Clinical pathway for an efficient wound care center

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INTRODUCTION

Chronic wound significantly influence patients’ quality of life, but wound care procedures can vary between hospitals. Wound management difficulties can be attributed to lack of standardized protocol, well-integrated multidisciplinary team, and specific wound care unit. An establishment of wound care center can help to solve above difficulties with providing wound management service.

The efficient 3-step wound management pathway has the advantage that all involved specialists from different departments in the hospital can keep tracing the patients’ condition in the same pre-existing unit of the healthcare system. In addition to improving the quality of wound care, the establishment of a wound care center will not only improve patients’ pain and activities of daily life, but also achieve biopsychosocial healthcare, an approach believed to have positive effects on reducing costs and relieving the burden on the healthcare system.

WOUND MANAGEMENT DIFFICULTIES

The goals of wound management service are to treat
chronic wounds through the stages of healing, reduce infections or complications, and prevent future chronic wounds as well as restore the functional activities of daily life. Although the benefits of wound care service and multidisciplinary teams care have been well discussed,[1-3] there is a practicing gap about the establishment of an efficient referral system. Patients are often confused regarding whom to see for wound care, and simply receive wound treatment by the individual specialists they visit, in which the specialists may not actively track wounds unless they are consulted again. And healthcare providers (plastic specialists, dermal specialists, general practitioners, nurses) also found it difficult to manage wound care across disparate levels of departments. Furthermore, a lack of organization and specific space may postpone the accurate screening and debridement on-site and on-time. Therefore, the establishment of clinical pathway for wound management service/pathway is crucial.

WOUND MANAGEMENT PATHWAY

The wound management pathway consists of three steps. The first step is patient entry and onsite immediate wound debridement, which indicates the patient referral process where wound center clients were referred from outpatient clinics and inward consultants. The wound care service is initiated once the physician from any other departments considered wound care service necessary. The patient is scheduled for a visit to the wound care center by the coordinator, and the appointed doctor can meet the patient and family on the arranged day to discuss the wound condition with them. Before the wound management pathway was established, wound inpatients were referred to different specialized departments such as dermatology, surgery, and internal medicine, where wound management care was limited to that department’s particular function. And the wound consultant by plastic surgeon usually took a few days even in urgent cases. In wound management pathway, without an uncertain waiting period, senior consultants can approach patients in person with professional wound assessments and perform immediate debridement on-site as needed [Figure 1]. The therapeutic process lags and can be delayed because the chronic wound may need a series of debridement and regular follow-up. The coordinator (nursing staff) also assisted the consultant in scheduling follow-up appointments at the center as clinically needed. The wound care center provides not only one-time wound care, but also a complete program of care including further education and prevention for patients and families.

After being referred and completing the first visit and debridement, the patients proceeded to step two, wound re-evaluation, including neurologic evaluation, vascular evaluation (e.g. Ankle-Brachial Index), and the TIME concept (Tissue, Infection/Inflammation, Moisture imbalance and Edge of wound).[4] Wound size is measured by the longest length and width of the wound. All individual patient wound profiles are organized into our data bank, which can be analyzed for wound care efficacy and follow-up.

The third step includes setting up the individual wound care plan based on the results of wound re-evaluation in step two. Emphasis is placed on the importance of wound bed preparation (using TIME), early referral between members of the multidisciplinary team, such as vascular team, hyperbaric oxygenation therapy, further education and prevention. Offloading must therefore be addressed in a timely manner.

THE EFFICIENT REFERRAL SYSTEM FOR WOUND CARE CENTER

Multiple studies have supported the efficacy of protocol-based treatment for pressure ulcers, venous stasis ulcers, and diabetic foot ulcers.[5-7] Edwards et al.[8] confirmed that the implementation of evidence-based protocols for wound assessment and treatment was significantly related to improve healing outcomes. The principle of wound care protocol is easy to comprehend, but the execution of the clinical efficient wound management service is complicated and needs a standardized and well-integrated multidisciplinary team with specific capacity. The main reason for difficulty in wound care is the poor referral system, which may be attributed to
the inability of the physician to identify and diagnose the wound, patient refusal to see the doctor, patient refusal to be referred to a wound care center, and the absence of a highly efficient wound care center. The lack of education and routine training for professional wound care and the huge variety of wound care products, procedures, and treatments pose a potential problem for the implementation of wound care as well.

The major and significant improvement by wound care center mainly relies on the referral system for patients, which decreases the possibility of avoiding delay of early debridement. Comparing to conventional wound care system, the three-step wound management service has the advantage of specific wound care unit space, scheduled visit and on-site debridement, integration of multidisciplinary team, and regular following-up [Table 1]. When wound care center had not been established yet, the assessor for wound consultation was usually the training physician, rather than consultants (surgeon), as they were already busy with other daily practice activities. Hospitalized patients may wait until the night for a visit as they waited until the assessor finished the daily routines. Instead of visiting the patient personally, the senior consultant sometimes assessed the wounds from only photos taken by the training physician. Then, the senior consultant still needed to arrange the next scheduled operation room for wound management (debridement, amputation or flap); this process usually took a few days even in urgent cases. Scheduling was based around the surgeon’s activities rather than the patients’ requirement. The delay of debridement could have caused processing or even deterioration of the wound. With the integration of the efficient standardized multidisciplinary teams in a specific wound care center, patients can schedule appointments instead of waiting indefinitely for care. Staff can approach patients in person, administer an adequate wound assessment, and perform on-time debridement. Further wound condition follow-up, education, and prevention are also continually provided.

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### Ethics approval
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### REFERENCES