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29th International Conference on Health Promoting Hospitals and Health Services Reducing the Loss Rate of Lower Extremity Muscle Strength in Patients After Liver Transplantation Chen-Ya WANG¹, Chen-Lu WU², Pei-Chen TSAI³ 1.2.3 Linkou Chang Gung Memorial Hospital, Taiwan.

Background and objective

After liver transplantation, patients are restricted to stay in bed for several days due to doctor's orders. Limb immobility leads to loss of muscle mass, increases the risk of falls when getting out of bed, affects the safety of activities, and even prolongs hospitalization. The analysis identified the problem as 33.3% of patients with lower extremity muscle weakness after liver transplantation. The reasons were summarized as follows: the patient's willingness to move was affected by the pain of the wound and the pipeline on his body, the nursing staff's lack of awareness of rehabilitation exercises, the lack of rehabilitation care standards for patients liver transplantation and after the rehabilitation standards of the activation note, and the patient's rehabilitation plan not handed over between the medical teams and no rehabilitation aids. The purpose of the project is to reduce the rate of loss of lower limb muscle strength to 14.8%.

Methods/intervention

Through rehabilitation exercise education and training for nursing staff, construction of rehabilitation nursing process in intensive care unit, rehabilitation exercise prescription paper, creative pipeline fixing belt and additional rehabilitation tools and other strategies.

Results

After liver transplantation, the rate of loss of muscle strength in the lower limbs of patients has been reduced from 33.3% to 12.5%. The strategy has been expanded in parallel to other surgical intensive care units to improve the quality of patient care.

Conclusions/lessons learned

Nursing staffs rehabilitation exercise education and training, construction of rehabilitation nursing process in intensive care unit, rehabilitation exercise prescription, creative pipeline fixation belt, and addition of rehabilitation tools can effectively improve the lower limb muscle strength of patients after liver transplantation.



Fig. 1. Rehabilitation care standardization in surgical ICU



Fig. 2. Fxing pipeline



Fig. 3. ordering rehabilitation prescriptionsrehabilitation exercise.

Relevance to health promoting hospitals and health services

Improve the quality of medical treatment and hospital care for inpatients through effective intervention measures, and improve the muscle strength of the lower limbs of patients after liver transplantation to facilitate early activities and smooth return to society and return to a new life.

Keywords

Liver Transplantation, Improve lower limb muscle strength