

# Is delayed decontamination with Diphoterine® solution useful in chemical injuries?



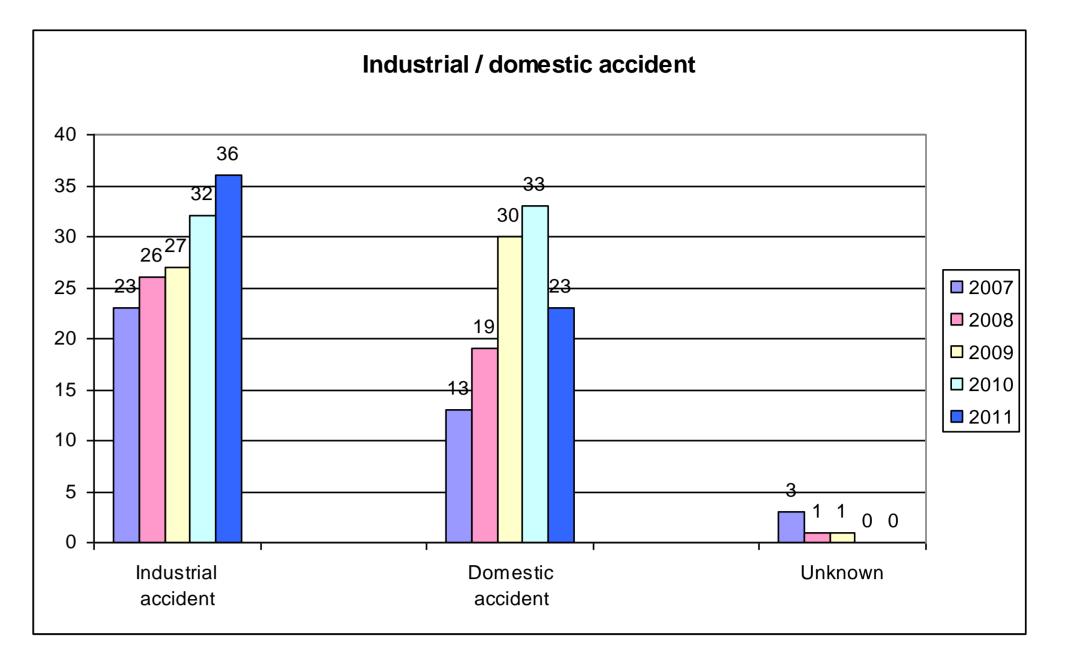
Pr Denise Jacquemin MD, PhD Burn Centre, CHU Liège, Belgium

### **Objectives**

Demonstrate the usefulness of delayed decontaminaton with Diphoterine® solution after chemical insult.

#### **Methods**

In a retrospective study of patients admitted to the Liege Burn Centre, Belgium, among half of the patients with chemical injury suffered as a result of a domestic accident. They had no decontamination withe Diphoterine® solution, only in a few cases with water. In some cases regarding industrial accident, there was no decontamination on site at time of accident. At the hospital, we performed a delayed decontamination with Diphoterine solution, sometimes several hours after the injury.



#### Results

Case 1: 0.52 year old, Destop® (caustic soda) ingestion in the morning at about 10 o'clock splashed on face and right arm, admission at Burn center at 14h15.Rinsing lesions including lips and mouth with Diphoterine® solution on admission







Case 2: laboratory assistant is splashed with phenol on left forearm at 1 pm. Polyethylene glycol is applied in the laboratory. He comes to burn centre 2 hours later with persistent pain with erythematous blistered skin lesion. We perform a delayed washing with Diphoterine® solution and observe the disappearance of blisters and pain. The wound is dressed with paraffin gauze. The next day the wound is completely healed.

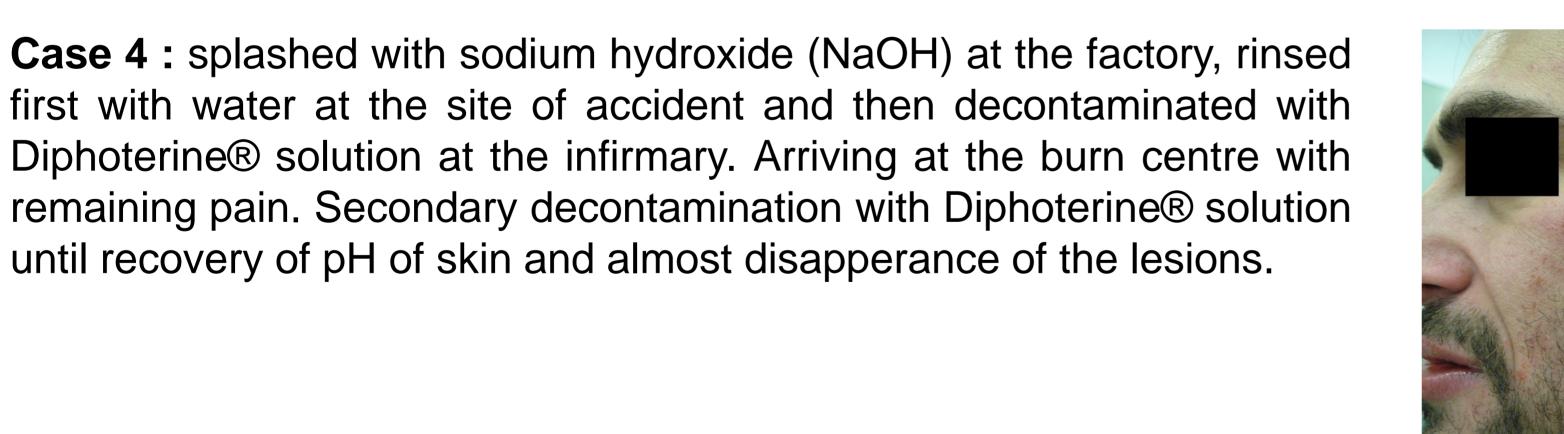




Case 3: accident in the morning with potassium hydroxide, no rinsing; first consultation in the evening at burn centre where delayed washing with Diphoterine® solution is achieved.











Case 5: an 18 months old child is splashed with caustic soda on his right leg. He arrives at the burn centre one hour later after the accident . Delayed decontamination with Diphoterine® solution performed. 2 weeks later, the wound starts good healing.







## **Conclusion**

A delayed washing with Diphoterine® solution is indicated, but the results of course will not be as good as in an immediate decontamination. This being said, we have nevertheless, observed better results with Diphoterine® solution than with those washed with water only. **Its use on children allows us to claim its innocuousness.**