

# Serum with stem cells for the deep skin defects. First experience.

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**Aim of the study.** To present the effect of serum with stem cells on the deep skin defect.

**Material and methods.** Case history of the patient, protocols of operations, pictures before, during and after the application of the serum with stem cells.

**Results.** Girl 8 years old underwent traffic accident 2006-06-22. Large areas of the skin, subcutaneous tissue and partially muscles of both calves were crushed. Patient was operated on by plastic surgeons; replantation of the damaged tissue was performed (pic.1). After the operation patient was transferred to Vilnius University Children's Hospital. 2006-06-26 and 2006-06-28 patient was operated on because of necrosis of the replanted tissue. (pic.2) Due to deep tissue defects skin grafting was performed 2006-07-01 and 2006-07-13.

Despite the skin grafting some deep skin defects remain on both calves, covered with granulation tissue (pic.3,4,5). The next operation was scheduled. Starting 2006-07-24 hydrating serum with stem cells (DNA Health Institute, Ventura, California, USA) was applied 3 times weekly first week, 2 times weekly second week and 1 time weekly till the full healing of the defects. The defects were healed using only 7 applications of the serum with stem cells and dressings with 0,9% saline solution. The patient recovered and is able to walk without support.

**Conclusions.** Serum with stem cells could be very helpful for the deep skin defects and could diminish the number of operations.

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