

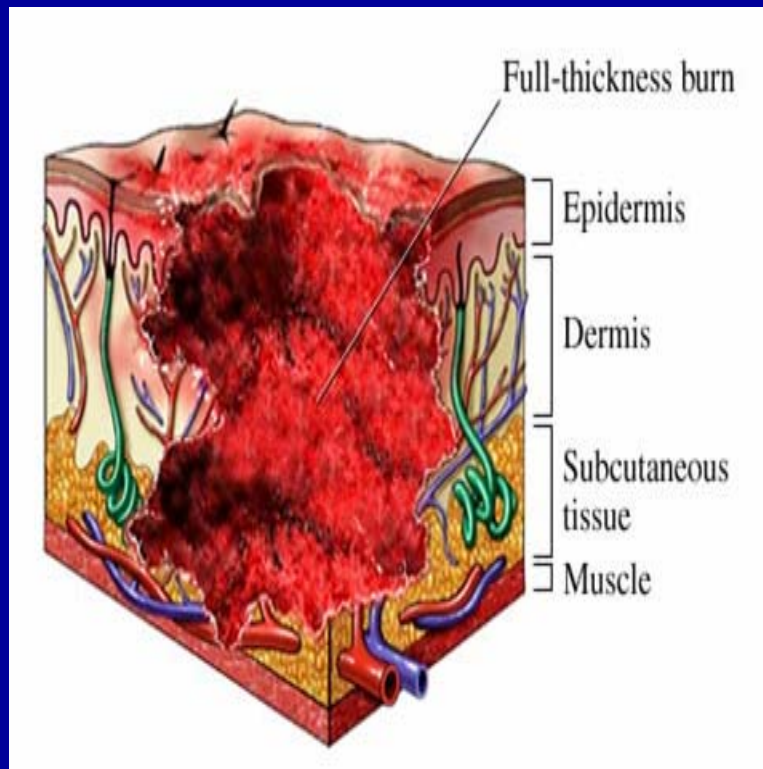
First degree burns



Second-degree burns

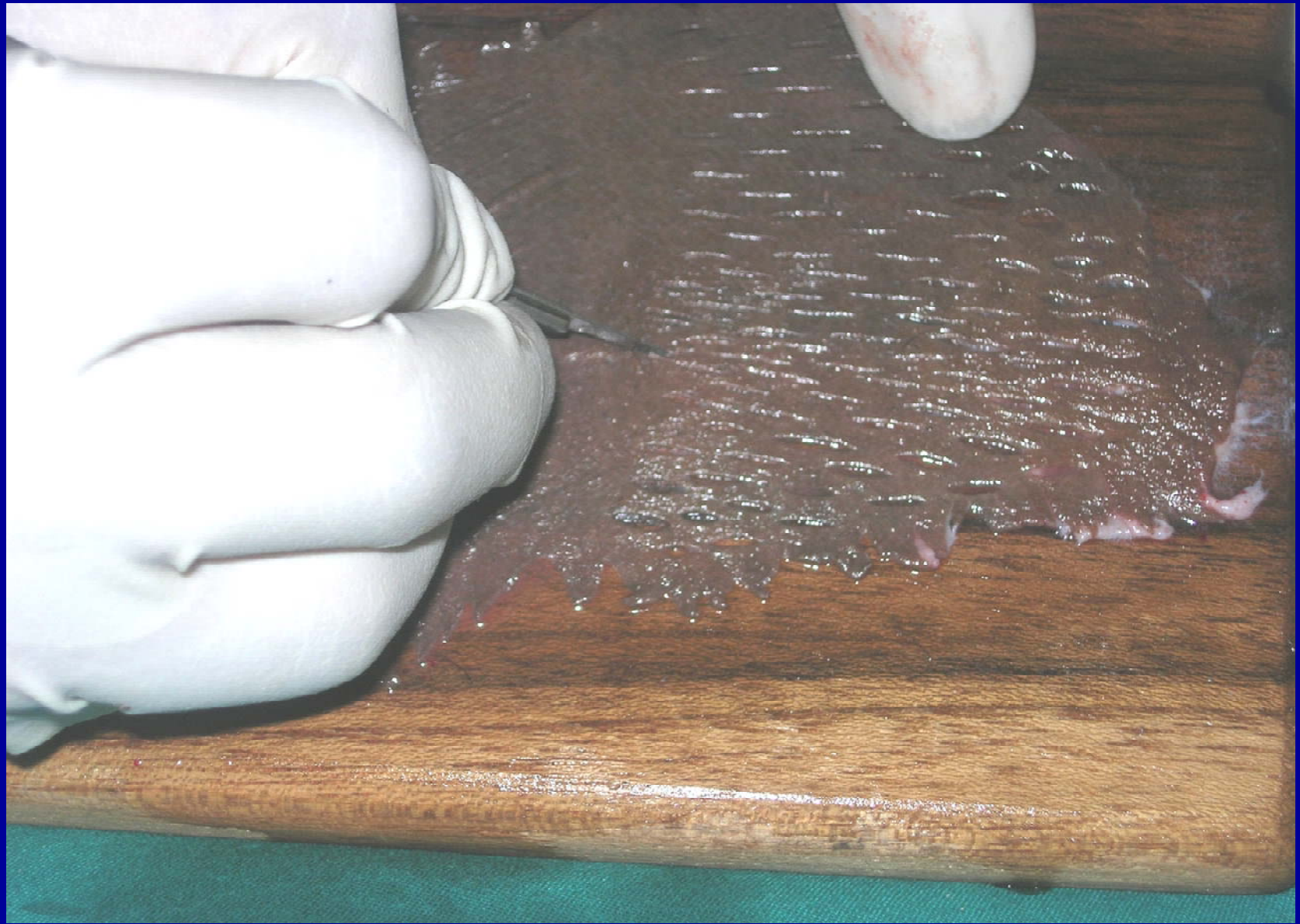


Third-degree burns





Harvesting Skin Graft (SSG)



Manual Meshing of Skin Graft (SSG)

Please Remember!

- Your end can be someone else's beginning
- **DONATE SKIN AND SAVE A LIFE**

Just give it a thought!

- What can save a burn should not be burnt
- **DONATE SKIN AND SAVE A LIFE**

Who needs skin donation?

- Burns >50% BSA Adult
- Burns >30% BSA Children
- Deep Burns
- Chemical Burns
- Electrical Burns
- Radiation Burns

Cadaveric Skin Transplantation

- Only the superficial layers of the skin are harvested
- Areas taken are thighs and legs(covered areas)
- Donated skin does not stick permanently but for 3-4 wks ,but this time is good enough to help the patient who receives the graft to prevent infection, reduces pain and prevents the patient from leaking too much proteins and heat and thus prepares the patient for auto grafting and permits complete healing of the relatively superficial areas

Cadaveric Skin Transplantation

- For Burns BSA > 50%
- Within 6 hrs after death
- No age bar
- HIV and HBsAg negative
- No skin disease

How does one donate SKIN?

- After death, the relatives of the deceased person call the NATIONAL BURN CENTRE HELPLINE NUMBER 27643333
- Within 1 hour the team from NBC will come to the hospital or home where the person has died
- The skin will be harvested from the thighs and back within 45mins and the parts bandaged
- These areas are then covered with normal clothes for the final journey and the person is then cremated or buried

SKIN BANK



SKIN BANK



ARTIFICIAL SKIN SUBSTITUTES

- **CULTURED DERMAL SUBSTITUTES-** cultured fibroblasts on a 2-layered matrix of hyaluronic acid and atelo -collagen
- **DERMAL SUBSTITUTES-***Integra*-tissue engineered dermal template covered with a silicon epidermal substitute, *Alloderm*-cryopreserved acellular dermal matrix, *Dermagraft* - neonatal foreskin fibroblasts cultured on polyglactin mesh, *Terumo*-bovine collagen analogue, *Pelnac* - silicone epidermis and collagen matrix dermis

ARTIFICIAL SKIN SUBSTITUTES

- **BILAMINAR SKIN SUBSTITUTES**
- **BIOBRANE**-outer silicone film and inner layer of nylon and collagen
- **TRANSCYTE**-similar to Biobrane with an added layer from neonatal fibroblasts
- **LASERSKIN**-sheet of benzyl esterified hyaluronic acid perforated by laser and seeded with nonproliferating fibroblasts

TISSUE CULTURE

- Skin cultured in lab to broad sheets
- Cultured epithelial allografts(CEA)
- Cultured autogenic keratinocytes
- **NEED** dermal support in form of acellular dermis or Integra or the wound should be superficial second degree
- Expensive
- Takes poor about 10%

Cadaveric Skin Transplantation

- India with such a huge population will have no dearth of skin in its SKIN BANKS and a large no of precious lives would be saved if people would come forward in large nos for SKIN DONATION AFTER DEATH

