Publication summary: Legemate CM, et al. Burns (2019)*

SmithNephew

VERSAJET Hydrosurgery System is a useful tool for burn wound debridement prior to skin grafting and is often used with conventional surgical debridement (SD) as shown in a retrospective study of registry data

Plus points

significant independent predictors

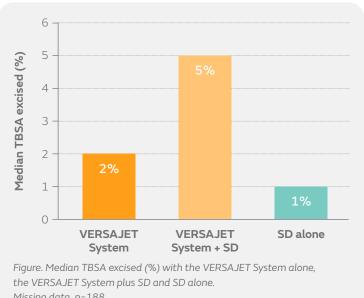
Median TBSA excised

Overview

- A retrospective cohort study of all patients admitted to three burn centres in the Netherlands between 2009 and 2016
- Data were collected using the national Dutch Burn Repository R3
- Patients (59.5% males; median age, 41 years) with burns of median 5% TBSA received debridement using the VERSAJET System alone (n=506) or with SD (n=599) or using SD alone (n=1,008)

Results

- Younger age, scalds, larger TBSA burned and head/neck and arm burns were significant independent predictors of VERSAJET System use (multivariable analysis)
 - Burns of one region, particularly neck, scalp and genitals, were often treated with the VERSAJET System alone
- Median TBSA excised was greater in both groups where the VERSAJET System was used versus SD alone (Figure)
- · Compared with SD alone, patients treated with the VERSAJET System alone:
 - Received dermal substitutes less frequently (1.5 vs 0.2%; p=0.021)
 - Had a smaller mean volume of blood transfusion (156.0 vs 57.2ml; p=0.036)
 - Underwent fewer surgical procedures (mean 1.4 vs 1.2; p=0.019)
 - Had fewer wound infections (3.8 vs 1.6%; p=0.019)



Missing data, n=188

Conclusions

Citation

*Legemate CM, Goei H, Gostelie OFE, Nijhuis THJ, van Baar ME, van der Vlies CH. Application of hydrosurgery for burn wound debridement: an 8-year cohort analysis. Burns. 2019;45(1):88-96.

Available at: Burns

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