Developed in collaboration with the Wound Care Champions, Wound Care Specialists, Enterostomal Nurses, and South West Regional Wound Care Program (SWRWCP) members from Long Term Care Homes, Hospitals, and South West Community Care Access Centre contracted Community Nursing Agencies in the South West Local Health Integration Network.



Title	Procedure: Pred	icting Pressu	re Sore Ris	sk in Adults	and
	Children	_			
Background	<ul> <li>Pressure sore risk of developing a prost-effective, pressure sore risk of developing a pressure sore risk of developing a pressure sore rough and some states and the fool has expressed and demonstrates and the tool has expressed (Braden Q Scale) in tool for those age scale<sup>4</sup>. This tool in Scale, but adds as the "InterRAI Pressed (MDS)-informed developing a pressure the health care the The tools calculated room, bowel contain injuries, pain symplements. The total Braden States which are based on the validated, the stratified into like the purpose of immoderate Risk</li> <li>Moderate Risk</li> <li>Moderate Risk</li> <li>Moderate Risk</li> <li>Very High Risk</li> </ul>	ressure sore and eventative resour ure sore risk assist interventions to for Predicting Portion of the for Predicting Portion of the for Predicting Portion of the for Predicting stablished validition of the form of the	who is not, to ree utilization essment tool of a person's in ressure Sore six sub-scales on, and friction acute and reliability with ty, sensitivity gediatric Preside pressure ears, adapted riginal sub-scale perfusion/ox Scale" (PURS) ides an estimol facilitates is continuity of bed mobility hange, historiness of breate been stratification of a pocores and PUry SWRWCP person's ides and pury symmetric pressure in the perfusion of the second results of the perfusion of the second results of the perfusion of the p	allow for apply allocation allows health ndividual risk? (Braden: sensory percon and shear <sup>1,7</sup> long-term care th registered registered registered resource Injury Resore risk asselfrom the Bradeles of graded communication care for residual care for resolved program member for a la formation care for residual care for resolved program member for a la formation care for resolved program member for a la formation care for resolved program member for a la formation care for resolved program member for a la formation care for resolved program member for a la formation care for resolved program member for a la formation care for resolved program member for a la formation care for resolved program member for a la formation care for resolved program member for a la formation care for resolved program for a la formation care for resolved program member for a la formation care for resolved program for a la formation care for a la formation ca	care factors Scale), ception, e setting furses, ey isk" ssment den den risk for on within dents. lk in oressure chough e been

# **Copyright Restrictions: Braden Scale** Although the SWRWCP has received permission to include the Braden Scale in this toolkit, it is the responsibility of each organization to obtain permission to use it. Permission may be obtained at www.bradenscale.com. By requesting permission, you will be agreeing to the following: The Braden Scale will be used as written without changing the wording or scoring of the document The full name of the tool, The "Braden Scale for Predicting Pressure Sore Risk", will be used on any reproduction of the tool The copyright will be used on any reproductions, copies and reprints of the tool and should read, "Copyright. Barbara Braden and Nancy Bergstrom, 1988. Reprinted with permission. All Rights Reserved" The Braden Scale will be used only for the approved purpose. Any use of the tool in publications (other than internal policy manuals and training material) or for profit-making ventures requires additional permission and/or negotiation Copyright Restrictions: Braden Q Scale You are free to reproduce and use the Braden Q Scale for research or clinical practice. The Braden Q Scale may be reproduced on forms with hospital or clinical unit letterhead or logos, or used in electronic record systems. Please cite: Quigley, S., & Curley, M. A. Q. (1996). Skin integrity in the pediatric population: Preventing and managing pressure Injuries. Journal of the Society of Pediatric Nurses, 1(1), 7-18. If you would like to republish the tool in any form external to your organization you will have to obtain permission from the copyright holder – Nursing Research. (Curley, M.A.Q., Razmus, I.S., Roberts, K.E., Wypij, D. Predicting Pressure Injury Risk in Pediatric Patients: The Braden Q Scale. Nursing Research. 52(1):22-33, January/February 2003) Requests to translate the tool into another language should be made in writing to Dr. Curley **Indications** This procedure is intended to be used by front line registered health care providers, to assist with their assessment and management of individuals admitted with/presenting with a pressure sore or at risk for the development of a pressure sore. **Procedure** NOTE: The use of the Braden Scale, the Braden Q Scale, or PURS Score is but one part of the holistic assessment of an individual admitted with/presenting with a pressure sore or at risk for a pressure sore. Assessment 1. Determine if the Braden Score or Braden Q Score needs to be completed. NOTE: The initial Braden Scale or Braden Q Scale should be completed:

a. Within two hours of admission to:

- i. The Intensive Care Unit (ICU), Critical Care Unit (CCU), or Pediatric Intensive Care Unit (PICU)
- ii. Acute care, sub-acute care, or a rehabilitation unit
- iii. Acute psychiatry or geriatric psychiatry unit
- iv. Acute pediatric unit
- b. Within 24 hours of admission to long term care
- c. At the initial home visit in the community
- d. Pre-operatively (the day of surgery)
- 2. Thoroughly review the person's available medical records for documentation that reflects the person's current:
  - a. Ability to respond to pressure/pain
  - b. Degree to which their skin is exposed to moisture
  - c. Level of/amount of daily physical activity
  - d. Ability to change and control body position
  - e. Food intake pattern
  - f. Ability to reposition without experiencing friction/shear injury

## **Planning**

- 1. Expected outcomes:
  - a. Information from the person's medical chart, the person and/or their substitute decision maker (SDM)/power of attorney for personal care (POA C), and your assessment will allow for the proper completion of the Braden Scale or Braden Q Scale (whichever is appropriate)
  - b. The information gleaned from the completion of the Braden Scale or Braden Q scale, in addition to your holistic person/wound assessment, will allow for the identification of extrinsic, intrinsic, and iatrogenic factors affecting the person's ability to heal (if they have a pressure sore and healing is the goal), or factors increasing their risk for pressure sore development
  - c. Registered nursing staff, in collaboration with other involved health care disciplines and the person with the pressure sore or their SDM/POA C (if applicable), will be able to use the assessment information to initiate/modify and implement an interdisciplinary plan of care which contains clear directions to staff and others who are providing the person with direct care
- 2. Explain the procedure and purpose behind the pressure sore risk assessment to the person and/or their SDM/POA C and obtain verbal or implied consent to proceed with the assessment

#### **Implementation**

- 1. Provide for privacy and ensure the person is in a comfortable position to facilitate the assessment of their skin
- 2. Wash your hands and attend to the person with your assessment

- supplies
- Ensure the person's SDM/POA C is present or available if the person does not have a reliable memory or is unable to accurately answer any questions derived from the contents of the Braden Scale or Braden Q Scale
- 4. Ensure adequate lighting
- 5. If the person is in a bed, raise the bed (if you are so able) to an appropriate ergonomic working height to allow you to conduct the skin assessment while preventing self-injury
- 6. If you have the potential to come into contact with bodily fluids during your assessment, apply clean disposable gloves
- 7. Following the order of the Braden Scale or Braden Q Scale, ask the person and/or their SDM/POA C questions, observe, and physically assess to elicit/determine responses to the various Braden Scale or Braden Q Scale sub-scales:
  - a. Sensory Perception:
    - i. Is the person able to respond to your verbal commands? If so, can they clearly communicate when they are having discomfort and needing to be repositioned?
    - ii. What is the person's level of consciousness? Do they respond to any stimuli?
    - iii. Do they have sensory impairment, i.e. paralysis, neuropathy and if so, how much/what parts of their body surface does this impairment effect

#### b. Moisture:

- i. Are the person's skin and linens usually dry, or do they require linen changes more than once per day? If so, how often?
- ii. Does the person have issues with perspiration, urine or fecal incontinence, highly draining wounds, drooling of saliva or hyperemesis that result in their skin being frequently or constantly moist?

### c. Activity:

- i. Does the person walk at least once every two hours when they are awake? If not, how often are they walking?
- ii. Does the person spend most/all of their days in bed or sitting in a chair?
- iii. Can the person physically walk/weight bear? What is the extent of assistance required to transfer/mobilize them?

## d. Mobility:

- i. Can the person regularly reposition themselves without assistance, or are they dependent on others for this? If so, to what extent are they dependent?
- ii. Observe the tolerance of the person for position

- changes
- iii. Observe the person for preferred positions when in their bed/chair
- e. Nutrition:
  - i. Does the person usually eat a least 75% of their meal? If not, how much are they eating per meal on average?
  - ii. Does the person take any nutritional supplements?
  - iii. Is the person on a tube feeding or TPN?
  - iv. How many servings of protein is the person taking in per day?
  - v. Is the person drinking adequate fluids?
- f. Friction/Shear:
  - i. Is the person able to move about their bed/chair without causing friction/shearing injury, without assistance? If not, how much assistance to they require? If you are unsure, ask them to demonstrate
  - ii. Are they able to maintain a good position in their chair/bed, or do they slide down?
  - iii. Does the person have spasticity, contractures or agitation which results in friction injury?
- g. Tissue Perfusion (the Braden Q Scale only):
  - i. Is the child's Sp02 greater than 95%?
  - ii. Do they have adequate capillary refill (i.e. less than two seconds)?
  - iii. What is the child's hemoglobin count, i.e. for newborns is it 165-195 g/L and for children is it 112-165 g/L?
  - iv. Is the child's serum pH normal, i.e. 7.35-7.45?
  - v. Is the child hypotensive, i.e. is their mean arterial pressure <50mmHg or <40mmHg if they are a newborn?
  - vi. Can the child physically tolerate position changes?
- 8. Assess the condition of the person's skin over regions of pressure.

  Body weight against bony prominences places underlying skin at risk for breakdown. Look for areas of:
  - a. Skin discoloration and temperature changes
  - b. Blanching
  - c. Induration
  - d. Pallor and mottling
  - e. Absence of superficial skin layers
- 9. Assess the person for additional areas of potential pressure:
  - a. Nares: nasogastric tube, oxygen cannula
  - b. Tongue and tips in the presence of an endotracheal tube
  - c. Ears: oxygen cannula, pillows
  - d. Intravenous sites
  - e. Drainage tubes

- f. Indwelling urethral catheter
- g. Orthopedic devices
- 10. Assist the person to a comfortable position, if needed
- 11. Lower the person's bed to an appropriate height (if applicable), and ensure the person's safety, i.e. apply side rails, personal alarms, restraints, etc. as per the person's care plan/medical orders
- 12. Clean reusable equipment/surfaces touched during the procedure with warm soapy water or antimicrobial wipes and dry thoroughly to prevent cross contamination
- 13. Remove your disposable gloves and discard them in the appropriate receptacle
- 14. Wash your hands
- 15. Score each sub-scale item based on their descriptors. Place the subscale scores in the score column on the far right of the table
- 16. Total the sub-scales and place the total score in the designated area at the bottom of the table. NOTE: People with additional risk factors, i.e. an existing pressure sore, hemodynamic instability, low diastolic pressure, advanced age and/or fever may be at greater risk than that indicated by the total Braden Score or Braden Q Score, and as such, their score should be advanced to the next risk category
- 17. Discuss your findings and the implications of those findings with the person and/or their SDM/POA C
- 18. Share the results of your assessment with the interdisciplinary members of the person's wound care team
- 19. Complete documentation as required, i.e.:
  - Document initial and on-going Braden Scale and Braden Q
     Scale scores on the designated form according to your organization's policy, and store that document in the assigned location
  - Implement interventions to reduce/minimize risk and to address factors affecting pressure sore healability, based on the total Braden Scale or Braden Q Scale, and based on individual sub-scale scores. See "Pressure Injury Risk Reduction Interventions", found on the SWRWCP website
  - c. Complete/update interdisciplinary person-centered care plans as per your organizations policy, based on the person's score and your holistic assessment

#### **Evaluation**

- 1. Unexpected outcomes:
  - a. The information from the person's medical records, the person and/or their SDM/POA C, and your assessment do not allow for the thorough completion of the Braden Scale or Braden Q Scale
  - b. The information obtained does not allow for the identification of extrinsic, intrinsic, and iatrogenic factors delaying pressure sore healing or putting the person at increased risk for

i .		
	3. 4.	RAI-MDS assessment within 14 days of admission, quarterly
		thereafter, and with any significant change in health, which will generate a PURS score. This PURS score can be used to direct preventative/treatment measures related to pressure sore risk
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