



# The Use of Caprolactone Dressing in Pediatric Burns - A Gold Standard?

## RESORBABLE SKIN SUBSTITUTE (Suprathel®)

Copolymer of  
- ε-Caprolactone  
- Polylactide  
- Trimethylen Carbonate

**Features:**  
Pain reduction  
Good wound assessment  
Painfree detachment after reepithelialization  
No allergic reaction

**Lactate reduces the pH level:**  
Proteases are inhibited  
Acidification has an antiseptic effect and inhibits the growth of bacteria

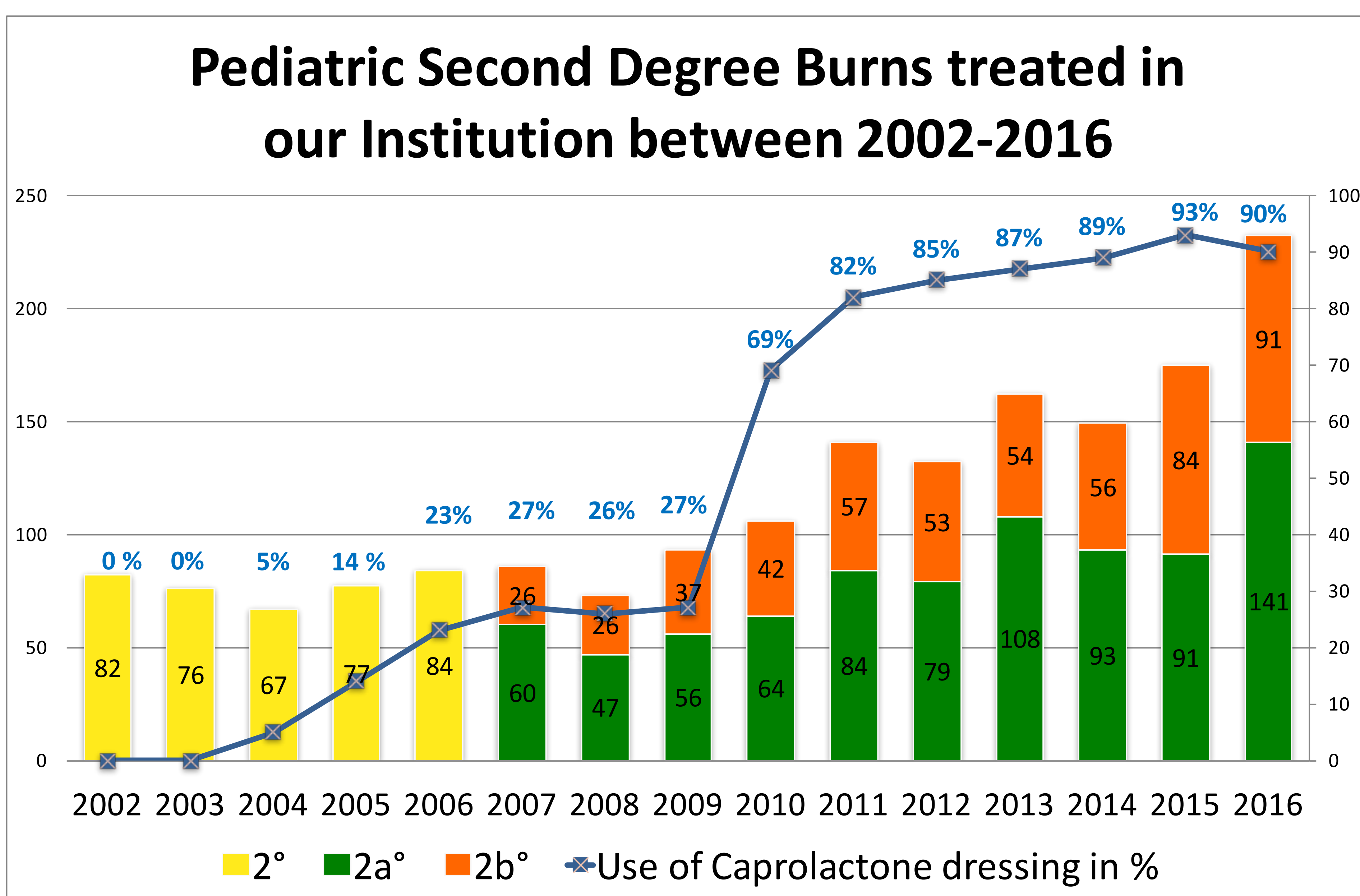
**Lactate stimulates the wound healing process:**  
Stimulation of angiogenesis  
Stimulation of fibroblast migration  
Supports collagen synthesis

## DATA SOURCE

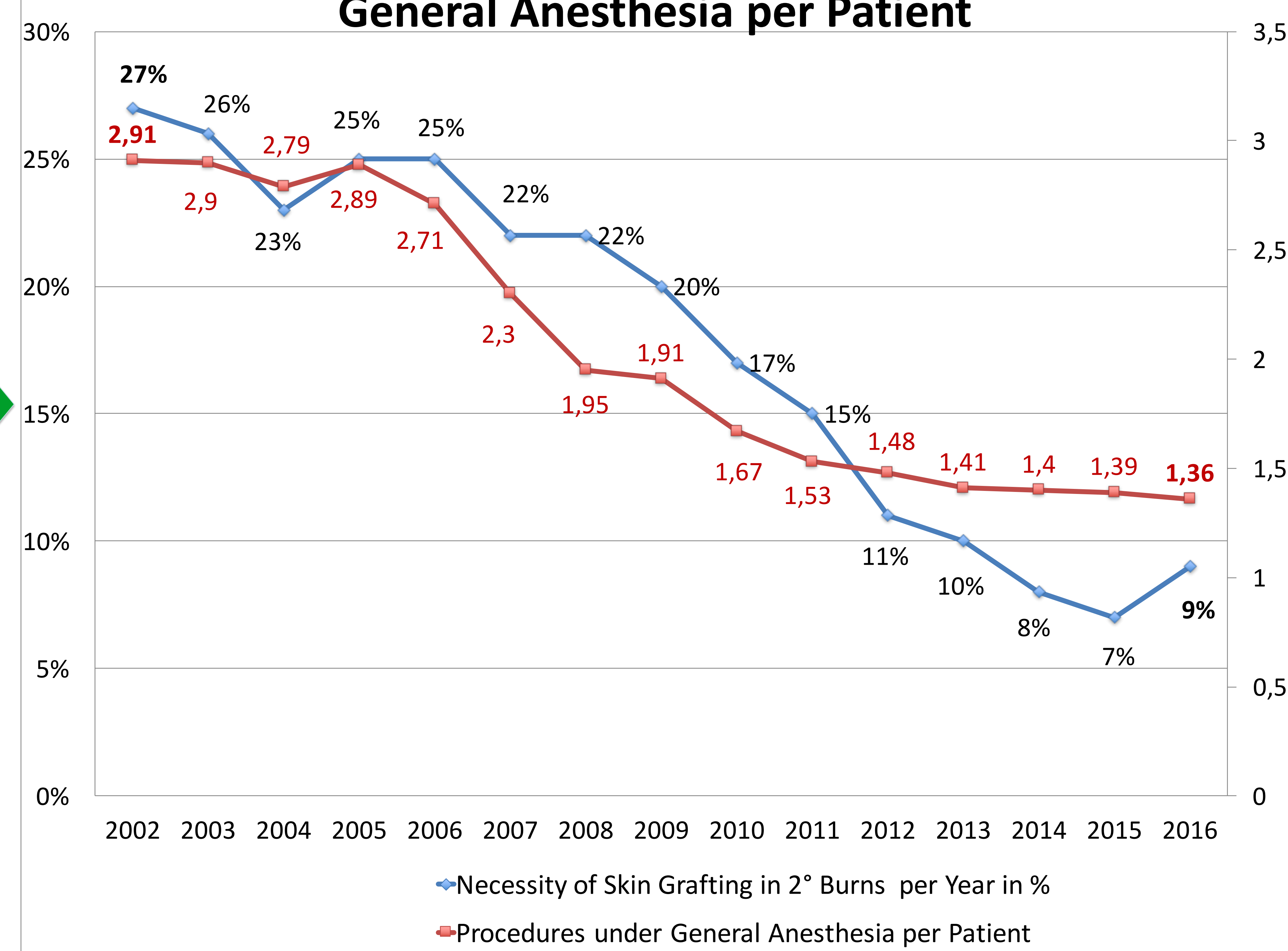
The retrospective study (2002 - 2016) was conducted to evaluate the use of Caprolactone Dressing (Suprathel®) in second degree burns in respect of the need of skin grafting and the number of dressing changes under general anesthesia  
2134 pediatric burns have been treated in our institution between 2002 and 2016:

- ➔ 1735 children had a second degree burn
- ➔ 1063 patients were treated with a Caprolactone Dressing (Suprathel®)

### Pediatric Second Degree Burns treated in our Institution between 2002-2016



### Necessity of Skin Grafting and Procedures under General Anesthesia per Patient



## CONCLUSION

With over 90 % of the second degree burns treated with the Caprolactone Dressing in our institution, it has become our gold standard. The increase in usage of Caprolactone Dressing from 0% in 2002 to 90 % in 2016 provided significant advantages:

The need of skin grafting in second degree burns was reduced by 74% (20pts) during the last 14 years.

The number of dressing changes under general anesthesia was reduced by 47%.

## TAKE HOME MESSAGE

The Caprolactone Dressing can be a gold standard in second degree burns. It offers significant medical benefits to patients while reducing the workload in the burn unit.