

VUH Pressure Injury Prevention Champion Class

FY 2024

Objectives



Purpose

- Prevent patient harm
 - Pain
 - Delayed recover
 - Longer hospital stay
- Patients who develop a HAPI are 2.8 times more likely to die during their hospital stay and 1.69 times to die within 30 days of discharge.
- Cost of PI to hospital
11 billion aggregate cost annually (<https://europepmc.org/article/nbk/nbk54557>)





Skin Champion Remodeling

The role of the “Skin Champion” is shifting from when it was originally introduced at VUH, based on findings from a Failure Modes and Effect Analysis (FMEA) that was conducted on the VUH Pressure Injury Prevention and Identification Program

The goal is for Champions to be focused more on prevention

The “Skin Champion” title will change to “Pressure Injury Prevention Champion” as these champions are trained on PI prevention strategies.

Pressure Injury Prevention (PIP) Champion Roles and Responsibilities



Provide at the elbow support to bedside staff for pressure injury prevention by:

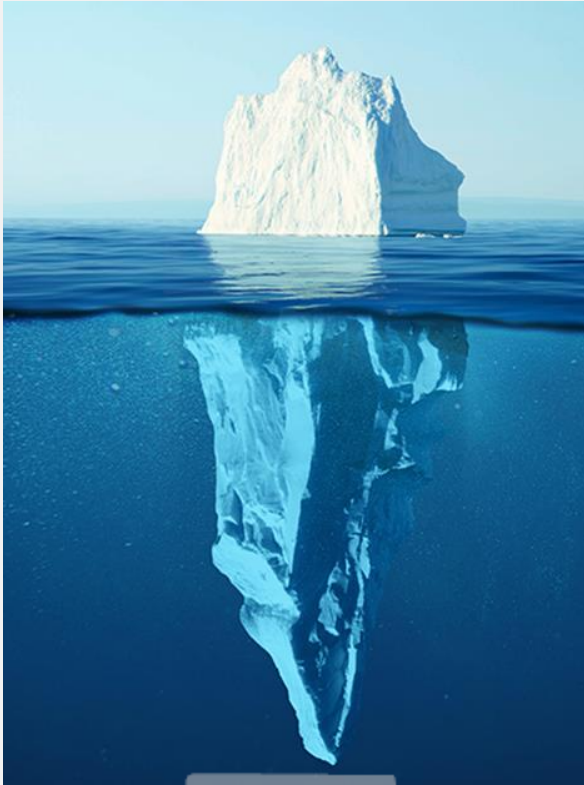
- Participating in 50% monthly/quarterly PI surveys (6 out of 12) and use findings to drive unit-based interventions
 - **Or** complete PI prevention related activities in partnership with unit leadership, such as K-Card rounding, repositioning audits, etc.
- PI prevention monthly education (flyer, presenting info/data at unit board/staff meeting, rounding, etc.)
- Acting as liaison between bedside staff, manager, CNS, Nursing Education Specialist, and Wound Experts
- Encourage participation in the VUH Pressure Injury Prevention (PIP) Committee Meeting

PIP Champion Competency

- PIP Champions must:
 - Complete initial training
 - Pre-existing Skin Champions will need to go through PIP Champion Training to be trained on prevention strategies
 - Annual competency must be completed to maintain PIP Champion status
 - The competency will align with the roles and responsibility of the PIP Champion.



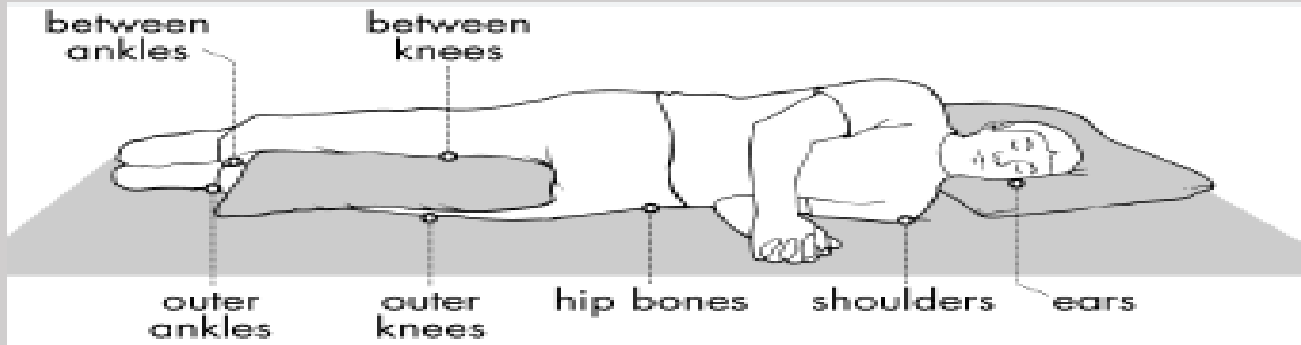
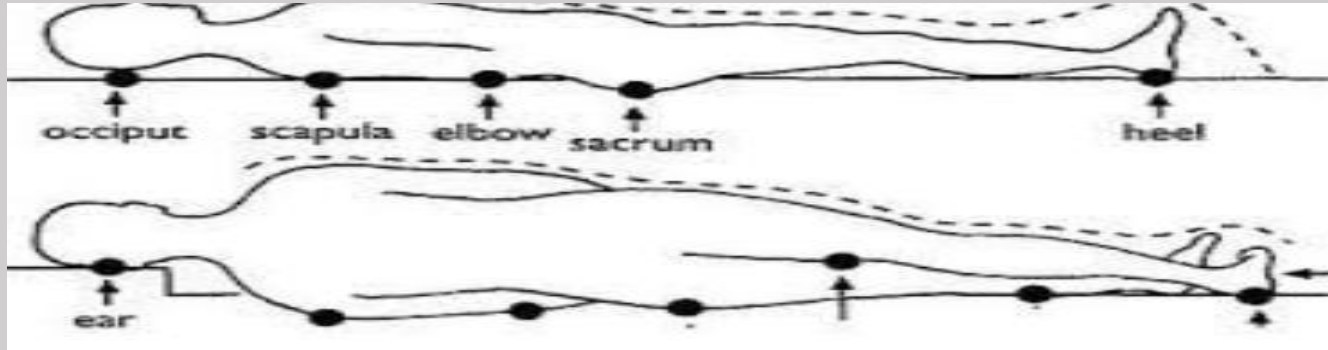
What is a Pressure Injury



- Localized damage to the skin and underlying soft tissue
 - Open or intact skin
- Multiple factors can lead to PI development
- Nursing Sensitive Indicator
- Cone-shape distribution

The visible injury may be just the “*tip of the iceberg*”

BONY PROMINENCES



Skin Assessment Reminders

Skin Assessment

- Complete a head-to-toe skin assessment, assessing all pressure points including those underneath preventive foam dressings and around medical devices.

Skin Assessment Frequency

- Complete a head-to-toe skin assessment assessing all pressure points:
 - ✓ Within 8 hours of admission;
 - ✓ Every shift; AND
 - ✓ With significant change in the patient's condition

Braden Risk Scale

- Complete a Braden Risk Scale:
 - ✓ Within 8 hours of admission;
 - ✓ Every shift; AND
 - ✓ With significant change in the patient's condition

Braden PI Risk Score

- Braden PI risk score = **18 or less**
- Additional Considerations:
 - If a patient has an existing PI, they should be considered “at risk” regardless of Braden
 - Interventions to reduce PI risk target the Braden sub-scores is located on the PIPs website
 - Sub-score definitions and suggestions for intervention items are also found in e-Star sidebar

BRADEN RISK FACTORS (if yes)

Mobility

- Makes no changes in body positions
- Very limited on movements

Activity

- Bedfast
- Ambulation is limited to non-existent

Sensory

- Unresponsive
- Very limited response to stimuli

Shear/Friction

- Needs maximum or moderate assistance in moving
- Slides down in bed or chair frequently

Nutrition

- NPO or clear liquids for greater than 5 days
- Eats less than 50% of meals per day
- Receives less than optimum tube feeds

Moisture

- Constantly wet from urine or stool
- Linens changed once per shift

Then consider these INTERVENTIONS for your patient

Turning Schedule



Reposition q 2 hours



Chair Cushion



Repositioning system



Heel boot



Mepilex sacral heel foam



Mepilex heel



Trapeze



Repositioning system



Mepilex sacral



Mepilex heel



Consider Nutrition Consult



Criticaid ointment



3M barrier spray



Barrier cloth wipes

Other items to consider:

- Condom catheter
- PureWick female catheter
- Rectal pouch
- Bowel management

Braden Scale for Risk Assessment Tool

**Sensory
Perception**

Moisture

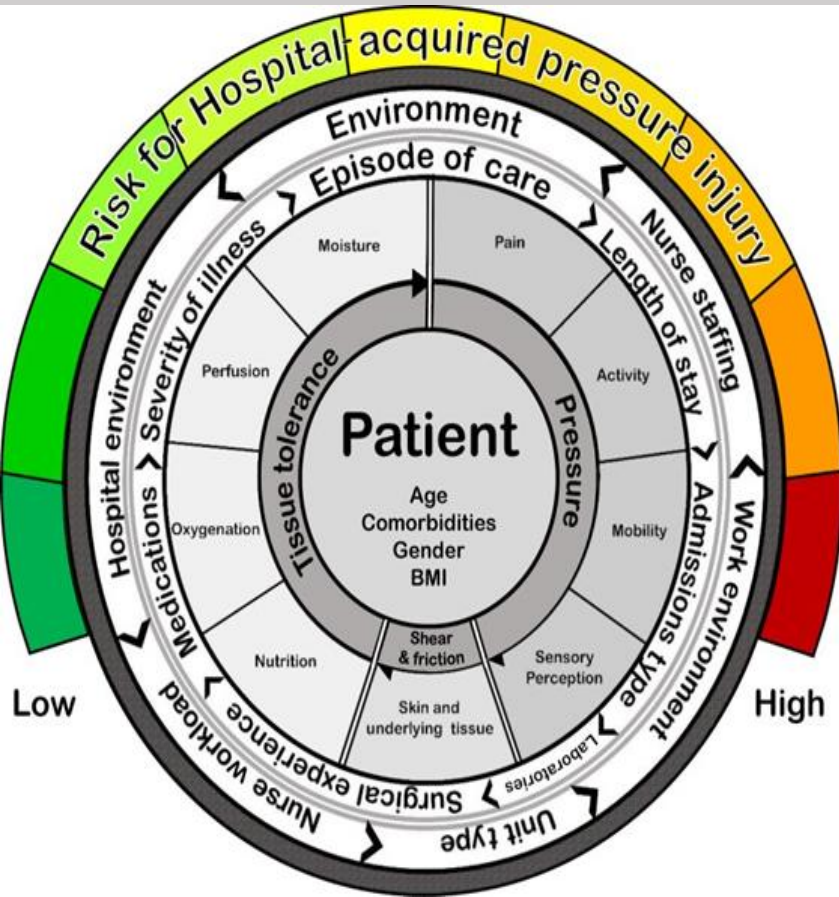
Activity

Mobility

Nutrition

Friction & Shear

Additional PI Risk Factors



Medical device = 2.4x risk
 Oxygen support = 5x risk
 Vasopressor use = 8x risk
 Length of Stay greater than x risk days = 7.5x risk

Higher glucose, BUN and creatinine levels
 Low Albumin and Hemoglobin levels
 Chronic conditions
 Extreme BMIs (morbid obesity or underweight)
 Extreme temperatures (hypothermia and fever)
 Patients with an admit to ICU or surgical unit

Low bed turnover
 Nurse staffing (hours per day)
 Nursing skill mix
 Expertise of staff

VUAH Pressure Injury (PI) Prevention and Treatment Guidelines

Perform skin assessment and Braden risk scale within 8 hours of admission, every shift, and with significant change in patient condition (i.e., surgery, decline in condition).

"AT RISK" IS 18 OR LESS

PREVENTION GUIDELINES: INITIATE FOR **ALL AT RISK PATIENTS AND FOR ANY STAGE PRESSURE INJURY**

- Consider pressure redistribution devices: air chair cushion, foam heel boots, foam dressings, bed (see Bed Selection Guidelines)
- Reposition: q2 hours while in bed; KEEP OFF area of pressure injury
- Chair considerations: For patient unable to reposition themselves, reposition at least q1 hour; Consider sitting limitations (2 hours for at risk patient; 1 hour, TID for patient with ischial or sacral PI; Modify/reduce sitting schedule if PI worsens)
- Shear/Friction reduction: Turn & position system, pull/slippery sheets, overbed trapeze, hover mat
- HOB less than or equal to 30 degrees unless clinically contraindicated
- Initiate adult urinary & fecal incontinence guidelines

-AND-

STAGE 1

- Prevention guidelines (see above)
- Apply foam dressing. Change twice a week and prn*
- *If dressing must be changed >1x/day, remove dressing and use barrier cream tid and prn only

STAGE 2

- Prevention guidelines (see above)
- Intact blister: DO NOT OPEN OR DRAIN
- Open stage 2: Cleanse with normal saline, apply foam dressing. Change twice a week and prn*
- *If dressing must be changed >1x/day, remove dressing and use barrier cream tid and prn only

REQUIRED: Notify Provider for Adult Wound consult for DTI, stage 3, 4, & unstageable PI and follow instructions below:

STAGE 3 & DTI

- Prevention guidelines (see above)
- Cleanse with NS, protect periwound with skin sealant wipe or spray
- Apply foam dressing; Change twice a week and prn

STAGE 4

- Prevention guidelines (see above)
- Cleanse with NS, protect periwound with skin sealant wipe or spray
- Apply dressing: NS moistened kerlix roll gauze, cover w/ ABD pad and secure, change q12h

UNSTAGEABLE

- Prevention guidelines (see above)
- Apply dry gauze dressing; Change daily

OTHER:

- Consider consults to Nutrition, PT/OT, Case Management/Social Work
- Provide patient and family education: "Pressure Injury Prevention: Help Us Protect Your Skin" (eDocs), Krames HealthSheets, Mosby's/Elsevier, and/or GetWell Network
- Discharge planning: Wound care supplies and instructions, home health referral, bed and chair devices
- DOCUMENT: Assessment, interventions, education, consults, discharge planning

You can ask the patient's primary team for a consult to the Adult Wound Team with concerns for ANY pressure injury

Five-Layer Foam Dressings

Mepilex® Border Sacrum



Sacral



Heel



4x4 Square

5 Layer Foam Sacral Dressing Application



1. Area to protect. Assess the patient's anatomy and determine appropriate dressing positioning.



2. After skin is prepared, remove the center release film by gently pulling on pink-lined edge.



3. Hold buttocks apart. Apply dressing to sacral area and into upper aspect of gluteal cleft, with dressing "base" positioned to cover coccyx area.



4. Remove side release films and gently smooth each side into place.



5. Product placement.



6. Press and smooth the dressing to ensure the entire dressing is in contact with the skin.



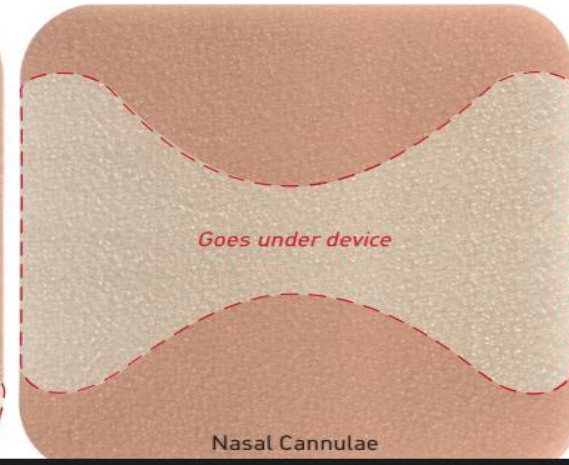
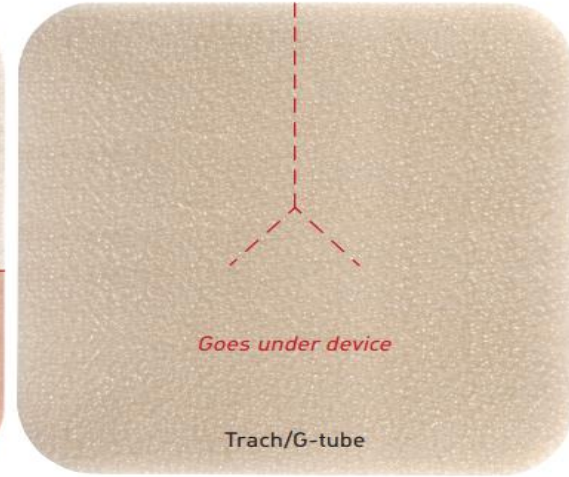
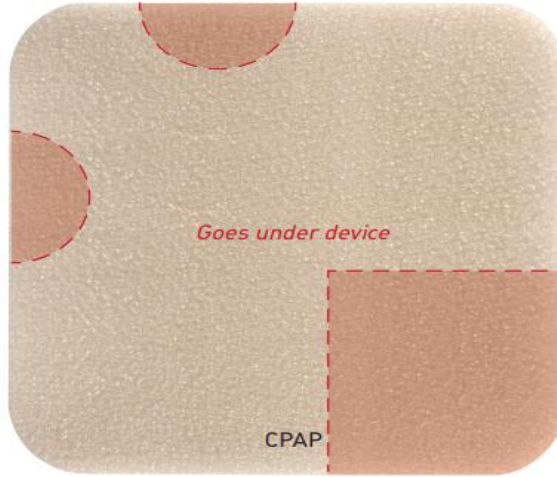
Device Related Pressure Injuries



Lite Foam Dressing - Device Related Prevention

Cutting Guide

Select the dressing size appropriate to cover the affected area and cut to customize around unique patient needs/body contours, device shapes.



Vanderbilt - Fixed Medical Device Dressing Selection Guide

Objective: Protect tissue and minimize friction, shear and moisture from fixed devices using Mepilex® and Mepilex® Lite



Mepilex® Lite

PMM
4x4 #75441



Mepilex®

PMM
4x4 #75440
4x8 #83549

Notations

- Wear time: Up to 7 days
- Fenestrate/cut product PRN to accommodate tube sites
- When cutting products, leave backing film in place. Cut to desired shape
- Products listed on this guide are not suitable for fixation of life sustaining devices
- Dressings with Safetac® technology DO NOT require use of skin barrier products



CPAP/BiPAP



O2 Mask Strap



ET Tube with Tape



Nasal Cannulae



Brace/Cast



Tracheostomy Tie



Tracheostomy



Nasal Cannulae with Ear Protection



C-Collar



Multipodis Boot



G-Tube

See reverse side for Mepilex® Cutting Guide



Devices & PI Development

- The presence of a medical device more than doubles risk of HAPI formation
 - Tubes, lines, and drains
 - Trach plates and sutures
 - Padding devices
 - Apply protective dressings beneath BiPap masks if use is greater than 4hrs.



Forehead SpO2 Monitor

- Rotate pulse ox site every 4 hours and PRN
- Adjust the forehead band tension to align green arrows with indicators
 - Green arrow to green bar – do not overtighten
- Do not add anything between the probe and skin
- Attempt to transition back to a finger probe every once per shift



Repositioning Sheet with Wedges

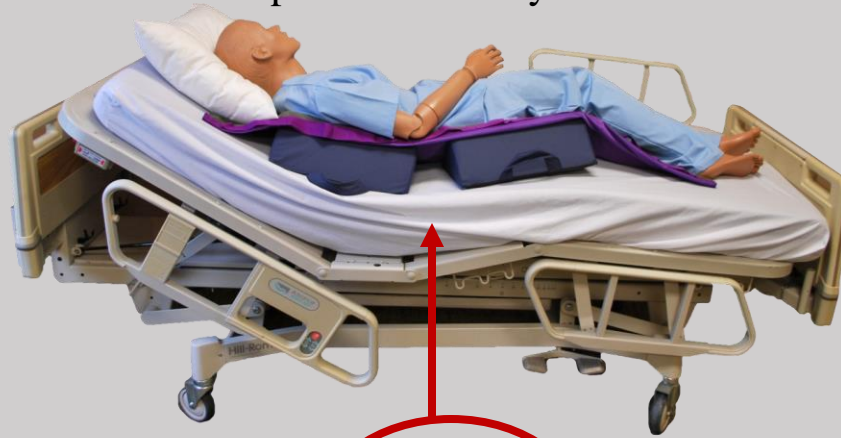
- Positioning Supplies
 - Wedges
 - Slick sheet
 - Hover mat



*****Frequent/adequate repositioning is the most important intervention of all!*****

Effective Repositioning in the Bed

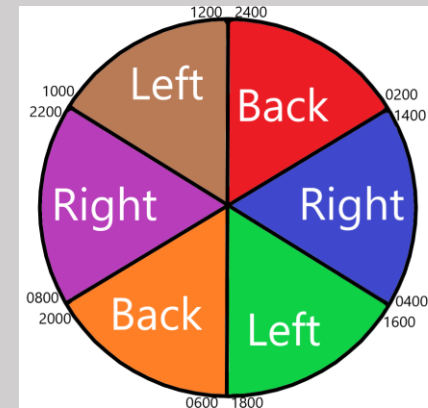
Patients should be repositioned every 2 hours



HOB < 30 degrees if not clinically contraindicated

Mind the Gap

Wedges create an adequate 30-degree turn



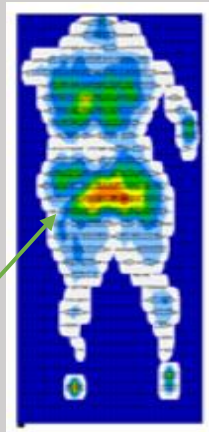
Chair Considerations

- If a patient is sitting at the bedside chair, consider the following time limits:
 - 2 hours max in chair for at risk patient
 - 1-hour TID for patient with ischial or sacral pressure injury
 - Patients should shift their weight in the chair every 15 minutes
 - If the patient is unable to shift their weight, reposition them in the chair every hour

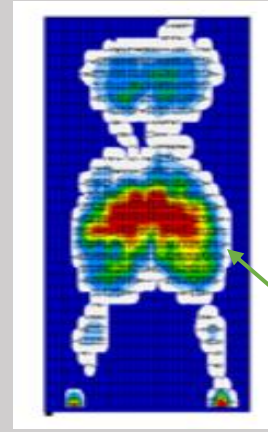
Pressure Injury (PI) Prevention and Sitting

In sitting positions, the pressure is higher than in lying postures.

The risk of pressure injury is *greatly increased* during sitting periods.

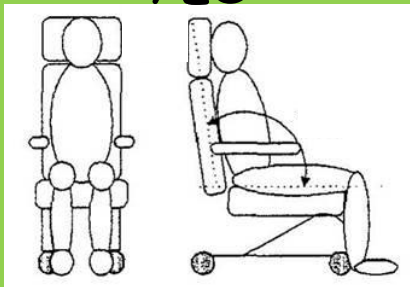


Pressure map in supine position



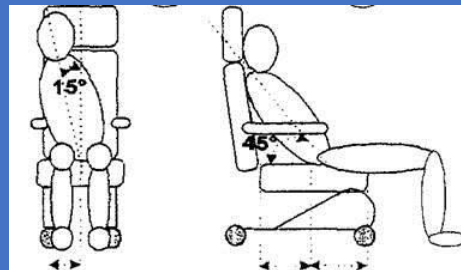
Pressure map in sitting position

YES



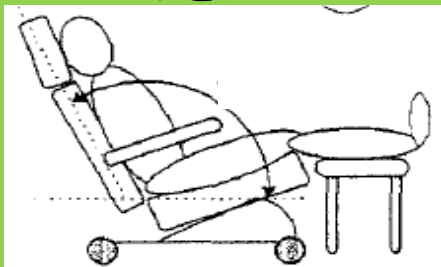
If chair does not recline, sit patient upright with feet on the ground.

NO



Maintain proper position and alignment in chair. Slouched or slid-down postures create significant increases in pressure.

YES

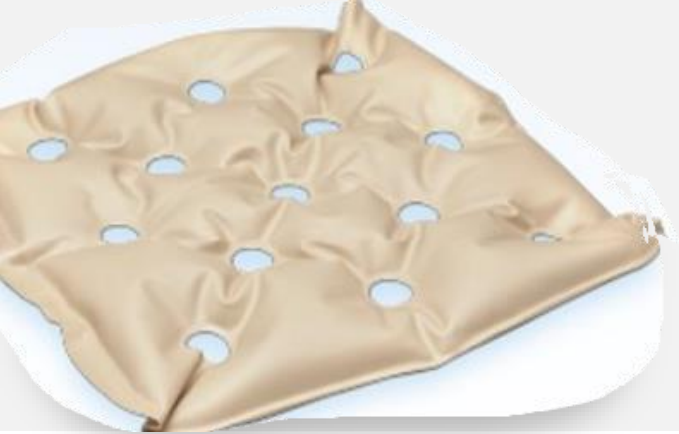


If chair reclines, lean patient back and elevate legs on a rest. Preferred chair position if patient has an ischial PI.

NO



Do not sit patient upright with feet elevated



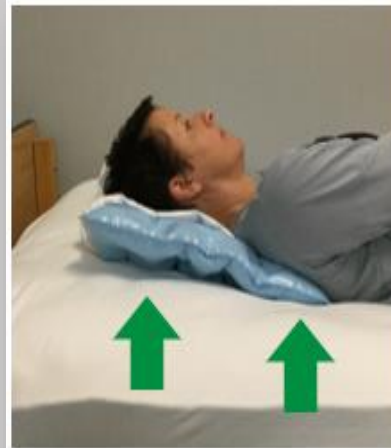
Chair Cushion Reminders



- Standard vs Bariatric Chair Cushions
- Micro-turns in the bed
- Pillows are NOT adequate offloading devices for chair

Head and Occipital PI Prevention Strategies

- Position cushion under shoulders, not just head
- Indications:
 - Patients with Braden 18 or less that does not reposition their own head
 - Existing head wound or PI
 - Neck contracture
- Contraindications:
 - Unstable spine patients



CORRECT



WRONG



VUH HEEL RELIEF: NURSING CONSIDERATIONS

BRADEN SCORE 16-18

OR

PATIENT REFUSES HEEL
LIFT BOOT

Mepilex heel dressing and pillows



correct



incorrect

* Place 1 pillow longitudinally along the length of each calf

BRADEN SCORE 15 or
LESS

Heel Lift Boots



*Consider bariatric heel lift boot if your patient is using bariatric prevention items (generally over 250 lbs).

HEEL /FOOT PI
PRESENT

Heel Dressing +Heel Lift Boots

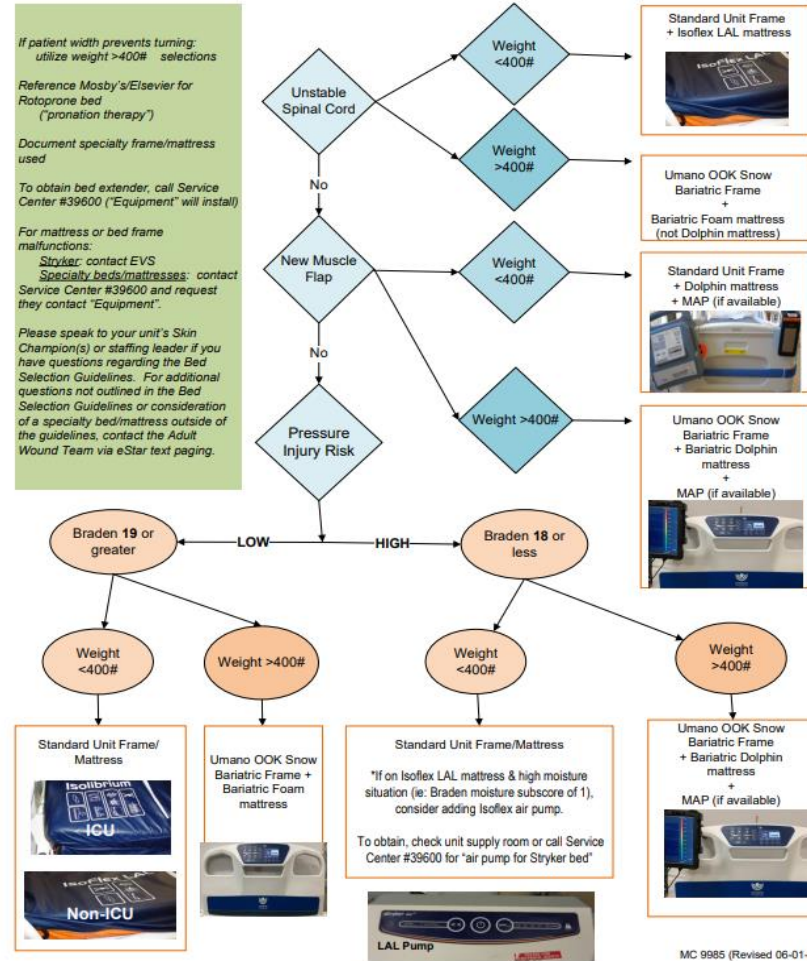
- If no prescribed wound dressing apply Mepilex heel foam



Beds at VUH

- Most units have specific beds and mattresses for their typical patient population.
 - Isolibrium
 - Isoflex LAL
 - Low air loss pump – high moisture
- Specialty Beds
 - Dolphin Bed
 - Bariatric dolphin bed

VUH (Adult) Bed Selection Guidelines



ED Waffle Overlay

- For stretchers in the Emergency Department **only**
- Always place a sheet on top of overlay
- Contraindications:
 - Unstable spine/spinal precautions
 - Recent sacral flap or graft surgery
 - Patient with suicide precautions

WHY should I use my WAFFLE® Overlay?

The tailbone area and heels are at high risk for pressure injuries¹

Pressure injuries (bed sores) can develop when pressure is put on bony areas for long periods of time. This can occur when people with fragile skin are moved in bed.

- 2.5 million patients are affected by pressure injuries each year²
- Pressure injuries can develop within 2 hours of experiencing pressure³

The WAFFLE Overlay Protects You

The WAFFLE Overlay helps take pressure off of bony areas by gently lifting you off the surface when you are lying down for long periods of time. The WAFFLE Overlay is easy to inflate with our hand pump, in an average of 42 strokes.

- Lifts bony areas off the bed when properly inflated
- Allows your body to sink into the product, helping increase comfort
- Unique venting holes provide airflow to keep you comfortable

Take the hand pump with you for any inflation needs

Quick Tip
Your WAFFLE Overlay should only look about **60% FULL**

Continue Your Care With EHOB™
Find the WAFFLE Overlay and other trusted pressure injury prevention products at: <https://shop.ehob.com/>



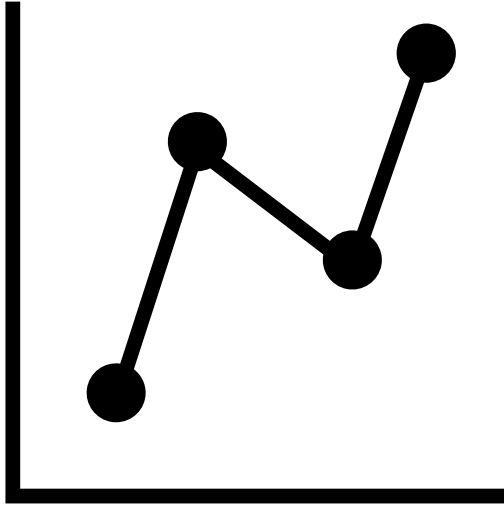
Please remove when patient is transferred to an inpatient bed!

Fluidized Positioner

Only approved on certain inpatient units



Incontinence and Risk for PI Development



- Adult patients with urinary incontinence are 3.7 times more likely to develop a PI
- Adult patients with urinary incontinence and formed fecal incontinence have a 3.8 times greater risk of developing a PI
- Adult patients with urinary and liquid fecal incontinence have up to a 22 times greater risk of developing a PI

Incontinence Management Devices



Chux Pad



External
Catheters



Rectal Pouch



Stool
Management
System

- Provider order required

Additional Considerations

- Patient should not be lying on an existing PI
- Turn patient's head with their body
- Ensure patients who can reposition themselves are doing so and frequently
- Page provider if patient refuses turning and document patient refusal

STATEMENTS TO AVOID:

- Is it alright to reposition you?
- May I turn you now?
- Do you want to be turned now?

USE THESE STATEMENTS INSTEAD:

- **It is time for you to be repositioned.** Can I get anything for you before we start?
- It is good that you are comfortable, but you are at (high/very high) risk to develop a pressure injury (bed sore). I want to make sure that doesn't happen.
- You agreed we could reposition in 15 mins, let's review the importance of this, or I can have the charge nurse review the plan with you.
- We have reviewed your repositioning schedule, and this is the agreed time. Prolonged pressure causes pressure injury development and **it is my job to keep you safe.**
- Frequent small positioning shifts can help prevent pressure injuries.

ESCALATION PATHWAY IF YOUR PATIENT REFUSES TURNING/REPOSITIONING:

1. **Ask** the patient why they are refusing to turn, and try to address the issues (i.e. pain, comfort)
2. **Educate** why repositioning is important to keep the patient safe and prevent pressure injury development
3. **Escalate to the Shift Leader** if patient continues to refuse
4. Use "Pressure Injury Progression" photos to **illustrate potential consequences**
5. **Escalate to NP/Physician team** (i.e. during rounds) if patient continues to refuse after trying above methods
6. **Document** each patient refusal and education/escalation interventions

eStar Documentation and Resources

11/5/23 1300
Skin Assessment
Select single option (F5)
Previous: [Problem](#)
WNL
WEL
OEL
Problem
Comments (Alt+M)
Group Information
[Skin Tear Guidelines](#)
[VUAH Skin Care Incontinence Guidelines](#)
[Pressure Injury Stages](#)
[Pressure Injury Prevention and Treatment - Adult](#)
[Pressure Injury Prevention and Treatment - Pediatric](#)
[Bed Selection Guidelines - Adult](#)
[Bed Selection Guidelines- Pediatric](#)
[SOP: Transdermal Heating and Cooling](#)
Row Information

Skin All	
Skin Assessment	
Skin Problem	
Skin ReAssessment	Done
Skin Color/Condition	
Rash Location/Character	
Oral Mucosa	
Mucositis Grade	
Cleft Lip Description	
Cleft Palate Description	
Flap Check?	
Leech Therapy?	
Mouth Care/Interventions	Oral swabs, Hypophar...
Skin Breakdown Control	
Skin Interventions/Temperature Management	

Braden Scale	
Sensory Perceptions	
Moisture	
Activity	
Mobility	
Nutrition	
Friction and Shear	
Braden Scale Score	
Braden Risk Level	

Sensory Perceptions	
1	Completely limited
2	Very limited
3	Slightly limited
4	No limitation

3/28/19
Admission (Current) from: 1500

Braden Scale	
Sensory Perceptions	
Moisture	
Activity	
Mobility	
Nutrition	
Friction and Shear	
Braden Scale Score	
Braden Risk Level	

Wound 03/22/19 Incision-open Sternum Midline:Lower

Wound Properties	Date First Assessed/Time First Assessed:
Incision/Wound Appearance	
Incision/Wound Drainage	
Production	
Wound Length (cm)	
Wound Width (cm)	
Wound Area (cm ²)	
Vacuum Drg Foam Applied/Removed	
Wound Dev. (Sunburn, Infection)	

Sensory Perceptions
Select Single Option: (F5)
1=Completely limited
2=Very limited
3=Slightly limited
4=No limitation

How Information R:
Sensory Perception (ability to respond meaningfully to pressure-related discomfort):
1. Completely Limited: Unresponsive (does not moan, flinch, or grimace) 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 stimuli. Cannot communicate discomfort except by moaning or restlessness OR has a sensory impairment which limits the ability to feel pain or discomfort over half of body.
3. Slightly Limited: Responds to verbal commands, but cannot always communicate discomfort or the need to be turned OR has some sensory impairment which limits ability to feel pain or discomfort in 1 or 2 extremities.
4. No Impairment: Responds to verbal commands. Has no sensory deficit which would limit ability to feel or voice pain or discomfort.
In 1 or 2 extremities:
4. No Impairment: Responds to verbal commands. Has no sensory deficit which would limit ability to feel or voice pain or discomfort.

The Braden Scale for Predicting Pressure Sore Risk. Copyright Barbara Braden and Nancy Bergstrom, 1988. All rights reserved.
Interventions for score of <= 4 or PU present:
• Turn/Reposition per guidelines
• Therapy diet
• Pressure redistribution devices such as heel boots, pillows, wedges, chair cushions, TAP-system
• Consider OT/PT screening

B. Pressure injury prevention interventions to include but not limited to:

1. Pressure redistribution devices;
2. Moisture management;
3. Shear/friction reduction;
4. Repositioning; and
5. Referrals (e.g., nutrition team, PT, OT).

Consulting the Adult Wound Team

A consult to the Adult Wound Team is required for patients with a Stage 3,4, unstageable, or DTI pressure injury

- You are encouraged to consult the adult wound team for ANY PI, especially if you are unsure of the stage

Page the patient's primary team asking for a consult to the Adult Wound Team

For any questions, you may directly contact the Adult Wound Team via eStar Paging

Resources

- PolicyTech
 - Pressure Injury Prevention SOP
 - Wound Photography SOP
- [VUMC Pressure Injury Prevention Website](#)
 - Bed Selection Guideline
 - VUH PI Prevention and Treatment Guidelines
 - PIP Product Tip Sheet
 - VUH Heel Considerations
 - Adult Incontinence Skin Care Guidelines