

G. Dambaev, E. Sokolovich, S. Filippov, E. Belousov,  
A. Kozhemiakin, A. Kutsenko, M. Chiharev, Y. Petrushova,  
E. Topolnitsky, A. Doroshenko  
Siberian state medical university Tomsk, Russia

***Surgical rehabilitation of the patients after the chest-wall resections***

The chest-wall resections in oncology, general surgery, phthisiathry causes difficulties in a process of medical and social rehabilitation of the patients. We think that the titanium nickel (TiNi) explants are the best way for their surgical rehabilitation.

We designed the titanium nickel construction of an artificial rib consisted of middle elastic TiNi plate and two porouspenetrable TiNi plates on both sides of it. All three plates were fixed with each other by TiNi wire. Experimental work was done on 10 adult unbreed dogs male and female. We made an explantation of the described construction after a subperiosteal resection of the rib carried out under general anesthesia. We used extreme high frequency therapy on the apparatus «Stella-2» (Firm «Sinor») to stimulate the tissues reparation after the operation. According to the X-ray data after 3-12 months: structure of the tissue around the explant was the same as unoperated ribs. Morphological data showed that after one month there was connective tissue in porous of the construction and three months later bone tissue only.

The results allow us to think about possibility of reconstruction of larger chest-wall defects .

VI Международный конгресс Реабилитация в медицине и иммунореабилитация, Эйлат, Красное море, Израиль, 3-6 мая 2000 года

16/10 Miklukho-Maklaya Street  
Moscow, 117871 RUSSIA  
Tel: (++7-095) 336-5000; (++7-095) 429-9620  
Fax: (++7-095) 336-5000  
E-mail: immunreh@ibch.siobc.ras.ru  
Web site: www.isir.ru

International Congress "Advances in Immunology and Allergology on the threshold of the XXI century".

**The Organizing Committee will notify authors regarding Abstract acceptance and the form of presentation. Accepted abstracts will be printed in the *International Journal on Immunorehabilitation* that will be distributed at the Congress.**