

**OPPORTUNITIES OF HYDROSURGICAL SYSTEM\* IN PRACTICE OF TREATMENT OF CHILDREN WITH BURN TRAUMA AND SEQUELAE**

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Favorable outcomes of surgical treatment of patients with deep burns depend largely on the willingness to autografting of wound surface. The practice shows that this kind of manipulation is difficult to implement, with the localization granulating wounds on the face, neck, armpits in areas interdigital intervals, the perineum because of their anatomic (pronounced lack of subcutaneous fat, dense wound bed).

The hydrosurgical system\* has been used by 59 patients with deep burns and their sequel, which were treated in our since 2006. Age of children ranged from 1.5 to 12 years. Patients divided in 2 groups. The first group consisted of children with acute burn trauma – 42 people. In Group 2 included 17 recovered after burn treatment with scars.

Preliminary analysis of the results using the hydrosurgical system\* indicates that hydrosurgical system allow to visually monitor the depth of traumatization tissue, preventing possible damage low structures. And most importantly do not hurt healthy tissue.

The hydrosurgical system\* actively used after burn treatment of children with scars. Applying it in the reconstructive-replacement surgery of sequel of burn trauma enabled technologically improve operations such as free autografting dermal graft (SPKT) and dermabrasion.

We have treated 12 children which, instead of “acute” handling of skin transplant to remove subcutaneous fat that is traditionally performed using scissors or scalpel, used the hydrosurgical system\*

At 5 patients with different types of scars dermabrasion was done with the hydrosurgical system\*. The advantages of the hydrosurgical system\* were: Reducing the time of removing scar tissues and the absence of symptoms of pain in the early postoperative period

The first experience with the hydrosurgical system\* in Burn of childhood shows its effectiveness and prospects for further use of this advanced technology in Surgery and Traumatology.

\* Versajet