

Integumentary · Oncology

Skin Cancers — All Types

Basal Cell · Squamous Cell · Melanoma · Actinic Keratosis. Recognition, prioritization, prevention, and clinical judgment for the NGN NCLEX 2026 test plan.

DIANE'S NGN NCLEX 2026 STUDY SERIES



OVERVIEW

Definition & Why It Matters

- ▶ **Skin cancer** = abnormal proliferation of skin cells, most often triggered by **cumulative UV radiation** (sun + tanning beds).
- ▶ **Most common cancer** in the United States — but with the **highest cure rate when caught early**. The nurse's role in screening, teaching, and early recognition is central.
- ▶ **Three main types** (BCC, SCC, melanoma) plus a precancerous lesion (actinic keratosis). They differ in **appearance, aggressiveness, and metastatic potential** — and that's the heart of NCLEX prioritization.

BCC

Most common · Slow-growing
· Rarely metastasizes · Local destruction

SCC

2nd most common · Faster-growing · Can metastasize · Often arises from AK

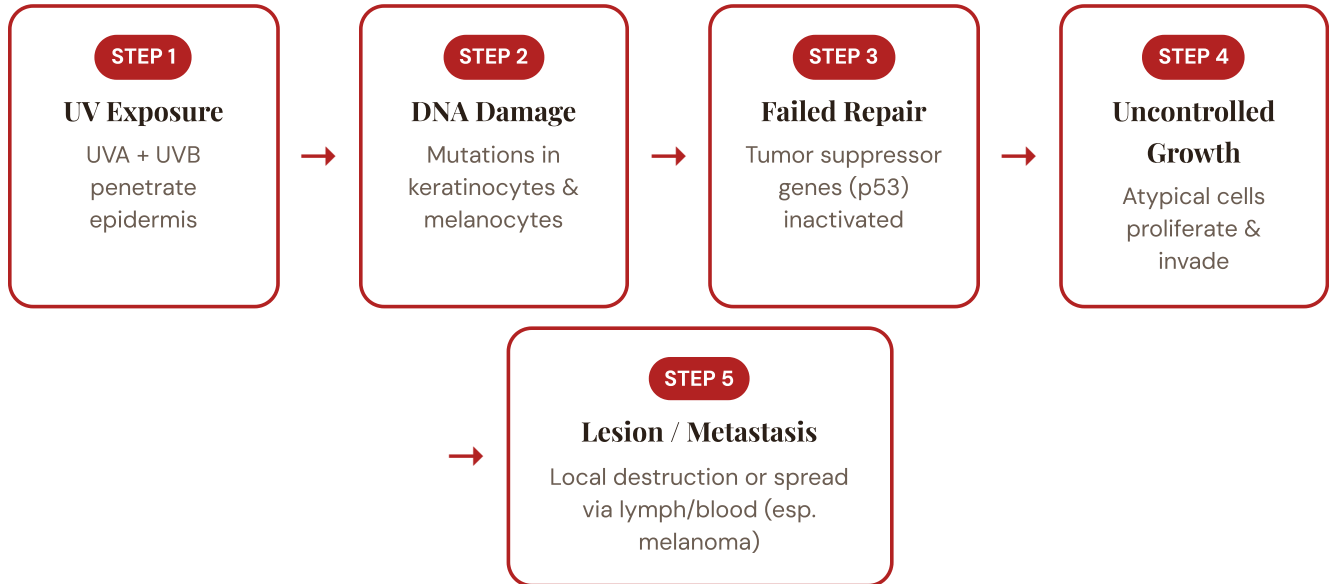
Melanoma

Most deadly · Arises from melanocytes · High metastatic potential · Lowest cure rate when late

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PATHOPHYSIOLOGY

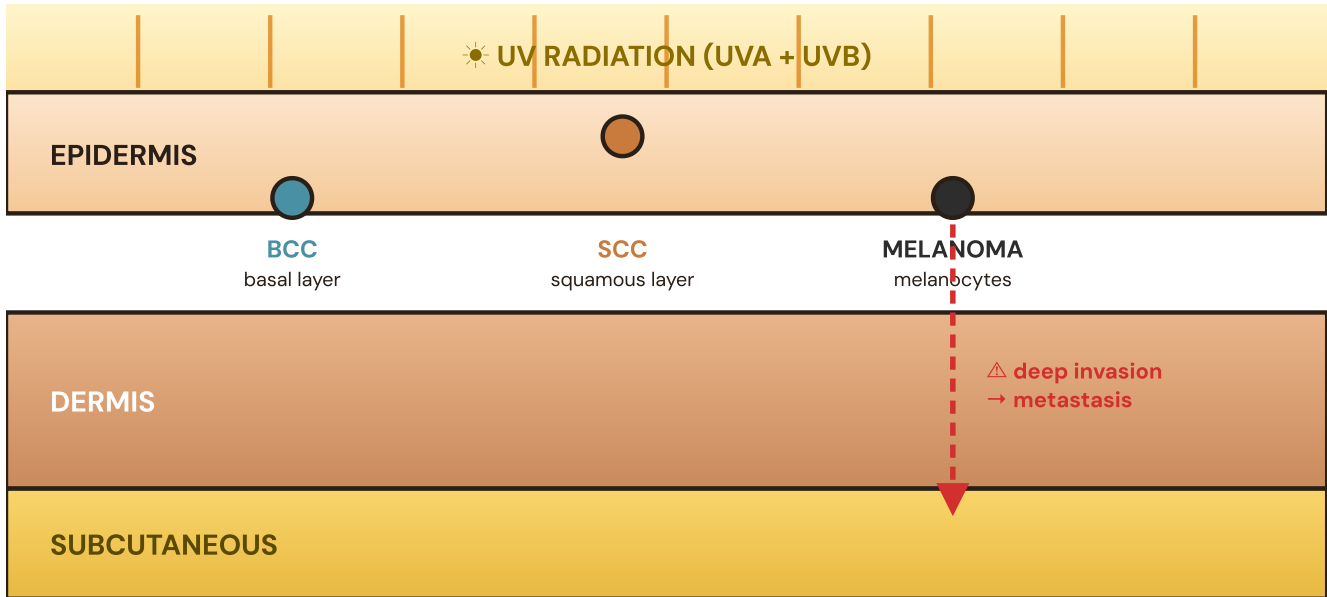
UV Damage → Mutation → Cancer



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TYPE COMPARISON

The Four Lesions You Must Recognize



BASAL CELL CARCINOMA

BCC — "Pearly & Polite"

Most common (~80%)

Rare metastasis

Highly curable

- **Pearly, waxy, translucent** papule or nodule
- **Telangiectasias** (visible tiny blood vessels) on surface
- Central depression or rolled border, may ulcerate ("rodent ulcer")
- Sun-exposed areas — face, nose, ears, neck, scalp
- Slow growth; locally destructive but rarely spreads

SQUAMOUS CELL CARCINOMA

SCC — "Scaly & Sneaky"

2nd most common

Can metastasize

Faster-growing

- **Rough, scaly, red, firm** nodule or plaque
- May **ulcerate, crust, or bleed**; non-healing sore
- Often arises from **actinic keratosis** (precancer)
- Sun-exposed areas: lips, ears, hands, scalp; mucous membranes
- Higher metastatic risk on lips, ears, immunocompromised pts

MALIGNANT MELANOMA

Melanoma — "Mean & Mortal"



Deadliest skin cancer

Metastasizes early

ACTINIC KERATOSIS

AK — "Pre-Cancer Warning"

PRECANCEROUS

Can → SCC

Treat early

Arises from melanocytes

- **Asymmetric, irregularly bordered, multi-colored** mole or new lesion
- May arise from existing nevus or appear as new pigmented lesion
- Can develop **anywhere** — including soles, palms, under nails, mucosa
- Spreads via **lymph & blood** → lung, liver, brain, bone
- **Depth (Breslow)** = strongest prognostic factor

- **Rough, scaly, sandpaper-like** patches on sun-exposed skin
- Pink, red, or skin-colored; often felt before seen
- Common on face, scalp (bald), ears, forearms, dorsal hands
- Treat with **cryotherapy, topical 5-FU, imiquimod**
- Considered a **marker of significant UV damage**

🔍 **ABCDE of Melanoma — The Self-Exam Rule**

A	B	C	D	E
Asymmetry	Border	Color	Diameter	Evolving
One half doesn't match the other	Irregular, ragged, blurred	Multiple shades — brown, black, red, white, blue	> 6 mm (pencil eraser)	Changing in size, shape, color, or sensation

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RECOGNITION CUES

Early Findings vs. Red Flags

Early / Local Findings

- New skin lesion or change in an existing mole
- Pearly, waxy bump (BCC) or scaly red patch (SCC)
- Sandpaper-like rough patch (AK)
- Itching, tingling, mild tenderness of a mole
- Sore that won't heal in 4+ weeks
- Small ulceration or crusting on a lesion

Late / Red Flag Findings 🚩

- 🚩 Bleeding or oozing lesion
- 🚩 ABCDE-positive mole — asymmetric, multi-color, > 6 mm, evolving
- 🚩 New pigmented streak under fingernail/toenail (subungual melanoma)
- 🚩 Lymphadenopathy near lesion site
- 🚩 Unintentional weight loss, fatigue, bone pain (metastasis)
- 🚩 Neurologic changes, dyspnea, hepatomegaly (advanced spread)

⚠️ High-Yield Risk Factors

Fair skin / light eyes / red or blond hair

History of blistering sunburns

Tanning bed use

Chronic sun exposure (outdoor workers)

Family or personal history of skin cancer

Immunosuppression (transplant, HIV)

Multiple or atypical moles (> 50)

Older age

Arsenic / chemical exposure

Prior radiation therapy

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PRIORITY NURSING ACTIONS

ABC + Safety + Wound & Surgical Care

A Assess

- ✓ Full-body skin assessment — head-to-toe, including scalp, soles, between toes, nails
- ✓ Apply ABCDE criteria to every suspicious lesion
- ✓ Photograph lesions for tracking
- ✓ Palpate regional lymph nodes
- ✓ Assess pain, drainage, signs of infection at biopsy/excision sites

B Biopsy & Surgical Care

- ✓ Prepare client for biopsy, wide excision, or **Mohs surgery** (tissue-sparing for face)
- ✓ Post-op: keep dressing clean, dry, intact for 24–48 h
- ✓ Monitor for bleeding, hematoma, infection
- ✓ Sutures generally removed by **day 7**; pull tape **toward the wound**
- ✓ Sentinel lymph node biopsy may be ordered for melanoma staging

C Counsel & Coordinate

- ✓ Provide emotional support — cancer dx is psychologically heavy
- ✓ Reinforce sun-safe behavior & monthly self-skin exams
- ✓ Coordinate referrals: dermatology, oncology, plastic surgery
- ✓ Discuss treatment plan: cryotherapy, topical chemo, radiation, immunotherapy
- ✓ Support body image concerns after facial/visible excisions

- ▶ **Wound care priorities:** assess for infection (warmth, redness, purulence), keep edges approximated, no constrictive dressings.
- ▶ **Topical chemo (5-FU, imiquimod):** wear gloves to apply, expect redness/inflammation as therapeutic response, avoid sun exposure to treated area.
- ▶ **Post-cryotherapy:** blistering and scab formation are expected; do not pick or peel; healing 1–3 weeks.
- ▶ **Melanoma post-op:** monitor for lymphedema if lymph node dissection performed; elevate affected limb.

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PHARMACOLOGY

Skin Cancer Treatments at a Glance

Drug / Therapy	Class & Use	Mechanism	Key Side Effects & Nursing
5-Fluorouracil (5-FU) topical	Topical antineoplastic — AK, superficial BCC	Blocks DNA synthesis in rapidly dividing cells	Severe local redness, crusting, erosion (expected response). Wear gloves; avoid sun; not in pregnancy.
Imiquimod (Aldara)	Topical immune modulator — AK, superficial BCC	Stimulates local immune response against tumor cells	Redness, scabbing, flu-like symptoms. Apply at bedtime, wash off in AM.
Interferon alfa-2b	Immunotherapy — high-risk melanoma adjuvant	Boosts immune surveillance against tumor cells	Flu-like symptoms, fatigue, depression, ↓ WBC. Monitor CBC, LFTs, mood.
Pembrolizumab / Nivolumab	PD-1 checkpoint inhibitors — advanced melanoma	Releases immune system "brakes" → T-cells attack tumor	Immune-related AEs: pneumonitis, colitis, hepatitis, endocrinopathies. Report cough, diarrhea, jaundice.
Ipilimumab	CTLA-4 checkpoint inhibitor — melanoma	Activates T-cell anti-tumor response	High risk of severe colitis, dermatitis, hepatitis. Monitor stools, LFTs.
Vemurafenib / Dabrafenib	BRAF inhibitors — BRAF-mutated melanoma	Blocks mutated BRAF kinase driving tumor growth	Photosensitivity, rash, arthralgia, ↑ skin SCCs. Strict sun protection.
Dacarbazine (DTIC)	Alkylating chemo — metastatic melanoma	Damages tumor DNA	Flu-like symptoms , N/V, myelosuppression. Vesicant — central line preferred.
Cryotherapy (liquid N₂)	Procedure — AK, small BCC	Freezes & destroys atypical cells	Blister, scab, hypopigmentation. Keep clean & dry; do not pick scab.
Radiation therapy	Adjunct or primary — non-surgical candidates	Ionizing radiation damages tumor DNA	Skin: pruritis, erythema, sloughing. Plain water only, no soap/lotions w/ metals (zinc oxide), no powder, can use cornstarch.

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NCLEX TEST TRAPS

Wrong vs. Right Thinking ⚠️

⚠️ THE TRAP

"All skin cancers look the same — any new spot is melanoma."

✓ THE TRUTH

BCC = pearly waxy with telangiectasias. SCC = scaly red firm with crust. Melanoma = ABCDE-positive pigmented lesion. AK = sandpaper rough patch. **Recognize the description.**

⚠️ THE TRAP

"A small mole that hasn't changed in years can't be cancer."

✓ THE TRUTH

The **"E" in ABCDE — Evolving** — is the most important. *Any* change in size, shape, color, or sensation requires evaluation, even in a long-standing mole.

⚠️ THE TRAP

"Topical 5-FU is causing a severe reaction — stop the medication."

✓ THE TRUTH

Redness, crusting, and erosion with 5-FU are **the expected therapeutic response** — that's the drug working. Teach the client this is normal; do not discontinue without provider direction.

⚠️ THE TRAP

"Sunscreen is only needed at the beach or on hot, sunny days."

✓ THE TRUTH

UV penetrates clouds, snow, glass, and water. Sunscreen SPF 30+ is needed **year-round, every day**, even on overcast days and in cars.

⚠️ THE TRAP

"Tanning beds are safer than the sun because the exposure is controlled."

✓ THE TRUTH

Tanning beds emit concentrated UVA — they are a **Group 1 carcinogen** (same category as tobacco). Use before age 35 sharply increases melanoma risk.

⚠️ THE TRAP

"Dark-skinned clients don't need to worry about skin cancer."

✓ THE TRUTH

Skin cancer is less common in darker skin tones **but more deadly when found** — often diagnosed late. Acral lentiginous melanoma appears on palms, soles, under nails. **Teach all clients to self-examine.**

⚠️ THE TRAP

"After radiation therapy, the client should apply zinc-oxide cream and powder to soothe the skin."

✓ THE TRUTH

NO ointments with metals (zinc oxide), NO talcum powder. Use plain water only, no soaps,

pat dry. Cornstarch is acceptable for itch.

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PATIENT & FAMILY EDUCATION

Sun-Safe Living & Self-Surveillance

Sun Protection

- Apply broad-spectrum SPF 30+ sunscreen daily, year-round
- Reapply every 2 hours and after swimming/sweating
- Avoid sun 10 AM – 4 PM (peak UV)
- Wear wide-brim hats, UPF clothing, UV-blocking sunglasses
- Seek shade; UV reflects off water, sand, snow
- NEVER use tanning beds — Group 1 carcinogen

Self-Skin Exam (Monthly)

- Examine in well-lit room with full-length and hand mirror
- Check all areas: scalp, face, ears, back, soles, between toes, under nails, genitals
- Use ABCDE on every mole
- Photograph suspicious lesions for tracking
- Report any new, changing, bleeding, or non-healing lesion
- Annual full-body dermatology exam (more often if high-risk)

Treatment & Recovery

- Topical chemo: redness/crusting is expected — do not stop
- Wear gloves applying topical agents; avoid sun on treated areas
- Post-excision: keep dressing clean, dry, intact; report bleeding/infection
- Sutures out by day 7; pull tape *toward* the wound
- Avoid tight clothing over surgical site
- Attend all follow-up appointments — recurrence risk is real

Family & Lifestyle

- Teach children sun safety early — sunburns in childhood double melanoma risk
- Family members of melanoma pts should screen annually
- Maintain hydration & nutrition; vitamin D from diet/supplements (not sun)
- Avoid known carcinogens (arsenic in well water, occupational chemicals)
- Connect with cancer support groups for emotional coping
- Never share razors over a lesion — bleeding risk

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MEMORY ANCHORS

Mnemonics & Pattern Recognition

A · B · C · D · E

Asymmetry · **B**order irregular · **C**olor varied · **D**iameter > 6 mm · **E**volving — the melanoma self-exam rule.

"BCC = Pearly · SCC = Scaly · Mel = Multi-color"

Three lesions, three textures: **P**early (BCC) — **S**caly (SCC) — **M**ulti-color (melanoma). Match the description to the diagnosis.

"S · L · I · P · S · L · O · P · S · L · A · P"

SLIP on a shirt · **SLOP** on sunscreen · **SLAP** on a hat · plus **SEEK** shade and **SLIDE** on sunglasses. The classic sun-protection bundle.

"AK → SCC"

Actinic **K**eratitis is the **K**nown precursor to **S**quamous **C**ell **C**arcinoma. Treat AK aggressively to prevent progression.

"Melanoma = Mean & Mortal"

Metastasizes early · spreads via **M** lymph & blood · **M** highest mortality · Breslow depth = key prognostic.

"Pearly & Polite — Rarely Roams"

BCC is **P**early & **P**olite — locally destructive but **R**arely **R**oams (rarely metastasizes). Excision is usually curative.

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NCJMM · CLINICAL JUDGMENT

6-Step NGN Reasoning Framework

1

Recognize Cues

Identify abnormal findings from the skin exam, history, and lesion description.

2

Analyze Cues

Cluster cues — does the pattern match BCC, SCC, melanoma, or AK?

3

Prioritize Hypotheses

Rank concerns: melanoma > SCC > BCC > AK based on metastatic risk.

4

Generate Solutions

Plan biopsy, referral, education, sun-safe behavior, surgical/medical care.

5

Take Action

Implement: photograph lesion, refer to derm, teach ABCDE & SPF use, prep for excision.

6

Evaluate Outcomes

Reassess: lesion change, post-op healing, sun-safe behavior adoption, screening adherence.



NGN Clinical Scenario

Setting: Outpatient dermatology clinic. A 62-year-old male golfer with fair skin and a history of multiple sunburns presents with "a sore on my ear that won't heal for 3 months." Exam reveals a 1.2 cm scaly, ulcerated, crusted lesion on the right helix. He also has multiple rough, sandpaper-like patches on his bald scalp. He denies pain but reports the ear lesion bleeds when he showers.

Recognize Cues: Non-healing ulcerated lesion (3 months), scalp AK, fair skin, chronic sun exposure, outdoor occupation.

Analyze: Scaly, crusted, ulcerated lesion in sun-exposed area + AK on scalp — classic for **squamous cell carcinoma** arising from actinic keratosis. Ear location ↑ metastatic risk.

Prioritize: (1) Biopsy of ear lesion · (2) Treat scalp AK to prevent further SCC · (3) Sun-protection teaching · (4) Full-body skin screen · (5) Lymph node assessment.

Take Action: Document lesion size/photo, prep for shave or punch biopsy, palpate cervical/preauricular lymph nodes, teach SPF 30+ daily & wide-brim hat, schedule cryotherapy or topical 5-FU for AK lesions.

Evaluate: Biopsy result confirms diagnosis · Excision margins clear · No lymphadenopathy · Client demonstrates ABCDE self-exam · Wears hat and SPF at follow-up · Schedules annual derm screening.