Incontinence Associated Dermatitis

Satellite Conference and Live Webcast Wednesday, January 22, 2014 2:00 – 4:00 p.m. Central Time

Produced by the Alabama Department of Public Health Video Communications and Distance Learning Division

Faculty

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Objectives

• The participant will be able to:

- -Discuss the function of skin
- -Identify the three layers of skin
- Identify common skin problems related to incontinence
- Discuss prevention and treatment strategies for skin breakdown due to incontinence

Skin is an Organ

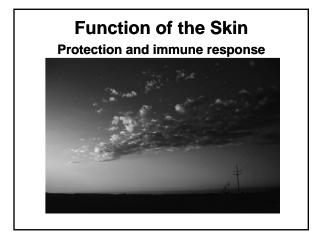
- Did you know the skin is an organ?
 - -Largest organ
 - -Heaviest organ
 - 15% of body weight
 - In a 150 pound person, the skin weighs about 12 pounds and can cover 18 square feet

Skin is an Organ

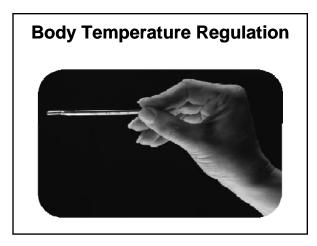
- 1 square inch of the skin contains:
 - -100 sebaceous glands
 - -65 hairs
 - -78 yards of nerves
 - -650 sweat glands
 - -19 yards of blood vessels

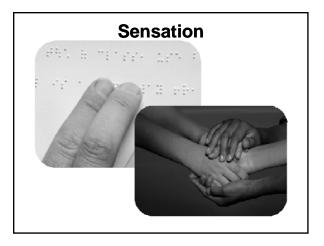
Skin is an Organ

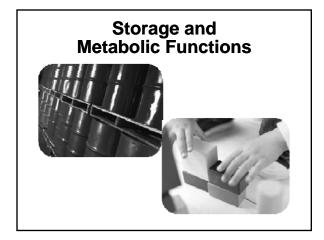
- -9,500,000 cells
- -1,300 nerve endings
- -20,000 sensory cells
- -32,000,000 bacteria

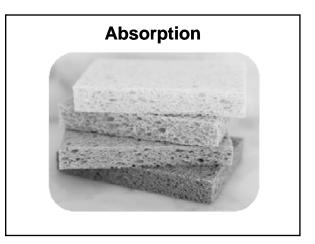








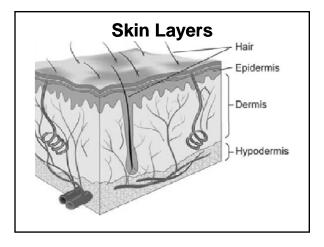






Skin Layers

- Epidermis
- Dermis
- Subcutaneous tissue

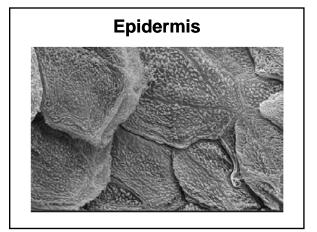


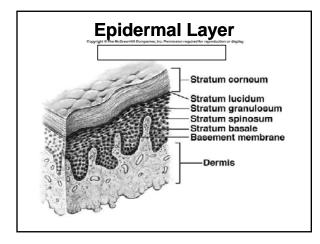
Epidermis

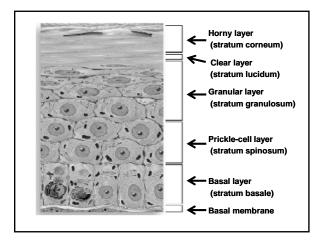
- There are 5 layers in the Epidermis
 - -Stratum corneum
 - -Stratum licidum
 - -Stratum granulosum
 - -Stratum spinosum
 - -Stratum basale

Stratum Corneum

- Outside layer
- Provides protection
- Sloughs off about every 2 weeks
- Call the "horny" or "crusty" layer



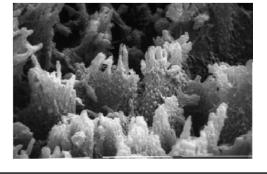




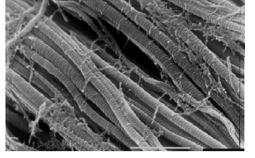
Layers of the Dermis

- Papillary
 - Contains a thin arrangement of collagen fibers
- Reticular
 - Thicker and made of thick collagen fibers that are arranged parallel to the surface of the skin

Papillary in Upper Layer of Dermis

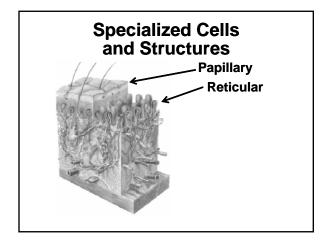


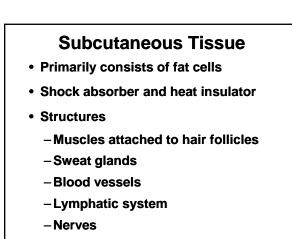
Collagen Fibers in Lower Layer of Dermis

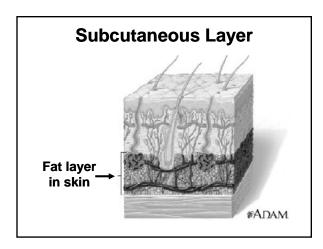


Specialized Cells and Structures

- Hair follicles
- Muscles on each hair follicle
- Oil, sebaceous, and sweat glands
- Blood vessels
- Lymph vessels
- Nerves







Incontinence

- The involuntary leakage of urine or stool
- Urinary
 - -Loss of bladder control
- Fecal
 - -Loss of bowel control

What Causes Incontinence?

- Constipation
- Diet
- Gastrointestinal disease
- Hormone imbalance
- Weakness or loss of pelvic muscle function
- · Loss of mobility

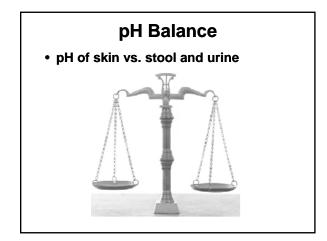
What Causes Incontinence?

- Mental changes
- Prostrate disease
- Spinal cord injury
- Urinary track infections

Why Does Incontinence Harm the Skin?

- Moisture
 - -Too much of a good thing





Incontinence

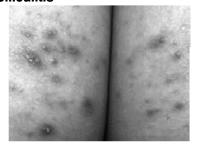
- Chronic exposure to moisture
- Breaks down alkaline pH
- Overgrowth or infection with pathogens
- Friction

Problems Caused By Incontinence

- Infections
 - -Bacterial and yeast
- Incontinence Associated Dermatitis (IAD), skin excoriation, and skin breakdown
- Pressure ulcers

Skin Infection: Bacterial Staphylococcus

• Folliculitis



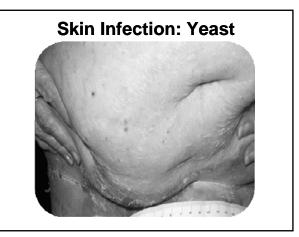
Skin Infection: Bacterial Staphylococcus

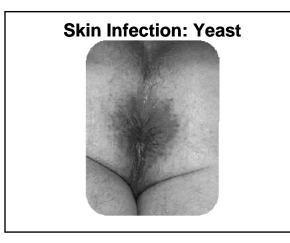
• Furnuculosis



Skin Infection: Yeast / Fungal

- Any area, usually skin fold
- May create its own moisture
- Fiery red, white coated
- Satellite lesions
 - -Red spots scattered at the edges





Skin Infection: Management

- Keep skin and folds clean and dry
- Maximize air to the area
- Use antifungal powder or cream
- Oral antifungal

Incontinence Associated Dermatitis

"Skin inflammation manifested as redness with or without blistering, erosion, or loss of the skin barrier function that occurs as a consequence of chronic or repeated exposure of the skin to urine or fecal matter"

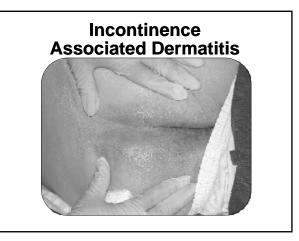
> - Michael Gray defined PhD, FNP, PNP, CUNP, CCCN, FAANP, FAAN

Incontinence Associated Dermatitis

- Located where skin is in contact with urine or feces
- Initially may be bright red and weepy
- · Later dark red / purple, or white
- Dry peeling skin like sunburn

Incontinence Associated Dermatitis

- No satellite lesions unless also has fungal
- Not confined over a bony prominence
- Burning, itchy, tingling, or painful

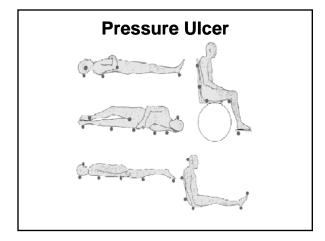


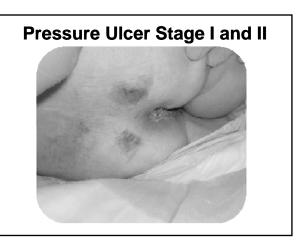
IAD: Management

- Treat cause of incontinence
- Prevent skin breakdown
 - -Daily skin check
 - -Prompt cleaning
 - -Protect skin at risk
- Treat skin breakdown

Pressure Ulcer

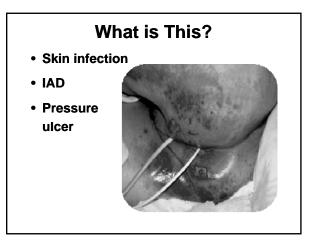
- Pressure ulcer
 - -Over bony prominence
 - -Coccyx, usually round or oval
 - Sacral or ischium, butterfly or oval if only on one side
 - Well defined edges, no satellite lesions

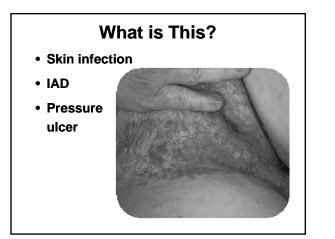


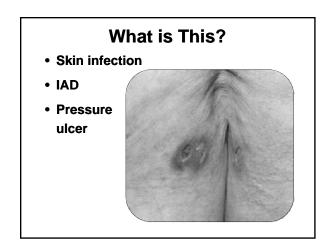


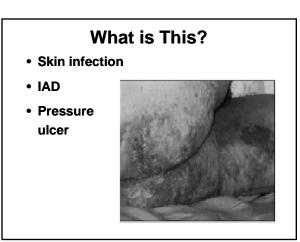
Pressure Ulcer Management

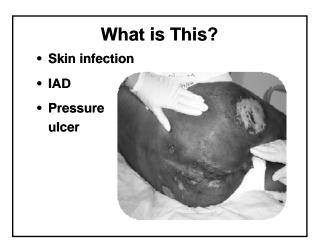
- Relieve or reduce pressure
- Keep wound clean
- Maintain moisture in the wound bed
- Protect wound edges
- Do not massage







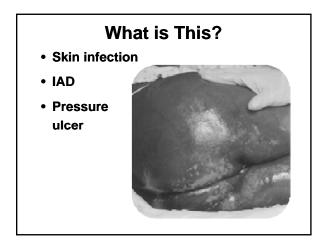


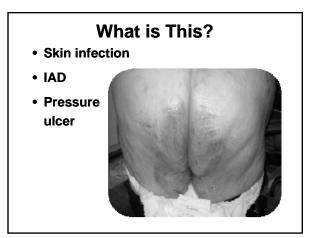


What is This?

- Skin infection
- IAD
- Pressure
 ulcer









Prevention and Treatment of Skin Breakdown

- TREAT the incontinence
- DAILY check the skin
- PROMPTLY clean the skin

Treatment: Urinary Incontinence

- Assessment
- Determination of type of incontinence
- Address the root cause
- Effective management

Prevention and Treatment of Skin Breakdown

- GENTLY wipe skin when cleaning
- USE product with acidic pH like normal skin

-5.5

• PROTECT with moisture barrier

Linens, Diapers, Chux...

- Limit linen usage under patient
 - -No more than 2 layers
- No diaper
 - -Keeps moisture against the skin
 - Only use when up in chair or walking

Linens, Diapers, Chux...

- Chux (blue) pads
 - They wick moisture away so skin can dry
 - -Patient needs to lie on top of pad
 - Do NOT put pad under linen
 - Do NOT use pad as diaper

Check the Skin

- Check the skin daily
- Observe skin in perineal area on all patients
 - Take special note of patients who are bed or chair bound
 - Take special note of patients who are incontinent
- Report any changes to caregiver and supervisor

Clean the Skin

- Clean skin immediately after urine or fecal leakage
- Use disposable perineal wipes or mild soap and warm water
- Do not rub or scrub

Clean the Skin

- Rinse well
- Pat dry the skin and skin fold
 - Do not rub
- Frequent baths will remove natural oils and increase skin dryness
 - -pH balanced body cleansers
 - -Soap

Clean the Skin

- Cleanse only when soiled
- Bath water should be warm
 - -Not hot!
- Minimal force
 - -No vigorous scrubbing





Protect

- Moisturized skin = healthy skin
- Loss of moisture from epidermis causes dryness
- Moisturizing prevents itching
- Apply lotion to damp skin
 - -Locks in moisture
 - -Apply daily

Protect

- Use emollients to soften and soothe skin but do not macerate
 - -Add too much moisture
- Expose the area to air for 30 minutes, 2 3 times a day
- Apply skin protectorant
 - Dimethicone, petrolatum, or zinc oxide











