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Wounds & Hygiene

1. Integumentary System

The skin is the largest organ and has many functions, including:

- **Protecting** against microorganisms
- **Regulating temperature** and preventing **moisture** loss; injuries, like burns, can impair this ability.
- Sensing **pain, pressure, and temperature**

2. Pressure Injuries

Pressure injuries = localized **damage** to the skin and/or underlying tissue caused by prolonged **pressure, friction, and/or shear**.

- Prolonged pressure → Tissue ischemia and **necrosis**
- ★ **Risk factors** include **impaired mobility**, frequent moisture exposure, and **decreased sensory perception** (TABLE 1).

★ TABLE 1. RISK FACTORS FOR PRESSURE INJURIES

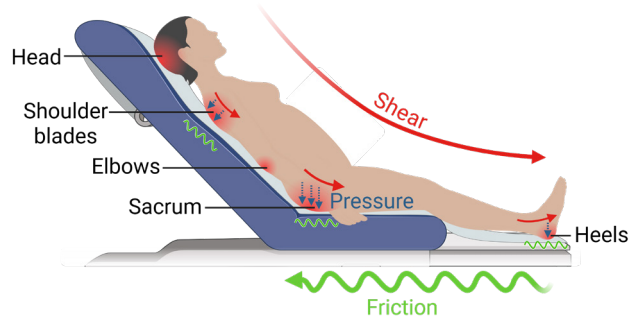
- ↓ **sensory perception** (neuropathy, paralysis)
- ↓ **mobility** (paraplegia, stroke)
- **Friction and shear**
- ↑ **moisture exposure** (incontinence)
- ↓ **nutrition**
- ↓ **perfusion** (peripheral vascular disease, diabetes mellitus)

Skin assessment

- Assess skin on **admission** and at **regular intervals** (e.g., Q4H).
- ★ Use the **Braden Scale** to assess pressure injury risk based on factors like mobility and nutrition (see TABLE 1).
 - Score range: 6 to 23 (↓ score = ↑ risk)
 - Score **<18 = at risk**.

- Inspect skin **under medical devices** and at **bony prominences** (sacrum, heels) where friction and shear injuries can occur (FIGURE 1).
- For clients with **darker skin**, assess for pressure injuries by comparing **temperature** and **blanching** of affected area to that of the surrounding skin.

FIGURE 1. PRESSURE POINTS



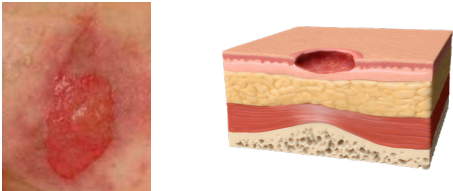
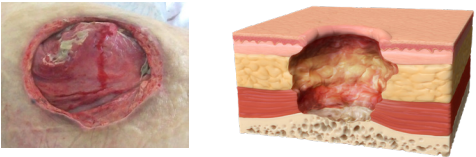
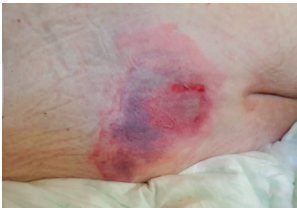
Pressure injury assessment

- Determine **stage** of pressure injury based on **extent** of tissue damage (TABLE 2).
 - ★ **Do not massage reddened areas**; this can cause further tissue injury.
- Document wound location, size, color, tissue involvement, and **drainage** (exudate).
 - **Serous**: Clear, watery
 - **Serosanguineous**: Pink or red-tinged
 - **Sanguineous**: Bright red = active **bleeding**.
 - **Purulent**: Thick, yellow, green = **infection**.
- ★ **Report signs of infection**.
 - **Purulent**, foul-smelling **drainage**, edema
 - **Fever, warmth, ↑ pain**

★ NCLEX Star Points

- 1 **Pressure injury risk**: Assess client risk for pressure injuries by using the **Braden Scale** (Score **<18 = at risk**). **Impaired mobility**, frequent **moisture exposure**, and **decreased sensory perception** are risk factors for pressure injuries.

2. Pressure Injuries, Continued

★ TABLE 2. TYPES OF PRESSURE INJURIES	
Type	Description
Stage 1 	★ Intact skin with non-blanchable redness
Stage 2 	• Partial-thickness loss with shallow wound or blister
Stage 3 	• Full-thickness loss with visible subcutaneous tissue
Stage 4 	• Full-thickness loss with exposed muscle, tendon, or bone
Unstageable 	• Full-thickness loss; slough and/or eschar obstruct wound visualization. • Slough = stringy yellow or white tissue. • Eschar = black, brown, or tan necrotic tissue. • Slough and eschar must be removed (debrided) to visualize and stage the wound bed.
Deep tissue pressure injury 	• Non-blanchable, dark discoloration (red or purple) that feels spongy or boggy

2. Pressure Injuries, Continued

Nursing interventions

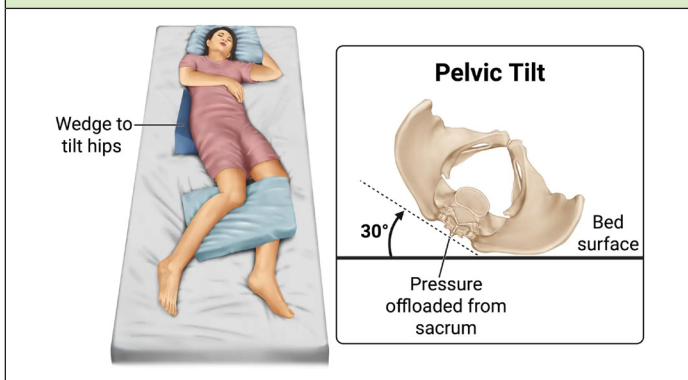
#1 priority = prevention of pressure injuries. Nursing care for pressure injury prevention focuses on:

1. **Repositioning** and **offloading** pressure
2. **Protecting** skin
3. Promoting **nutrition** and **hydration**

1. Reposition and offload pressure:

- ★ **Turn** immobile clients at least **every 2 hr.**
 - **Tilt:** Use a **30-degree lateral tilt** to ↓ pressure on bony prominences (trochanters, sacrum) (**FIGURE 2**).
 - **Lift**
 - ★ Elevate **HOB** to **≤30 degrees**.
 - ★ Use **pillows**, wedges, heel protectors, and **mattress overlays** (egg-crate).
 - Do not use donut cushions when seated; ↓ perfusion to the area.
 - Use **lifting devices** (draw sheet, mechanical lift).
 - **Do not drag** or **pull** client, which can cause friction and shear.

FIGURE 2. 30-DEGREE LATERAL TILT



2. Protect skin:

- Use **mild soap** and **warm water**, **not hot**.
- ★ For clients with **incontinence**, **keep skin dry**.
 - Use **absorbent pads** and **barrier creams**.
 - Immediately **change soiled linens**.
- **Apply moisturizer** to intact skin to prevent cracking.
- Apply **dressings** over wounds.

3. Promote **nutrition** and **hydration**:

- Encourage ↑ **protein** and **fluid** intake to promote repair.
- Monitor **weight** and **prealbumin levels** to assess for malnutrition.
- If pressure injury is present, consult a **wound care specialist** and **dietitian** to optimize healing.

3. Wound Care

Poor wound management → Infection, delayed healing, and life-threatening **complications**

Wound dressings

- Protect wounds and help maintain a **moist healing environment** while removing **excess** drainage or exudate as needed.
- Dressing type is selected based on **wound characteristics** (e.g., absorbent dressings for **draining** wounds, moist dressings for **dry** wounds) (**TABLE 3**).
- Perform wound **dressing change**.
 - ★ **Premedicate** with oral analgesics **30-45 min** before wound care.
 - Don appropriate **PPE**; wear gown, mask, and goggles when there is a risk of **splash** (wound irrigation).
 - **Remove old** dressing by **pulling tape toward** the center of the wound.
 - ★ Don clean gloves, **cleanse** wound with sterile saline, and clean from **center to edges (least to most contaminated)** (**FIGURE 3**).
 - **Do not use povidone-iodine** or **hydrogen peroxide** (cytotoxic).
 - Perform **wound irrigation** as needed using **sterile** technique.
 - Gently flush wound from **top to bottom** until fluid runs **clear** (**FIGURE 3**).
 - Apply new dressing.
- ★ **Report signs of infection** (e.g., **foul odor**, **purulent** drainage) and anticipate:
 - **Wound culture:** **Irrigate** or **clean** wound **before** collecting culture directly from the wound base.
 - **Antibiotics** as prescribed
 - Maintain wound **drains** to remove drainage from **surgical wounds** (**TABLE 4**).

★ NCLEX Star Points

② **Pressure injury stages:** **Stage 1** wounds have **non-blanchable** redness, and **stage 2** wounds have **partial-thickness** loss with a shallow wound or **blister**. **Stage 3** wounds have **visible subcutaneous** tissue, and **stage 4** wounds have **exposed muscle, tendon, or bone**.

③ **Pressure injury prevention:** To **prevent** pressure injuries and **offload pressure**, **turn** immobile clients **at least every 2 hours**, **lift HOB ≤30 degrees**, and **use pillows** and **wedges**. **Do not massage reddened areas**; this can cause further tissue damage.

3. Wound Care, Continued

TABLE 3. DRESSING TYPES

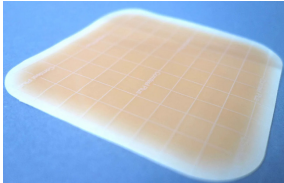
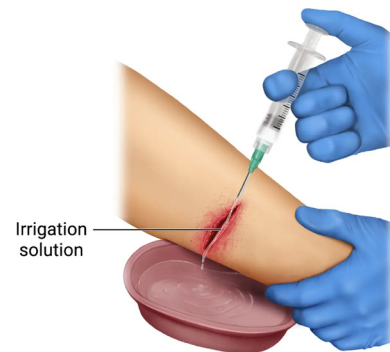
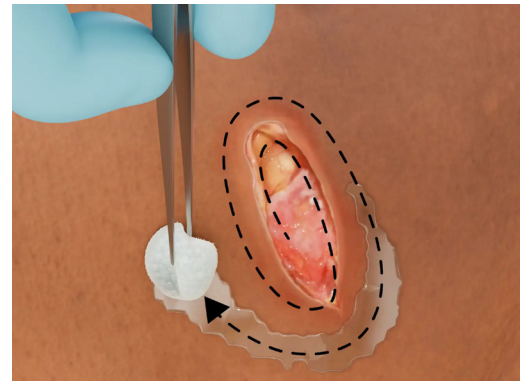
Dressing Type & Examples	Wound Type
Transparent film Protects wound and allows visualization 	Dry , superficial wounds (stage 1 pressure injuries)
Moist Maintains moisture for autolytic debridement Hydrocolloid, hydrogel 	Minimal drainage or dry wounds (necrotic, granulating wounds)
Absorbent Absorbs excessive drainage Foam, gauze, alginate 	Deep wounds with heavy drainage
Antimicrobial Accelerate healing Contains silver sulfadiazine, chlorhexidine	Infected wounds and burns

FIGURE 3. WOUND CLEANING & IRRIGATION



Using sterile technique, gently flush wound from **top to bottom** until fluid runs **clear**.

TABLE 4. COMMON WOUND DRAINS

Types: Jackson-Pratt, Hemovac



Nursing considerations

- **Compress drain reservoir** before sealing to maintain suction.
- Record **output** and notify HCP for **changes** in drainage **characteristics** or **amount**.

NCLEX Star Points

- ④ **Wound care:** Cleanse wounds from **least to most contaminated** areas—from **center** to **edges**. Report signs of **infection**, including **foul odor** and **purulent** drainage.

4. Hygiene

Proper hygiene helps remove microorganisms and secretions to maintain **skin integrity** and **prevent infection**.

Bathing

- ★ Ensure a **comfortable temperature** and **privacy** (close curtains) before bathing.
- ★ Use **warm water, not hot water**.
- ★ Wash body from **clean to dirty** (head to toes), including in skin folds and under devices (SCDs).
- ★ **Pat skin dry**, especially in **skin folds** (axillae, under breasts).
- Apply **lotion**; do **not** apply **between toes** (↑ infection risk).
- Ask about grooming practices; do **not trim** hair **without permission**.

Perineal care

- Use a **clean wipe** or clean part of the wipe for **each stroke**.
- **Females**: Separate labia and clean **front to back** to prevent UTIs.
- **Males**: Clean in a **circular motion** from urethra to glans (from center outward).
 - **Uncircumcised**: Retract, clean, and return foreskin to prevent **constriction**.

Foot and nail care

- ★ Trim nails **straight across** to prevent ingrown nails.
- Perform specialized foot and nail care for clients with **peripheral vascular disease** or **diabetes mellitus** due to ↑ risk for foot injury and infection (**TABLE 5**).

TABLE 5. SPECIALIZED FOOT AND NAIL CARE

- **Inspect** feet **daily**.
- **Dry** feet thoroughly.
- ★ **Do not soak** feet in water or apply lotion **between toes**.
- **Do not trim** toenails without an HCP order due to risk for **client injury**.

Oral care

- ★ Place client in **semi-Fowler** position during oral care to ↓ **aspiration risk**.
- For clients with:
 - ↑ **bleeding risk** (taking anticoagulants): Use a **soft-bristle** toothbrush.
- ★ **Ventilators**: Provide oral care with **chlorhexidine** to ↓ risk of ventilator-associated **pneumonia**.
- **Radiation and chemotherapy treatments**: Provide **frequent oral care** and monitor for signs of **mucositis** (redness, mouth pain).
- **Dentures**: Clean **daily** and store in water in a **labeled container** to prevent accidental disposal.
- **Do not** let children take **milk or juice to bed**, as it can ↑ risk for dental caries.

5. Postmortem Care

After a client's death, the nurse should provide culturally sensitive care while **preparing the body** for viewing and transport.

- Provide **emotional support** to the client's family and allow them time to view the body.
- ★ Respect **religious** and **cultural preferences** and ask family if they wish to **participate** in postmortem care.
- **Report death** to the appropriate **organ donation** agency or staff, if applicable.
- To prepare body:
 - Position **supine** with head on a pillow to prevent skin discoloration.
 - **Remove** medical **equipment** per agency policy.
 - Gently clean the body, **close eyes**, brush hair, insert dentures (if applicable), and cover with a sheet.
- Apply **identification tags** before transporting the body.

NCLEX Star Points

- ⑤ **Hygiene**: Wash body from **clean to dirty** (head to toes) and **pat skin dry**, especially in **skin folds** (axillae, perineum).

NCLEX Top 5 Targets

- ① Assess a client's risk of pressure injury using the _____ scale; a score of < _____ indicates increased risk. What are three major risk factors for a pressure injury?
- ② What are the characteristics of a stage 1 pressure injury? A stage 2 pressure injury? What tissue is visible in a stage 3 pressure injury? A stage 4 pressure injury?
- ③ To prevent pressure injuries and offload pressure, turn immobile clients at least every _____ hours, lift HOB ≤ _____ degrees, and use pillows and _____. The nurse should massage reddened areas to promote circulation (True or False?).
- ④ When cleansing a wound, clean from the wound edges to the center (True or False?). What are two signs of a wound infection?
- ⑤ Wash the client's body from _____ to _____ and pat skin _____, especially in skin _____.

Answers: 1. Braden, 18; Impaired mobility, decreased sensory perception, and frequent moisture exposure 2. Stage 1: Non-blanchable redness; Stage 2: Partial-thickness loss with a shallow wound or blister; Stage 3: Visible subcutaneous tissue; Stage 4: Exposed muscle, tendon, or bone 3. 2, 30, wedges; False: This can cause tissue breakdown. 4. False: Cleanse from center to the edges (from least to most contaminated areas); Foul odor and purulent drainage. 5. clean, dirty, dry, folds

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