

# Severity of Burns

- **First-degree burns**
  - Only epidermis is damaged
  - Skin is red and swollen
- **Second-degree burns**
  - Epidermis and upper dermis are damaged
  - Skin is red with blisters
- **Third-degree burns (worst)**
  - Destroys entire skin layer
  - Burn is gray-white or black

# Severity of Burns



Epidermis  
Dermis  
Subcutaneous  
Muscle



Superficial  
(first degree)  
burn



Partial thickness  
(second degree)  
burn



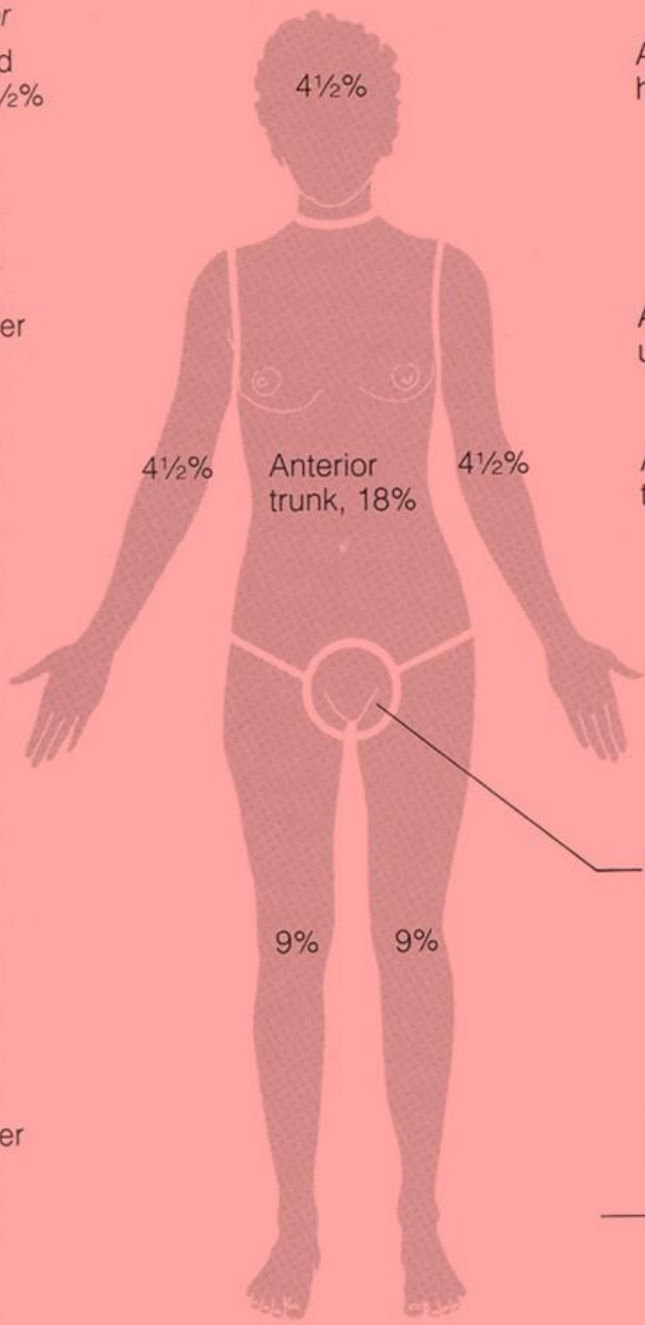
Full thickness  
(third degree)  
burn



# Rule of Nines

- Way to determine the extent of burns
- Body is divided into 11 areas for quick estimation
- Each area represents about 9% of total body surface area

Anterior  
Anterior head  
and neck, 4½%  
  
Anterior upper  
limbs, 9%  
  
  
  
  
  
  
  
  
  
Anterior lower  
limbs, 18%



Totals  
Anterior and posterior  
head and neck, 9%

Anterior and posterior  
upper limbs, 18%

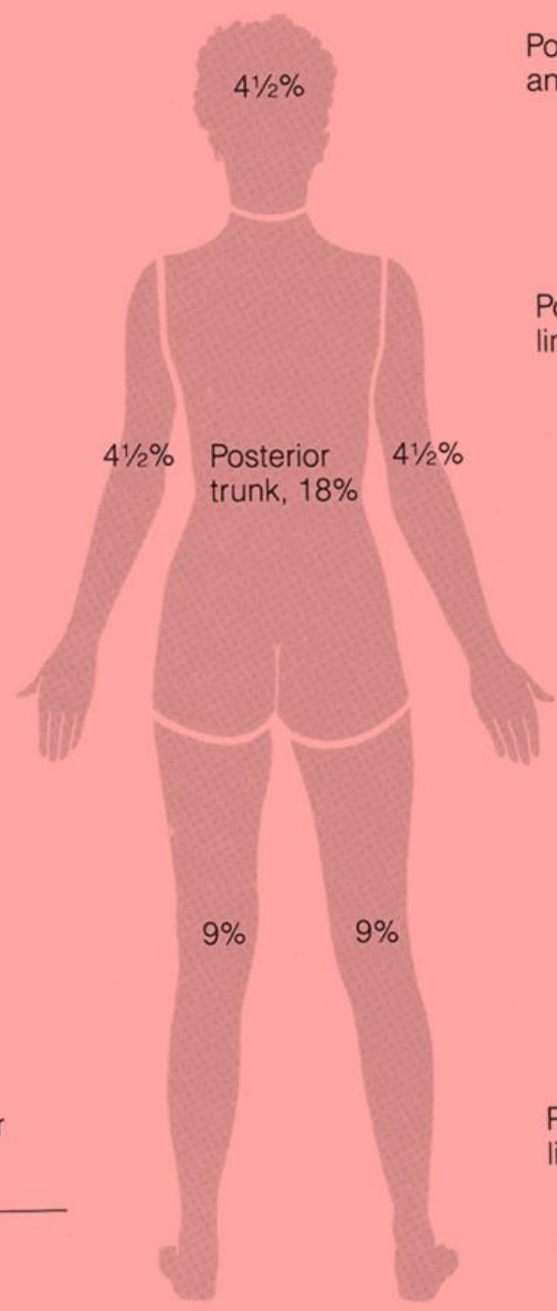
Anterior and posterior  
trunk, 36%

(Perineum, 1%)

Anterior and posterior  
lower limbs, 36%

100%

Posterior  
Posterior head  
and neck, 4½%

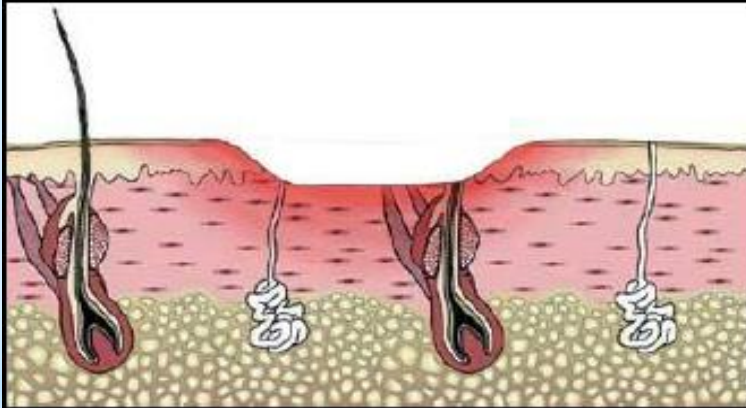


Posterior upper  
limbs, 9%

Posterior lower  
limbs, 18%

# Skin burns

**Superficial**

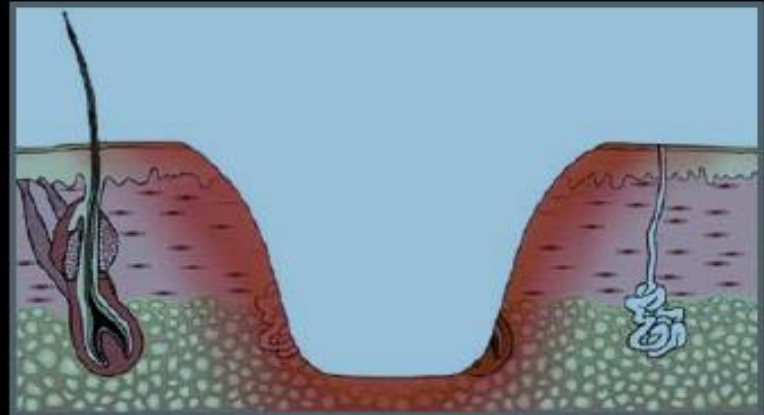


Heals rapidly from the **edges**,  
**cells of HF and glands.**

Heals quickly.

Doesn't need a skin graft.

**Deep**



Heals slowly from the **edges.**

Usually needs skin grafting.