

ORGAN TRANSPLANTATION ACTIVITIES in ESTONIA

Virge Pall, 02.05.2012 Tartu University Hospital



- First kidney transplant 20. Dec 1968
 Total 931 transplants, 423 functioning kidney allografts
 Organ exchange between Baltic states since 1977.
- First liver transplant 3. Jan 1999 (total 25, functioning 21)
 Collaboration with Helsinki (prof. Höckerstedt's team) since 1990.
- First lung transplant 7. Oct 2010 (total 5, all functioning) Twinning contract with Vienna since 2009.

Deceased donors:

- 53 potential donors from 4 hospitals (out of 7); Tallinn 27, Tartu 23, Pärnu 2, Tallin chilrden's 1
- Actual 26: only tissues 4, tissues and organs 22 (incl. 13 multi, 59%)

Reasons for elimination

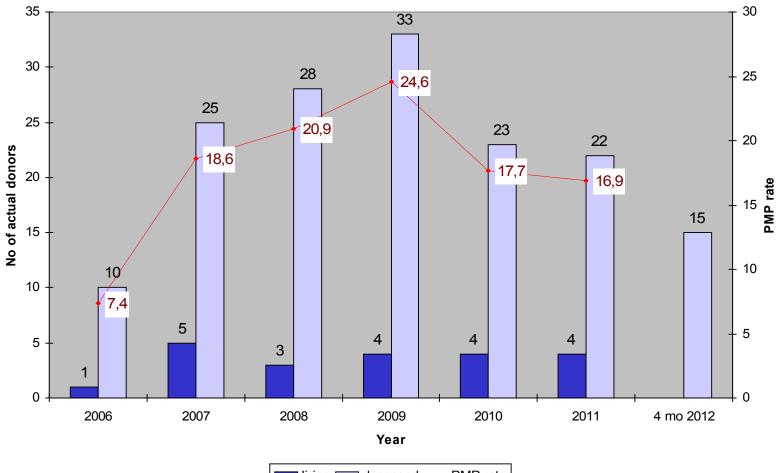
- family refusal 11
- medically unsuitable
- brain death not declared 1
- no suitable recipient 4

Removed organs: 44 kidneys, 9 livers, 10 lungs.

Living: 4 kidney donors (3 fathers, 1 mother)

- 16,9 pmp for deceased organ donors
- 2,4 pmp for living donors.







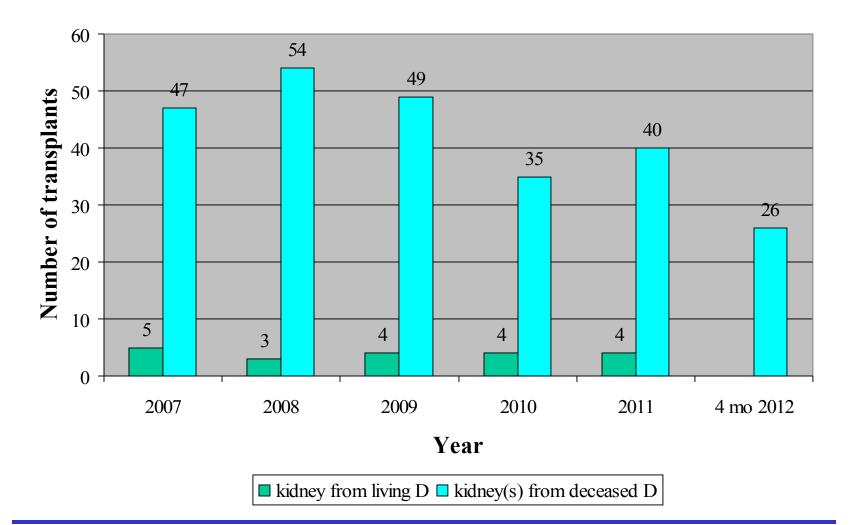
Kidneys:

47 allografts (44 recipients), incl. 4 from living and43 from deceased donors;

- average waiting time to transplant 16 months
- on waiting list at the end of year 55 (+ 50 in 2011)
- exported 4 kidneys, imported 3 kidneys (Latvia).

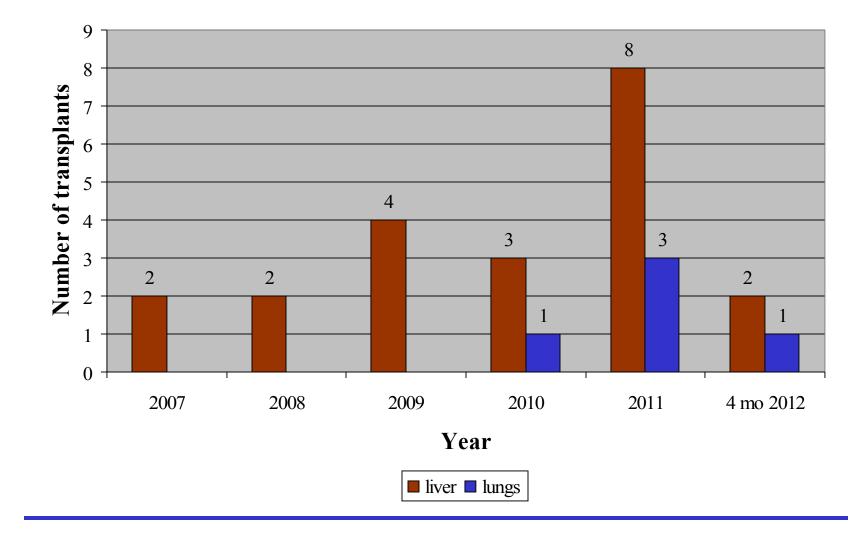


Kidney transplants





Liver and lung transplants





Liver

- 8 transplants, incl. 1 retransplant
- on waiting list 4 patients (+ 13 in 2011)
- exported 1 liver (ET).



Lungs:

- 3 transplants;
- on waiting list 2 patients (+ 2 in 2011)
- exported 2 pairs of lungs (Vienna)

Heart + lungs:

- 1 transplant in Vienna University Hospital



Organ exchange in Estonia

	Export	Import
2007	2 kidneys to Latvia	1 kidney from Latvia
2008	5 kidneys to Latvia	2 kidneys from Latvia
2009	7 kidneys to Latvia, 2 to Lithuania,5 pairs of lungs to Austria,2 kidneys+ liver+ heart to ET	3 kidneys from Latvia (1 lungs transplant in Austria)
2010	5 kidneys to Latvia,2 pairs of lungs to Austria	1 kidney from Latvia
2011	4 kidneys to Latvia,2 pairs of lungs to Austria,1 liver to ET	3 kidneys from Latvia (1 lungs/heart transplant in Austria)
02.05. 2012	1 kidney to Latvia 2 kidneys+ 1 liver +3 pairs of lungs to ET	



Lab accreditation by EFI since 26.10.2011



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EUROPEAN FEDERATION FOR IMMUNOGENETICS

CERTIFIES THAT Tartu University Hospital United Laboratories, Department of Immunoanalysis TARTU - ESTONIA (01-EE-001.999)

UNDER THE DIRECTION OF

Dr. Astra VÄSTRIK

HAVING MET THE REQUIRIMENTS OF THE FEDERATION, ACCORDING TO THE FFI STANDARDS 5.6.1, IS GRANTED ACCREDITATION FOR HISTOCOMPATIBILITY TESTING

From 26 October 2011 To 26 October 2012

ACCREDITATION CATEGORIES:

Organ Transplantation:	Renal	Non-Renal
Receptent Typing	Yes	Yes
Antibody Screening	Yes	Ves
Arcibody Identification	Yes	Усв
Donor Typing	Yes	Yex
Cooss-matching	Yes	Yea

II Harmatopolicie Stem Cell Transplastation: Dona: Registry Typing Yes Related Donor Typing Yes Unselated Doner Typing --Cond Blood Typing --Const-marching --

III Disease Association Stadics

1V Transfiction

TECHNIQUES

1 HLA- l'ypings	CDC	Flow cytometry	DNA	DNA
Ciass I	Yes		2-digite Ves	4-digita Yes
Class JI	-		Yes	Yes
II Antibudy terring:	CDC	Flow cytometry	ELISA	Scarl array
Screening	Yes		Yea	
IdentEfination	Yes			
Cross-matching	Yes			

Prof. Dr. Hier Davat

Fred. Dr. Higs I.N. Domission PRESIDENT

Dr. Andrea Harmer

CHAIR, ACCREDITATION COMMITTEE

Lab accreditation by Estonian Accreditation Centre (ISO)

EESTI AKREDITEERIMISKESKUS

AKREDITEERIMISTUNNISTUS ACCREDITATION CERTIFICATE

Eesti Akrediteerimiskeskus kinnitab käesolevaga, et The Estonian Accreditation Centre hereby certifies that

TARTU ÜLIKOOLI KLIINIKUMI SA ÜHENDLABOR

Puusepa 1A TARTU

Tartu University Hospital Foundation

United Laboratories

vastab ISO 15189 nõuetele, kui meditsiinilabor has competence according to ISO 15189 to conduct research

kliinilise mikrobioloogia, immuunoloogia, hematoloogia ja kliinilise keemia analüüside valdkonnas

in the field of clinical microbiological, immunological,

haematological and clinical chemical analyses

Akrediteerimise ulatus ja tingimused on antud tunnistuse lisas, mis koosnob 12 lehest

The scope and conditions of accreditation are specified in the annex which consists of 12 pages

L167

Registreerimisnumber:

Registration number:

VIKTOR KRUTOB Juhataja Director Käeselev turnistus on välja antud secesa uusakrediteermisegi, esmana turnistus oli väija antud 03.02.2005 This cautificate was issued due to re-eccreditation, initial cartificate was issued on 09.02.2005 Secoleva turnistuse kahtivust saat, controllida EAK websilehelt. Valdifty of this contificate can be checked on the EAK we

Akrediteeritus kehtib kuni: <u>02.02.2015</u> The present accreditation shall remain in effect until:

Tallinnas 03.02.2010



Donor blood tests performed at Tartu University Hospital

ABO, X-match HLA-DR HBV, HCV, HIV, CMV

Taxi service 24 / 7



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Activity licence by State Agency of Medicines



RAKKUDE, KUDEDE JA ELUNDITE KÄITLEMISE TECEVUSLUBA			Tegevusala:	Elundite käitlemine
			Eritangimused: Togutsemiskoht: Pädev isik:	Neerude küitlemine Kirurgiakiiinik, L. Pousepa 8, 51614 Tartu Aleksander Lõhmus
Tegevusioa number: Tegevusioa omaja;	1 Sihtasutus Tartu Ülikooli Kliinikum		Eritingimused: Togutsemiskoht: Pädev isik:	Mûkêa kêitlemine Kirurgiaklimîk, L. Puusepa 8, 51014 Tartu Toomas Väli
Tegevusala:	L. Puusõpa 1a. 50406 Tartu Rakkutle käitlemine		Eritingimused: Togutsomiskoht: Pädev isik:	Kopsu käittemine Kopsuktiinik, L. Puusepe 8, 51014 Tartu Tanel Laisaar
Erilíngimusod:	Autoloogsete ja allogeessete luuudi tütvirakkude, autoloogsete ja allogeensete perifoorso voro tüvi- rakkude ja terapeutilisto rakkulo (T-lüunfotsönöid ja monomikloaarsod rakud) käitlemine		Eritingimused: Tegutsaniskoht: Pädev isik: Käitlemise õigus alates:	Sūdame käitlemine Sūdamekliinik, L. Puusepa 8, 51014 Tarm Arno Ruusalepp 30.04.2012
Tegutsemiskoht:	Hematoloogia-onkolosgia khinik, L.Pousepa 8, S1014 Tartu		~	
Pädev isik:	Ain Kaare		Eritingimused: Tegutsemiskoht:	Kõhunäärme käitlemine Kirurgiakliinik, L. Puusepa 8, 51014 Tartu
Eritingiraused: Tegutsemiskoht:	Sogurakkude ja embrüote käitlemine Naistekliinik, L. Peusepa 8, 51014 Tartu Aivar Ehrenberg		Pādev ísik: Küllenvise õigus alates:	Marko Muruste 30.04.2012
Pädev isik:			Tegevusluba uuendatud alates:	30.04.2012
Tegovusala:	Kudede käitlemine		Tegevusluba kehtib kuni:	29.04.2017
Eritingimused: Tegutsemiskoht: Pādev isik:	Vaskulaarkoe käitiemine Kirurgiakliinik, L. Puusepa 8, 51014 Tarm Toomas Ellervee	\odot		Ravimiameti 26.04.2012 otsus BPO5.4/1
Eritingianused: Tegutsemiskoht:	Laukoc käitlemine Traumatoloogia ja ortopeedia kliinik, L. Puusepa 8, 51014 Tartu		Mallchyy Kristin Raudsepp	
Pädev isik:	Mati Merila		Peadirektor	
Eritingimused: Tegutsemiskoht: Pädev isik:	Silms sarvkesta ja amnionimembraani käitlemine Silmakliinik, J. Kuperjanovi 1. 51003 Tarta Riina Pulges			

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- 28.10.2011 Deputy Secretary General on Health of the Ministry of Social Affairs confirmed that Tartu University Hospital is entitled to represent Estonia in multinational organ exchange
- 01.01.2012 the revised financing criteria (incl. procurement, handling and transplantation of tissues and organs) entered into force
- 25.04.2012 a new home page about Estonian transplantation activities is available for public www.elundidoonorlus.ee
- 30.04.2012 the activity licence of Tartu University Hospital is renewed for next 5 years, incl. new heart and pancreas procurement and handling



- **Kidneys** 44 (0- 17, A 9, B 10, AB 8)
- Livers 4(0-1, A-1, AB-2)
- Lungs 1 (0)

Main problems:

- Limited donor pool
- High urgent patients, paediatric patients
- Patients in need of a donor heart or heart/lungs
- Quite unique HLA genotype and ABO distribution
- Average time on WL for kidney 23 mo ↑ max 88 mo; ≥ 36 mo – 11 (25%)
- Highly immunized, i.e. $PRA \ge 80\% = 9$ patients (20%)
- Waiting for third transplant 2, second transplant 22



- Revision of the law and regulations governing handling and transplanting of cells, tissues and organs in order to meet the standards of the EU directive
 - Creation / nomination of national transplant organisation
 - Revision of national requirements for licensing
 - Revision of brain death diagnostic criteria
 - Creation of living donor register
- Continuing preparations for national heart and pancreas transplant programs
- Negotiations about possibilities to join OEO







- 27 potential donors → 15 actual donors
 family refusal 5
 brain death not declared, medic. unsuitable or no suitable recipient 7
- 26 kidney transplantations
- 2 liver transplantations
- 1 lung transplantation
- Exported: 1 kidney to Latvia;
- 2 kidneys + 1 liver + 3 pairs of lungs to ET member states