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## Predicting pressure ulcer risk with the Braden Q Scale in Chinese pediatric patients in ICU

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**Objective:** The purpose of this study was to: observe the value of the score of Braden Q Scale in predicting the pressure ulcer in pediatric ICU patients in China; determine the critical cutoff point for classifying patient risk; and describe the pressure ulcer incidence.

**Methods:** A prospective cohort descriptive study with a convenience sample of 198 patients on bedrest for at least 24 hours without pre-existing pressure ulcers were enrolled from a pediatric intensive care unit (PICU). The Braden Q score and skin assessment were independently rated and data collectors were blind to the other measures. Patients were observed for up to 3 times per week for 2 weeks and then once a week until PICU discharge.

**Results:** Fourteen patients (7.1%) developed pressure ulcers; 12 (85.7%) were Stage I pressure ulcers, 2 (14.3%) were Stage II pressure ulcers, and 3 were Stage III or IV pressure ulcers. Most pressure ulcers (64.3%) were present at the first observation. The Braden Q Scale has an overall cumulative variance contribution rate of 69.599%. Using Stage I + pressure ulcer data obtained during the first observation, a Receiver Operator Characteristic (ROC) curve for each possible score of the Braden Q Scale was constructed. The area under the curve (AUC) was 0.57, and the 95% confidence interval was 0.50~0.62. At a cutoff score of 19, the sensitivity was 0.71 and the specificity was 0.53. The AUC of each item of the Braden Q Scale is 0.543~0.612.

**Conclusions:** The PICU patients are susceptible to the pressure ulcer. The value of the Braden Q Scale in Chinese pediatric population is relatively poor and it should be optimized when used in Chinese pediatric patients.

### Biography

Ye-Feng Lu has completed his MSN from the School of Nursing Shanghai Jiao Tong University. He serves the nursing specialists, who're in charge of the follow-up visit and management of pediatric Living Donor Liver Transplantation patients in Renji Hospital. He has published more than 15 papers in reputed journals.

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