

Reduce Incidence Of Drug-related Incontinence Associated Dermatitis In The Liver Disease Patients



Pei-Fang Tsai^{1,4}, Tse-Pin Hsu^{2,4}, Kai-Ting Chang^{3,4}

¹ RN, BSN

² RN, MSN, Supervisor

³ RN, MSN

⁴ Department Of Nursing, National Taiwan University Hospital, Taipei, Taiwan

1 Background and Problems

Patient with liver failure and hepatic-renal syndrome were easily occur incontinence-associated dermatitis (IAD), that was caused by using Lactulose or Terlipressin (Glypressin®) treatments. The incidence of drug-related IAD was as high as 37% in a five-month period (January to May, 2019). The purposes of this study were to identify the causes of IAD in a medical unit for patients with liver failure and hepatic-renal syndrome as well as to implement an integrative project to reduce the incident IAD.

2 Method

A prospective study was carried out in a medical unit. Although the causes of IAD were complex, several major causes of high incident IAD were identified, such as lack of standard operating procedures, not enough preventive measures, insufficient health education provided to the patients, and the use of skin-protective products untimely. In addition, the nurses had insufficient knowledge of IAD nursing care. After consensus, a reasonable goal of quality improvement was to reduce the incident IAD down to 23.5%.

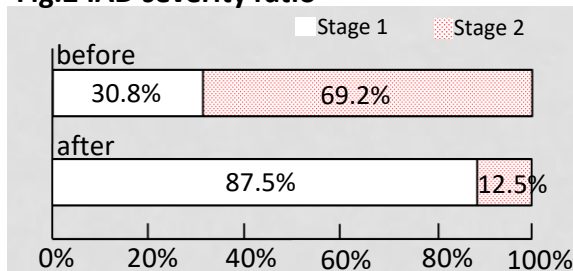
3 Result

Several feasible strategies were implemented, including designing staging chart and high-risk reminder card, and providing instructions for health education. Developing the standard Operating procedures and educative trainings to nurses were also successful. An evaluation on nursing care knowledge was concurrently applied to address early screening of patients at high-risk of IAD and providing preventive and protective materials in a timely manner. The incidence of drug-related IAD decreased from 37.1% to 17.8%, the monthly incidence of IAD decreased after intervention (Fig.1). Moreover, the proportion of stage-2 IAD decreased from 69.2% to 12.5% (Fig.2).

Fig.1 Trend of IAD incidence



Fig.2 IAD severity ratio



4 Conclusion

The development of standardized skin care procedures for IAD and the improvement of nurses' awareness effectively reduce the incidence of drug-related IAD. It can also relieve pain and discomfort of patients. Because of the significant cost-effectiveness, it is recommended to apply such integrative, multiple aspects nursing care to prevent and to reduce the incident IAD so that the quality of nursing care can be superior.