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# Early identification and evaluation of severe pressure injuries

#### **Issue:**

Pressure injuries can be deceptive, and many harbor a much deeper pressure injury than is apparent to the naked eye. When evaluating a pressure injury, bedside nurses and clinicians need to look for certain warning signs and symptoms that should trigger a surgical consultation and evaluation for the need for debridement. Severe pressure injuries can put the patient at risk for potentially worse outcomes, including amputation, as well as additional and unnecessary pain and suffering. Pressure injuries also can be an unrecognized cause of systemic infection.

Common risk factors for developing pressure injuries include:

- Immobility due to any cause (e.g., neurological impairment, prolonged anesthesia)
- Lack of sensory or pain perception (e.g., neuropathy, diabetes)
- Poor nutrition or dehydration
- Obesity/low body mass index (BMI)
- Prior history of pressure injuries
- Dementia

# Warning signs and symptoms of severe pressure injuries

Bedside nurses and clinicians need to look for the following warning signs that can indicate the presence of a severe, concerning pressure injury. Skin assessment/examination should include visual inspection, as well as touch and palpation for differences in temperature and tissue consistency.<sup>1</sup>

If any of the signs below are present, the clinician should ask for a surgical consult. Involvement of the surgical team as soon as possible helps not just in early detection but also in early interventions.

- When pressing on the injury, it expresses additional exudate and/or the top layer of the skin/site dislodges.
- A thin blister forms over the surface of the dark wound bed; the wound may become covered by thin eschar.<sup>2</sup>
- The injury has intact skin but is a persistent nonblanchable deep red, purple or maroon color.<sup>2</sup>
- In addition to the localized discoloration, the tissue is painful, differs in consistency (firm or boggy) or in temperature (warmer or cooler) as compared to adjacent tissue.<sup>2</sup>
- The injury has non-intact skin or blood-filled blisters signifying damage to the underlying soft tissues.<sup>2</sup>
- There is no elasticity in the skin surrounding the injury.
- The patient has any systemic symptoms of infection or sepsis, no matter how mild they may initially appear.
   Pressure injuries often may be overlooked as a cause of these symptoms of infection, which include:
  - High temperature
  - Change in laboratory results (e.g., white blood cell count)
  - o Decline in the patient's mental status
  - Unexplained tachycardia





National Pressure Injury Advisory Panel September 2016 | www.rplap.com

Source: National Pressure Injury Advisory Panel



Legal disclaimer: This material is meant as an information piece only; it is not a standard or a Sentinel Event Alert.

The intent of Quick Safety is to raise awareness and to be helpful to Joint Commission-accredited organizations.

The information in this publication is derived from actual events that occur in health care.

### Safety actions to consider:

There are actions that organizations can take to help clinicians accurately identify the depth of a pressure injury as early as possible in order to treat the patient and ease their suffering.

- Develop and implement an organizational policy outlining a structured skin assessment approach
  relevant to the clinical setting to promote the performance of regular assessment. The policy should
  include documentation requirements.<sup>1</sup>
- Use a pressure injury classification system in pressure injury-related education to staff. Knowledge about etiology and clinical presentation of wounds enhances diagnostic accuracy.<sup>1,3</sup>
- Post signage and/or illustrations that indicate the warning signs and symptoms that clinicians should look for to enable rapid identification of more concerning pressure injuries.
- Health professionals undertaking comprehensive vascular assessment should be trained in using appropriate assessment techniques and equipment. Consider referring individuals with pressure injuries who have suspected or known compromised vascular status in an extremity to a vascular specialist,¹ and if there is any indication of blood flow impairment, consult with a vascular surgeon. For advanced pressure injuries, consult with a reconstructive surgeon and, if available, a wound center or wound team.

#### **Resources:**

- European Pressure Ulcer Advisory Panel (EPUAP), National Pressure Injury Advisory Panel (NPIAP), and Pan Pacific Pressure Injury Alliance (PPPIA). Prevention and Treatment of Pressure Ulcers/Injuries: Clinical Practice Guideline. The International Guidelines. 2019.
- 2. Pressure Injuries, Deep Tissue Pressure Injuries (DTPI), WoundSource
- 3. National Pressure Injury Advisory Panel. NPIAP Pressure Injury Stages webpage.

## **Additional resources from The Joint Commission:**

*Quick Safety*, Issue 25: <u>Preventing pressure injuries</u>, Updated July 2016 *Quick Safety*, Issue 43: <u>Medical device-related pressure injuries</u>, July 2018

Note: This is not an all-inclusive list.

