Skin Care at End of Life

Freda Cowan, FNP Friday April 27, 2012

OBJECTIVES

- Explain basic skin care assessment.
- Discuss common skin issues pertaining to patients at end of life.
- Describe wound care treatment options for patients at end of life.

Skin is the largest organ of the body.

Skin is 3000 square inches. Receives 1/3 of the body's blood volume.

Every minute of the day we lose about 30,000- 40,000 dead skin cells off the surface of our skin which is about 1.5 pounds a year.



FUNCTION

- **Protection** from bacterial invasion and against external elements such as excessive water, chemicals, mechanical forces, bacterial or viral infection and UV radiation.
- Prevents excessive loss of fluids and electrolytes. The body strives for a homeostatic environment.

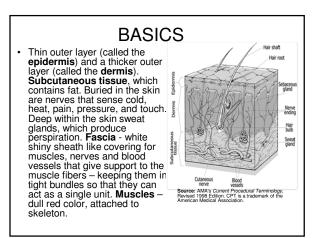
- Immunological response WBC capture and destroy bacteria.
- Produces sebum, a lipid-rich oily surface
- Sebum secreted by the sebaceous glands, provides and acidic coating that retards growth of microorganisms
- Melanocytes serves as protection against UV rays. These levels are race dependent

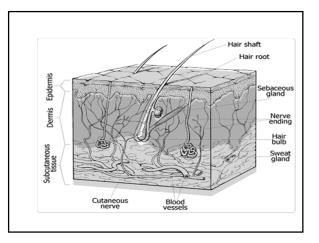
- Hold the body in "shape"
- Sense the environment -(pain, touch, temperature, pressure)
- Retain water provide protection against water loss.
- Thermoregulation primary mechanisms of this regulation is circulation and sweating

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- Temperature up = vasodilation to dissipate heat.
- Temperature down = vasoconstriction to retain heat.



- Expression of emotions identification of a person, plays a role in internal and external assessments of beauty and body image
- **Metabolism** when exposed to ultraviolet B radiation from sunlight, cells in the epidermis convert a cholesterol-related steroid to vitamin D. The general result is maintenance of calcium and phosphorus levels in the bone and blood.





BASICS

- Complete medical history and physical exam
- Medications Rx and OTC, Allergies
- Nutritional assessment
- · Social history tobacco/alcohol use
- Cause of wound pressure, trauma, venous, diabetes
- Treatment history to date

Basics

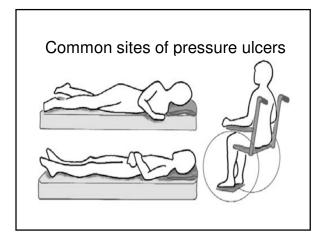
- Wound duration acute vs. chronic
- Environmental factors that may affect healing (bedridden, decreased activities, shearing during transfer, tight shoes, tubing or lines, history of travel/epidemic exposure such as fungal/parasite cause
- Expectations for wound healing to heal or palliate (comfort only)

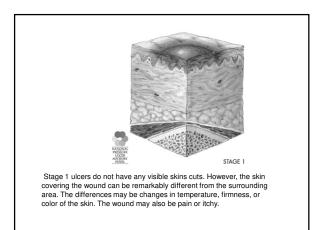
Factors that impede wound healing

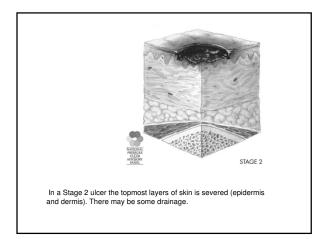
- Inadequate nutrition (vitamins/minerals), tissue hypoxia (low blood flow, exudate, eschar), wound infection, wound exudate, wound trauma (toxic chemicals, environmental insult, traumatic dressing changes)
- Inadequate wound blood volume and oxygen delivery, loss of lean body mass, systemic infection

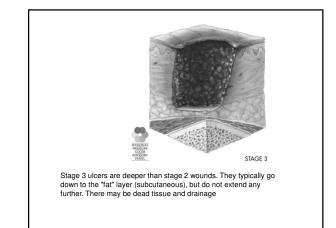
Common skin conditions

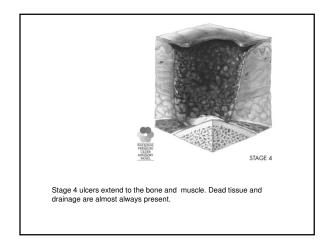
- Pressure ulcers
- · Wounds associated with malignancy
- Venous/Arterial ulcers

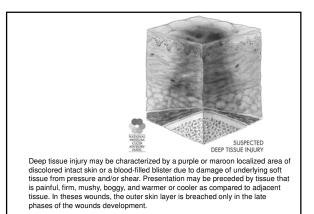


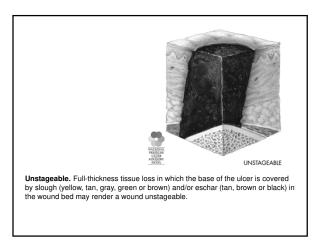


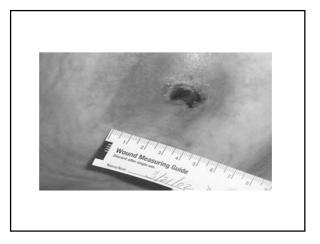


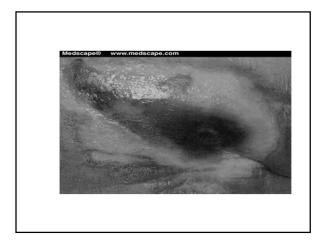


















WOUNDS WITH MALIGNANCY

Malignant wounds are necrotic areas caused directly by cancer Fungating tumors are rapidly growing external tumors

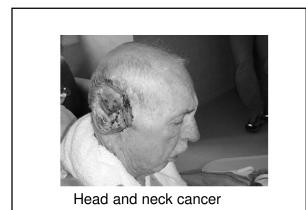


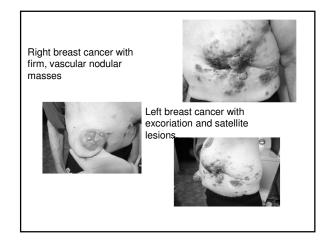
Malignant wounds are caused by infiltration of the epidermis by a primary or metastatic tumor, cutaneous infiltration via the lymphatics or bloodstream, or as a result of direct invasion from a primary lesion. Once the fungating wound develops, perfusion of tissues is altered and the mass expands. The center of the tumor then becomes

hypoxic leading to tumor necrosis.



Squamous cell carcinoma of head



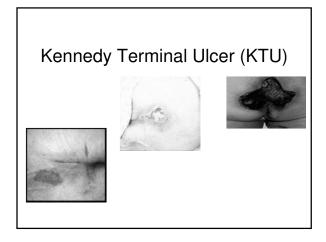


Kennedy Terminal Ulcer (KTU)

- OMG
- The (KTU) is a pressure ulcer that some(not all) get as they are dying. Onset: can be sudden, usually on the sacrum or coccyx but can appear in other areas. Appearance: shape of a pear, butterfly, or horseshoe, edges are usually irregular, red, yellow, and black color as the ulcer progresses.

Kennedy Terminal Ulcer (KTU)

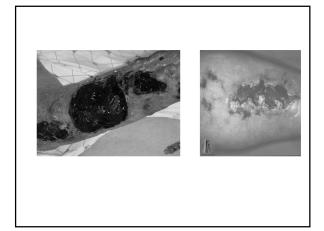
- Often looks like abrasion, blister, or darkened area and may develop rapidly to a Stage II, Stage III, or Stage IV ulcer.
- Karen Kennedy Evans, NP ,1983 at the Byron Health Center, a 500-bed, long-term care institution in Fort Wayne, IN. The skin care team started to investigate the data regarding how long individuals lived after the onset of a pressure ulcer; data showed 55.7% of the people who died with a pressure ulcer expired within 6 weeks of the onset of their pressure ulcer.



Calciphylaxis

- Rare syndrome of vascular calcification, thrombosis and skin necrosis.
- It is seen almost exclusively in patients with end stage renal failure, but can be seen in obesity, diabetes mellitus, hypercalcemia, hyperphosphatemia, and secondary hyperparathyroidism.
- Wound is chronic non-healing wounds and fatal.

- Lesions typically develop suddenly and progress rapidly. May be singular or numerous, and they generally occur on the lower extremities however, lesions also may develop on the hands and torso.
- Calciphylaxis begins as surface purple-colored mottling of the skin then bleeding occurs within the affected area. There may be blood-filled blisters. The skin goes black in the center with star-shaped purple lesions. The skin cells die because of lack of blood supply,). This causing deep and often extensive ulcers.
- Intense pain



Calciphylaxis

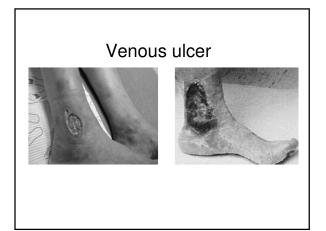
 Treatment – pain management, palliative wound care, discontinuation of parenteral iron therapy, calcium supplementation, and vitamin D supplementation, low-calcium bath dialysis, Bisphosphonates (Fosamax/Actonel po, Pamidronate IV) which inhibit osteoclasts –breakdown of bone thereby slowing down of bone loss.

Venous stasis ulcers

Venous ulcers - located below the knee, primarily found just above the ankle. The base is usually red, may be covered with yellow fibrous tissue or there may be a green or yellow discharge if the ulcer is infected. **Fluid drainage** can be significant with this type of ulcer. The borders are usually **irregularly shaped** and the surrounding skin is often discolored and swollen. It may even feel warm or hot. The skin may appear shiny and tight, depending on the amount of edema (swelling).

Very common in patients who have a history of leg swelling, varicose veins, or a history of blood clots in either the superficial or the deep veins of the legs. Ulcers may affect one or both legs.







Arterial ulcers

Arterial ulo

Complete or partial arterial blockage may lead to tissue necrosis and / or ulceration. Signs include: pulselessness of the extremity, painful ulceration, **Usually small, punctate ulcers that are usually well circumscribed**, cool or cold skin, delayed capillary return time (briefly push on the end of the toe and release, normal color should return to the toe in 3 seconds or less), atrophic appearing skin (shiny, thin, dry), loss of digital and pedal hair, can occur anywhere, but is frequently seen on the dorsum (top) of the foot.

Arterial ulcers



Braden Scale

Assess 6 Clinical Factors

- -Activity
- —Dietary Intake
- -Friction and Shear
- -Mobility
- -Sensory Perception
- -Moisture

Braden Skin Assessment Score	Nursing Actions	
As Risk** Score 15-18 **f other major risk factors are present (dydanced age, fever, poor detary intake of protein, diastolic pressure below 60, Amenognamic instability) advance to the next leval of risk	Frequent turning Maulan immobilization Protect hereis Protect hereis Pressure induction support surface if bed or chair bound Manage misisture, rutificion and friction and shear	Minaga, Moishare Use commercial mosterio Barrier Use aboothert pade or diagens that wick and Address curve if possible Offer bedgan/urnal and glass of water in conjunction with turning schedule
Mederate Risk** Score 13-14 "If other major risk factors are present, advance to the next level of risk	Implement turning schedule Use fourn wedges for 30 degree lateral positioning Pressure-reduction support surface Maximal enroblagation Proster heating Manage moisture, nutrition and friction and sheat	Minarge Nectron Increase protein réale to spare proteins Supplement with rules arbann (should include A.C., A.D. Act quickly to alleviate deficits; consult distitue
High Risk Score 10-12	Increase Requency of turning, upplement with small shifts Pressure induction support surface Use fourn wedges for 30 degree lateral positioning Masimal armobilization Protect Neels Manage moisture, nutrition and friction and share.	Manage Exclaim and Shara Elevide HOR no more than 20 degrees Use topacza when indicated Use its bienet on more patient Protect elbows and heels if exposed to friction
Very High Risk Score 9 or below	Implement all the above Use pressure-releving ourface of pt has intractable pain or server pain exaceth ated by turning or had additional insk factors Low air loss beds do not substitute for turning schedules	Cther General Care Reminders No massage of reddered bony pominences No dout type dences Marstan good hydration Anold drying skin

The ideal dressing and treatment

- Provides protection from further injury or infection
- Permits movement of joints and body parts proximal to the wound
- Exercises some compression on the wound site to control bleeding and scarring
- Absorbs fluids draining from the wound
- Ultimately contributes to an improved esthetic outcome for the resulting scar

Wound care options

- Ointments
- Impregnated gauze
- Gauze packing
- Hydrocolloids
- Hydrogels
- Alginates
- Adhesive films
- Medihoney
- Vacuum assisted closure (VAC)

"See the whole person - not the hole in the person."

NICE dressing method

- N necrotic tissue
- I infected or inflammation
- C characteristics (LxWxD, comfortable for patient, ease of use pt/family, staff
- E exudate control

Necrotic tissueInfection/Inflammation• Protect and support• Consider antimicrobial dressings (silver or
iodine.• Maintain dryness• Wet to dry dressing• Wet to dry dressing• More frequent dressing changes• Autolytic debridement• Oral antibiotics• Chemical debridement• Oral antibiotics

Characteristics

- Location (LxWxD), waterproof dressings
- · Comfort and pain relief
- Ease of use for patient, family, staff



Exudate

- Match absorbency of dressing to exudate
- Assess surrounding tissue and protection
- May need more frequent dressing changes

Matching the dressing to the wound Gauze(sterile and non-sterile Impregnated gauze/ strips AMD dressings, Kerlix Wound cleansers Clear transparent adhesives Alginates, Collagens Skin prep, Foams Hydrocolloids Silver products Wound VAC

Maggot therapy Medihoney

Matching the dressing to the wound

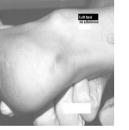


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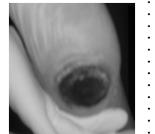
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