



Restoration of Organs

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Abstract:

Work on the restoration of damaged organs in an artificially created "habitat" environment can help solve both the problems of Transplantology itself and the methods of their treatment. But for this, it is necessary to improve the control of the immune system.

Keywords: Diseased organs; their external treatment

Introduction:

Modern Science, not only Medicine, is heavily fragmented and has many "blank spots" and outright contradictions at the junctions of fragments. And the conservatism of Science is largely determined not so much by the desire to preserve the found Local INVARIATES, as by clannishness pursuing purely mercantile interests. That is why Translational Medicine is important, aimed at both restoring lost connections and finding new ones between practical medicine and fundamental biological research. But Science cannot be advanced by a purely organizational method. A scientific Analysis of Basic Principles is required, based on which one can correctly consider the fundamentally New. And for this purpose, not purely bureaucratic leadership is needed, but a Scientific Head, who possesses the Basic Principles and is endowed with the powers of a Scientific Director. Scientific officialdom is mired, as I have already noted, in clannishness, and its protégés - outstanding scientists, received all their honors and titles clannishly. In this regard, the future of Science is in Open Access, which is OPEN for a wide circle of the scientific community, not divided by clan barriers.

Problems of Transplantology and the Way to Solve Them.

"Oh, what a hard job it is to drag a hippopotamus out of a swamp!" And in order to solve the Problem, it is necessary, as Lenin wrote, "to find the main link." Therefore, to begin with, let us try to consider the Problems of Transplantology impartially.

And most of its problems of Transplantology are connected with the limitation

Regenerative Immunity.

There is another problem of the organ condition that is borderline between General and Local, and which concerns not only Transplantology. This is immunity, which often leads to rejection of a healthy organ.

The word "Regenerative" in Medicine is interpreted as "Restorative", which is fundamentally different from the scientific and technical term "Pre-generative, passing into Generation". Hence the wandering in three pines of Medicine, when it drove itself into a loose and even false idea of Immunity.

If we return the true understanding of Regeneration to Medicine, then the problems of Immunology become obvious.

For this return, I will give several ELEMENTARY examples from systems engineering. Any control system has Feedback, which corrects the Transfer Number (value) of the Control Signal. Moreover, even such ELEMENTS as transistors are covered by Feedbacks to ensure NORMAL Operation (and as was shown in my works - also to correct errors in the Theory of Semiconductor

of the objects of research, both for Ethical reasons - the removal of some organs from donors, and for Financial reasons - the difficulty of guaranteed preservation of donor organs. And although they strive to conduct precision research with this limited "material", I know from my personal half-century experience as a physicist that the guarantee is not very high even when using NANO-technologies.

As a result, there are many unsolved purely scientific problems.

So: "The head controls the body." But in practice, when an organ is ill, the main ailment is sought in it, and not in its "habitat." So, the wise professor Shabalov literally felt the disease in the child's gall bladder in 15 minutes (which other doctors could not find for six months) and prescribed an Elementary Diet, which got the child back on his feet in 3 months. That is, he corrected the organ's "habitat" environment and transplantation was not required at all. But if the organ's "habitat" environment had been well studied, many patients would have simply received corrective pills and would have lived peacefully. Of course, there are also cases of Local organ disorders associated with disruption of the organ's cell life process. Again, if the diseased organs themselves were widely studied, it would be possible to find a way to correct the process of dying and reviving the cells of a given organ. Now diseased organs are dealt with exclusively by pathologists. Whereas their research and restoration would allow not only to expand the base for transplantation, but also to find ways to cure them inside or outside the patient.

Devices). So there are many Feedbacks in a single microcircuit. But it is better to consider it using the example of the General (Global) Feedback of the entire Control Device, since in addition to eliminating ELEMENTARY errors, it is also used to select the "Target Guidance" mode. Just as Achilles "never" catches up with the tortoise, the set Goal cannot be achieved unless it is strived for with some lead. For this purpose, the Regenerative Mode of Operation is REASONABLY used, which allows for some controlled oscillations. In such a controlled (well-tuned) Mode, intentional oscillatory deviation of the control signal is allowed, which allows for a significant increase in the speed of the Control System without a breakdown in a purely generative mode. So, the Immune System is the same Feedback that should restore the Control System of a certain organ when it is damaged. And its transition to the regenerative mode leads to the fact that, like a technical unit or a machine as a whole, a certain organ or organism as a whole goes into disrepair (up to complete destruction).



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