



# Regulation of organ donation and transplantation in ESTONIA

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# Legislation

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- Source document for legal issues:

**Procurement, Handling and Transplantation of  
Cells, Tissues and Organs Act**

passed in 29.01.2015, entered into force 01.03.2015

<https://www.riigiteataja.ee/en/eli/ee/Riigikogu/act/502042015002/consolide>

- Regulations of the Minister on the basis of it:
    - Selection criteria for donors;
    - Rules for procurement and handling;
    - Conditions and procedure for detection of brain death;
    - Accountability and statistics etc.
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# Organisation

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1. Transplantation council;
  2. National transplantation agency;
  3. Transplantation centre;
  4. The procurers and handlers of cells, tissues and organs;
  5. Estonian Health Insurance Fund;
  6. State Agency of Medicines;
  7. Health Board;
  8. Ministry of Social Affairs.
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# Transplantation council

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... an independent advisory committee formed by the minister

- 15 members:

representatives of all levels of donor /transplant organisation + representatives of the organisations of patients and the relevant professional organisations.

- to submit proposals to the relevant organisations:

- 1) to determine and update the national need for the procurement, handling and transplantation of cells, tissues and organs;

- 2) to establish the strategic goals for the procurement, handling and transplantation of cells, tissues and organs;

- 3) to finance the procurement, handling and transplantation of cells, tissues and organs;

- 4) to promote the awareness on the donation of cells, tissues and organs.

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# National transplantation agency

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- 1) follow-up of the medical status of living organ donors;
- 2) traceability and biovigilance of organs 24/7;
- 3) organ transplant waiting lists 24/7;
- 4) distribution and international exchange of organs 24/7;
- 5) public education programs;
- 6) audits over the donation of cells, tissues and organs to establish the reasons for non-donation;
- 7) development of national quality and safety guidelines;
- 8) data interchange with the procurers, handlers, transplanters and the national agencies;
- 9) education and research related to the procurement, handling and transplantation of organs.

Responsible authorities: Ministry of Social Affairs / TUH

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# Activity licence obligation

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- Procurement and handling of human cells, tissues and organs:
    - State Agency of Medicines;
  - Organ transplantation:
    - Health Care Board;
  - Lab accreditation:
    - Estonian Accreditation Centre;
    - European Federation for Immunogenetics (EFI).
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# Living organ donor

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- Informed consent in writing;
  - Medical examinations and tests ascertain fitness to donate and that the risk to the donor's own health is minimal;
  - Only for transplantation into a person with whom the donor has a genetic or emotional connection;
  - Psychological counselling;
  - Life-long follow –up + health insurance (where appropriate).
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# Deceased donor

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- Conditions:

- The death of the person has been established by a special procedure;
- During lifetime, the deceased donor had express a wish to donate organs after his/her death or there is no information available that the person was against it;

Pathway: national health information system → close relatives → emotionally close person or legal representative;

NB! Other persons may not prohibit the removal of organs if the deceased person has consented in lifetime; and they may not allow it if the deceased person has refused in lifetime!

- The removal of organs must not impede the conduct of forensic medical expertise.
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# Brain death establishment

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- 2 physicians: anaesthesiologist + neurologist / neurosurgeon;
  - Prerequisites: the probable reason for the brain death is known and documented; hypothermia ( $>35^{\circ}\text{C}$ ) + effect of sedative, narcotic and/or muscle relaxation inducing substances + severe metabolic and endocrinal disorders + arterial hypotension are ruled out;
  - 2 clinical assessments + apnoea test;
  - The length of monitoring before the 1st assessment and between 2 assessments shall be decided by the same physicians;
  - 1 additional examination of the following: EEG, TKD, angiography, SPET.
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# Screening for infectious diseases

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Mandatory minimum by national legislation	TUH criteria for organ donors
HIV-1,2 Ab	HIV-1,2 Ag+Ab; HIV1,2 RNA
HBs Ag, HBc Ab	HBs Ag+Ab; HBc Ab; HBc IgM; HBV DNA
HCV Ab	HCV Ab; HCV RNA
T pallidum Ab	T pallidum Ab
HTLV-1,2 Ab (where appropriate)	HTLV-1,2 Ab (where appropriate)
	CMV IgM + IgG
	EBV IgM + IgG

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# Organ transplant waiting list

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- Multi-disciplinary expert committee:
    - at least 5 physicians, incl. referring physician, competent transplant surgeon, internal medicine physician according to organ;
  - All decisions (both registrations and removals) must be in writing with original signatures of all participants, as well as the patient's (or his/her legal representative's) signature.
  - Citizens of another EU MS or a third country may also be registered, if they:
    - guarantee the financing of the organ transplant ( prepayment or guarantee letter) and
    - confirm in writing that they have not registered on the waiting list of another state.
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# Organ allocation

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- The matching (medical) criteria must be developed by the competent surgeons and approved by national transplantation agency.
  - In case of recipients with similar compatibility, the organ shall be transplanted:
    - 1st preference to an Estonian citizen;
    - 2nd preference to a citizen of another EU MS or a country of the EEA;
    - 3rd preference to a citizen of a third country or to a person without citizenship.
  - If there is no match with any of the patients on the waiting list, the organ can be offered to foreign countries in accordance with cooperation agreements.
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# International collaboration

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- Formal international contracts:
    - Ministries of Health of Latvia and Lithuania - exchange of surplus organs (since 1975 → revised 2013);
    - Scandiatransplant - exchange of surplus organs (2013);
    - Eurotransplant – exchange of surplus organs (2008);
    - Vienna University Hospital - collaboration in the field of lung transplantations (2009 - 2013) in the field of heart-lung transplantations (2015);
    - Helsinki University Central Hospital – collaboration in the field of heart transplantations (2013).
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## Export to SCTP by centres 2013+

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State	Centre	Kidney	Liver	Lung	Heart	Pancreas
FI	Helsinki			2	7	
SE	Stockholm	3	8			2
	Uppsala	1				2
	Gothenburg	3	3 → 1 ET	4	3	1
	Skåne				7	
DK	Copenhagen	3	2	2	2	
	Århus				1	
NO	Oslo		10 → 1 Stock	2	2+1*	6
	<b>77</b>	10	23 → 1 ET	10	22+1*	11

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# Traceability

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- Unified coding system for all **donors** and harvested **tissues and organs**:

EST 01 16 → EST KIL 1 01 TUH 010116

→ April 2017 – the Single European Code for tissues

- Common database with restricted access on a secure server of TUH, where it is possible to identify all the chain:  
donor ID ↔ donor code ↔ organ code ↔ recipient ID
  - To ensure traceability, the necessary data must be preserved for at least **30 years**.
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# Biovigilance

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- Reporting of serious adverse events and reactions:
    - Initial report for suspected event without undue delay;
    - Final report within a reasonable time, not later than 3 months after;
    - Reports must be sent to the National transplantation agency (TUH) and State Agency of Medicines (SAM);
    - TUH organises an appropriate communication between all concerned procurement and transplant centres;
    - SAM notifies the competent authorities of concerned countries.
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# State supervision

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- Procurement and handling of human cells, tissues and organs, incl. quality and safety requirements:
    - **State Agency of Medicines;**
  - Organ transplantation:
    - **Health Care Board;**
  - State supervision shall be exercised at least once in every two years.
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# Whom rain, whom the sun ...

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*Photo : Priit Tammjärv 14.05.2015*