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Wound Dressing Selection

- Based on the etiology, condition, and moisture content of the wound
- Application ease and dressing frequency play a secondary role
- Cost considerations optimize health care dollars
- It is assumed the underlying cause of the wound has been addressed
- Non/slow response warrants further consideration and/or investigation



Wound Dressing Guidelines

- WHS and NPIAP guidelines 2015/2019
- - Minimize pain
 Protect wound and peri-wound
 - Prevent tissue damage

 - Secure in place
 Address bioburden
 Provide wound needs
 - Is cost effective

Treatment Categories - functional

Moisture donating

Hydrogels
 Honeys
 Impregnated gauzes
 Combination gels

Moisture absorbing

- Cavity filling

- Alginates
 Hydrofiber
 Foams
 Superabsorbants
 Hydroductive

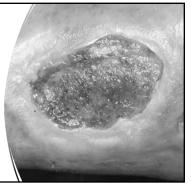
- Packing strips
- > Gauze
 > Hypertonic gauze
 > Antimicrobial
- gauze

 Impregnated gauze

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Case 1

69 year old female with PMH of DM, Obesity, HTN, and Arxiety. While in wheelchair banged right arm 3 days ago. Now has a dry open wound 3 cm by 4 cm with a depth of 0.3 cm. No drainage and no sign of infection.



Case 2

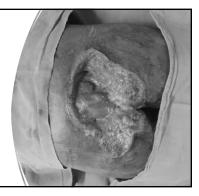
74 year old male with a history of CAD and chronic venous insufficiency. Has recurring wounds of the lower extremity along with increased swelling as the day progresses.



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Case 3

84 year old bedridden female with history of CVA and hemiparesis. Large sacral pressure injury with moderate exudate.



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Treatment Categories - functional

Antimicrobial

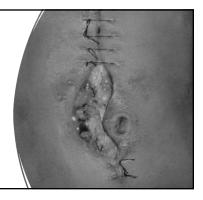
Enzymatic

- ➤ Collagenase ➤ Trypsin

Surfactants and Cleansing agents > Surfactant > P-188 > Betaine > Antiseptic solutions - Benzalkonium chloride - Chlorhexidine - Acid solutions - Sodium - Hypochlorite - Hypochloria acid - Acetic Acid

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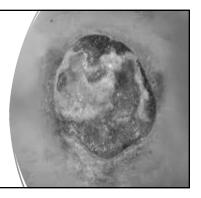
59 year old female MVA accident victim who received multiple lacerations and sutures about 2 weeks ago. Leg wound previously sutured has dehisced and has a yellow/green discharge.



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Case 5

 82 year old male with Right hip wound 6 that had been doing well until the past couple of weeks where you have noticed increased amounts of necrotic tissue. Patient refuses surgical debridement. Otherwise no signs of infection.



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Case 6

 87 year old female with dementia, HTN, and high cholesterol has a left buttock pressure wound that has been doing well but progress has slowed over the past few weeks. Wound is now about 8 weeks old and you suspect biofilm. After debridement, you would like to decrease the reformation of biofilm

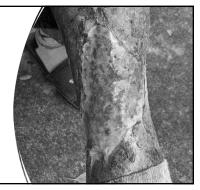


Treatment Categories - functional Contact Layers Stimulatory Negative Pressure Single use wound vac POSF Osmotic gradients Hydrocolloid Hydrocolloid Phyertonic Uppt-Colloid Particles

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Case 7

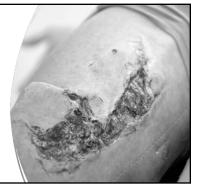
- Mr Jones is a 91 year old man with a history of lower extremity wounds. He complains of pain with dressing removal.
- What dressing might you use to reduce the bandages from adhering to the underlying tissue?



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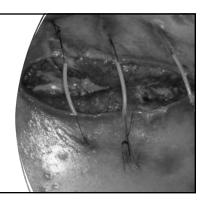
Case 8

 83 year old female with a wound on her left thigh. Her past medical history is unremarkable, but this long standing wound seems to be stalled. You have re-assessed your plan of care and everything seems to be correct. You decide to change to a dressing in hopes of kick starting further healing.



Case 9

- 72 year old recently admitted from the hospital after receiving abdominal surgery. Initially suture line was healing well but the wound dehisced and now is back on a path to healing.
- What post surgical application might aid in closing of this wound?



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Treatment Categories - functional

Tissue membranes

Other

- Collagens
 Oxidized regenerated cellulose
- > ECM sheets
- > Tissue derived skin substitutes
 (a-cellular)

 Preserved tissue matrix (cellular)
- Compression bandages
 Moisture barrier creams
 Maggots

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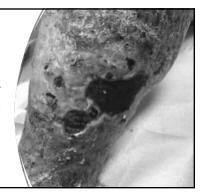
Case 10

You have been asked to see a 58 year old burn patient who recently received split-thickness skin grafts to wounds on their arms. The donor site was the patient's thigh. While the graft site is doing well, the donor site has been slow to heal and has basically stalled. The wound is free of necrosis with moderate exudate.



Case 11

This is a 69 year old with a history of chronic LE edema. Both LE have stasis dermatitis and the left leg has a recalcitrant 8 cm by 4 cm wound with moderate to large exudate. Wound has failed despite compression and elevation.



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Skin Substitutes:Cellular and/or Tissue Based Products (CTPs)

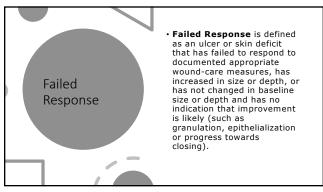
- Human Skin Allografts
- Allogeneic Matrices
- Composite matrices
- Acellular matrices

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CTPs most appropriate use

- DFU
- VLU
- Must first treat with standard treatments: 30
 - Edema control
 - Mechanical offloading
 - Mechanical compression

 - Limb elevation
 Debridement
 - Manage comorbid conditions
 - Appropriate therapeutic dressings



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Conditions to be met

- Presence of neuropathic ulcers and diabetic foot ulcer(s) having failed to respond to documented conservative wound-care measures of greater than four weeks, during which the patient is compliant with recommendations, and without evidence of underlying osteomyelist or notice of interestion.

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- Provision of wound environment to promote healing (protection from trauma and contaminants, elimination of inciting or aggravating processes)

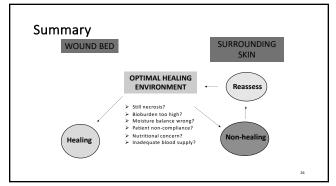
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Other Products:

- Compression bandage
- Biological (debridement)
- Moisture barrier creams
- Antifungals

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Putting it All Together: Patient scenarios

- Dressing selection:
 Moisture donating, moisture absorbing, cavity filling

 - Contact layer
 Antimicrobial
 Debridement
 Substrate-providing
 Negative pressure, CTPs, growth factors, etc

