

Articles of Interest

Literature Review

Reviewers

Dr. Shane Inlow
reviews an article on
the lack of a universal
classification system
for diabetic foot ulcers.

Dr. David Keast
reviews an article on
wound measurement.

Validation of Wagner's Classification: A Literature Review

Author: Smith RG

Publication: *Ostomy/Wound
Management*. 2003;49(1):54-62

Reviewer: Shane Inlow, MD

One of the biggest problems in wound care is the lack of a universal classification system to share and compare outcomes with others in the area of diabetic foot ulcers. This is becoming more important with the 'globalization' of wound care. Increasingly, wound classification triggers clinical response as more and more standards of care are being employed.

The Wagner system is the widest classification system currently used, but is showing its 23-year-old age. The author discusses the 'clinimetric' properties of the Wagner system, which are readability, accuracy, reliability and validity. Many modified Wagner systems have cropped up in an attempt to correct such features as technical ambiguity and the presence of infective and vascular components at lower stages, but none have been validated or accepted on a large scale. This article goes into great detail on the pros and cons of the Wagner system, analyzing the clinimetrics very thoroughly.

The author discusses and provides tables for two new classification systems; the S(AD) SAD Classification and the University of Texas (UT), San Antonio Classification. In an attempt to pre-

dict outcomes, the S(AD) SAD details the ulcer by Size (Area / Depth), Sepsis, Arteriopathy and Denervation. Also motivated by the limitations of the Wagner system, Armstrong and Peters developed the UT system, based on clinical and laboratory data, which is able to help determine the risk of amputation of group vs. individual diabetic patients.

This article reviews the current use of classification systems, points out their features and leaves us hoping that one system will become the global 'language' for health-care professionals to communicate their outcomes with one another on an international stage.

Wound Measurement: Can It Help Us to Monitor Progression to Healing?

Author: Flanagan M

Publication: *Journal of Wound
Care*. 2003;12(5):189-194

Reviewer: David H. Keast, MSc,
MD, FCFP

To determine whether ulcers are responding to treatment interventions, clinicians must regularly assess the wound for progress toward healing. Too often chart notes simply state: "wound looks better." The most common parameters evaluated include size (length, width and depth), wound edges, wound bed appearance, presence or absence of undermining, exudate and pain. Several tools to quantify ulcer assessment have been devel-

oped. These tools have varying degrees of validity, reliability and responsiveness to change¹. How should wounds be measured and can these measurements predict clinical outcomes?

Flanagan conducted a systematic review of the literature to answer these questions. Her review reaches four main conclusions.

1. Wound surface areas are often estimated by using diameter product measurements, for example, length x width, assuming the wound to be rectangular. This approach is time-consuming and inaccurate, so does not facilitate clinical decision-making.
2. Planimetry (either mechanical or digital) is more accurate than square counting when determining area from acetate tracings of circumference.
3. Volumetric measurements are not precise and do not inform clinical practice.
4. Percentage reduction in true wound surface area is the best way of predicting healing rates. A 40 per cent reduction in wound surface area over the first two to three weeks of treatment is predictive of healing in 12 to 24 weeks.

Implications for Practice

Per cent reduction in wound surface area is the best predictor of healing. While acetate tracings with planimetry are the most accurate means of determining area, the ruler method of determining length and width, if consistently applied, is better than no measurements at all. 🗑

Reference

1. Woodbury MG, Houghton PE, Campbell KE, Keast DH. Pressure ulcer assessment instruments: a critical appraisal. *Ostomy/Wound Management*. 1999;45(5):42-55.

Telehealth and Interdisciplinary...
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shows the importance of the partnership of physician/nurse in the continuum of patient care. It also helps to meet the goal of accessibility for all people to specialized health-care services. Without telehealth, the patient would have had to travel to benefit from the expertise of an enterostomal nurse.

Follow-up

With the fitting of his fistula, Mr. L. was able to nurture relationships with members of his family under significantly more acceptable conditions. The problem with odour was solved, and the fitting was

changed only once a week. The patient greatly appreciated this new independence; he no longer had to wait every day for the CLSC nurse's visit, he only had to empty the collecting bag a few times a day. He also felt much more comfortable. This procedure helped him live the last three months of his life with dignity. All the nurses of the home-care services felt relieved to be able to offer him not only a treatment, but also an effective solution enabling him to get the most from each precious day spent with his loved ones. Mr. L. died last October. ☺

Ask the Expert
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petrolatum. Not all zinc oxide pastes are equal. Some contain lanolin and others contain perfumes, both of which are potential contact sensitizers. Some zinc oxide pastes are stiffer than others. To make zinc oxide paste stiffer and less runny, especially in hot water, you can apply talc on a cotton ball and dab it on top of the applied zinc oxide for a stronger barrier. Do not scrub the old zinc oxide off unless it is contaminated; simply fill in the spaces. A tongue depressor is a convenient way to apply the product because it cuts down on the frictional resistance with application.

2. Petrolatum is less stiff than zinc oxide and tends to melt or disappear more easily. It does, however, allow the clinician to visualize the ulcer margin.
3. Use a hydrocolloid or adhesive film dressing as a window frame around the ulcer margin, removing the centre for local ulcer treatment and effectively isolating the ulcer margin from the wound treatment and exudate.
4. Use a film-forming liquid acrylate preparation. This allows ulcer margin visualization and gives longer wear time and greater protection than petrolatum. ☺

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