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“COTTON CLOTH BRIDGING” NURSING INNOVATIVE DESIGN OF ANTI-CRUSHING PIPELINE AND WOUND FIXATION BELT

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Objectives

Pressure ulcers in the medical field are a common and highly concerning issue. Once pressure ulcers occur, they can cause patient pain and prolong hospital stays, increasing nursing care hours and medical costs, involving manpower, resources, and money. Considering the cost-effectiveness of modern healthcare, it is necessary to take into account measures to reduce pressure ulcer incidents caused by using oxygen masks, thus decreasing medical expenses, alleviating the physical and psychological suffering caused by pressure ulcers, and enhancing the quality of professional care for pressure ulcer prevention.

To address this, we have designed the “Cotton bridge-anti-crushing and pipeline, wound fixation belt”. Its advantages not only lie in preventing pressure ulcers but also in promoting wound healing for existing pressure injuries, preventing further deterioration, and thereby reducing healthcare costs.

Methods

It has been clinically observed that after a stroke patient uses an oxygen mask, the elastic band presses the ears for a long time, causing pressure sores above the auricles. For patients with cranial nerve injury and limb movement disorder or aphasia who cannot express, but often cause pressure sores due to inability to express, according to clinical nursing experience, the design of “cotton cloth bridge-anti-pressure injury and pipeline, wound fixation belt” is used. The length of the “elastic belt” is adjusted according to the patient’s head circumference, and the tightness can be adjusted frequently to reduce the compression time of the pressure point and reduce the occurrence of pressure sores.

Results

Using a variety of design methods, it is suitable for different head shapes (circumference) and groups of all ages. The bridge design of soft and warm cotton cloth “Cotton bridge-anti-crushing and pipeline, wound fixation belt”, the patient’s use The acceptance rate increased from 60% to 98%, the comfort level increased from 75% to 97%, and the user satisfaction increased significantly from 55% to 99%. The monthly number of facial pressure sores caused by medical device accessories was tracked. Reduced from 3~4 pieces to 1 piece.

Conclusion

In order to reduce the incidence of auricular pressure sores caused by the use of oxygen masks, reduce medical costs, alleviate the physical and mental pain of patients suffering from pressure sores, and improve the professional care quality of nurses for pressure sore prevention, the innovative design of “cotton bridging-anti-pressure Injury cum pipeline, wound fixation belt” is used clinically. Its advantages can not only prevent pressure sores, but also provide a buffer period for the healing of pressure sore wounds that have formed, avoid further deterioration of the wound, and reduce the cost of medical care and care.



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