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AGENDA

İnönü University broke new ground in the world with its "octuple cross liver transplantation"

Prof. Dr. The team led by Sezai Yılmaz reinforced its world leadership in the field of organ transplantation with the operation in which a total of 16 surgeries were performed simultaneously and 150 healthcare professionals took part.

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ANKARA

Prof. at İnönü University Turgut Özal Medical Center Liver Transplantation Institute in Malatya. Dr. The team led by Sezai Yılmaz achieved a new success in the field of organ transplantation by performing the world's first simultaneous eight-cross liver transplant.

According to the statement made by the Council of Higher Education, approximately 80 percent of liver transplants in Türkiye are performed from living donors, but a significant portion of the donors cannot be medically compatible with their relatives.



8-cross liver transplantation was performed at İnönü University Liver Transplant Institute.

At this point, the cross-transplant system comes into play. In cross-transplants, a donor who cannot donate an organ to a patient is matched with another patient, while his or her relative can be a donor to a different patient. Thus, the problem of incompatibility can be overcome with scientific matching methods.

The algorithm of transfers is carried out with the matching model developed by Boston College economics professors Tayfun Sönmez and Utku Ünver in the USA. Matches created by evaluating many criteria such as blood type, liver size, anatomical structure and donor safety are vital for patients waiting for an organ.

In such operations, all recipient and donor surgeries proceed interconnectedly like a "domino stone". If any of the transmitters or receivers in the chain gives up at the last moment, the entire matching system may be disrupted. Therefore, all operations are started at the same time.

İnönü University Liver Transplantation Institute, which is the world's leading center in living donor liver transplantation, is by far the leader in cross-liver transplantation.

In this context, Prof. at the institute. Dr. The team led by Sezai Yılmaz performed the world's first simultaneous eight-cross liver transplant. For the operation, which lasted 22 hours, most of the operating room and intensive care capacity of the institute was used, and 150 medical

personnel, including surgeons, anesthesiologists and nurses, took part.

"Even 9- and 10-cross liver transplants can be performed at the institute."

Prof., whose opinions were included in the statement. Dr. Yılmaz stated that the conditions of some patients in the cross-liver transplant pool had reached a critical level and said, "Two of our patients had severe abdominal acid accumulation and jaundice. Their kidney functions had also begun to deteriorate. One of our patients had fallen into a liver coma, which we call hepatic encephalopathy." gave the information.

Explaining that an 8-cross pattern emerged as a result of the matching of these three patients, Yılmaz said, "Such a model emerged as a result of matching among a pool of 24 patients and 29 donors. Thinking that this would save all three of our patients, we decided to perform an 8-cross liver transplant." he said.

Stating that the operation requires a huge organization and that more than 150 healthcare professionals are involved, Yılmaz emphasized that even 9- and 10-cross liver transplants can be performed at the institute, and that there is a structure capable of performing such a large transplantation with appropriate physical facilities, operation equipment and a liver transplant team.

Stating that the main purpose of multiple cross-over transplants is to reach more patients, Yılmaz noted that the aim is not to perform multiple cross-overs, but to somehow offer hope and organs to patients who are waiting too long in the cross-liver transplant pool or who are very urgent.

Yılmaz stated that the surgeries lasted approximately 16 hours until the last patient was discharged, and the total operation time reached 22 hours due to vascular revision in two patients.

"I was proud of this great achievement"

President of the Council of Higher Education Prof. Dr. Erol Özvar also thanked İnönü University, Turgut Özal Medical Center for the transplant, and Prof. Dr. who led this historical success. Dr. He congratulated Sezai Yılmaz and the entire medical team.

Emphasizing that this transplant, which was carried out for the first time in the world, is extremely valuable as it shows the level that Turkish higher education, scientists and health system have reached on a global scale, Özvar said:

"I am proud of this great success. Our universities continue to be an example not only for our country but also for the whole world with their work in the field of medicine and health. It is a matter of pride for all of us that the pioneering work that our İnönü University has been carrying out for years in the field of organ transplantation has been crowned with such an important scientific and humanitarian success. I congratulate all our academics, physicians and healthcare professionals who bring hope to patients and direct the world medical literature with their scientific knowledge and experience, and I wish them continued success."