

## **NP-7**

### **Evaluation of pH and temperature in pediatric skin lesions. Prospective study**

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The skin in newborns is characterized by peculiar features and particular attention in intensive care units is recommended.

We enrolled 20 newborns (14 males and 6 females) with pressure ulcers or skin epidermal stripping, from January 2017 to October 2017, at intensive care unit of FTGM Massa.

We recorded pH value and temperature value on 16 pressure ulcers and 11 epidermal stripping, comparing the results with value on intact skin.

Intact skin showed an average pH more acid than both epidermal stripping ( $p < 0.05$ ) and pressure ulcers. Temperature in pressure ulcers showed lower value than intact skin ( $p < 0.05$ ) and in epidermal stripping lesions showed higher value than intact skin.

The monitoring of pH and temperature may be useful in the evaluation of skin lesions in newborns. Further studies are needed.