Burns &its Management



Layers of the Skin

1-Epidermis :nonvascular outer layer of skin--thick as a sheet of paper.

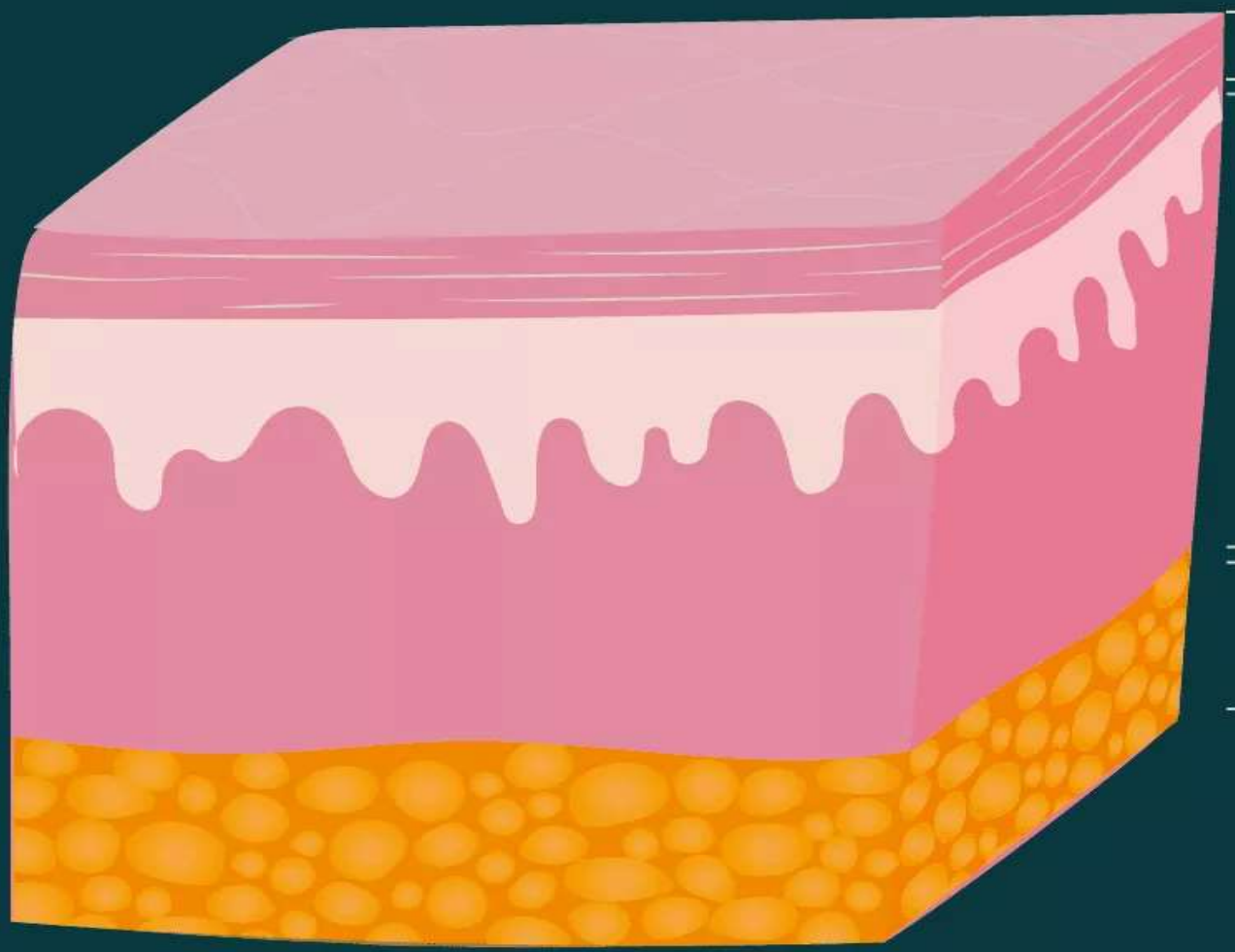
2-Dermis :30-45% thicker than epidermis. Consists of Connective tissue with blood vessels, hair follicles, nerve endings, sweat

glands, sebaceous glands.

3-Subcutaneous Tissue: Contains major vesicular networks, fat, nerves, and lymph .,Muscles



Layers of the Skin



Epidermis: Contains cells that produce pigment and protect immune system

Dermis: Contains nerve endings, oil and sweat glands, and hair follicles

Subcutaneous Tissue: Made up of fat, connective tissue, and larger blood vessels

verywell

Function of the Skin

1-Maintenance of body temperature

2-Prevents evaporative water loss

3-Produces vitamin D

4-Protection from invading organisms

5-Protection against the environment through the sensations of touch, pressure, and pain

6-Aesthetic appearance

Definition of Burn:

Burn : Is a type of injury to skin or other tissues caused by heat, chemicals, electrical and radiation

Risk factors

Older adults heals slower & has more difficulty with rehabilitation.

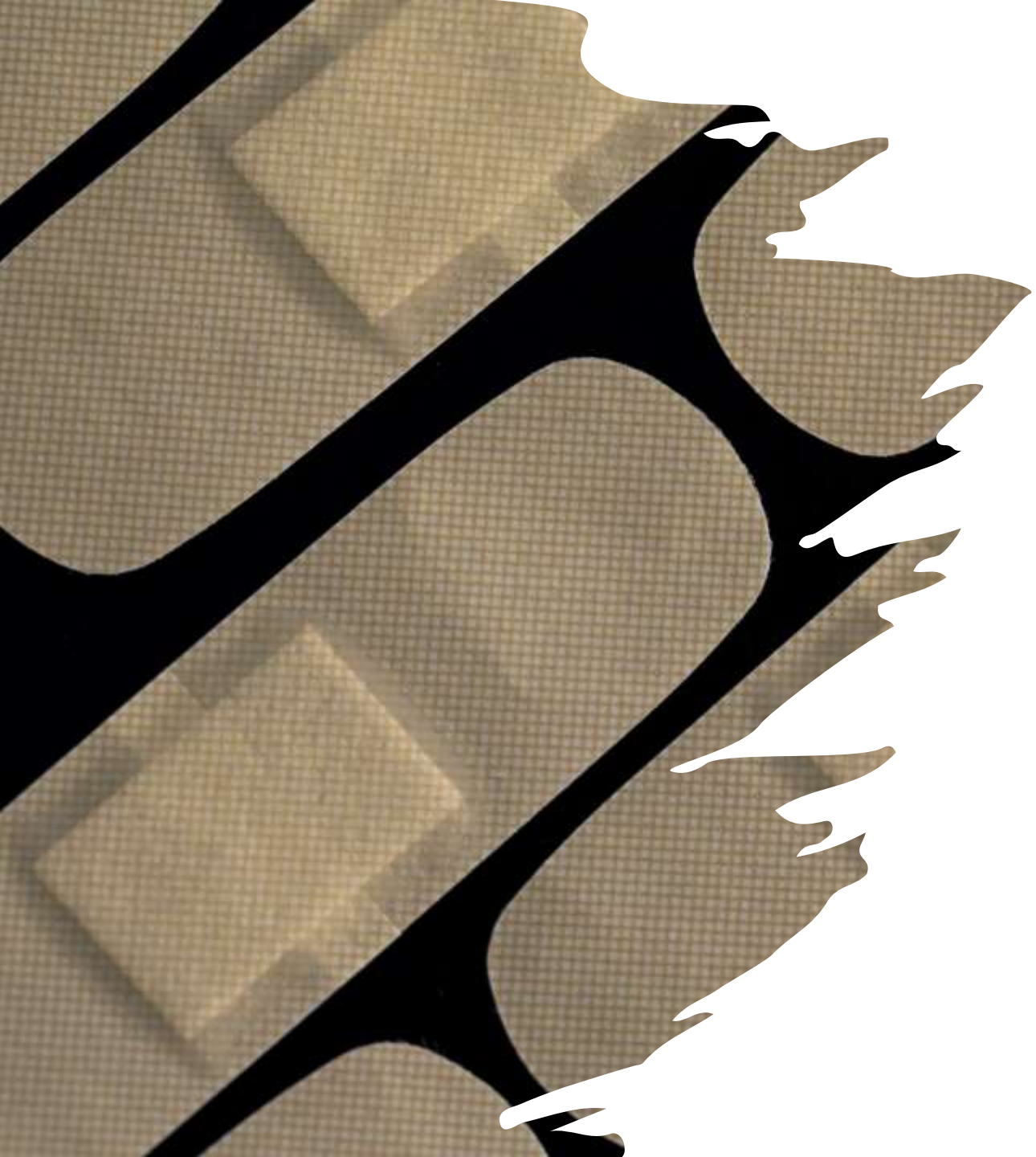
Common complications from burn are:

* ALL type of shock
* infection
* Deformity
* Septicemia



Types of burns OR cause of burns

1. Thermal: It is the most common type
2. That results from steam, dry heat (fire), wet ,heat (steam)
3. Chemical
4. Electrical shock
5. Radiation Such as Sun burn



Degree of Burn

First degree (superficial partial thickness)

Redness

pain

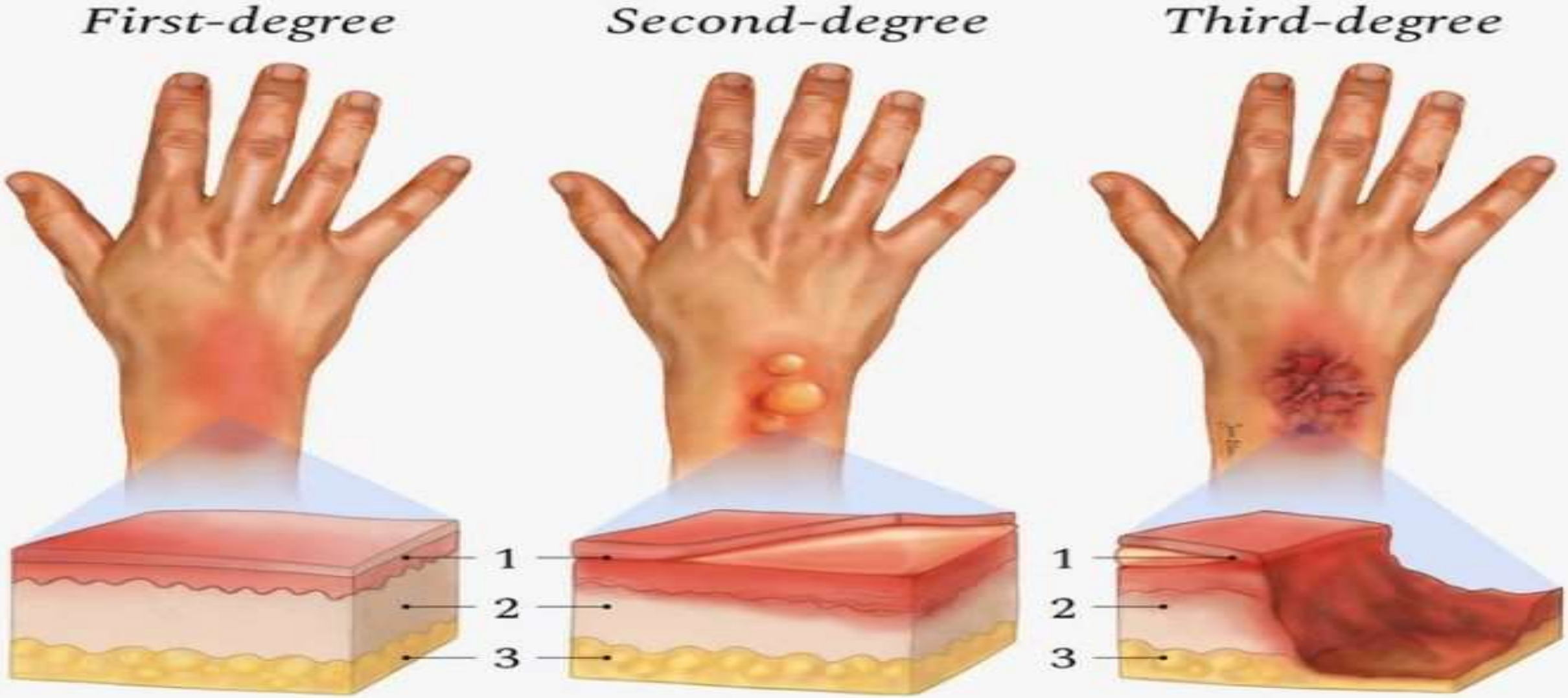
Second degree (Deep partial thickness)

Redness

pain

Blisters(plasma, protein)

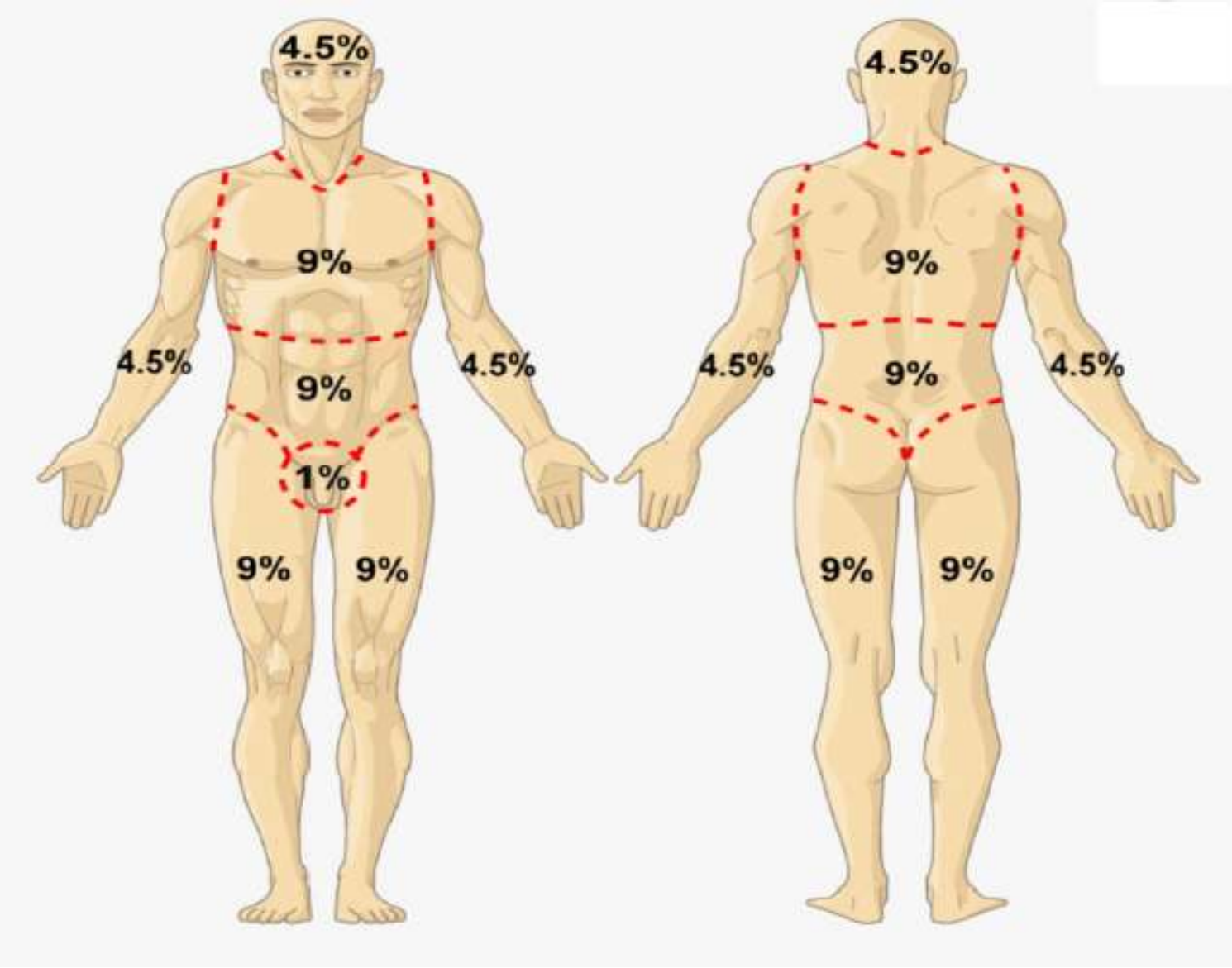
Third degree (full thickness) damage of all tissue loss of sensation



1. Dermis **2.** Epidermis **3.** Subcutaneous tissue

Rule of Nine (100%) Body surface area (BSA)

- Head & Neck= **9%**
- Chest (anterior & posterior) = **18%**
- Abdomen (anterior & posterior)= **18%**
- Upper Extremity(RT & LT)= **18%**
- Lower Extremity (RT & LT)= **36%**
- Pubic Symphysis (genital area) = **1%**
- Because of this area it is very rich of blood vessels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Medication

1- Analgesics and Sedatives IV pain meds initially

2- **Zantac amp**

3- Allermine amp

4- Tetanus immunizations.

5- Antimicrobial.

6- Drug of choice is: **Silver sulfadiazine** cream