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Safety assessment of a polyhexanide-containing product applied in different types of burns in children: A retrospective systematic data review

Ciprandi G., Bambino Gesù Children's Hospital, IRCCS, Roma, ITALY

Marathovouniotis N., Kliniken der Stadt Köln, Cologne

Strack A., Klinik für Kinderchirurgie, Kassel

Van Capellen P., HUDERF Hospital, Bruxelles

Ramsay S., Yorkhill Hospital, Glasgow

Budkjevich L., Speransky city children's hospital, Moscow



Bambino Gesù
OSPEDALE PEDIATRICO

Objectives

1. This **retrospective** systematic data review was to get an overview about current practice treating children with Prontosan®.
2. Prontosan® is a range of product containing **betaine** and **polyexanide**. The products were used for the moistening and cleansing of burn wounds.



Methods



- ◆ Retrospective review performed in **6** European pediatrics' centers.
- ◆ Evaluation of the safety and efficacy of Prontosan® range in **children** aged from two hours up to 15 years old, with grade **I-III** burns were included.
- ◆ **Safety** assessment by noting the frequency of adverse events (AE) occurring during treatment with Prontosan® e.g. allergies, local infection etc.



Results

- ◆ **198** cases treated with Prontosan® between 2013 and 2015 were analyzed.
- ◆ In most cases, the depth of the wound was categorized as a mixture of burn grades I-III, whereas **74.4% were scalds**, followed by contact burns (20.2%).
- ◆ **Five AEs** were reported from the 198 cases analyzed. Treatment was continued in 4/5 AEs (3 mild itching, 1 mild rash). In one case, Prontosan® was discontinued due to moderate 'hypergranulating tissue'.
- ◆ Eleven out of 198 cases (**5.6%**) **developed signs of infection** during the treatment period. Antibiotics were given and Prontosan® products were continued to be applied on the wounds
- ◆ **All wounds healed**



Conclusion

- Prontosan[®] family showed its **safety** and **efficacy** in pediatric patients including **premature** and newborns
- This review showed a **very low rate of infection** compared to the literature^{1,2,3}

1-**Rashid KJ**, Babakir-Mina M, Abdilkarim DA. Characteristics of Burn Injury and Factors in Relation to Infection among Pediatric Patients. MOJ Gerontol Ger 2017; 1(3):00013.

2- **Rosanova MT**, Stamboulian D, Lede R. Infections in burned children: epidemiological analysis and risk factors. Arch Argent Pediatr. 2013; 111:303-8.

3-**Shah H**, Gul H, Khan R, Khan A. Bacterial Profile of Paediatric Burn Wounds and their Antibacterial Sensitivity Patterns. J Surg Open Access. 2016;2(2).

