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Pressure ulcer risk assessment tool

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Statement and Objective: Development of risk assessment tool for the prediction of pressure ulcer in patients admitted in selected hospitals in Punjab. The objective was to construct a risk assessment tool for the prediction of pressure ulcer in patients.

Methods: Methodological approach was undertaken to construct the tool. In the first phase, the preliminary draft was prepared by review of the literature, assessment of current practices and focus group discussions. In second phase validation tool was done by a panel of experts through a modified Delphi technique. The final draft of the tool consists of 13 risk factors i.e. age, general physical condition, skin type, physique, activity, mobility, food intake pattern, hemoglobin, moisture, body temperature, sensory perception, and friction & shear, and basic nursing care. In the third phase pilot study was done and in the fourth phase, the final try out of the tool was done to check reliability and validity. Reliability i.e. internal consistency was calculated by Cronbach's alpha (0.89) and equivalence was analyzed by interrater reliability method by using Cohen's Kappa which was 0.96. The content validity of items of the tool was checked by content validity index (I-CVI) which was ranged from 0.86 to 1. The content validity index of the tool (S-CVI) was 0.92. Construct validity was done by exploratory factor analysis and all 13 items loaded in two factors. Concurrent validity was checked by calculating Pearson's correlation between the tool and Braden's scale and was found to be 0.69. Predictive validity was calculated by sensitivity, specificity, PPV and NPV tests at each score. At a cut-off point of ≥ 33 , the best balance between the sensitivity and specificity was achieved (sensitivity 94.12%, specificity 92.96%, PPV 51.61%, and NPV 99.5%).

Conclusion: Tool consists of 13 risk factors, a minimum score of the tool is 13 and maximum is 52. The cut-off point of the tool was 33. The tool was having good reliability and validity.

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