

Organ Transplantation: basic principles and special aspects

optional / elective course

lectures once in a week (90 mins) at the Department of Surgery, Transplantation and Gastroenterology, Dollinger Lecture Room from 5 pm

Week	Topic	
1	The history of organ transplantation, basic concepts of organ transplantation, the concept and determination of brain death. Organ donation, organ removal, donor care, organ preservation, machine perfusion.	Dr. Toronyi Éva
2	Transplantation waiting lists, allocation of transplantable organs. Legal regulation of organ distribution. The role of international organ transplantation organizations. Importance of Eurotransplant. Immunological aspects.	Dr. Wagner László
3	Kidney transplantation: Indication, surgical procedure. Long-term outcomes of kidney transplantation. Immunosuppression. Complications.	Dr. Toronyi Éva
4	Challenges in the field of kidney transplantation: Pediatric kidney transplantation. Living-donor kidney transplantation. Significance of cross-over donation and living-donor ABO incompatible kidney transplantation.	Prof. Dr. Reusz György/ Dr. Wagner László
5	Liver transplantation: Indication, surgical techniques. The status and future role of robot-assisted surgical techniques. Oncological aspects of liver transplantation. Complications.	Dr. Huszty Gergely
6	Challenges of liver transplantation. Living-donor liver transplantation, split liver transplantation, pediatric liver transplantation.	Prof. Dr. Jörg Pollok
7	Heart transplantation: Indication, recipient selection, surgical techniques. Immunosuppression.	Prof. Dr. Hartyánszky István
8	Lung transplantation: Indication, recipient selection, surgical techniques. Immunosuppression.	Prof. Dr. Rényi-Vámos Ferenc
9	The most common complications of transplantation: Infections, gastrointestinal complications, malignant tumors in the post-transplantation period.	Dr. Wagner László /Dr. Toronyi Éva
10	Radiological aspects of transplantation. Diagnosis and therapy. Invasive radiological interventions.	Dr. Somogyi Dóra
11	Pancreatic and islet cell transplantation. Small intestine and multi-organ organ transplantation.	Dr. Huszty Gergely/Dr. Piros László
12	Aftercare of transplant patients. Ethical issues, organ trade.	Dr. Wagner László/Dr. Toronyi Éva
13	Questions and answers related to organ donation, future possibilities to compensate for the lack of organs. How long do organs maintain viability in the state of brain death? Organizational questions and difficulties of organ transplantation - from organ removal to implantation.	Dr. Toronyi Éva
14	Case presentations, exam. (Single-choice test)	Dr. Toronyi Éva