

International videoconference – an important step to the transplantation

On the 16th of February 2012 the first international videoconference on regenerative medicine took place. A number of Russian and international clinics: Stockholm – Huston – Krasnodar – Florence – Moscow under the guidance of the leading scientist professor Paolo Macchiarini took part in the conference.

The list of participants:

- Cancer center “MD Anderson”, University of Texas (Houston, USA), thoracic and cardio-surgery department: Professor David C. Rice; Dr. Reza J Mehran, MD; MD, Dara Keener.
- General thoracic and regenerative surgery and intrathoracic biotransplantation, University Hospital Careggi, Florence, Italy: Massimo Jaus, Alessandro Gonfiotti, M.D.
- Karolinska University Hospital, Stockholm, Sweden: Kuylenstierna Richard,
- Lars Olaf Cardell, Mats Holmström.
- Lungs surgery and mediastinal department National Research Centre of Surgery named after B.V. Petrovsky, Russian Academy of Medical Sciences, Moscow: candidate of medical sciences D.V.Bazarov, MD, Professor V.D.Parshin
- Clinical Regional Hospital named after prof. Ochapovsky and Kuban State Medical University have also taken part in it. The conference was attended by: Chief doctor of the Regional clinical hospital №1, corresponding member of RAMS, Professor, head of the department of oncology with a course of thoracic surgery ATF and PT SPEI HPO KSMU Minzdravsocrazvitiya Rossii V.A.Porkhanov, Deputy Chief Doctor RCH №1 candidate of medical sciences I.S.Polyakov, vice-chancellor on scientific and research work A.N.Redko, MD professor E.I.Kondratieva, thoracic surgeons from RCH №1 and the members of research team of the grant.

Possibilities of bioengineered tracheal transplantation for patients with diseases of upper airways were discussed during this online conference. Karoliska Institute (Sweden, Stockholm) represented one patient. This case was reported by the representative from Karolinska Institute Philipp Jungebluth. Specialists from National Research Centre of Surgery named after B.V. Petrovsky, Russian Academy of Medical Sciences, Moscow, presented case of the patient who had cadaveric tracheal transplant. Surgeons of University Hospital Careggi (Florence, Italy) also represented one patient, who had a large tumor which invades also the distal part of trachea and because of the fact that the regenerative tissue is limited as well as the length of trachea, so that means that the only method of treatment is transplantation of bioengineered trachea made from the nanocomposite material, seeded with stem cells; and surgeons of Texas University (USA) offered two candidates, including one child.

Thoracic surgeon, Deputy Head Doctor of Clinical Regional Hospital №1 I.S. Polyakov who is responsible for preparing working with the patients to the upcoming transplantation reported results of instrumental evaluations: CT and bronchoscopy of two candidates.

Candidates were discussed by leading specialists of participating countries. Everybody could share his opinion about treatment process and case management.

Several transplantations of nanocomposite trachea seeded by autologous mesenchymal cells of patient are planned within this project in Krasnodar. For the present moment preparing work is in process: the patients are prepared, the methods of cells sampling, their isolation and cultivation are being tested.