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Experience with Versajet Hydrosurgery for Burn Debridement in Children: A Case Series

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Introduction

The Versajet™ hydrosurgery system (Smith & Nephew) offers an alternative to conventional burn wound debridement, potentially preserving dermal tissue and reducing scarring,

➔ We present our experience using Versajet hydrosurgery for managing deep full-thickness burns in children

❑ ***Versajet® hydrosurgical system***

➔ ***Precise, efficient debridement in a single OR session (figures)***

➔ *Minimal tissue loss with* ***preservation of viable dermis***

➔ ***Skin grafting performed within days post-debridement***

✓ ***Excellent graft adherence and short-term healing***

✓ *No secondary infections observed.*

✓ ***Reduced hospital stay duration***

Material and methods

- ✓ Retrospective descriptive study
- ✓ Patients admitted to the burn unit at Fattouma Bourguiba University Hospital, Monastir
- ✓ From 2023 to 2025, who underwent debridement using the Versajet® hydrosurgical system for deep, full-thickness burns.
- ✓ Clinical characteristics of the burns were analyzed.
- ✓ Post-Versajet outcomes in terms of postoperative hospital stay duration and short- and medium-term results

Results

- ❑ 5 pediatric patients with thermal burns (4 flame, 2 hot oil)
- ❑ **Mean age: 7.3 years** (range: 5–10 years).
- ❑ Average TBSA burned: 10.3% (range: 5–15%), 3rd-degree depth

Conclusion

•The Versajet™ system offers a precise, efficient solution for pediatric burn management, enhancing healing outcomes and reducing complications.

•Its ability to preserve tissue and streamline care makes it a valuable tool in burn treatment.