

Why Prevention?

□ Staff satisfaction – doing a good job□ IMPROVED QUALITY OF LIFE

State Operations Manual
Appendix PP - Guidance
to Surveyors for LongTerm Care Facilities

Framing Your Wound
Prevention and Care
Program

NPUAP
Prevention & Treatment
of Pressure Ulcers:
Clinical Practice
Guidelines

# - NPUAP/EPUAP Pressure Ulcer Prevention and Treatment: Clinical Practice Guideline - 2014 - NPUAP.org - AMDA Clinical Practice Guidelines for Pressure Ulcers-2011 - www.amda.com or 800.876.2632 to order

# Often times the surveyor sees a facility acquired pressure ulcer as a failure of your systems and care for pressure ulcer prevention The ONLY way to show the surveyor differently is in the quality of your documentation

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### State Operations Manual •

- CMS State Operations Manual (SOM) a guide for what you do in clinical practice
- SOM reflects current evidence based practice in most cases...evolving practice with updates as research gives us a better understanding re: PrUs
  - □ Taken from current wound care research and best practices
- □ Prevention of PrUs gets lots of attention from CMS
- Can find and download at:
   http://www.cms.gov/CFCsAndCoPs/Downloads/som10
   7ap\_pp\_guidelines\_ltcf.pdf



### CMS: <u>Unavoidable</u> Pressure Ulcers F314

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- □ Resident developed a pressure ulcer <u>even though</u> the facility:
  - Evaluated the resident's clinical condition and risk factors
  - Defined and implemented interventions that are consistent with resident needs, goals, and recognized standards of practice
  - Monitored and evaluated the impact of the interventions
  - Revised interventions as appropriate



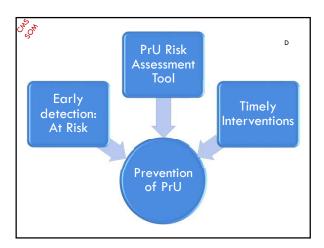


### CMS: Avoidable Pressure Ulcers F314 D

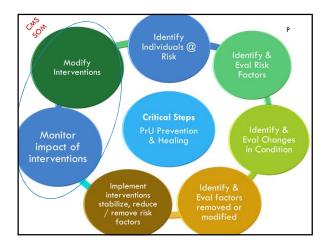
- Resident developed a pressure ulcer and the facility <u>DID</u> <u>NOT DO</u> one or more of the following:
  - Evaluate the resident's clinical condition and pressure ulcer risk factors
  - Define and implement interventions that are consistent with resident needs, goals, and recognized standards of practice
  - Monitor and evaluate the impact of the interventions
  - Revise the interventions if appropriate



# Intent of F314 Well organized and executed PrU prevention program reduces facility acquired PrU...only unavoidable PrU occur Caregivers competent - (need wound training) Limited exclusively to PrUs Other wounds (arterial, venous, diabetic, etc.) grouped under F309, regulation for Quality of Care Critical for physicians/NP to accurately perform differential diagnosis of chronic wounds Recommend review of accepted definitions to prevent confusion between surveyors and clinical staff in terms of documentation



M0100. Determination of Pressure Ulcer Risk				
<ul> <li>A well-organized pressure ulcer prevention plan reduces facility-acquired pressure ulcers and as a result only unavoidable pressure ulcers occur</li> <li>Pressure ulcer risk assessment tool most often used in LTC setting - Braden Scale for Predicting Pressure Sore Risk©</li> </ul>				
M0100. Determination of Pressure Ulcer Risk				
↓ Check all that apply				
A. Resident has a stage 1 or greater, a scar over bony prominence, or a non-removable dressing/device				
B. Formal assessment instrument/tool (e.g., Braden, Norton, or other)				
C. Clinical assessment				
Z. None of the above				

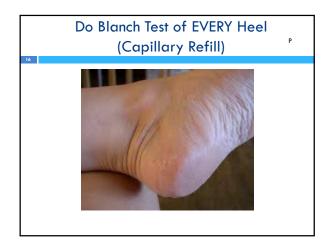


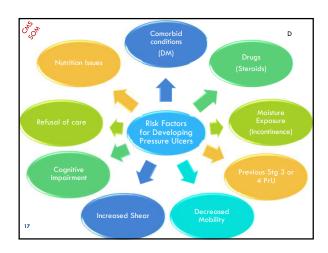


- unulti-system organ failure end-of-life condition
- refusal of care and treatment
- Address <u>factors</u> that have been identified as having an impact on the <u>development</u>, <u>treatment</u> and/or <u>healing</u> of <u>pressure ulcers...(ex. steroids)</u>
- □ Document ALL

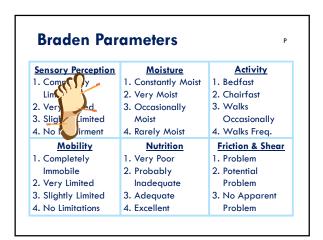
# Skin Assessment Part of PrU risk assessment screening policy Educate professionals - comprehensive skin assessment includes identifying: blanching response localized heat edema induration (hardness) Inspect skin regularly for signs of redness in persons at risk of pressure ulceration-CNAs The frequency of inspection may need to be

increased if any deterioration in overall condition





Tips to:
1. Accurately Score
2. Assigning Risk
Using the Braden





Immobility

Everything else is a contributing factor

### **Braden Scale Scores**

- □ Mild Risk = 15 18
- □ Moderate Risk = 13 14
- □ High Risk = 10 12
- □ Very High Risk = 9 or below



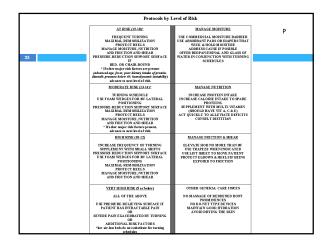
\*\*If other major risk factors are present (e.g., age, fever, poor dietary intake of protein, diastolic pressure <60, and/or hemodynamic instability), advance to next level of risk.

### **Low Blood Pressure**

- □ Systolic BP below 100 mmHg − associated with PrU development
- Hypotension may shunt blood flow away from the skin to more vital organs
- Decreasing the skin tolerance for pressure by allowing capillaries to close at lower levels of interface pressure
- □ Water hose

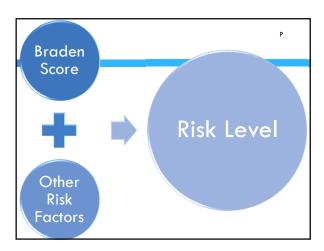


Patient's Name	Evi	aluator's Name		Date of Assessment		
SENSORY PERCEPTION ability to respond meaningfully to pressure- related discomfort	Completely Limited Unresponsive (does not moon, flinch, or grasp) to painful stimuli, due to diminished level of consciousness or sedation OR limited ability to feel pain over most of body.	2. Very Limited Responds only to painful stimul. Cannot communicate discomfort except by meaning or extiness.  OR has a sensory impairment which limits the ability to feel pain or discomfort over % of body.	Slightly Limited Responds to verbal commands, but cannot always communicate discorrfort or the need to be turned     OR has some sensory impairment which limits ability to feel pain or discorrfort in 1 or 2 externibles.	No impairment     Responds to verbel     commands. Has no sensory     deflot which would limit ability     to feel or voice pain or     discornfort.	Predispose to intense pressure	
MOISTURE degree to which skin is exposed to moisture	RE 1. Constantly Moist 2. Very Moist 3kin is kept moist almost 5kin is constantly by perspiration, moist. Linen must be changed at moist.		Occasionally Moist Skin is occasionally moist, requiring an extra linen change approximately once a day.	Rarely Moist     Skin is usually dry, linen only requires changing at routine intervals.	Affect tissue tolerance	
ACTIVITY degree of physical activity	Bedfast     Confined to bed.	Chairfast     Ability to walk severely limited or non-existent. Cannot beer own weight and/or must be assisted into chair or wheelchair.	Walks Occasionally Walks occasionally during day, but for very short distances, with or without assistance. Spends majority of each shift in bed or chair.	Walks Frequently Walks outside room at least twice a day and inside room at least once every two hours during walking hours.	Predispose to intense pressure	
MOBILITY shifty to change and control body position	Completely Immobile     Does not make even slight     changes in body or extremity     position without assistance.	Very Limited     Makes occasional slight changes in body or extremity position but unable to make hequent or significant changes independently.	Slightly Limited     Makes frequent though slight     changes in body or extremity     position independently.	No Limitation     Makes major and frequent     changes in position without     assistance.	Predispose to intense pressure	
NUTRITION usual food intake pattern	Yeary Poor Never each a complete meal. Ranely exits more than ½ of any food offered. Easts 2 servings or less of protein (meat or dairy products) per day. Takes fluids peorly. Does not take a liquid detary supplement.  It NPO and/or maintained on clear liquids or IV's for more than 5 days.  In SPO and/or maintained on clear liquids or IV's for more than 5 days.  In SPO and/or maintained on clear liquids or IV's for more than 5 days.  In SPO and/or maintained on clear liquids or IV's for more than 5 days.  In SPO and/or maintained on In SPO and/or maintained on In SPO and/or maintained	2. Probably Insidequate Rarely eats a complete meal and generally eats only about 15 off any food offered. Protein installs includes only 3 servings of meat or daily products per day. Occasionally will take a detary supplement Occasional and optimize each offered offered on the second of second of second of second memoral of liquid diet or sube feeding.	3. Adequate     Eats over half of most meels.     Eats as table of 4 servings of protein (mast, dairy products) per day. Occasionally will refuse a nural, tot. will usually take a supplement when offseed of the control of mutritional needs.	4. Excellent Exis most of every meal. Never refuses a meel. Usually eats a tatal of 4 or more servings of meat and dairy products. Occasionally seats between meals. Does not require supplementation.	Affect tissue tolerance	
FRICTION & SHEAR	Problem Requires moderate to Requires moderate to Requires moderate to Resolution assistance in moving. Complete filting without silting against sheets is impossible. Prequently sides down in bad or chair, requiring from a side of chair, requiring resolution assistance.  Resolution assistance or agistation leads to almost consister filting.	Potential Problem Moves feebly or requires minimum assistance. During a move skin probably sides to some extert against sheets. Chair, restraints or other devices. Marinians estaintly good position in chair or bed most of the time but occasionally slides down.	No Apparent Problem Moree in bed and in chair independently and has sufficient muscle strength to fit up completely during move. Maintains good position in bed or chair.		Affect tissue tolerance	



### Rehab Can Help

- Ensure your rehab team involved with residents who have mobility & activity issues
- OT & PT can assist in evaluating & treating residents with mobility issues by improving:
  - Strength
  - Body movement strategies in bed & chair
  - □ Sitting & standing balance
  - □ Teaching residents, staff, & family members how to use adaptive equipment (i.e., transfer/gait belts, walkers, canes)
  - Restorative program
- □ Therapists also provide assessments & make suggestions or create proper seating interventions when sitting mobility issues



### Training in the Braden

- □ Clinicians should review the methods for scoring correctly
- □ Surveyors may check medical records for use and accuracy of the risk assessment with corresponding subscales
- □ In-services on how to perform and use the risk assessment scale are important components of the pressure ulcer prevention program and should be required for all nurse managers and other individuals delegated the task of completing the risk assessment
- □ Quality assurance (QA) review recommended to ensure accurate determination of subscales of the risk assessment tool being used

### Case Study

- Previously active independent 68 y/o female with L-partial hip replacement 5 days ago due to femoral neck fracture after fall in home
- Admitted to skilled services for nursing and rehab with goal of returning to daughter's home for continued recovery rehab with home
- Vitals: T=99.6, R=17, BP=92/58, P=100bpm
- Goal: return to highest level of functionality a an independent community ambulator and return to her personal home to live alone
- Let's do the Braden together





**Braden Parameters** 

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### Sensory Perception 1. Completely Limited

- 2. Very Limited 3. Slightly Limited
- 4. No Impairment
- **Mobility** 1. Completely Immobile
- 2 Very Limited 3. Slightly Limited 4. No Limitations
- **Moisture** 1. Constantly Moist
- 2. Very Moist 3. Occasionally
- Moist 4. Rarely Moist
  - **Nutrition**
- 1. Very Poor 2. Probably Inadequate
- 3 Adequate 4. Excellent

### Activity

- 1. Bedfast
- 2. Chairfast
- (3) Walks Occasionally 4. Walks Freq.
- Friction & Shear
- . Problem Potential Problem
- 3 No Apparent Problem???

### **Braden Scale Scores**

□ Mild Risk = 15 - 18

Moderate Risk = 13 - 14

□ High Risk = 10 - 12

 $\Box$  Very High Risk = 9 or below



\*\*If other major risk factors are present (e.g., age, fever, poor dietary intake of protein, diastolic pressure <60, and/or hemodynamic instability), advance to next level of risk.

### **Nutrition for PrU Prevention**

- Screen/ assess the nutritional status of everyone at risk for pressure ulcers in each health care setting.
  - Use a valid, reliable and practical tool
  - Have a nutritional screening policy in place along with recommended frequency of screening for implementation
- Refer each person with nutritional and pressure ulcer risk to a registered dietitian
- □ Refer to a multidisciplinary nutritional team
  - registered dietitian, a nurse specializing in nutrition, physician, speech/language therapist, occupational therapist, when necessary a dentist

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### Nutrition

### F314 Triggers F327 Nutrition Tag

- Adequate nutrition and hydration assessment and evaluation provided
- □ Food intake and Weight loss monitoring
- □ Nutritional goals for prevention and healing of PrU
- □ Protein 1.2-1.5 gm/kg body weight daily
- □ Adequate energy needed to spare protein
- □ How do you implement your nutrition interventions?

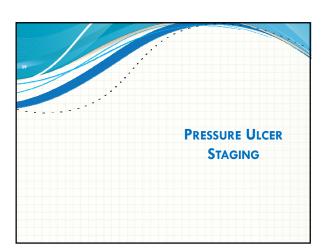
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Owner/Provider Perspective on	
Prevention 34	
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PRESSURE ULCER ASSESSMENT, TREATMENT,	
MONITORING	
AND	
DOCUMENTATION	
Owner/Provider Perspective on	
Treatment	
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# Top Five Deficiencies in 2015 , in New MDS Targeted Survey Process Pilot

- Failure of facility staff to accurately reflect status of resident related to:
  - level of injury sustained during a fall as a major injury
  - pressure ulcer stage
  - restraint use other than side rails
  - diagnoses of neurogenic bladder and/or obstructive uropathy
  - late loss ADL status. Late loss ADLs include bed mobility, toileting, transfer, and eating

### Survey Pressure Ulcer Staging Findings

- □ Presence, worsening & staging of ulcers evaluated
  - All three areas showed significant disagreement
- □ 18.3% staging was **not accurately** identified
- Statements from surveyors & consultants indicate <u>lack of</u> <u>accurate clinical assessment of ulcer</u> lead to error in staging in medical record
- Stage reporting follows RAI definitions; Section M, Page M-8 through M-20. October 2015 version
- □ Change from MDS 2.0 to 3.0 − <u>don't downgrade the</u>
  <u>stage</u> − Stage 4 is always a Stage 4 − it is a healing
  Stage 4



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### NPUAP Staging- Pressure Ulcers P

### Classification by Staging

- □ Identify pressure ulcers by tissue layer involved
- Anatomic description of wound depth
- □ NPUAP Revised Feb 2007
  - Suspected Deep Tissue Injury
  - Stage I
  - Stage II
  - Stage III
  - Stage IV
  - Unstageable
- □ Should only be used on wounds caused by <u>pressure!</u>
- NPUAP.org

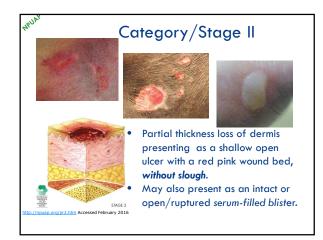


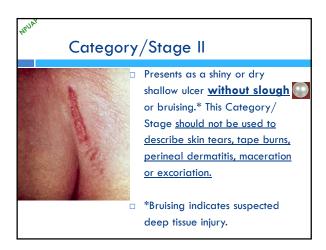


### Category/Stage I

- This area may be painful, firm, soft, warmer, or cooler as compared to adjacent tissue.
- Category/Stage I may be difficult to detect in individuals with dark skin tones.
- May indicate "at risk" persons (a heralding sign of risk).

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# henry and a second seco

### Category/Stage III

- Depth varies by anatomic location.
- ☐ The bridge of the nose, ear, occiput, and malleolus do not have subcutaneous tissue so Category/ Stage III ulcers can be shallow.
- Areas of significant adiposity can have extremely deep Category/Stage III pressure ulcers.
- Bone/tendon is not visible or directly palpable.



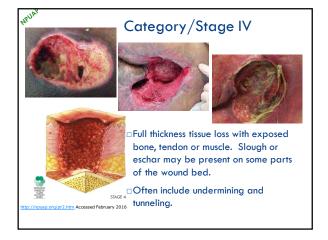






nce at ear Deep appearance at hip

Both are Stage III



### Category/Stage IV

- Depth varies by anatomical location. The bridge of the nose, ear, occiput, and malleolus do not have subcutaneous tissue and these ulcers can be shallow.
- □ Category/Stage IV ulcers can extend into muscle and/or supporting structures (e.g. fascia, tendon or joint capsule) making osteomyelitis possible. Exposed bone/tendon is <u>visible or</u> directly palpable.
- □ New from NPUAP 9/12
  - Cartilage position statement

# Category/Stage IV PrU **Anatomical Variations** Shallow appearance at ankl Deep appearance at hip (note nonviable tendon)

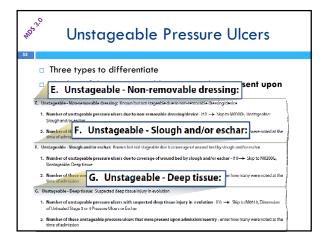




### Unstageable

Until enough slough and/or eschar is removed to expose the base of the wound, the true depth, and therefore Category/Stage, cannot be determined.





### w<sup>uys</sup> Unstageable Heels

Stable (dry, adherent, intact without erythema or fluctuance) eschar on the heels serves as "the body's natural (biological) cover" and should not be removed.





# M0300E Unstageable Non-Removable Dressing

 Known but not stageable because of the non-removable dressing





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### MD5 3.0

## M0300F Unstageable Slough and/ or Eschar

- Known but not stageable related to coverage of wound bed by slough and/ or eschar
- □ Full thickness tissue loss
- □ Base of ulcer covered by slough (yellow, tan, gray, green or brown) and/or eschar (tan, brown or black) in the wound bed



### MD5 3.0

### MO300G Unstageable Suspected Deep Tissue Injury (sDTI)



Purple/Maroon
discolored
intact skin

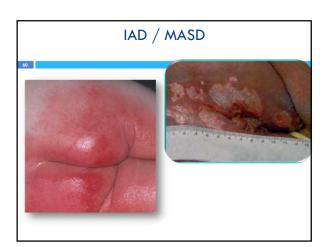
### M0300B Coding of Intact Serum Filled Blisters

- Examine area adjacent to or surrounding an intact blister for evidence of tissue damage.
- If other conditions are ruled out and the tissue adjacent to, or surrounding the blister demonstrates signs of tissue damage, (e.g., color change, tenderness, bogginess or firmness, warmth or coolness) these characteristics suggest a suspected deep tissue injury (sDTI) rather than a Stage 2 Pressure Ulcer.
- Stage 2 pressure ulcers will generally lack the surrounding characteristics found with a deep tissue injury.





- DTI may present as a pale, waxy white area in light-skinned people
- Or a lighter patch of skin surrounded by abnormally darker areas in dark-skinned people that shows no change in color when the capillary refill is tested
- (From Farid K. Applying observations from forensic science to understanding the development of pressure ulcers. Ostomy Wound Management 2007;53(4):26-44.)



<u>Skin Changes at Life's End</u>
(SCALE)

**AKA** 

Kennedy Terminal Ulcer AKA

Unavoidable Pressure Ulcer

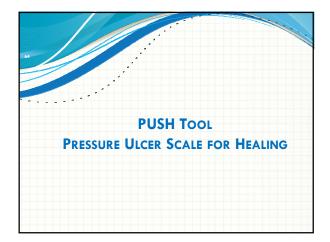
# End-Stage Organ Decompensation & Failure

- $\hfill\Box$  Large and unusual presentations of skin failure
- □ Body <u>shunts blood to vital organs</u>
- Widespread and deep tissue destruction over stressed areas can appear in a matter of hours or less
  - Sacrum
  - Heels
  - Posterior calf muscles
  - □ Arms
  - Elbows

### **Kennedy Terminal Ulcer**

- □ <u>An UN-avoidable ulcer</u>
- $\hfill\Box$  Residents with these ulcers at end stage of life
- □ Usually appears about 2 to 6 weeks before death
- · Rapid onset
- Large ulcers in a butterfly or pear shape
- Progresses to full-thickness
- Often a precursor to multi-organ failure
- Exact cause unknown





### **PUSH Tool**

### Comprised of 3 variables:

- Surface area (L x W)
- 2. Exudate amount
- 3. Tissue appearance

Add the three values together to get a PUSH Score. The score should then be plotted on the PUSH graph. Trends for healing or deterioration can be noted over time, and this visually supports your written documentation.

- Score of 0 indicates PrU has resolved; highest score of 17 indicates wound degeneration
- Score is plotted on a PrU healing record and graph

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### How to Calculate the PUSH Score

Length: Head to toe; Width: Side to side; Multiply: L x W (cm2) (use centimeters)

<u>Always</u> use a centimeter ruler and use the same method each time the ulcer is measured.

### PUSH Tool

LENGTH	0	1	2	3	4	5
X WIDTH	0	< 0.3	0.3 - 0.6	0.7 - 1.0	1.1 - 2.0	2.1 - 3.0
WIDIN		6	7	8	9	10
(in cm²)		3.1 – 4.0	4.1 – 8.0	8.1 – 12.0	12.1 - 24.0	> 24.0
EXUDATE Amount	0	1	2	3		
	None	Light	Moderate	Heavy		
TISSUE	0	- 1	2	3	4	
TYPE	Closed	Epithelial Tiesua	Granulation	Slough	Necrotic	

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Exudate Amount: Estimate the amount of exudate (drainage) present after removal of the dressing and before applying any topical agent to the ulcer. Estimate the exudate (drainage)-periodic plants of the exidate (drainage)-periodic plants of the experiodic plants of the e

### How to Calculate the PUSH Score

**Tissue Type:** This refers to the types of tissue that are present in the wound (ulcer) bed. Score as a "4" if there is  $\underline{any}$  necrotic tissue present. Score as a "3" if there is  $\underline{any}$  amount of slough present and necrotic tissue is absent. Score as a "2" if the wound is clean and contains granulation tissue. A superficial wound that is reepithelializing is scored as a "1". When the wound is closed, score as a "0" a "0"

4 - Necrotic Tissue (Eschar): black, brown, or tan tissue that adheres firmly to the wound bed or ulcer

edges and may be either firmer or softer than surrounding skin.

- **3 Slough:** yellow or white tissue that adheres to the ulcer bed in strings or thick clumps, or is mucinous.
- **2 Granulation Tissue:** pink or beefy red tissue with a shiny, moist, granular appearance.
- 1 Epithelial Tissue: for superficial ulcers, new pink or shiny tissue (skin) that grows in from the edges or
- as islands on the ulcer surface.
- 0 Closed/Resurfaced: the wound is completely covered with epithelium (new skin).

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  Technologies, www.amtwoundcare.com

### Applying Your Knowledge

- For each case, read the info provided and determine the wound surface are (I x w), amount of exudate and predominant tissue type
- □ Take that information and calculate the PUSH score

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### Case 1

Dimensions: 4.0cm x 6.5cm



Exudate: – wound tissue is moist, no measurable drainage

Predominant tissue type: ?

PUSH Score: ?

Stage: ?

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### Case 2



Dimensions: 7.0cm x 2.5cm

Exudate: – wound tissue is moist, no measurable drainage

Predominant tissue type: ?

PUSH Score: ?

Stage: ?

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### Summary

- Only stage pressure ulcers and use the NPUAP staging system
- Describe wound characteristics including tissue types at the wound base, edge/margin, and periwound area
- Use clinical judgment to quantify wound exudate
- $\hfill \square$  Measure wounds properly using I x w x d in cm using the clock method for describing location
- Use validated tools like the PUSH Tool to monitor healing

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# PRESSURE ULCER TREATMENT INTERVENTIONS

## F314 Interpretative Guidelines 483.25(c)

Based upon the assessment and the resident's clinical condition, choices & identified needs, basic or routine care should include interventions to:

- a) Redistribute pressure (such as repositioning, protecting heels, etc)
- b) Minimize exposure to moisture & keep skin clean, especially of fecal contamination;
- c) Provide appropriate pressure redistributing, support surfaces;
- d) Provide non-irritating surfaces;
- e) Maintain or improve (where feasible) nutrition and hydration status, monitor and evaluate interventions.

1	Nutrition	and	Pressure	Ulcer	Care
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- 74
  - □ Caloric needs: 30-35 kcal/kg body weight
  - □ Protein needs: 1.25-1.5 g/kg body weight
  - □ Fluid needs: 1 ml/kcal or 1500 ml/day minimum
  - □ Monitor and evaluate intake
  - □ Monitor tolerance of supplements
  - □ Modify interventions as needed
  - □ Document!



### F314 & Repositioning

D

- Repositioning:
  - □ Common, effective intervention
    - person with PrU
    - person at risk for developing PrU
  - Critical for immobile residents (or those dependent upon staff for repositioning)
- □ Resident care plan for those at risk of friction/shearing with repositioning may require the use of lifting devices
- Positioning the resident on an existing pressure ulcer should be avoided
- Adds pressure to compromised tissue
- May impede healing

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# Pressure Relieving vs. Pressure Redistribution check on this

### **Pressure Relieving**

### Defined as complete removal of all pressure

- □ Ex. Floating heels
- □ High risk individuals
- □ Those with PrUs
- □ Ex. Clinitron, Dolphin
- Alternating pressure matresses

### Pressure Redistribution

- Reduces but does not relieve the pressure
- □ Ex. Low air loss
- □ Give examples

### PRESSURE REDISTRIBUTION

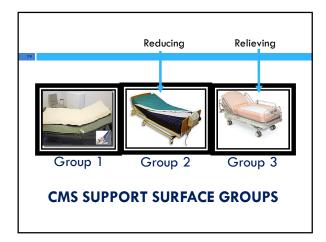
- Ability of support surface to distribute load over contact areas of body
- Pressure reducing interventions should be individualized to the residents impairments



### **HOW SUPPORT SURFACES WORK**

- □ Immersion and envelopment reduce tissue stress
- Increasing the contact area between the support surface and individual's body
- $\hfill\Box$  Allowing for  $\underline{\textbf{pressure redistribution}}$



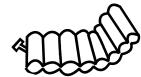




## F314 & Support Surfaces; Pressure Redistribution

- Match a device's potential therapeutic benefit with the resident's specific situation
- Multiple ulcers
- Limited turning surfaces
- Ability to maintain position
- Effectiveness is based on their potential to address
  - Individual resident's risk
  - Resident's response to the product
- The characteristics and condition of the product

- Examples of these surfaces or devices include:
  - 4-inch convoluted foam
  - Gel pads
  - Air fluidized beds
  - Low loss air mattresses



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Foundation for Wound Closure and Subsequent Healing

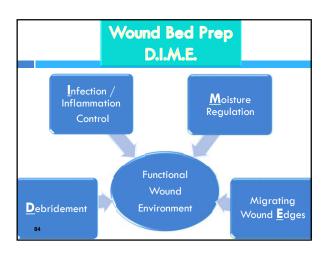
Wound Bed Preparation

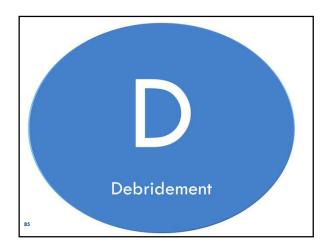
### **Wound Bed Preparation**

- □ WBP model <u>dependent on effective and</u> <u>accurate patient and wound assessment</u>
- Important to integrate WBP components into an overall program of care that addresses all other aspects of the patient's treatment
- □ For example:
  - □ Pressure ulcers will not heal without:
    - Absence of dead (necrotic) tissue
    - Absence of infection
    - Adequate nutrition and hydration
    - Blood glucose control in residents with diabetes
    - Offloading of ulcers

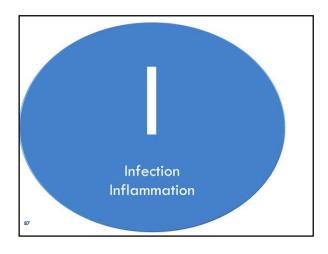
# Overall Goal of Wound Bed Preparation

Create an optimal wound healing environment by producing a well-vascularized, stable, moist wound bed





Debridement Options				
Туре	Description	Examples		
Autolytic	Body's immune responses dissolves necrotic tissue; requires have intact immune system	Moist gauze, polymeric membranes, hydrogel dressings		
Mechanical Removal of necrotic tissue I mechanical means		Wet-to-dry, wound scrubbing, hydrotherapy, LFU		
Surgical/Sharp	Removal by instruments/cutting equipment	Scalpel, scissors, curettes		
Hydrosurgical	High-energy saline beam cutting instrument	Hydrosurgery system		
Biosurgical	Sterile larvae selectively digest necrotic tissue and bacteria	Blowfly larvae		
Enzymatic	Topical application of enzymes to liquefy necrotic tissue	Collagenase		

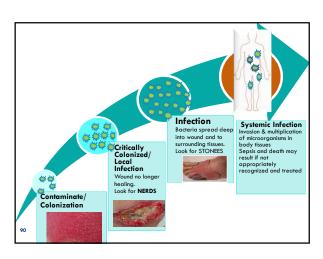


## Bacteria in Wound Bed and Chronic Inflammation

- Bacteria in chronic wound often at greater levels than host's ability to control
- Interfere with host cells and the cascade of chemical reactions that should lead to wound closure
- □ Produce chemicals (eg MMPs) destructive to tissue
- □ Stimulate host cells to produce more and more inflammatory mediators
- □ Stimulus for persistently high levels of MMPs being released from inflammatory cells that digest normal collagen scaffold in wound bed

### What to Do?

- Stalled wound with excessive MMPs treat persistent inflammation
- 2. Local wound infection-treat superficial wound infection
- 3. Systemic infection-treat deep wound infection
- NERDS and STONEES acronym may be helpful



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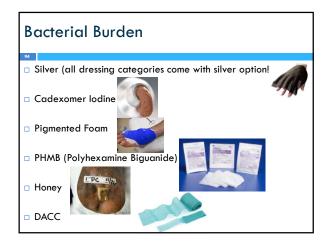
- ☐ General overuse of antibiotics has created super bugs which have mutated causing common antibiotics to become ineffective
- Growth of resistant strains (MRSA, VRE)
- Morbidity associated with overuse of antibiotics

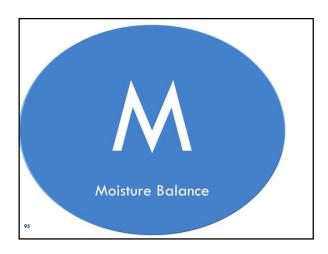
### **Topical Antimicrobials**

- $\hfill\Box$  Include both antiseptics and antibiotics
  - Antibiotics should still be used with caution and possibly specificity
- □ In the absence of advancing cellulitis, bacteremia fever or pain, topical treatment may provide best first-line therapy

Dressings to Treat Locally Infected Wounds

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### Addressing Moisture Balance

- ☐ Goal: Creation and maintenance of a warm, moist wound bed
- □ Outcome: Positive impact on wound healing
- □ Delicate process of maintaining moist healing
- □ Needed for optimal healing
- □ Moisture balance needed for:
  - Support of growth factors and cytokines
  - Growth and movement of proliferating cells (keratinocytes, fibroblast)



### **Dressings Overall Properties**

- □ Occlusive
- □ Semiocclusive
- □ Absorptive
- Hydrating
- Insulate
- Address bacterial load

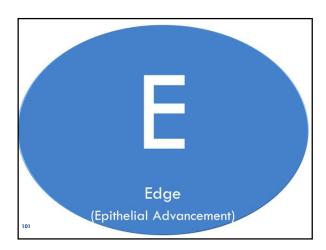
Primary Categories and Functions					
99	Films	Hydrogels	Alginates/ Hydrofibers	Foams	Hydrocolloids
Cover Protect	≋	Sheet		$\approx$	$\approx$
Hydrate					
Maintains Moisture/ Autolytic Support	X	$\boxtimes$	$\bowtie$	pprox	$\bowtie$
Adds moisture		$\boxtimes$			
Absorb			$\bowtie$	$\approx$	
Fill Space		Impregnated Gauze	æ		

# DRESSING CHANGE GUIDELINES THAT MEETS INFECTION CONTROL PRACTICES

Frequently Cited by Surveyor

- F441(Infection Control)
- F281(Standards of Practice)

See Dressing Change Checklist

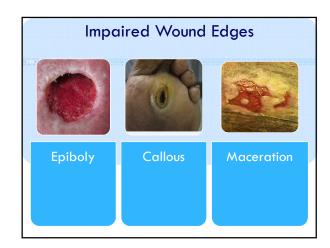


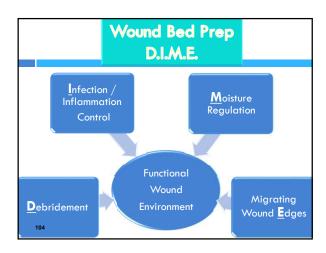
### Goals for Wound Edges

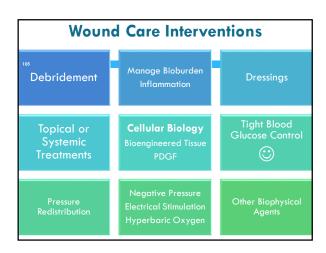
- Edge of wound facilitates keratinocyte migration for facilitation of re-epithelialization
- □ Attached to wound bed
- □ Not macerated
- □ No callus



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F314- DRESSINGS & TREATMENTS	
5	
A facility should be able to show that its document	-
treatment protocols are based upon <u>current standards of</u> <u>practice</u>	
<del></del>	
Are in accord with the facility's policies and procedures	
And these policies and procedures are developed with the	
medical director's review and approval (F501)	
Do treatments with	
these products meet	
the "current standards Solution of Hudrogen	
of practice"?	
the state of the s	
**HEEDS	
A D	
Documenting a Non-Healing Pressure	
UlcerPer CMS	
☐ If pressure ulcer not healing, the reason for	
continuing the current treatment must be	
<u>documented</u> .	
□ Example-hospice/palliative care	
□ Wound healing not the goal	
□ Odor control	
□ Preventing infections	
□ Pain control	
107	
When to Change the Treatment	
Interventions	
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## A Few Words About Gauze

- □ Permeable to bacteria
  - 64 layers
  - Airborne release
  - Will NOT prevent bacterial contamination
  - □ 3x Higher infection rate
- □ Frequency of change
  - Fibers
- □ Pain

# CMS-F314: "Some facilities may use "wet to dry gauze dressings" or irrigation with chemical solutions to remove slough. The use of wet-to-dry dressings or irrigations may be appropriate in limited circumstances, but repeated use may damage healthy granulation tissue in healing ulcers and may lead to excessive bleeding and increased resident pain." NPUAP: Avoid use of gauze dressings for clean, open pressure ulcers because they are labor-intensive to use, cause pain when removed if dry, and lead to desiccation of viable tissue if they dry.



III December 1	-
Documentation	
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MS Instructions to Surveyors:	
Ulcer Documentation Requirements	-
<ul> <li>Differentiate the type of ulcer (pressure-related versus non- pressure-related) because interventions may vary</li> </ul>	-
depending on the specific type of ulcer;	
□ Determine the ulcer's stage;	
□ Describe and monitor the ulcer's characteristics;	
□ Monitor the progress toward healing and for potential	
complications;	
□ Determine if infection is present;	
□ Assess, treat and monitor pain, if present; and	
□ Monitor dressings and treatments	
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Surveyor Documentation Expectations at	
Dressing Change or at Least Weekly	
14	
Location and staging	
Size L x W x D	
Presence, location, extent of undermining/tunneling/sinus tract	
Exudate, type (i.e. purulent/serous), color, odor, amount;	
Pain: nature/frequency (e.g., episodic or continuous)	
Wound bed: Color, type of tissue/character, evidence of healing	
(e.g., granulation tissue), or necrosis (slough or eschar)	
Describe wound edges	
Periwound-surrounding tissue (e.g., rolled edges, redness, hardness/induration, maceration)	
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Care P	lanning	] _		
Do what you document!!! Document what you do!!!		_ _		
		_		
		_		
State Operations Manual Appendix PP - Guidance to Surveyors for Long- Term Care Facilities	Minimum Data Set (MDS) 3.0	_ _		
Prevention	our Wound and Care gram	-		
Resident Assessment Instrument (RAI)	NPUAP Prevention & Treatment of Pressure Ulcers: Clinical Practice Guidelines	-		
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Thank You!!!		_		
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