

Braden QD Scale

Introduction

The Braden QD Scale is a revised and simplified version of the Braden Q Scale. The Braden QD Scale addresses the risk of device-related pressure injury (the "D" in QD), as well as the risk of immobility, in infants and children younger than 18 years old.

It was validated in a multicenter prospective cohort study of 625 patients, ages preterm to 21 years, who were on bed rest for at least 24 hours and had a medical device in place. To ensure generalizability from the study population to acute care pediatrics, enrollment was stratified by age, patient type (medical-surgical or cardiovascular), and hospital unit (pediatric ICU or non-ICU).

At a **cutoff score of 13**, the Braden QD Scale was found to have a sensitivity of 86% and a specificity of 59%, similar to that of the Braden Q Scale, which at a cutoff score of 16 was found to have a sensitivity of 88% and a specificity of 58%.

The Braden QD Scale provides pediatric nurses with a single instrument with which to assess both immobility-related and medical device-related pressure injury risk across a diverse clinical population typically cared for in children's hospitals.

Reference:

- Curley MAQ, et al. Predicting pressure injury risk in pediatric patients: the Braden QD Scale. J Pediatr 2018;192:189-95, 195.e1-195.e2.
- Curley MA, et al. Predicting pressure ulcer risk in pediatric patients: the Braden Q Scale Nurs Res 2003 52 1 22 33.

Braden QD Scale			
<i>Intensity and Duration of Pressure</i>			Score
Mobility The ability to independently change & control body position	0. No Limitation Makes major and frequent changes in body or extremity position independently.	1. Limited Makes slight and infrequent changes in body or extremity position OR unable to reposition self independently (includes infants too young to roll over).	2. Completely Immobile Does not make even slight changes in body or extremity position independently.
Sensory Perception The ability to respond meaningfully, in a <u>developmentally</u> appropriate way, to pressure-related discomfort	0. No Impairment Responsive and has no sensory deficits which limit ability to feel or communicate discomfort.	1. Limited Cannot always communicate pressure-related discomfort OR has some sensory deficits that limit ability to feel pressure-related discomfort.	2. Completely Limited Unresponsive due to diminished level of consciousness or sedation OR sensory deficits limit ability to feel pressure-related discomfort over most of body surface.
<i>Tolerance of the Skin and Supporting Structure</i>			
Friction & Shear <i>Friction:</i> occurs when skin moves against support surfaces <i>Shear:</i> occurs when skin & adjacent bony surface slide across one another	0. No Problem Has sufficient strength to completely lift self up during a move. Maintains good body position in bed/chair at all times. Able to completely lift patient during a position change.	1. Potential Problem Requires some assistance in moving. Occasionally slides down in bed/chair, requiring repositioning. During repositioning, skin often slides against surface.	2. Problem Requires full assistance in moving. Frequently slides down and requires repositioning. Complete lifting without skin sliding against surface is impossible OR spasticity, contractures, itching or agitation leads to almost constant friction.
Nutrition Usual diet for age – assess pattern over the most recent 3 consecutive days	0. Adequate Diet for age providing adequate calories & protein to support metabolism and growth.	1. Limited Diet for age providing inadequate calories OR inadequate protein to support metabolism and growth OR receiving supplemental nutrition any part of the day.	2. Poor Diet for age providing inadequate calories and protein to support metabolism and growth.
Tissue Perfusion & Oxygenation	0. Adequate Normotensive for age, & oxygen saturation $\geq 95\%$, & normal hemoglobin, & capillary refill ≤ 2 seconds.	1. Potential Problem Normotensive for age with oxygen saturation $<95\%$, OR hemoglobin <10 g/dl, OR capillary refill > 2 seconds.	2. Compromised Hypotensive for age OR hemodynamically unstable with position changes.
<i>Medical Devices</i>			
Number of Medical Devices	Score 1 point for each medical device* up to 8 (Score 8 points maximum) *Any diagnostic or therapeutic device that is currently attached to or traverses the patient's skin or mucous membrane.		
Repositionability/ Skin Protection	0. No Medical Devices	1. Potential Problem All medical devices can be repositioned OR the skin under each device is protected.	2. Problem Any one or more medical device(s) cannot be repositioned OR the skin under each device is not protected.
			Total (≥ 13 considered at risk)