APPLICATION OF EMBRYONIC STEM CELLS IN TREATMENT OF PATIENTS WITH RHEUMATOID ARTHRITIS

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Embryonic cell suspensions (ECS) containing stem cells are used in complex treatment of the patients with rheumatoid arthritis (RA).

- The main indications for ECS transplantation are:
  - RA with high activity of inflammatory process, seropositive and seronegative, in case of ineffectiveness of treatment by nonsteroid anti-inflammatory agents and glucocorticoids;
  - RA with high activity of inflammatory process, seropositive or seronegative, in case of ineffectiveness of the aggregative therapy in combination with nonsteroid anti-inflammatory agents and glucocorticoids;
  - RA, associated with cytosolic myeloperoxidase resulting from aggregative therapy;
  - RA, active or non-active phase associated with anemia during 6 months and more, FSI II-III degree, Ro II-IV degree for increase of functional abilities;
  - RA, active or non-active phase, seropositive or seronegative, associated with muscle atrophy, cachexia, extra-articular lesions - visceritis.

The main effects of ESC transplantation in RA patients:

- syndrome of early post-transplant improvements seen in the decrease of the general fatigability, subsiding pain, better mood, optimism, improvement appetite, and normalization of sleep;
- decreased pain, articular, inflammatory indices;
- preservation of morphological unity of joints;
- increase of the scope of functions;
- inhibition of the disease activity;
- secondary prevention and treatment of extra-articular complications;
- decrease of anemic syndrome manifestations;
- improvement of life quality

Maximum decrease of all RA clinical manifestations 60 days after ESC transplantation. Clinical remission was achieved in 85% of cases.

The assessment of the scope of functions in patients with RA on the basis of the modified Stanford questionnaires

Indices of the cell immunity in patients with RA, receiving SC transplantation

Changes in erythrocyte sedimentation rate

The main group consisted of patients receiving embryonic cell suspensions containing stem cells. The control group included patients receiving conventional biotherapy.

Content dynamics of large-disperse circulating immune complexes in RA patients after ESC transplantation

Content dynamics of medium-disperse circulating immune complexes in RA patients after ESC transplantation

Content dynamics of small-disperse circulating immune complexes in RA patients after ESC transplantation

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