INCLUDING ENZIMATIC DEBRIDEMENT IN THE STANDARD OF CARE: OUR PROTOCOL (256)

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Introduction: Early removal of the burn eschar is the cornerstone of burn care. Currently, excisional debridement and autografting is considered the standard of care. Enzymatic debridement of burns had been published by different groups, showing good results when it is compared with the standard of care, although it is not included in guidelines. We showed our results after the inclusion of Nexobrid (NXB) in our protocol of treatment.

Methods: A consecutive 10 cases, aged from 18-65 with intermediate dermal burns less than 10% total body surface area (TBSA) by flame were collected. Cases were admitted between 0 to 5 days after the accident, and an anesthesiologist consultation were made. Analgesia via continuous perineural or axillary infusion of local anesthetics using an elastomeric pump. Rosenberg’s protocol of NXB treatment were applied in a dressing facility in a 4 and 2 hour steps. After a biosynthetic wound dressing were applied, the patient were discharged to an outpatient management of the wounds until complete epithelialization. Time to complete healing, need of grafting, wound complications and need of readmission where evaluated as endpoints.

Results: All patients were treated in an outpatient way. 6 patients were treated under axillary catheter, and other 4 under tunneled epidural catheter. Average age were 47.7, with a 3,8% TBSA. Suprathel dressing were used in all patients, but two of them need autografting after 7 days. Escharotomies were not needed in any of our patients. No complications during treatment were recorded. Readmission only were needed in patients that were grafted. Time to healing ranged 12-32 days.

Conclusion: Use of Nexobrid in intermediate dermal burns by flame with low TBSA, allow us an outpatient management without raise of complications. Readmissions were needed to graft the wounds as in the standard of care.

References:

**Fig 1.** Male 37 yo, flame intermediate-dermal burn (left). Nexobrid was applied in the first day after burn (center). Healing after 18 days follow-up (right).