

● INTEGUMENTARY · PERIOPERATIVE · INFECTION CONTROL

# Wound *Care*

A high-yield visual review of wound classification, healing phases, dressing technique, drain management and priority safety rules — aligned to the NGN NCLEX 2026 Test Plan and the NCSBN Clinical Judgment Measurement Model.

18

HIGH-YIELD FACTS

NGN NCLEX · 2026

REVIEW CARD · WOUND CARE

*Day 7*

SUTURE REMOVAL

*1 in*

ADVANCE PENROSE

*Inside → Out*

CLEANSING FLOW

*Dark ·  
Warm ·  
Moist*

BACTERIAL TRIAD

## 01 — Definition & Overview

WOUND VOCABULARY

Disrupted tissue integrity demands *meticulous, sterile, and stepwise* nursing care.

A **wound** is any break in the integrity of skin or underlying tissue. Nursing priorities center on three goals: **protect from infection**, **promote healing**, and **preserve function**.

*Contusion*

A **bruise** — closed, internal injury from blunt force. No skin break.

*Laceration*

A **cut** — open wound with torn/jagged tissue edges.

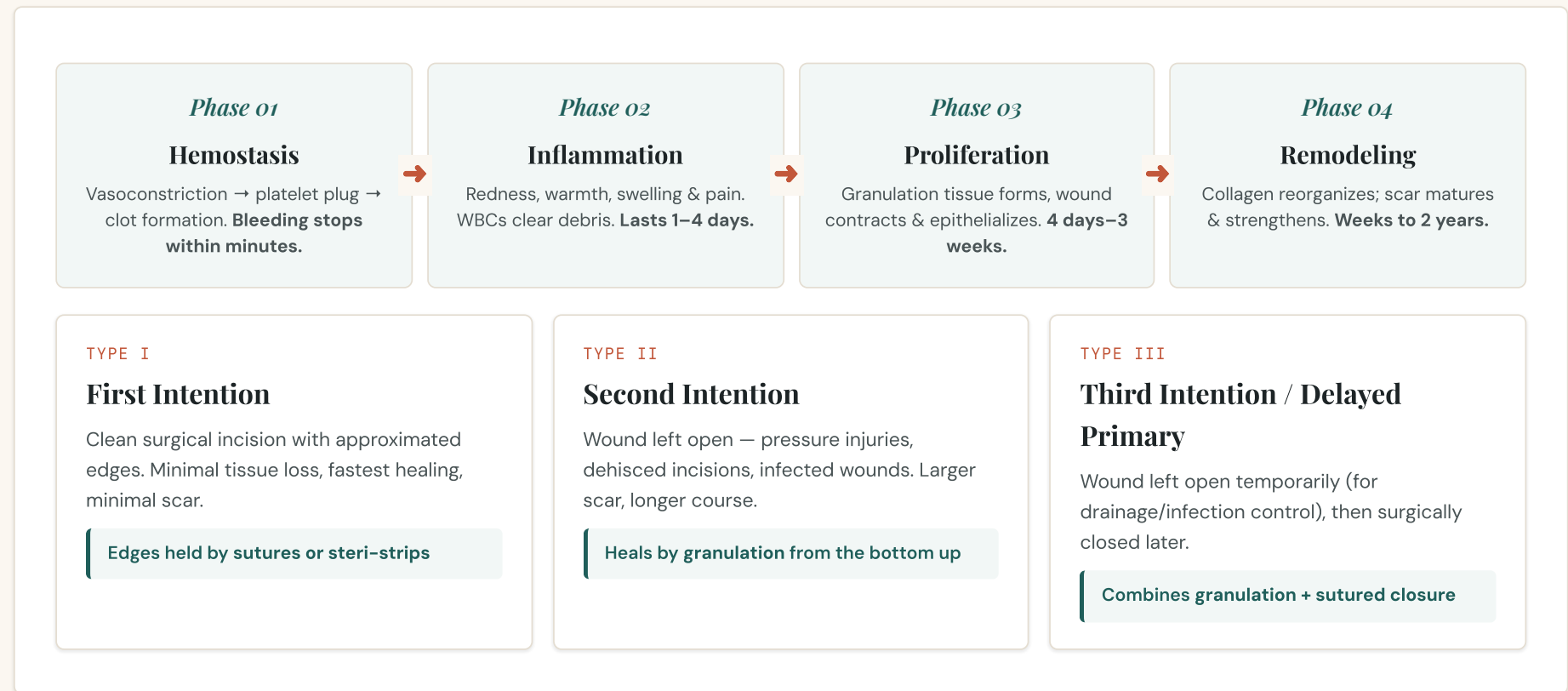
Healing is threatened anywhere bacteria can thrive — in **dark, warm, moist** spaces. Every dressing, drain, and cleansing decision is really a decision to eliminate those three conditions.

Wound care questions test **sequence, direction, and technique** — not just anatomy.

**Debridement** Removal of necrotic tissue from a wound bed — required for healing.

## 02 — Pathophysiology — Phases of Wound Healing

SIMPLIFIED MECHANISM



## 03 — Signs & Symptoms

HEALING VS. COMPLICATION

### ✓ Healthy Healing

- **Red, beefy granulation tissue** in the wound bed
- Wound **edges approximated**, intact sutures/steri-strips
- **Mild serous drainage** (clear/pale yellow) that decreases daily
- Decreasing redness, warmth, and swelling after day 3–5
- Pain trending down; **patient afebrile**
- WBC count returning to normal range

### ✖ RED FLAGS — Infection & Complication

- **Purulent drainage** (yellow / green / foul-smelling)
- Increased **redness, warmth, induration** around wound
- **Fever > 100.4°F (38°C)** & elevated WBCs
- **Dehiscence** — wound edges separate
- **Evisceration** — viscera protrude ✖ *surgical emergency*
- **Sudden “popping” sensation** or gush of drainage (suspect dehiscence)
- Saturated dressing → bacteria wick inward via **capillary action**

If **evisceration** occurs: cover with **sterile saline-moistened gauze**, low-Fowler's with knees bent, NPO, call surgeon STAT.

*Do not push organs back in.*

## 04 — Priority Nursing Interventions

ABC · SAFETY · ASEPSIS

**A**

Airway — evisceration = NPO

**B**

Bleeding — pressure first

**C**

Circulation / perfusion to wound

**S**

Sterile technique &amp; safety

### DRESSING CHANGE — PRIORITY SEQUENCE **in order**

**1**

#### REMOVE CONTAMINATED DRESSING WITH CLEAN GLOVES

Pull tape **toward the wound** to protect fragile skin and prevent dehiscence.

2

## WASH HANDS & APPLY STERILE GLOVES

This is the very **first action after removing a contaminated dressing** — before touching the wound.

3

## CLEANSE FROM INCISION OUTWARD

Start **at the incision** and move **outward in concentric circles** — clean to dirty, one stroke per gauze.

4

## APPLY PROTECTANT → FRESH STERILE DRESSING

Tincture of benzoin is applied to surrounding skin **before tape** to protect skin and improve adhesion.

5

## DOCUMENT & AVOID MEALTIME CHANGES

Mealtime is a **bad time** to change dressings — odors and sights decrease appetite.

### WOUND CLEANSING & IRRIGATION direction matters

- Clean → dirty: start at incision, move outward
- Use a **new gauze for each stroke** — never retrace
- Irrigate with 0.9% normal saline at **low pressure** (avoid driving bacteria deeper)
- Patient positioned so fluid **flows from clean area into a collection basin**
- Document wound bed color, drainage, odor, size & tissue type

### OPEN-TO-AIR RULE when appropriate

- Leaving a wound open to air **decreases infection**
- It eliminates the bacterial triad: **dark, warm, and moist**
- Appropriate for clean, dry, granulating wounds — not exudating or draining wounds
- For protected wounds, an **occlusive dressing** creates an **airtight, watertight seal** that blocks microbes from entering

### MONTGOMERY STRAPS frequent dressing changes

- Let the nurse **remove and replace dressings without tape**
- **Protects skin** from repeated tape trauma
- Ideal for abdominal wounds, drains, and large exuding wounds that need daily care

### SUTURES & STAPLES timing

- Sutures are generally removed by day 7
- Facial sutures: earlier (3–5 days) to minimize scarring
- Joint / high-tension areas: later (10–14 days)

- Tie ends together over the dressing; retie for each change

- Assess approximation before removal — if edges gap, notify HCP

## WOUND DRAINS & THE PENROSE PULL

advance 1 inch



*Penrose drain · soft, passive, radiopaque rubber tube*

PULL OUT 1 INCH · CUT THE EXCESS · NEVER ADVANCE WITHOUT ORDER

## 05 — Pharmacology & Topical Agents

HIGH-YIELD PRODUCTS

### TINCTURE OF BENZOIN skin protectant

**Use:** applied to intact skin **before tape** to protect and improve adhesion.

- Allow to **dry fully** before applying tape
- Keep **off the wound bed itself**
- Assess for skin sensitivity / allergy

### 0.9% NORMAL SALINE irrigant of choice

**Use:** cleansing and irrigation — isotonic, non-cytotoxic to granulating tissue.

- Used at **low pressure** to avoid tissue damage
- Warm to room temperature for comfort and vasodilation
- Preferred over antiseptics, which can impair granulation

### TOPICAL ANTIMICROBIALS infected wounds

**Examples:** silver sulfadiazine, bacitracin, mupirocin.

- Apply using **sterile technique**
- Thin layer — not packed into the wound
- Monitor for **hypersensitivity** & signs of systemic absorption (esp. large wounds)

## 06 — NCLEX Test Traps

WHERE STUDENTS LOSE POINTS



**Trap #1 — Tape direction.** Many students pull tape *away* from the wound, thinking it is gentler. It is not.

~~Pull tape away from wound~~ → Pull tape TOWARD the wound — protects skin and suture line.



**Trap #2 — Cleansing direction.** The stem may bait you with “sterile site first.”

~~Clean from outer skin toward incision~~ → Always clean FROM the incision OUTWARD (clean → dirty).



**Trap #3 — First action after removing a contaminated dressing.** The test loves “what first.”

~~Inspect wound / call HCP / document~~ → WASH HANDS and apply STERILE GLOVES first.



**Trap #4 — Penrose drain management.** Distractors suggest leaving the whole drain in place or removing it entirely.

~~Remove drain completely / leave untouched~~ → Advance 1 inch, then cut off the excess.



**Trap #5 — Saturated dressing assumption.** Students assume a saturated dressing is still a barrier.

~~“It’s a dressing, so it is protecting the wound”~~ → Saturation allows bacteria to reach the wound via CAPILLARY ACTION — change immediately.



**Trap #6 — Contusion vs. laceration.** Easy confusion on terminology items.

Contusion = bruise (closed) · Laceration = cut (open)

## 07 — Patient Education

HOME &amp; DISCHARGE TEACHING

### HAND HYGIENE FIRST

Wash hands with soap & water before and after every dressing change. Keep supplies on a clean, flat surface.

### WATCH FOR INFECTION

Report redness spreading beyond wound edges, purulent drainage, foul odor, fever > 100.4°F, or increasing pain.

### KEEP THE WOUND DRY (UNLESS ORDERED OTHERWISE)

Most surgical incisions stay covered 24–48 hours. Pat — do not rub — when showering is allowed.

### NUTRITION PROMOTES HEALING

Encourage **protein, vitamin C, zinc, and adequate fluids**. Control blood sugar in diabetic patients.

### DON'T PICK, PULL, OR SOAK

Do not pull off scabs, soak in a bathtub, or apply ointments/powders unless prescribed.

### SPLINT & PROTECT

For abdominal/chest incisions, splint the wound with a pillow when coughing, sneezing, or moving — prevents dehiscence.

### NO SMOKING

Nicotine causes vasoconstriction and slows wound healing dramatically.

### KEEP APPOINTMENTS

Sutures typically come out **by day 7**. Do not skip follow-up — delayed removal causes tracking and scarring.

### WHEN TO CALL 911

Sudden wound separation with visible organs (evisceration), heavy bleeding not controlled by pressure, or signs of sepsis.

## 08 — Memory Boosters & Mnemonics

PATTERN RECOGNITION

### **RYB** Wound Bed Colors

A classic NCLEX color-coded wound assessment tool.

**R** **Red** — healthy granulation. Gently cleanse & cover.

**Y** **Yellow** — slough & exudate. Cleanse and absorb drainage.

**B** **Black** — eschar / necrotic. **Debride** (usually).

### **TIME** Wound bed prep

Framework for wound assessment & prep for healing.

**T** **Tissue** — viable? Debride if necrotic.

**I** **Infection / inflammation** — identify & treat.

**M** **Moisture balance** — neither too wet nor too dry.

**E** **Edges** — non-advancing or undermined? Reassess.

## DAMP What bacteria love

Conditions we *eliminate* by open-to-air / occlusive technique.

- D** Dark — no light
- A** Airless — limited oxygen
- M** Moist — fluid buildup
- P** Warm (temp) — body heat

## CLEAN Dressing priorities

Order-of-operations reminder.

- C** Contaminated dressing off with clean gloves
- L** Lather hands, don sterile gloves
- E** Examine wound — color, drainage, edges
- A** Apply saline cleansing **inside→outside**
- N** New sterile dressing → document

Quick-recall pairs → Contusion = bruise · Laceration = cut · Debridement = dead tissue out

*Inside → Outside · Clean → Dirty*

# 09 — Clinical Judgment — NCJMM Applied

NGN · LAYERED THINKING

## A 62-year-old post-op day 4 abdominal surgery patient

Case applied through the NCSBN Clinical Judgment Measurement Model.

**Scenario** • The patient reports a sudden “popping” sensation after coughing. The abdominal dressing is now saturated with serosanguinous fluid. Vital signs: HR 108, BP 118/74, RR 22, T 99.8°F. The wound bed is visible through separated skin edges.

### RECOGNIZE CUES

#### See

Popping sensation, saturated dressing, serosanguinous drainage, tachycardia, visible wound separation → signs of **dehiscence**.

### ANALYZE / PRIORITIZE

#### Think

Risk of progression to **evisceration**; saturated dressing = infection risk by **capillary action**. Safety & sterility are now priorities.

### GENERATE & TAKE ACTION

#### Act

Stay with patient, call surgeon, position **low-Fowler's with knees bent**, cover with **sterile saline-**

### EVALUATE OUTCOMES

#### Check

Reassess VS, pain, bleeding, wound appearance. Did dressing stay moist & sterile? Was surgeon

**moistened gauze**, NPO, monitor VS,  
prepare for OR.

notified? Is patient stabilized pre-  
transport?