Founded 1969 by the Nordic Council of Ministers
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Scandiatransplant

- Scandiatransplant is the organ exchange organization for the Nordic countries Denmark, Finland, Iceland, Norway and Sweden. It covers a population of about 25 million inhabitants. It is owned by the ten hospitals performing organ transplantation in these countries. The office is located at Århus University Hospital, Denmark.
Purpose of Scandiatransplant

- Effect the exchange of organs and tissue
- Operate a database and communicate information
- Promote the provision of human organs and tissue for transplantation
- Support scientific activities
- Cooperate with national competent authorities, EU, and other transplantation organisations
Scandiatransplant organisation

"USERS"

Council of Representatives

Chairman

The Board

Medical Director

Scandiatransplant Office

DATABASE

Oslo
Helsinki
Göteborg
Upsalla
Huddinge
Skåne
Copenhagen
Aarhus
Odense
Reykjavik

NKG (Kidney all)
NLDR (Living kidney donor - family and friends)
NPRTSG (Kidney pediatric - special care)
NLTG (Liver all)
NTSSG (Thorax all)
NFCG (Coordinators)
STAMP (Program for long time waiting kidney patients)
NTC (Nordic health authorities)
STTG (Tissue Typer)
Pancreatic islet group
Prevention of transmission of infections
NPG (Pancreas)
Awarded Grants in 2014

Reseach Grants

- Principal investigator: Kari Nytrøen. “Effect of exercise after heart transplantation – a Nordic multicenter population based study”. Supported with 40,000 €.

Travel Grant

- Einar Gude: 15,000 DDK.
- Per Arne Bakken, Stein Foss & Monika Storrø: 15,000 DDK.
- Tanja Hölvold & Åsa Svärd: 10,000 DDK.
- Hans Henrik Lawaetz Schultz: 10,000 DKK.
- Margret B. Andresdottir: 7,500 DDK.
- Ilkka Helanterä: 15,000 DKK
• **Number 1 priority**: Changing to new (YASWA) system:
  – Very crucial due to unsupported software and old hardware.
  – Increase user friendliness and functionality.

• Kept the ”old” system running to ensure correct organ allocation 24/7.

• Huge amounts of programming and testing done.
Scandiatransplant Office Activities 2014 (2)

- Educated users and complied with demands from users, owners, researchers and the public.
- Arranged meetings for groups, committees, board and council of representatives.
- Participated in the STS 2014. Engaged in revision of the articles according to mandate from the council 2014.
- Participated in meetings with Nordic competent authorities, EU-commission and EU projects.
- Taking care of finance and personnel.
Figures for 2014

Organ procurement and transplantation activities in Scandiatransplant

Founded 1969 by the Nordic Council of Ministers
484 Utilized deceased donors (18.36 PMP)

- organ transplants performed
  - 1212 kidneys (352 were living related)
  - 388 livers (6 were living related – 5 were domino)
  - 157 hearts (0 were domino)
  - 133 lungs including heart/lung
  - 84 pancreas including kidney/pancreas

- 2272 patients on waiting list at end 2014
Patients entered on waiting list during 2014 (2013 figures)

- Kidney: 1379 (1344)
- Liver 451 (392)
- Heart 191 (156)
- Lung 157 (166)
- Pancreas 27 (24)
- Kidney+Pancreas 62 (69)
- Liver+kidney 8 (10)
- TOTAL 2275 (2104)
Utilized doners PMP

Danmark | Finland | Norge | Sverige | Island

Flow on the waiting list during a year

Entered during the year
Transplanted during the year
On waiting list at end of year
Organ exchange 2014

- Kidney
- Liver
- Heart
- Lung
Kidney Transplantation
Kidney exchange rate
1969 - 2014
Kidney Transplantation activity 2014 by centre

Living donor
Deceased donor
Kidney Transplantation
2014

Finland | Sverige | Norge | Danmark | Island

[Bar chart showing kidney transplantations by country and donor type (living and deceased)].
1379 new patients on kidney waiting list 2014

- Transplanted: 37%
- On WL: 57%
- Dead on WL: 2%
- Withdrawn: 4%
Kidney waiting list
1995 - 2014
Average time on kidney waiting list at end of year

- Finland
- Sverige
- Norge
- Danmark

Years:
- 1999-2004
- 2005-09
- 2010
- 2011
- 2012
- 2013
- 2014

Time (in weeks)
Average Months on Kidney Waiting List by Immunisation status at end year

- Highly immunized
- Immunized
- Previously immunized
- Non immunized

Deceased donor kidney transplants
1994 - 2014
Living donor kidney transplants
1994 - 2014
EXCHANGE CRITERIA
Kidney transplantation

- Compulsory exchange of at least one HLA-A,-B,-DR compatible kidney:
  - 1. Highly immunized (PRA ≥ 80%) patients who are HLA-A,-B,-DR compatible with donor.
  - 2. Scandiatransplant acceptable mismatch program.
  - 3. Immunized patients (PRA ≥ 10% but below 80%) who are HLA,A,B,DR compatible with donor.
  - 4. If organ donor is <40 years of age, at least one kidney is offered to recipient <16 years of age (counted from time of registration), if there is HLA-DR compatibility and in addition not more than 2 HLA-A,B mismatches.
  - 5. Patients who are HLA-A,-B,-DR compatible with donor unless the proposed recipient is >30 years older than the donor.
- blood group 0 kidneys to blood group 0 recipients.
- blood group B kidneys to blood group B recipients.
- Return of another kidney within 6 months.
Liver Transplantation
Liver Transplantation
1989 - 2014
Liver Transplants
1994-2014

Danmark
Finland
Norge
Sverige

1994-99
2000-04
2005-09
2010
2011
2012
2013
2014
459 new patients on liver waiting list 2014

- Transplanted: 72%
- On WL: 21%
- Dead on WL: 2%
- Withdrawn: 8%
EXCHANGE CRITERIA
Liver transplantation

- Compulsory exchange to highly urgent patients on waiting list:
  - acute liver failure
  - acute liver re-transplantation
  - highly urgent patients on waiting list must be transplanted within 72 hours
  - Return (pay back) liver to Donor center

- Rota system
Thoracic Organ Transplantation
Thoracic organ transplants 2014

- Heart
- Lung
- Heart-Lung

<table>
<thead>
<tr>
<th>Country</th>
<th>Heart</th>
<th>Lung</th>
<th>Heart-Lung</th>
</tr>
</thead>
<tbody>
<tr>
<td>Denmark</td>
<td>30</td>
<td>20</td>
<td>10</td>
</tr>
<tr>
<td>Finland</td>
<td>20</td>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td>Norway</td>
<td>30</td>
<td>20</td>
<td>0</td>
</tr>
<tr>
<td>Sweden</td>
<td>40</td>
<td>30</td>
<td>0</td>
</tr>
</tbody>
</table>
Heart transplantation 2014
Heart Transplantation
1994 - 2013

191 new patients on heart waiting list 2014

- Transplanted: 56%
- On WL: 37%
- Withdrawn: 5%
- Dead on WL: 2%
Heart waiting list
1989 - 2014
EXCHANGE CRITERIA
Heart transplantation

- Compulsory exchange to highly urgent patients on waiting list:
  - Patient on short-term assist devices (ECMO, centrifugal pump).
  - Patient on paracorporeal or implantable blood pump with device failure or uncontrollable device infection.
  - Patients below 16 years on inotropic support or more than 12 months support on implantable LVAS.

- Rota system
Lung transplantation
including heart-lung
Lung Transplantion
1994 - 2013

Danmark
Finland
Norge
Sverige
Lung waiting list 1991 – 2014
157 new patients on lung waiting list 2014

- Transplanted: 53%
- Dead on WL: 5%
- On WL: 39%
- Withdrawn: 3%

Total: 157

Graph showing the distribution among these categories.
EXCHANGE CRITERIA
Lung transplantation

- Compulsory exchange to highly urgent patients on waiting list (max. three patients per center per year)
  - Priority 0: Patient on extra-corporeal circulatory support (ECMO, Novalung or other device) or ventilatory support*.
  - Priority 1: Patient with a rapid progression of organ failure with poor prognosis in a short time defined by the responsible centre*.

- Rota system
Pancreas Transplantation
Pancreas Transplantation
1988 – 2014
Thank you