



Pressure injuries: Choosing the Right Treatment

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Step 1 - Assessment

Include:

- Wound Characteristics
 Exudate, Odor, Dry
- Tissue Types
 Necrotic, Granulation
- Location
- Size



Assessment

- Individual's and family's goals of care
- Health History
- Factors that may affect healing
 - Perfusion
 - Sensation
 - Infection



Assessment

- Vascular assessment in the case of extremity ulcers
- Laboratory tests
- Nutrition





Assessment

- Social and financial support systems
- Environment
- Physical Limitations
- Knowledge about Pressure injuries



44 The Best Way To Solve Any Problem Is To Remove Its Cause. 99

Pressure injuries cannot form without pressure on the tissues!

Remove the pressure with Repositioning

(change in position of the lying/seated individual at regular intervals)



Remove the Causel

Positioning

- Frequency based upon INDIVIDUAL
 - Tissue tolerance
 - Activity and mobility
 - General medical condition
 - Overall treatment objectives
 - Skin condition
 - Support surface in place



Positioning Bed

- Pillows or foam wedges
- Prevent bony prominences from direct contact with one another



Positioning Immobile/Bed Bound

- "Rule of 30"
 - The head of the bed is elevated at no more than 30° (Including tube fed patients)
 - On side in 30° laterally inclined position
 - Hips and shoulders are tilted 30°



Lift — Don't Drag!

- Lift sheets
- Mechanical lift





Mechanical Lift

Remove the sling immediately after transfer
unless specifically designed to stay in place



Position to prevent sliding & shear

- Auto-contour Beds
- Raise the knee-gatch before raising the HOB
- Pillows under arms



Positioning

• Do not position patient directly on wound.



Heel Pressure Injuries

- Stage 1 or 2
 - "Float the heels" or
 - Devices with heel suspension



Heel Pressure Injuries

- Stage 3, 4, and Unstageable
 - Use device that elevates the heel from the surface of the bed



 Pillow alone is inadequate

Heel Devices

- Not too tight
- Remove the device periodically to assess skin integrity



Heel offloading devices are not the same thing as heel padding devices.

Seating Interventions

- Weight shifts every 15
 minutes
- If unable to weight shift reposition patient every hour



Seating Support Surfaces

- For chair-bound or decreased mobility
 - Use a pressure redistributing seat cushion
 - Stretchable/breathable cover that fits loosely on top of cushion

Seating With Pressure Injury

When sitting is necessary with ulcers on the sacrum/coccyx or ischia, limit sitting to:





Seating With Pressure Injury

- Consult a seating specialist for:
 - Appropriate seating surface









Support Surfaces

- Use an active (AP) support surface:
 - High risk patient When frequent repositioning is not possible



Do NOT USE

- Synthetic sheepskin pads
- Cutout, ring, or donuttype devices
- IV bags
- Water-filled gloves



DO NOT USE

Small-cell (Less than 1 inch) alternating pressure air mattresses or overlays



Stage 1 and 2 Pressure Injuries

CHICK CON

 Use high specification reactive foam mattress or non-powered pressure redistribution support surface

Stage 3, 4, unstageable & DTI Pressure Injuries

- Surface that provides enhanced pressure redistribution, shear reduction, and microclimate control
 - Low air loss
 - Air Fluidized
 - Alternating Air





Factors to Consider

- Wound Characteristics
 - Tissue
 - Size
 - Location
 - Peri-wound

• Patient's Goals

- Purpose of the Treatment
- How often less is best!





Non-blanchable erythema (not purple or maroon) of INTACT SKIN which may appear differently in darkly pigmented skin







Stage 2

- Partial-thickness skin loss with exposed dermis
- Wound bed is
 - pink or red
 - moist OR
 - intact or ruptured serum-filled blister







Stage 3

- Full-thickness loss of skinAdipose (fat) is visible

- May be present:
 Granulation tissue
 Epibole
 Slough
 Eschar
 Undermining/Tunneling
- NO Bone, tendon, ligament





Stage 4

- Full thickness tissue loss with exposed or palpable
 - Fascia
 - Muscle
 - Tendon
 - Ligament
 - Cartilage
 - Bone







Deep Tissue Injury Non-blanchable deep red, maroon or purple discoloration Intact or non-intact skin epidermal separation revealing a dark wound bed OR · blood filled blister

Unstageable

- Full thickness tissue loss
- Base is covered by slough (yellow, tan, gray, green or brown) and/or eschar (tan, brown or black) in the wound bed.

STC

Basic Guidelines

- Choose a dressing to keep the wound bed moist
- Cleanse at each dressing change
 - Using potable water (i.e., water suitable for drinking)
 - Normal Saline
 - Non-cytotoxic Cleanser



<section-header> Basic Guidelines Follow manufacturer tecommendations Especially related to frequency of dressing change The fact VA 4⁻⁰ results in direct the sease of ones to the sease of one to the sease of the sease of one to the sease of one to the sease of one to the sease of the sease of

DOSAGE AND ADMINISTRATION: Collagenase SANTYL® Ointment should be applied once daily (or more frequently if the dressing becomes soiled, as from incontinence). When clinically indicated, crosshatching thick eschar with a #10

Basic Guidelines

• Update or change Treatment plan if no progress in 2 weeks



Stable Eschar on Heel

- Goal
- Keep dry and intact
- Do not debride
- Assess daily for signs of infection
- If infection present
 - Consult a vascular surgeon
 - Debride urgently



Stable



Stable Eschar on Heel

- Topical Treatment
 - Leave wound open to air
 - Dry dressing for Protection
 - Paint with betadine or alcohol daily to keep dry.



Unstable Necrotic Tissue

 Necrotic tissue impairs healing, increased risk of infection



- Topical treatments
 - Hydrocolloid
 - Transparent dressings
 - Foams
 - Impregnated gauze
 - Hydrogel
 - Santyl® Enzymatic debriding ointment



Unstable Necrotic Tissue

- Adjunctive therapy
 - Sharp Debridement
 - Maggot Debridement Therapy
 - Pulsed Lavage
 - Hydrotherapy
 - Electrical Stimulation



Stage 1 Pressure Injury

- Interventions
 - Remove the cause BEFORE further damage occurs
 - DO NOT massage
- Topical treatments
 - Transparent dressing
 - Hydrocolloid
 - Liquid skin barrier prepThin foam



Stage 2 -4 Pressure Injury Dry Wound Bed

- Goal: Add moisture to wound bed
- Topical treatments
 - Hydrogel
 - Foams
 - Hydrocolloids
 - Transparent film



Stage 3 or 4 Pressure Injury with Slough and Exudate (Drainage)

- Treat cause of exudate
 - High Bacteria CountsNecrotic Tissue

 - Edema
- Protect peri-wound
 Skin Barriers
 - Sealants



Stage 3 or 4 Pressure Injury with Slough and Exudate

- Moderate to Heavy Exudate
 Calcium alginate dressing
- Heavy Exudate
 - Hydrofiber dressing
 - Wound drainage collector



Stage 2 – 4 Pressure Injury Red Base Light to Moderate exudate

derm-Foam Adhesive

- Foam dressing
- Polymeric membrane foam



Stage 3 – 4 Pressure Injury – *Red Base Moderate to Heavy exudate*

Calcium Alginate

- Absorb up to 20 times its weight
- Change as needed -24 to 48 hrs





Stage 3 – 4 Pressure Injury – *Red Base Heavy* Exudate

- Hydrofiber dressing
- Capacity to absorb up to 33% more than alginate dressings
- Examples: Aquacel, Aquacel AG



Stage 3 – 4 Pressure Injury – Red Base Heavy Exudate

- Negative Pressure Wound
 Therapy
- Wound Drainage Collector





Stage 3 – 4 Pressure Injury *Red Base Heavy Exudate*

- Specialty Absorptive Dressings
- Absorbs large quantities of exudate forming a gel that locks exudate away from the wound



Fragile Tissue

- Contact Layer Dressing
- Silicone Dressing
 - Protection of wound base
 Prevent dressings from sticking to wound



Infected- High Bio-Burden

- Use commercial cleansing solutions with surfactants and/or antimicrobials to clean wounds with
 - Debris
 - Confirmed infection
 - Suspected
 - Infection
 - High levels of bacteria



Infected- High Bio-Burden

- Use systemic antibiotics for systemic infection such
- as
- Positive Blood Cultures
- Cellulitis
- Osteomyelitis
- Sepsis



Infected with multiple organisms

- Offer broad antimicrobial coverage
 - Topical Antimicrobial Silver Dressings
 - Medical-grade Honey Dressings



Infected- High Bio-Burden

- Methylene Blue
 Hydrofera Blue[®]
- Sodium Chloride
 Mesalt[®]





Epibole (Rolled/curled under edges)

- Margins must be reinjured to "jump start" the healing process
- Intervention
 - Rub and rough up wound edges with dry cotton gauze



Surgical debridement

Silver Nitrate





Moisture Associated Skin Damage where dressing will not adhere

- Calmoseptine[®] Ointment
- Triad[™] Wound Dressing
- Liquid Film Barrier





Intact Heel Blister

- **DO NOT** de-roof an intact blister
 - Less prone to infection
 - More comfortable
- Best dressing for a blister is its own roof









Choosing the right dressing to suit the conditions is vital for optimum healing and quality of life.



educational information, visit www.shieldhealthcare.com/community

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