

Annual report 2016



Founded 1969 by the Nordic Council

ScandiTransplant office

Aarhus University Hospital, Skejby
Palle Juul-Jensens Boulevard 99
8200 Aarhus N
Denmark

www.scandiTransplant.org

Table of contents

Introduction	3
Organisation.....	3
Activities in the organisation in 2016	4
Transplantation and organ procurement activity.....	5
Utilized deceased donors in numbers in Scandiatransplant.....	8
Utilized deceased donors pmp in Scandiatransplant.....	9
Transplanted patients in Scandiatransplant 2016	10
Organs imported and exported between EOEO's and Scandiatransplant.....	11
Number of deceased donors where organ(s) were offered	15
Kidneys exported and imported between the Scandiatransplant countries	16
Livers exported and imported between the Scandiatransplant countries	19
Hearts exported and imported between the Scandiatransplant countries.....	22
Lungs exported and imported between the Scandiatransplant countries	25
Pancreas exported and imported between the Scandiatransplant countries.....	28
Intestine exported and imported between the Scandiatransplant countries and other EOEO's.....	30
Kidneys 2016	31
Transplanted kidneys pmp from deceased donors per year	32
Transplanted kidneys pmp from living donors per year	33
Livers 2016	34
Transplanted livers (Deceased and living donors) pmp per year	35
Hearts 2016	36
Transplanted hearts pmp per year	37
Lungs 2016	38
Transplanted lungs (Double, single and heart-lung) pmp per year	39
Pancreas 2016	40
Transplanted pancreas pmp per year	41

Introduction

In 2016 the old Scandiatransplant server was finally closed down and the whole IT-system with the new YASWA user interface is now running on modern updated virtual servers. The number of utilized donors is still increasing a little, but the number of transplanted patients seems to have stabilized over the last few years. The Scandiatransplant Council of Representatives adopted a thorough revision of the Articles of the Association Scandiatransplant, which a working group had prepared through the preceding 2 years. Implementing a new model for responsibility and ownership of data was initiated and data processor agreements have been signed with some of the member hospitals. Finally, a suggestion from the Scandiatransplant Board to report SAE/SAR¹ to the health authorities, through the Scandiatransplant IT-system, was adopted by the health authorities.

Organisation

Scandiatransplant is the Organ Exchange Organisation (OEO) of the five Nordic countries: Denmark, Finland, Iceland, Norway and Sweden. It is an association and the members are the 10 hospitals performing organ transplantation in these countries. According to the articles the main purposes of the association are:

- to serve as a common organ exchange organisation and allocation resource for its member hospitals including kidney, liver, heart, lung, pancreas, pancreatic islet, cellular, intestinal and multivisceral transplantation. This is done transparently, using ethical principles and in full compliance with the national legislation of the members' countries,
- to maintain and operate a common waiting list for transplantation,
- to ensure complete traceability from organ donors to patients,
- to maintain and operate follow-up registries of transplanted patients,
- to maintain and operate follow-up registries of living donors,
- to serve as a collaborative platform through specialized working groups and advisory groups in order to facilitate best practice recommendations and policies optimizing retrieval, allocation and transplantation of organs, and
- to form a collaborative network for the member hospitals to promote research and development related to organ donation, allocation and transplantation.

The members elect Representatives to the Council, which is the association's supreme authority. It approves the members of the board, which represent all the countries, and is responsible for the day to day operations of the association. Suggestions for the activity and allocation rules are brought forward by a number of groups and committees.

¹ SAE/SAR: Serious Adverse Events / Serious Adverse Reactions

During 2016 the council had 39 representatives. The Chairman of the Board through the past 6 years Krister Höckerstedt was replaced in May by Bo-Göran Ericzon, Stockholm. The Board members were Lars Wennberg, Sweden; Pål-Dag Line, Norway; Finn Gustafsson, Denmark; and Magrét Andésdóttir, Iceland, who was replaced by Runolfur Pálsson and Helena Isoniemi, Finland, who was replaced by Arno Nordin.

The Scandiatransplant Office is located at Aarhus University Hospital, Denmark. The primary task of the office is to maintain and develop the IT-system holding data on all patients enlisted for organ transplantation in the Nordic countries. It is accessible 24/7 for all health personnel at the member hospitals performing organ retrieval and transplantation ensuring correct allocation of organs. In addition to this primary task the Scandiatransplant Office takes care of many other tasks such as running follow-up registries, educate and support users, arrange meetings for council, board, groups and committees, comply with demands from owners, researchers, authorities and the public, and participate in meetings with local health competent authorities, EU-commission and EU projects.

At the end of 2016 the staff consisted of 8 people, 6 full-time, the Secretary and the Medical Director, are working part-time. The total expenses were kept within the budget (5.5 mill. DKK ~ 740.000 EUR). The expenses in Scandiatransplant are payed by the member hospitals.

Activities in the organisation in 2016

The majority of the work done at the Office has been customizing the IT-system to the user's wishes and optimizing security and functionality of the system. The Office has also put resources into education and guidance in relation to the new IT-system. The old Solaris server was finally shut down and the whole system is now running on updated virtual servers in the environment of the IT systems of Central Region Denmark.

In May 2016 the Working Group for revision of the Articles of the Association Scandiatransplant presented the result of 2 years work to the Council of Representatives, which adopted the revisions. The old Articles were outdated and in many aspects not in line with the responsibilities and function of Scandiatransplant. The main medical professional work in Scandiatransplant is done in the groups, but they were not mentioned in the old Articles. Neither was the Scandiatransplant Office. The revised articles describe both the groups and the Office. The purposes of Scandiatransplant have been reformulated and a possibility for associate membership of Scandiatransplant has been introduced. The Board has decided to recommend associate membership for Tartu University Hospital in Estonia at the Council meeting in 2017.

In 2016 work on implementing a new model for the responsibility of data was started. In the past, the data responsible authority for the data in Scandiatransplant was Central Region Denmark. The new model defines that the Hospitals are responsible for their data. This is a way to ensure the legality of the data according to all countries. An agreement on data handling will have to be signed between Scandiatransplant and each member Hospital. Data processor agreements were signed with Helsinki, Odense and Aarhus and a sub-data processor agreement was signed with the IT-department of Central Region Denmark. Work is ongoing with the rest of the member Hospitals.

At the annual meeting with the five countries' health authorities in September the Board's suggestion to report SAE/SAR in relation to transplantation to the health authorities, as demanded by the EU-directive 2010/53, through the Scandiatransplant IT-System, was adopted. This solution is logic and practical, since many of the data needed for the report would already be in the Scandiatransplant database.

Scandiatransplant has participated in the meetings of the competent authorities and the EU-commission on matters of organ transplantation. The main reason has been to balance the participation of Scandiatransplant in the EU projects. The Office has adopted a policy of trying to have at least one person from the Office present at every meeting in the groups in Scandiatransplant to ensure continuity and updated information on decisions and wishes from the users.

Transplantation and organ procurement activity

The year 2016 has been a good year for organ transplantation in the five Nordic countries with still an increase in the number of utilized donors to the highest level yet. In this report we have chosen to present some key figures and compare some of them with data from 2007 and onwards showing the last ten year period.

First we looked at the total number of transplanted organs and compared with the number of patients on the waiting list at the end of the year. Although 2016 was the year with most utilized donors the number of transplantations were on the same level as the previous couple of years. The demand has increased so that at the end of 2016, there was the highest number of patients on the waiting list.

The competent authorities of the Nordic countries have requested data on import/export between Scandiatransplant and the other European organ exchange organisations as well as data on import/export within the Nordic countries. We therefore give a thorough presentation of these data.

Finally, data on waiting list and transplantation activities for the different organs are presented in the same manner as the previous years.

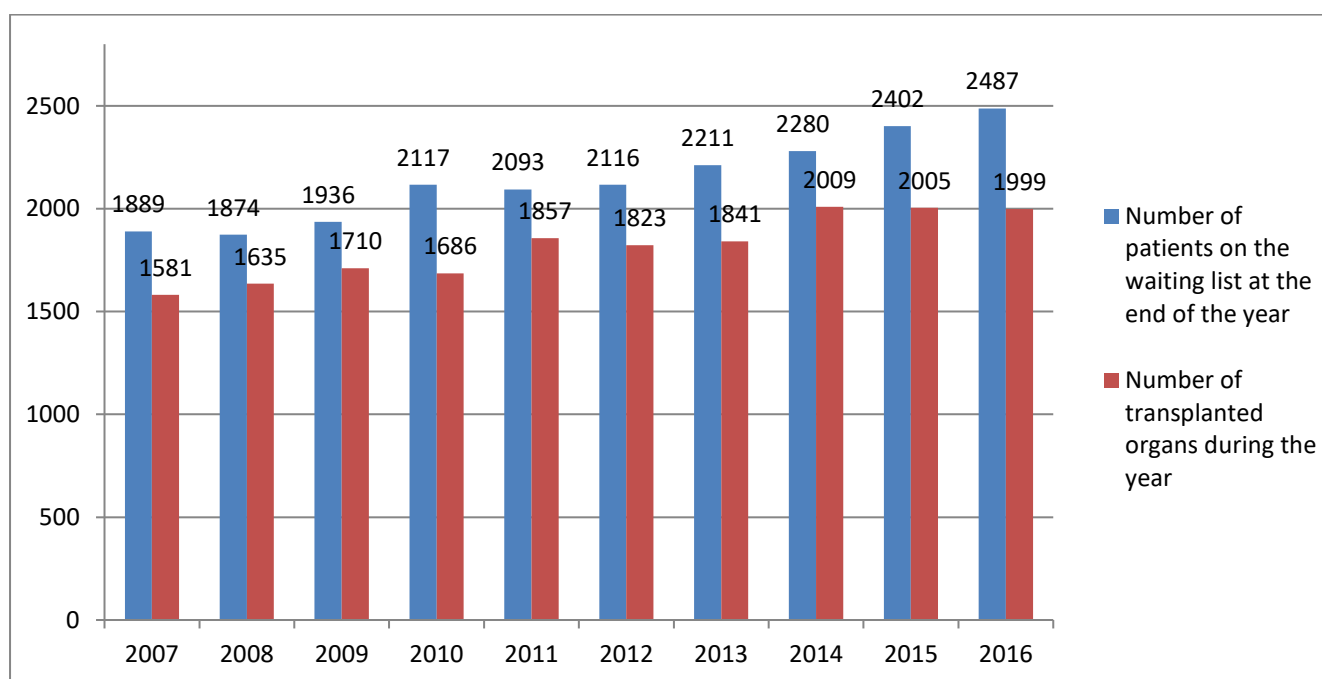
Further presentation of Scandiatransplant data is available in the annual slideshow:

<http://www.scandiatransplant.org/resources/dias2016.pdf>

In relation with the statistics presented please keep in mind that data subjects to change based on future data submission and/or correction.

Total number of organs transplanted and patients waiting for organs within Scandiatriplant

Year	Number of waiting patients ²	Number of transplanted organs ³
2007	1889	1581
2008	1874	1635
2009	1936	1710
2010	2117	1686
2011	2093	1857
2012	2116	1823
2013	2211	1841
2014	2280	2009
2015	2402	2005
2016	2487	1999

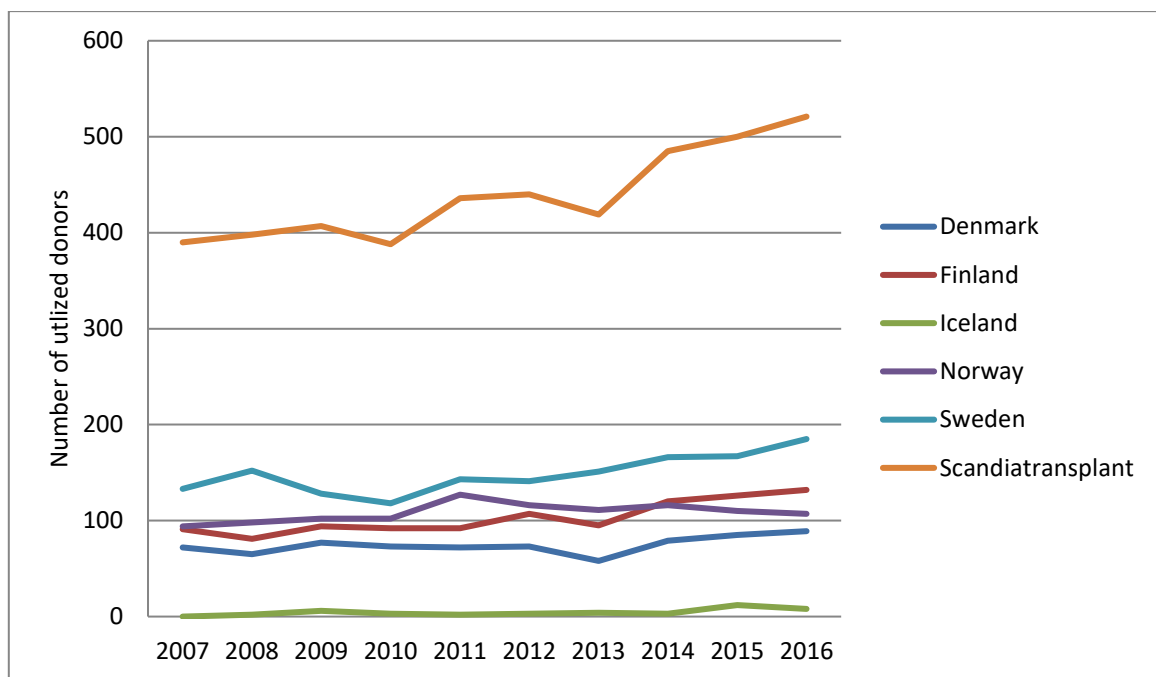


² Including patients waiting for Kidney, Liver, Liver-kidney, Heart, Heart-lung, Single lung, Double lung, Kidney-pancreas, pancreas and pancreatic islets

³ Including kidney, liver, heart, heart-lung, lung, pancreas and pancreatic islet

Utilized deceased donors⁴ in numbers in Scandiatransplant

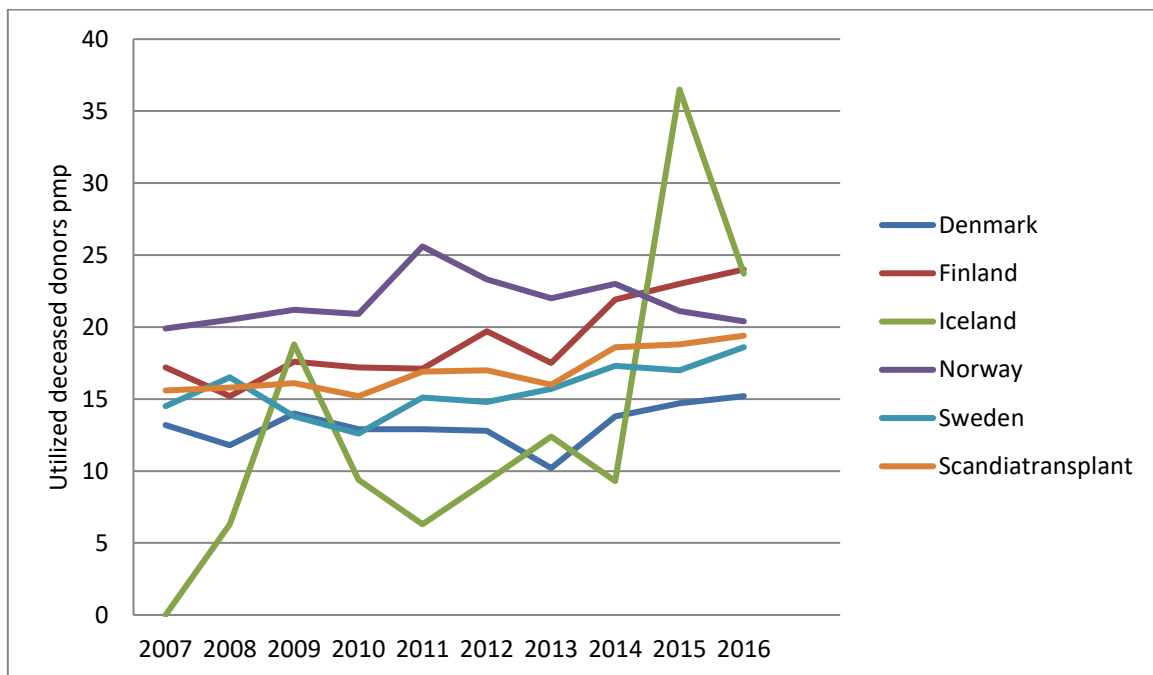
Year	Denmark	Finland	Iceland	Norway	Sweden	Scandiatransplant
2007	72	91	0	94	133	390
2008	65	81	2	98	152	398
2009	77	94	6	102	128	407
2010	73	92	3	102	118	388
2011	72	92	2	127	143	436
2012	73	107	3	116	141	440
2013	58	95	4	111	151	419
2014	79	120	3	116	166	485
2015	85	126	12	110	167	500
2016	89	132	8	107	185	521



⁴Definition of utilized donor: An actual donor from whom at least one solid organ was transplanted.
http://www.scandiatransplant.org/data/Deceaseddonordefv_3.pdf

Utilized deceased donors pmp⁵ in Scandiatransplant

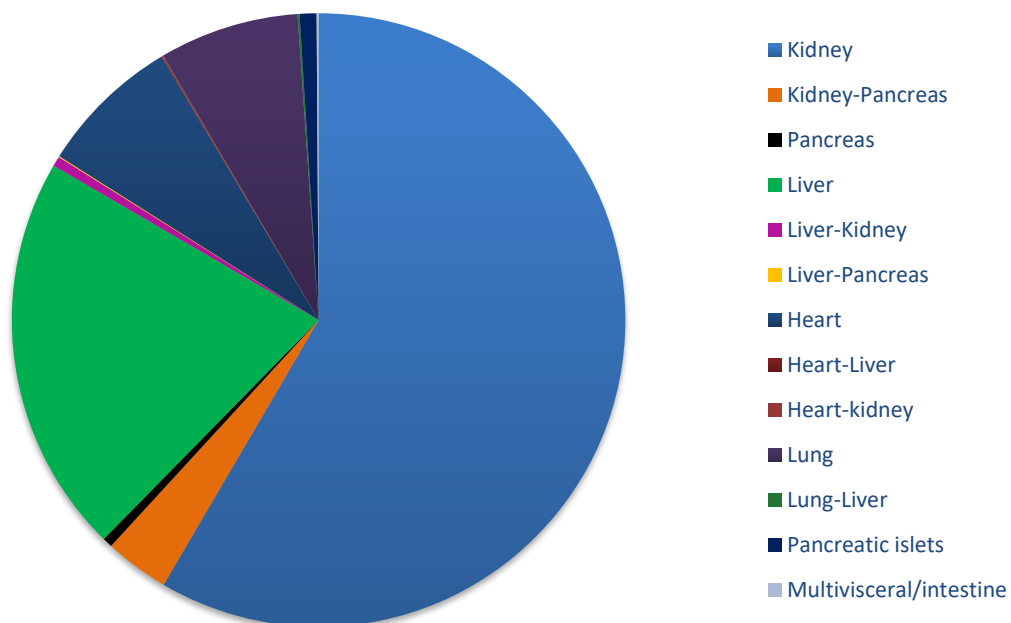
Year	Denmark	Finland	Iceland	Norway	Sweden	Scandiatransplant
2007	13,2	17,2	0	19,9	14,5	15,6
2008	11,8	15,2	6,3	20,5	16,5	15,8
2009	14,0	17,6	18,8	21,2	13,8	16,1
2010	12,9	17,2	9,4	20,9	12,6	15,2
2011	12,9	17,1	6,3	25,6	15,1	16,9
2012	12,8	19,7	9,3	23,3	14,8	17,0
2013	10,2	17,5	12,4	22,0	15,7	16,0
2014	13,8	21,9	9,3	23,0	17,3	18,6
2015	14,7	23,0	36,5	21,1	17,0	18,8
2016	15,2	24,0	23,7	20,4	18,6	19,4



⁵ pmp: per million population

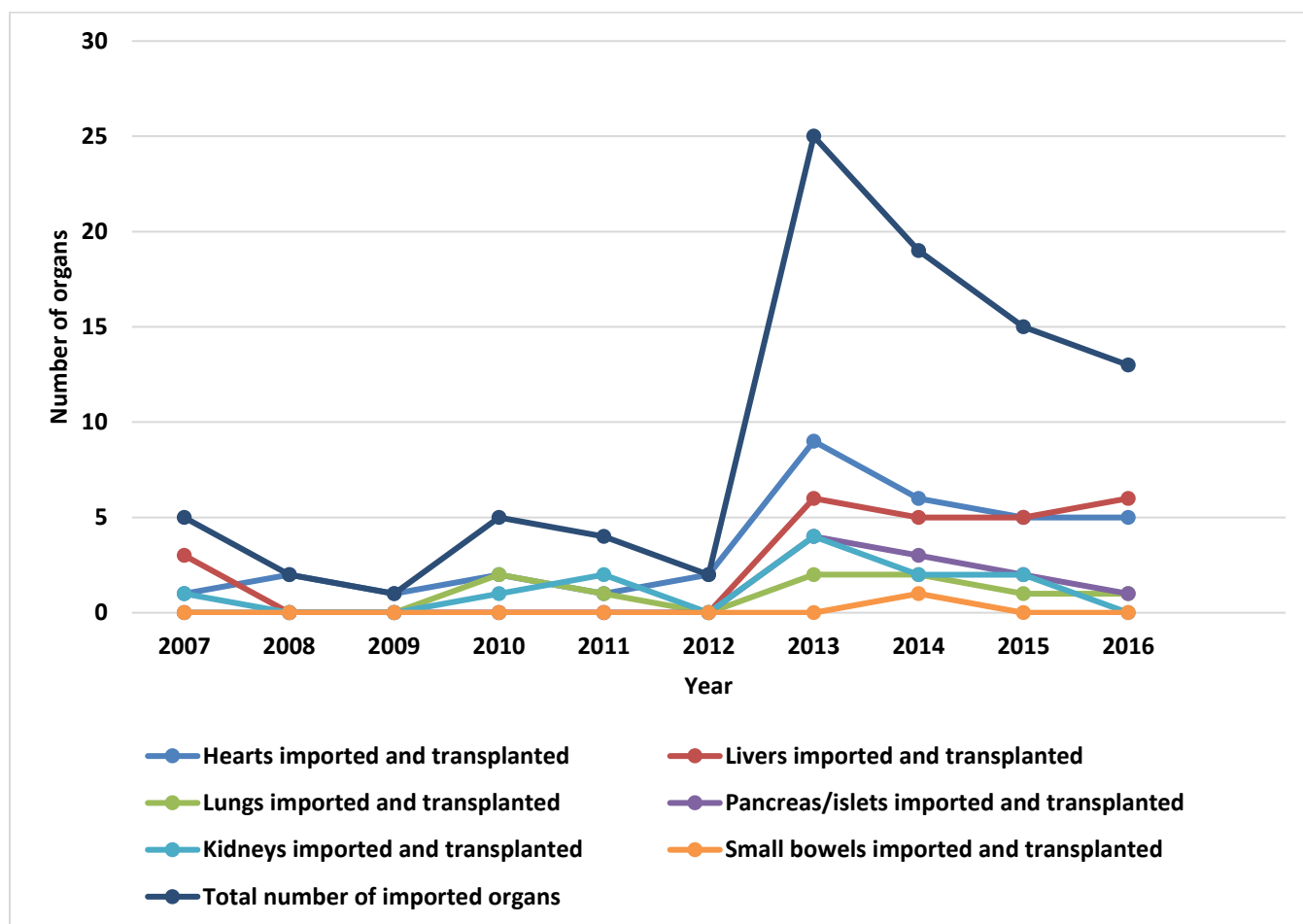
Transplanted patients in Scandiatransplant 2016

Organ(s) transplanted	Number of transplantations
Kidney	1119
Kidney-Pancreas	65
Pancreas	10
Liver	403
Liver-Kidney	10
Liver-Pancreas	1
Heart	143
Heart-Liver	1
Heart-Kidney	1
Lung	141
Lung-Liver	2
Heart-Lung	0
Pancreatic islets	17
Multivisceral/intestine	2
Total transplanted patients	1915



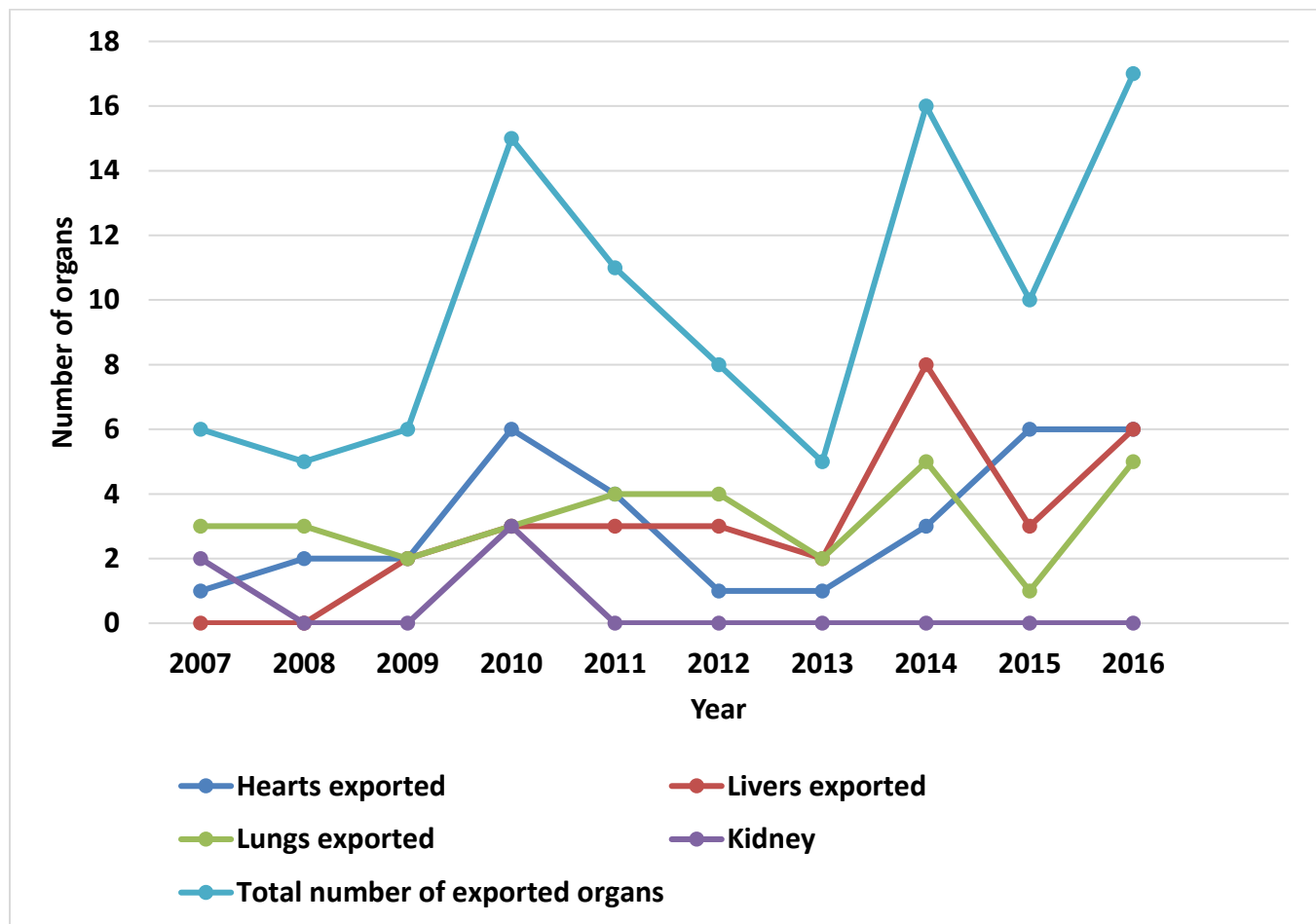
Organs imported and exported between EOEO's⁶ and Scandiatriplant

Organs imported from other EOEO's to Scandiatriplant

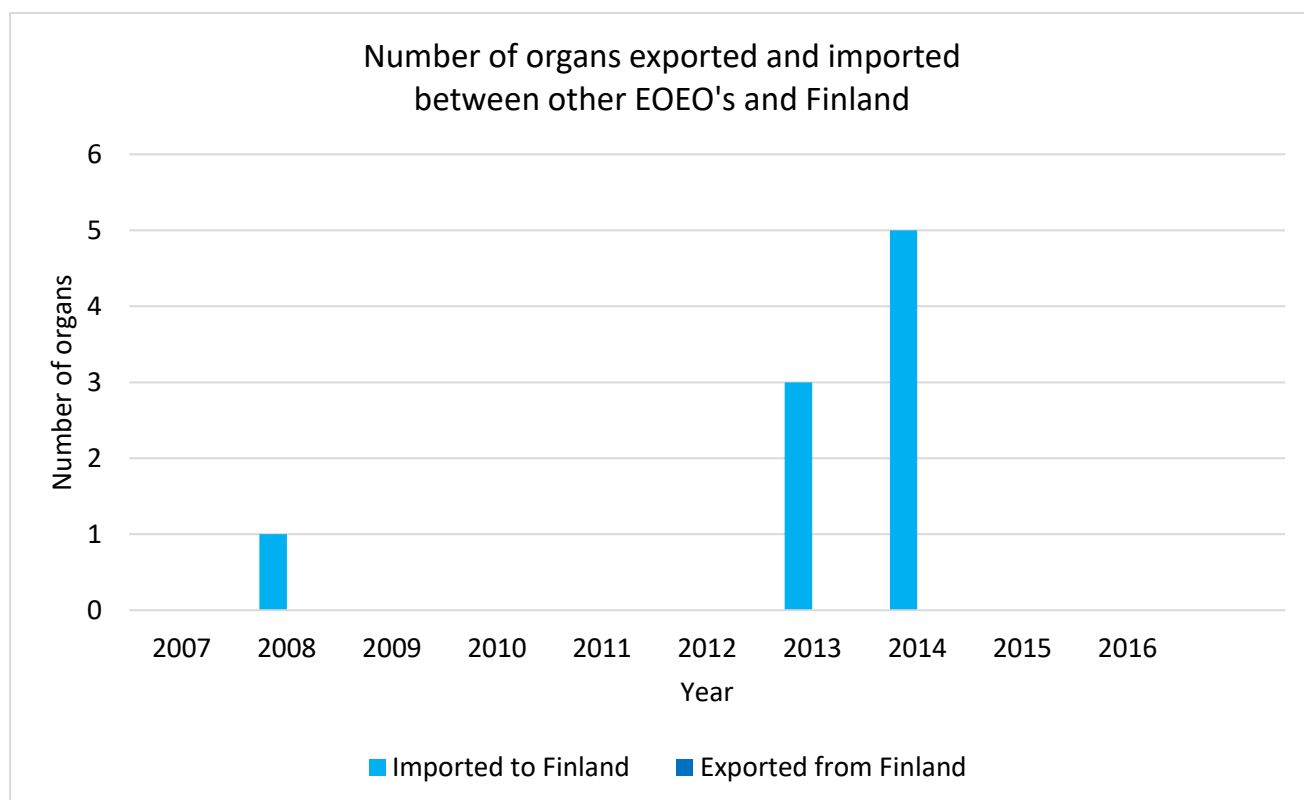
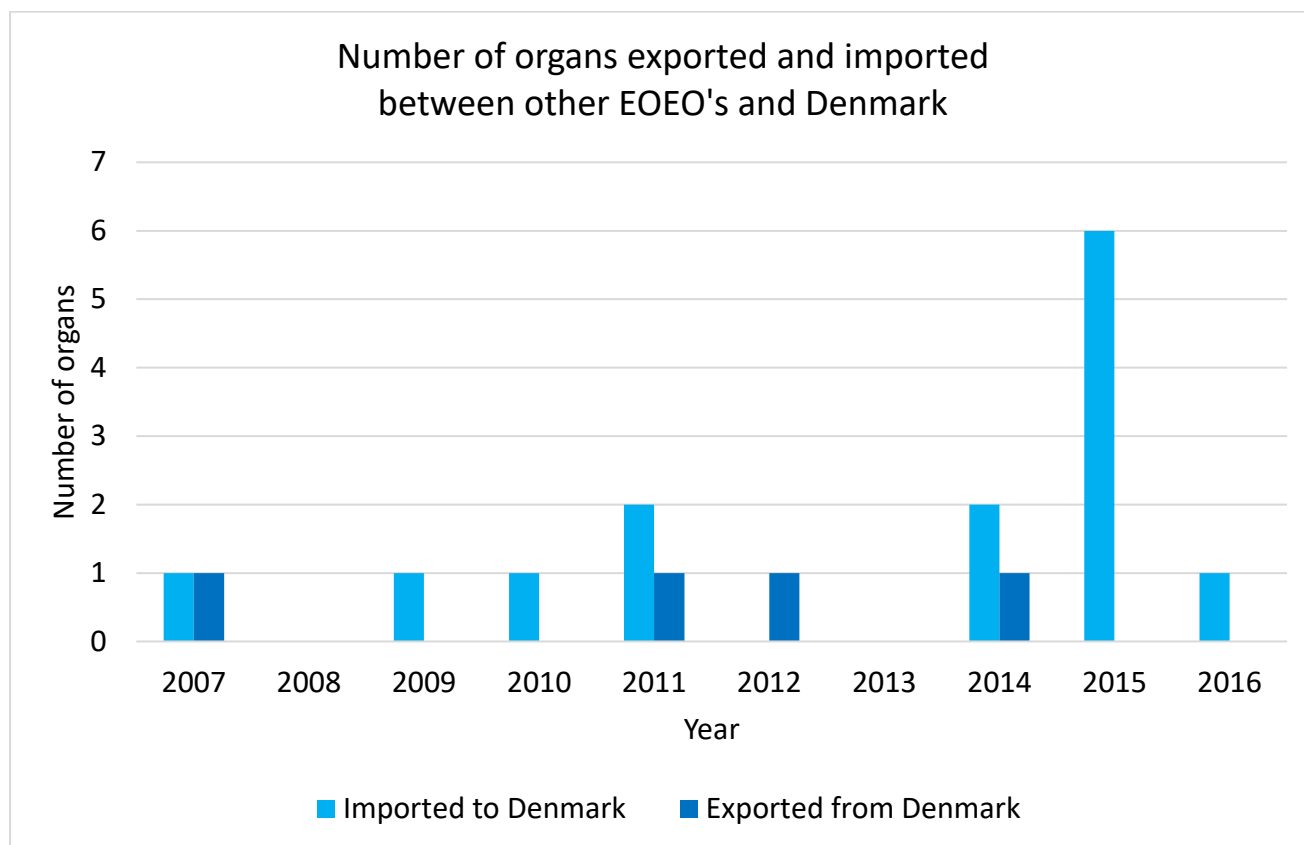


⁶ EOEO: European Organ Exchange Organisations

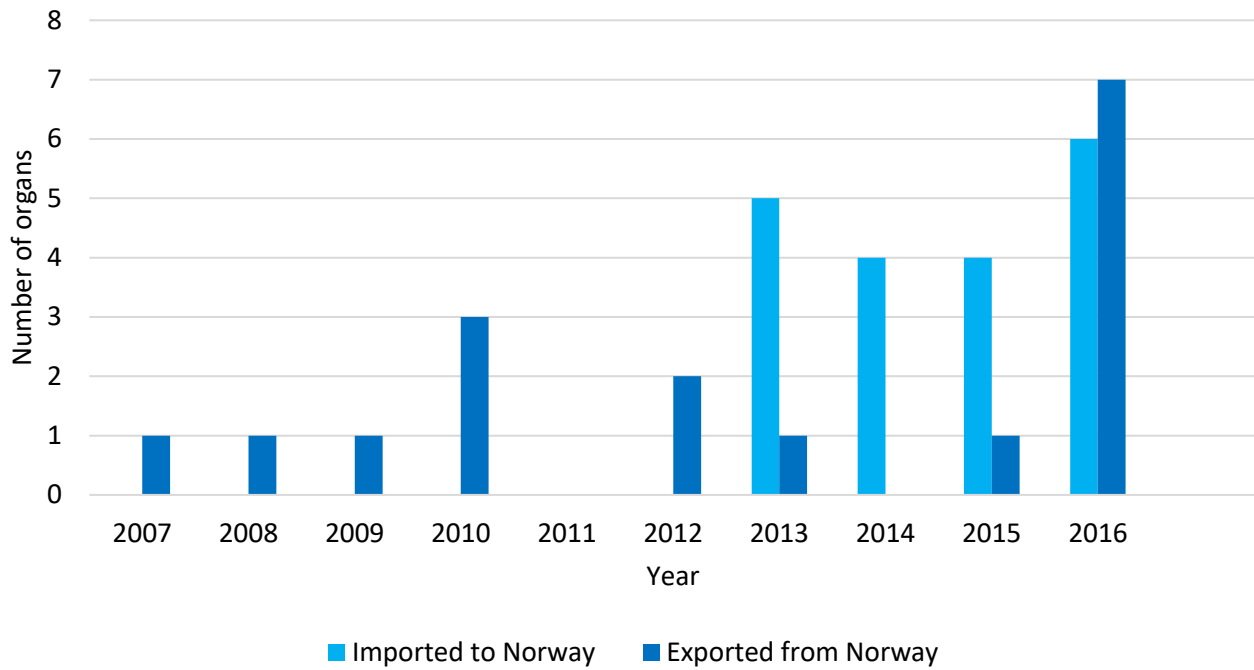
Organs exported to other EOEO's from Scandiatriplant



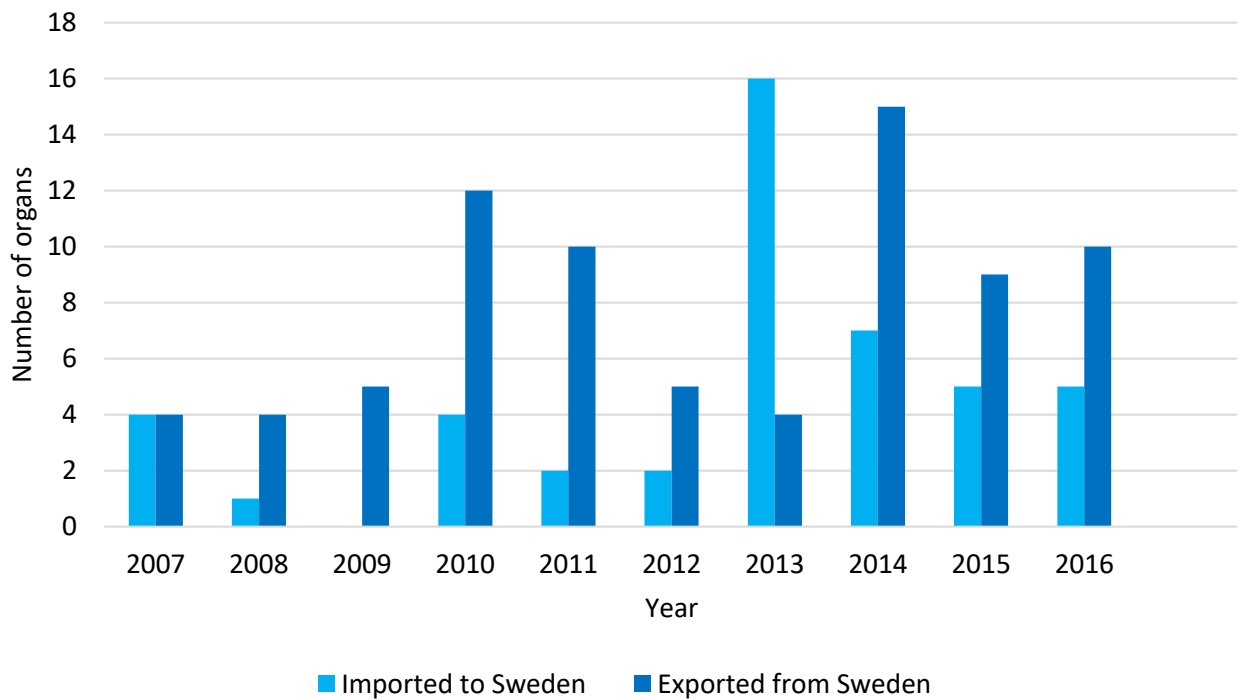
Organs exported and imported between Scandiatriansplant countries and other EOEO's



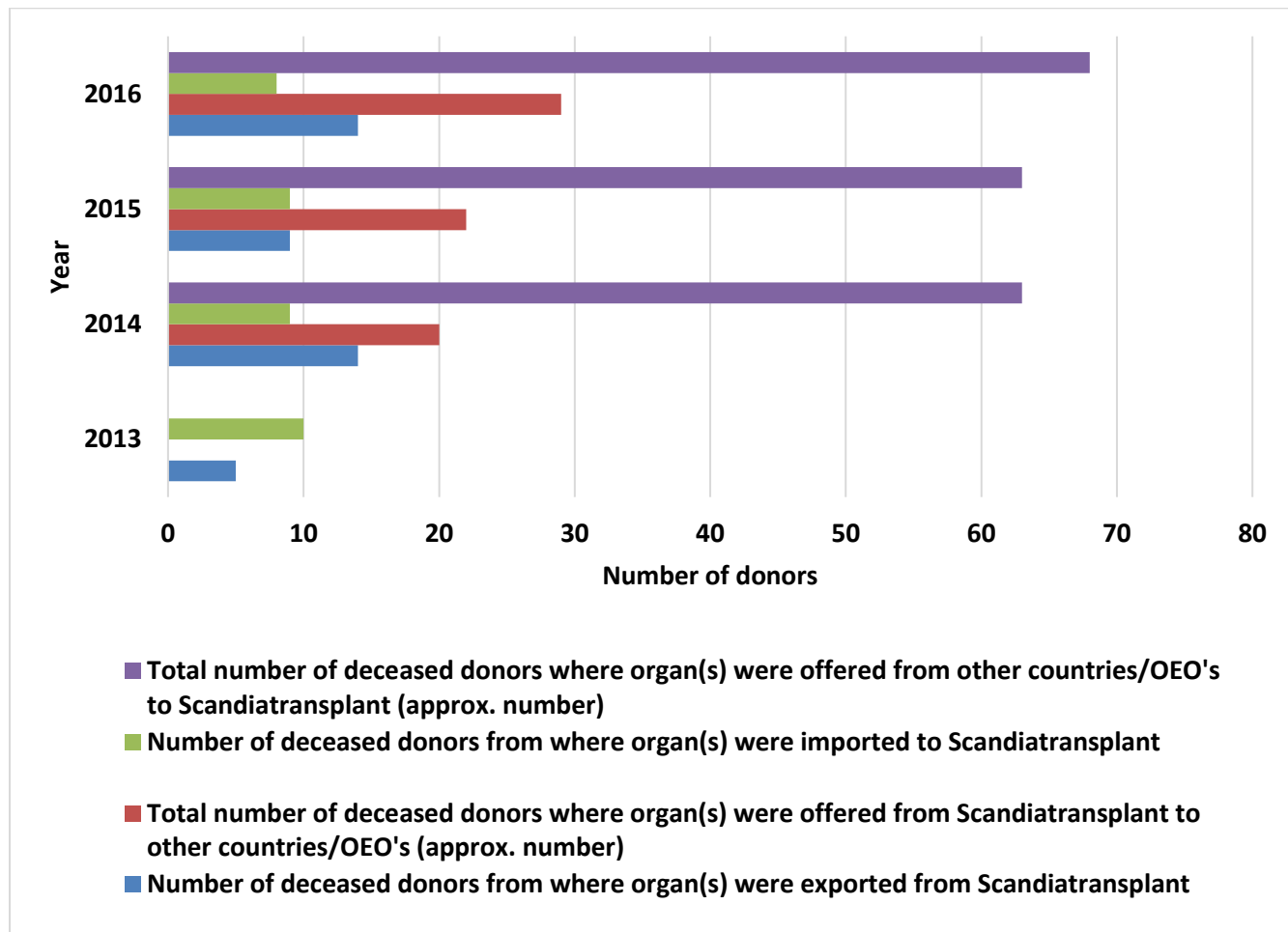
Number of organs exported and imported
between other EOEO's and Norway



Number of organs exported and imported
between other EOEO's and Sweden

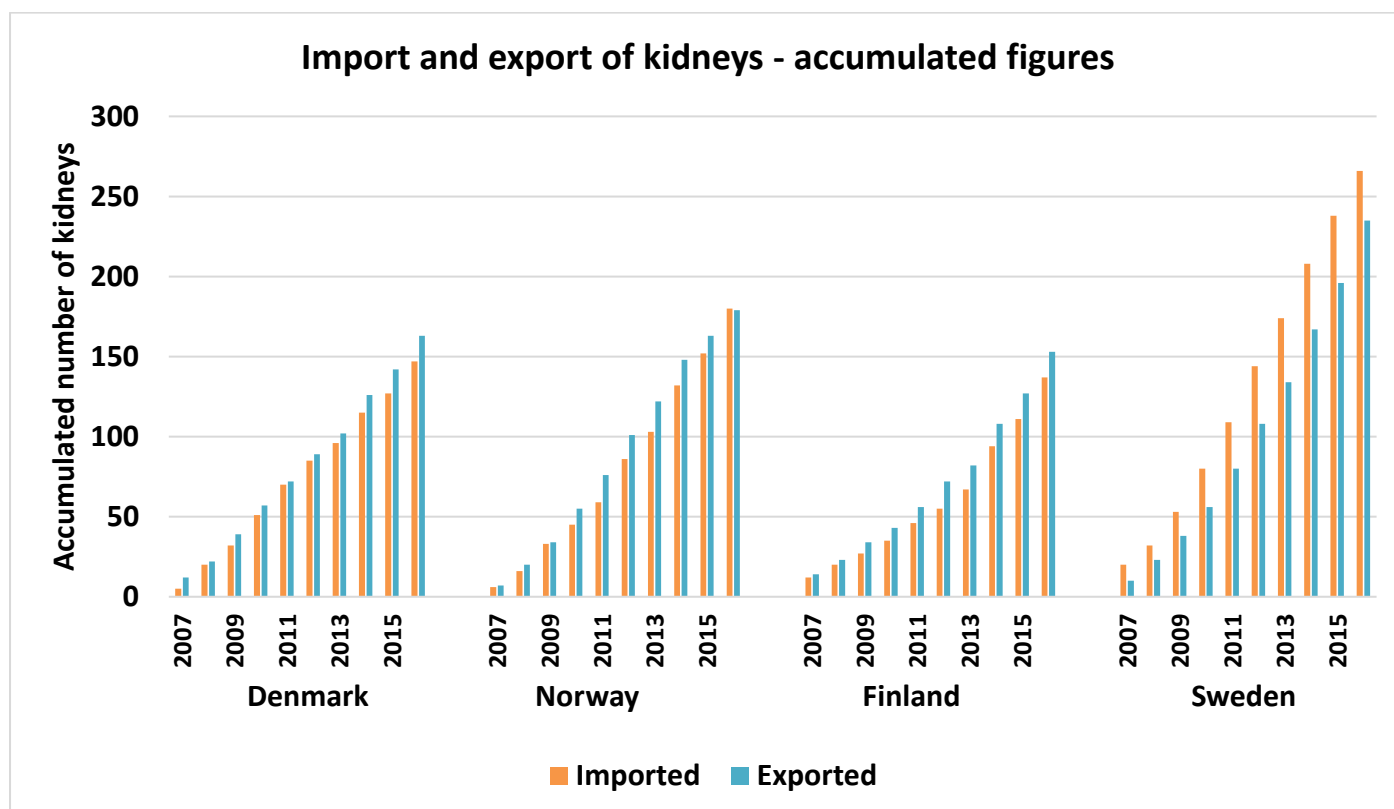
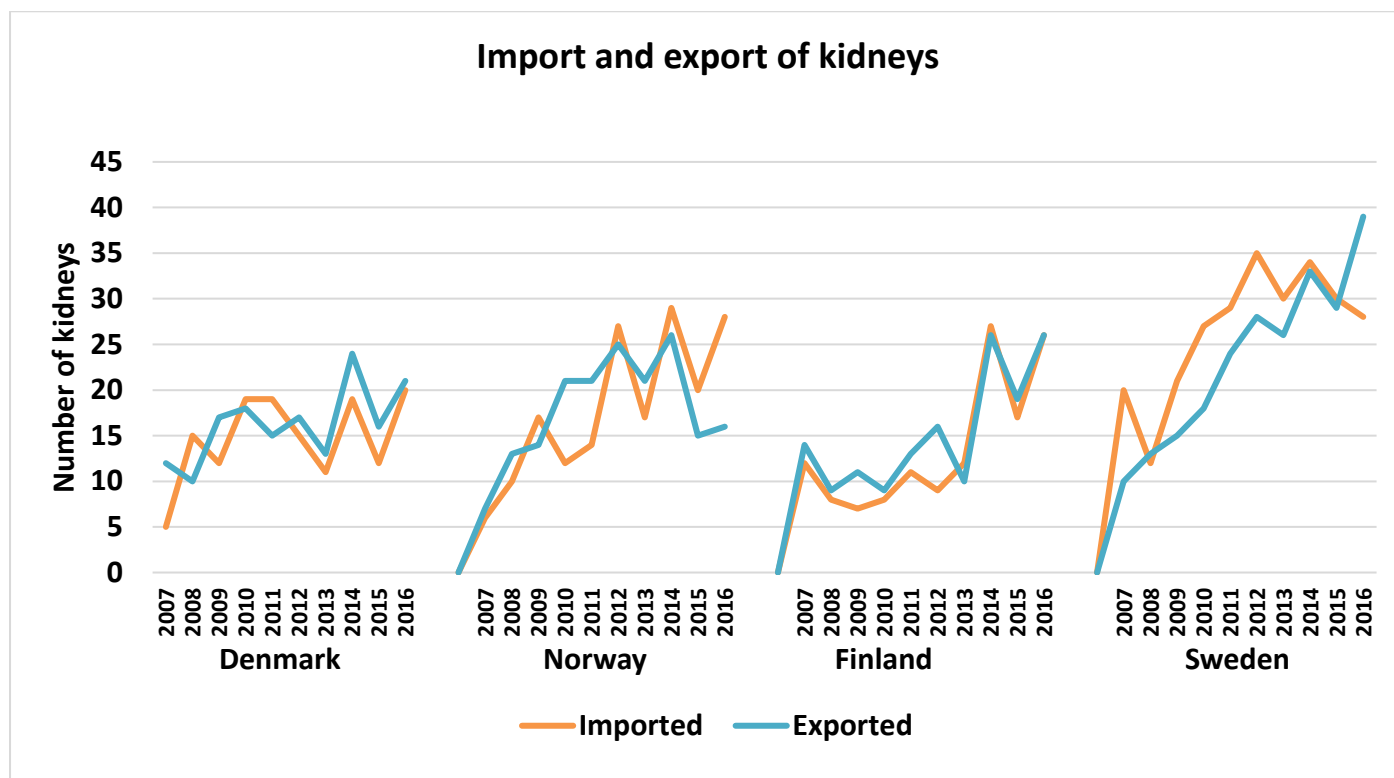


Number of deceased donors where organ(s) were offered⁷



⁷ The web based organ offer form and related communication systems for organ offers were introduced in year 2013

Kidneys exported and imported between the Scandiatriplant countries⁸



⁸ Only kidneys used for transplantation is included

Kidneys exported and imported⁹ between the Scandiatransplant countries in numbers¹⁰ (including import and export to other EOEO's)

Denmark

	Kidneys transplanted	Import	Export	Import EOEO	Export EOEO
2007	115	5	12	1	1
2008	122	15	10	0	0
2009	141	12	17	0	0
2010	130	19	18	1	0
2011	135	19	15	1	0
2012	137	15	17	0	0
2013	108	11	13	0	0
2014	139	19	24	1	0
2015	154	12	16	2	0
2016	154	20	21	0	0

Norway

	Kidneys transplanted	Import	Export	Import EOEO	Export EOEO
2007	174	6	7	0	0
2008	180	10	13	0	0
2009	188	17	14	0	0
2010	180	12	21	0	0
2011	229	14	21	0	0
2012	218	27	25	0	0
2013	202	17	21	0	0
2014	206	29	26	0	0
2015	191	20	15	0	0
2016	193	28	16	0	0

⁹ Only kidneys used for transplantation is included

¹⁰ Kidney double counted as 1

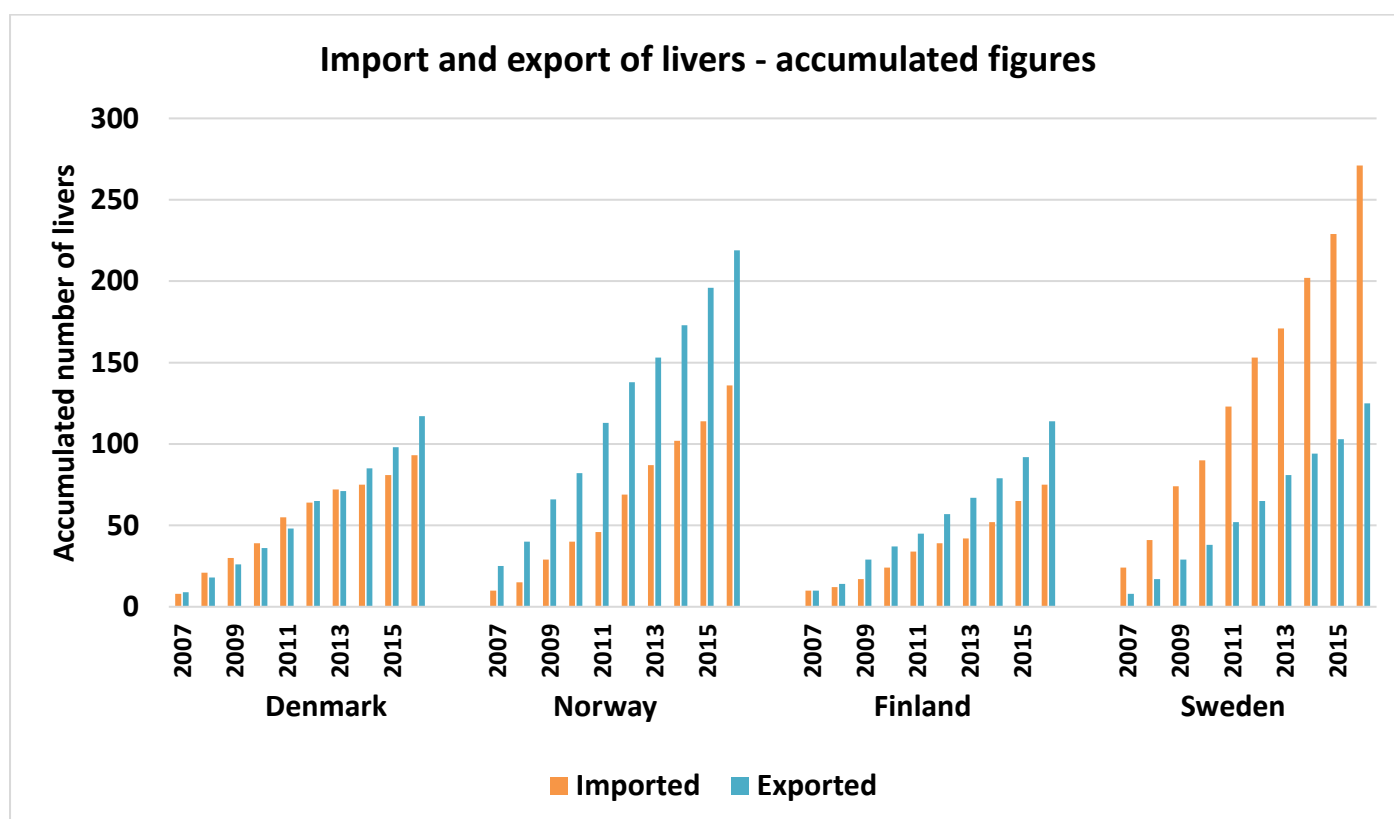
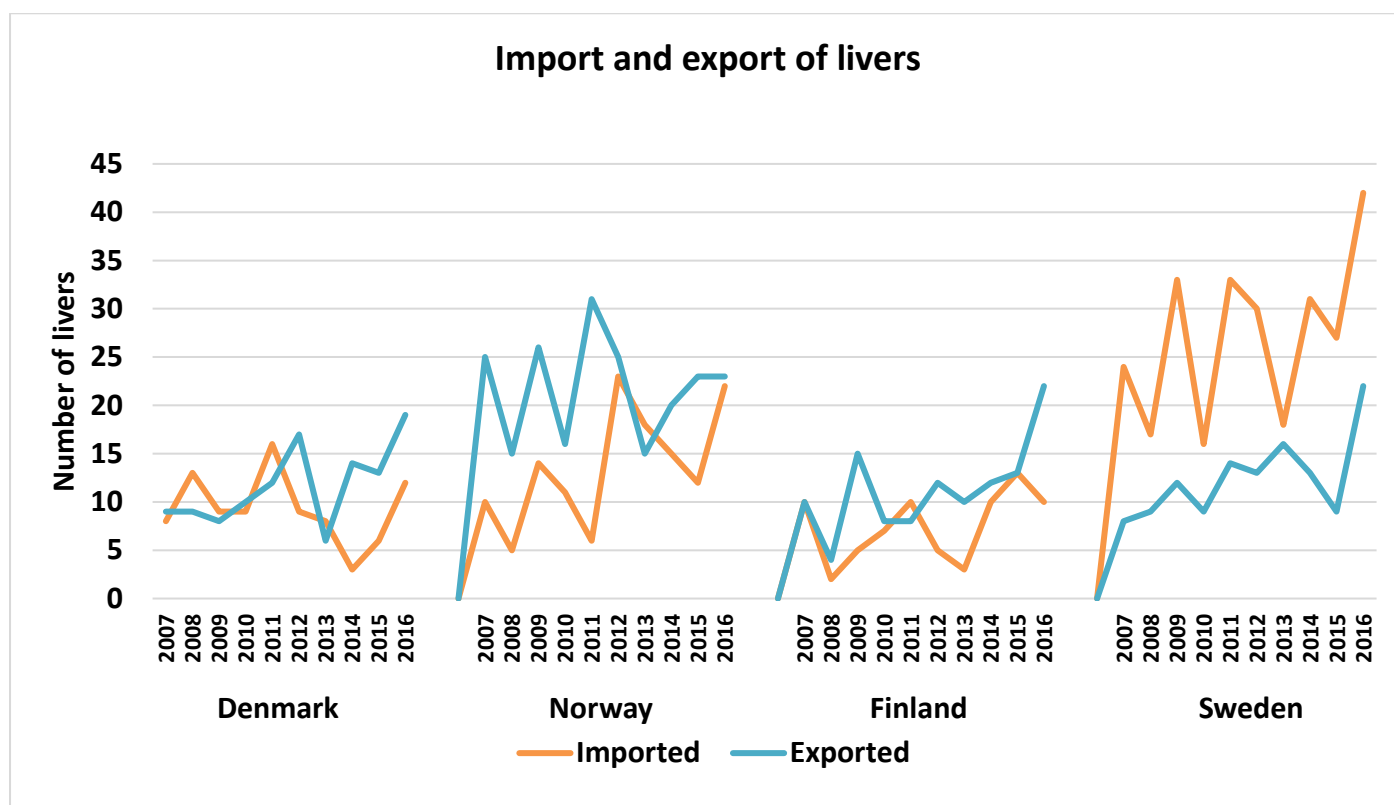
Finland

	Kidneys transplanted	Import	Export	Import EOEO	Export EOEO
2007	168	12	14	0	0
2008	141	8	9	0	0
2009	174	7	11	0	0
2010	164	8	9	0	0
2011	164	11	13	0	0
2012	188	9	16	0	0
2013	176	12	10	0	0
2014	225	27	26	0	0
2015	229	17	19	0	0
2016	240	26	26	0	0

Sweden

	Kidneys transplanted	Import	Export	Import EOEO	Export EOEO
2007	256	20	10	0	0
2008	283	12	13	0	0
2009	229	21	15	0	0
2010	202	27	18	0	3
2011	251	29	24	1	0
2012	243	35	28	0	0
2013	270	30	26	4	0
2014	289	34	33	1	0
2015	295	30	29	0	0
2016	290	28	39	0	0

Livers exported and imported between the Scandiatransplant countries¹¹



¹¹ Only livers used for transplantation is included

**Livers exported and imported¹² between the Scandiatransplant countries in numbers¹³
(including import and export to other EOEO's)**

Denmark

	Livers transplanted	Import	Export	Import EOEO	Export EOEO
2007	43	8	9	0	0
2008	44	13	9	0	0
2009	39	9	8	0	0
2010	47	9	10	0	0
2011	51	16	12	0	0
2012	48	9	17	0	0
2013	42	8	6	0	0
2014	47	3	14	1	0
2015	58	6	13	1	0
2016	59	12	19	0	0

Norway

	Livers transplanted	Import	Export	Import EOEO	Export EOEO
2007	71	10	25	0	0
2008	79	5	15	0	0
2009	82	14	26	0	1
2010	89	11	16	0	1
2011	89	6	31	0	0
2012	100	23	25	0	2
2013	110	18	15	2	1
2014	100	15	20	1	0
2015	83	12	23	2	1
2016	100	22	23	4	4

¹² Only livers used for transplantation is included

¹³ If the liver is transplanted as split liver, each split is counted as 1

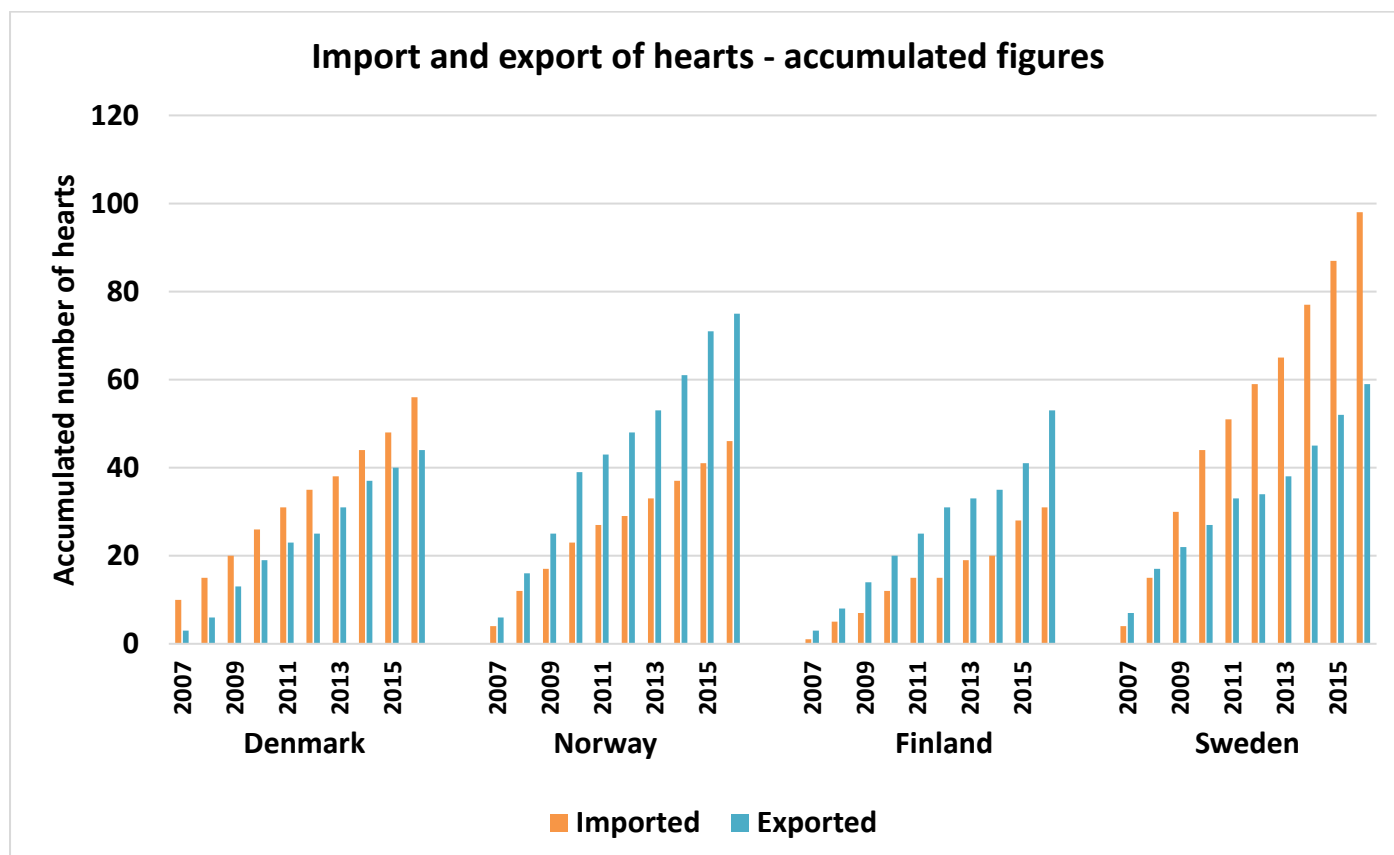
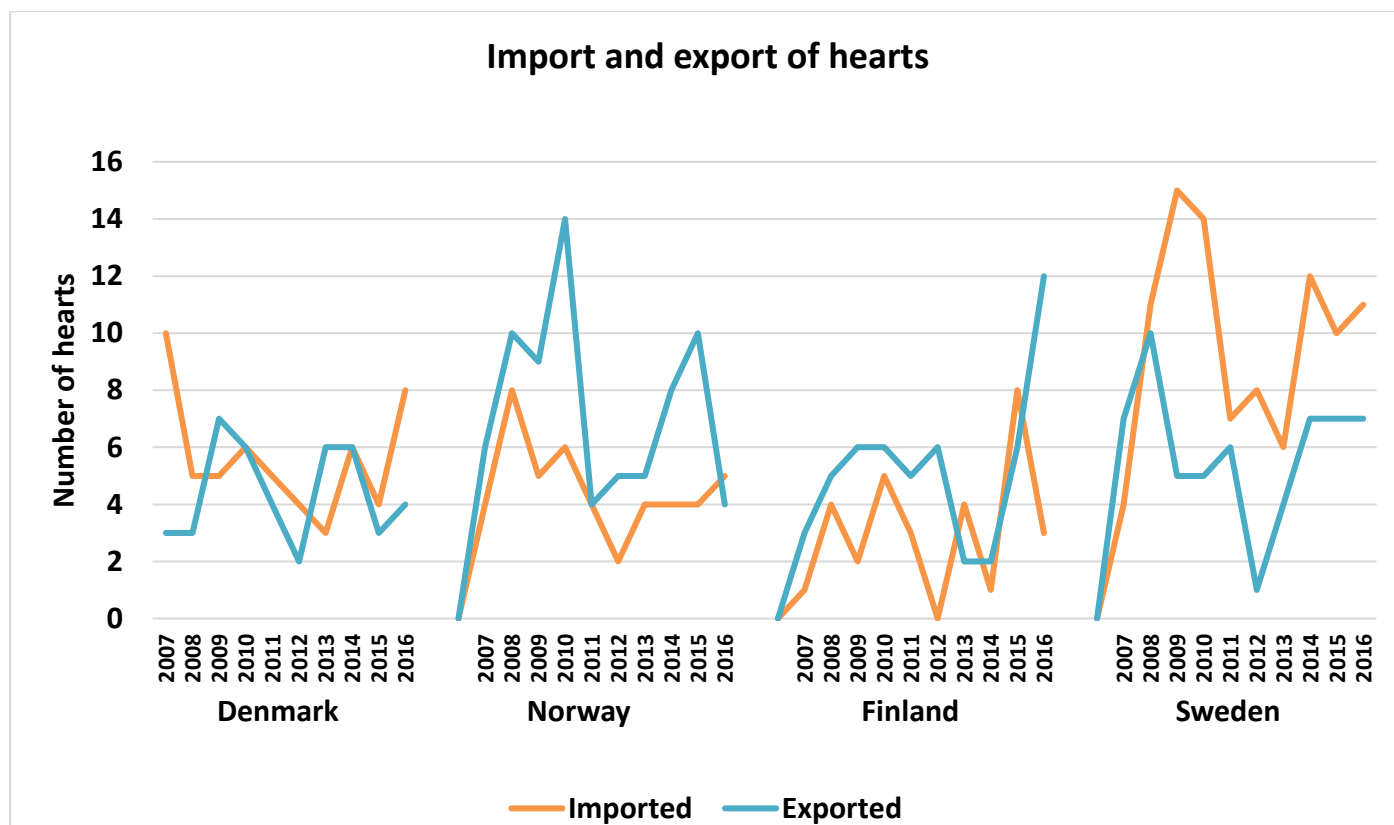
Finland

	Livers transplanted	Import	Export	Import EOEO	Export EOEO
2007	53	10	10	0	0
2008	47	2	4	0	0
2009	48	5	15	0	0
2010	50	7	8	0	0
2011	56	10	8	0	0
2012	52	5	12	0	0
2013	49	3	10	0	0
2014	59	10	12	0	0
2015	77	13	13	0	0
2016	61	10	22	0	0

Sweden

	Livers transplanted	Import	Export	Import EOEO	Export EOEO
2007	128	24	8	3	1
2008	133	17	9	0	0
2009	137	33	12	0	1
2010	122	16	9	0	2
2011	149	33	14	0	3
2012	142	30	13	0	1
2013	150	18	16	4	1
2014	171	31	13	3	3
2015	176	27	9	2	5
2016	197	42	22	2	2

Hearts exported and imported between the ScandiTransplant countries¹⁴



¹⁴ Only hearts used for transplantation is included

Hearts exported and imported¹⁵ between the Scandiatransplant countries in numbers (including import and export to other EOEO's)

Denmark

	Hearts transplanted	Import	Export	Import EOEO	Export EOEO
2007	29	10	3	0	0
2008	20	5	3	0	0
2009	27	5	7	1	0
2010	22	6	6	0	0
2011	29	5	4	0	0
2012	26	4	2	0	0
2013	17	3	6	0	0
2014	32	6	6	0	0
2015	27	4	3	2	0
2016	29	8	4	1	0

Norway

	Hearts transplanted	Import	Export	Import EOEO	Export EOEO
2007	34	4	6	0	1
2008	36	8	10	0	1
2009	27	5	9	0	0
2010	30	6	14	0	2
2011	29	4	4	0	0
2012	32	2	5	0	0
2013	37	4	5	0	0
2014	34	4	8	1	0
2015	37	4	10	0	0
2016	21	5	4	1	2

¹⁵ Only hearts used for transplantation is included

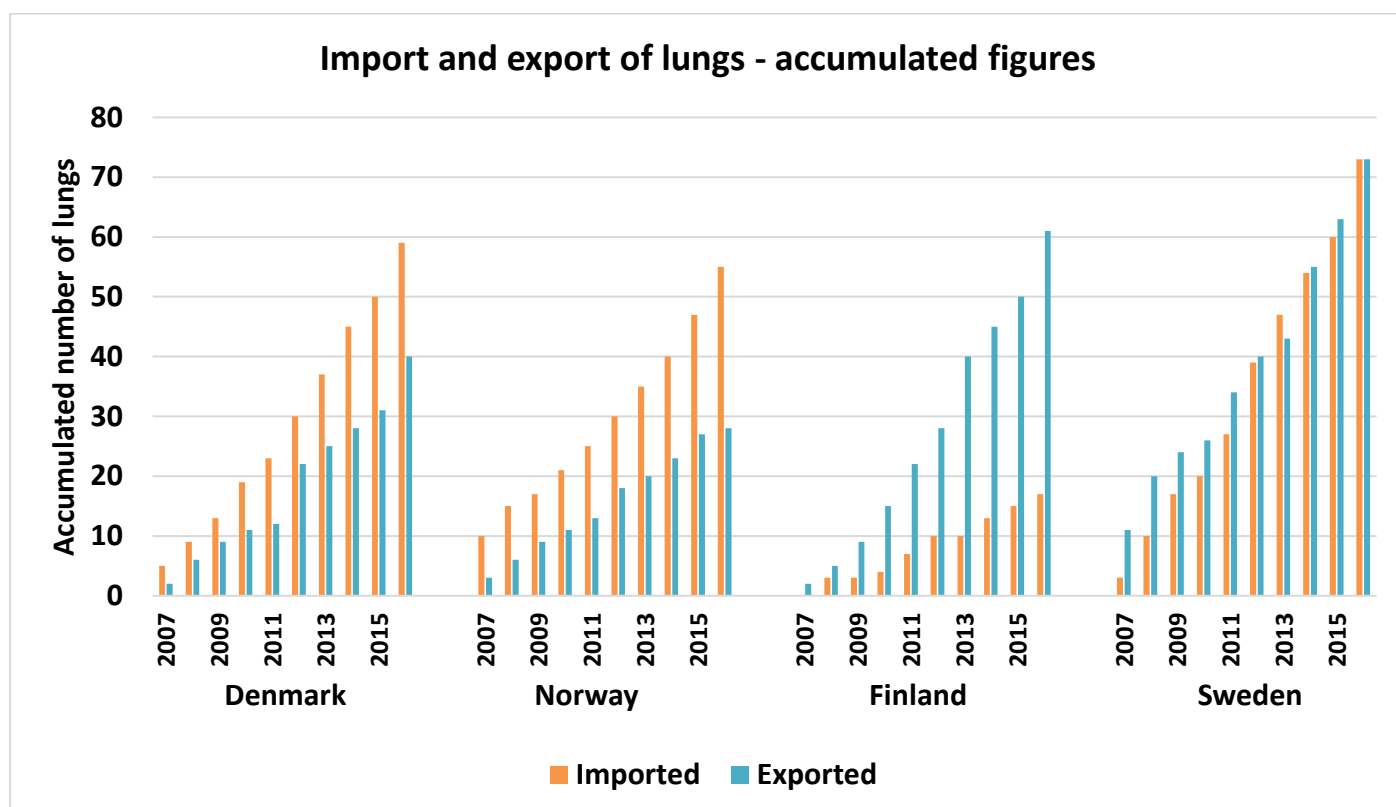
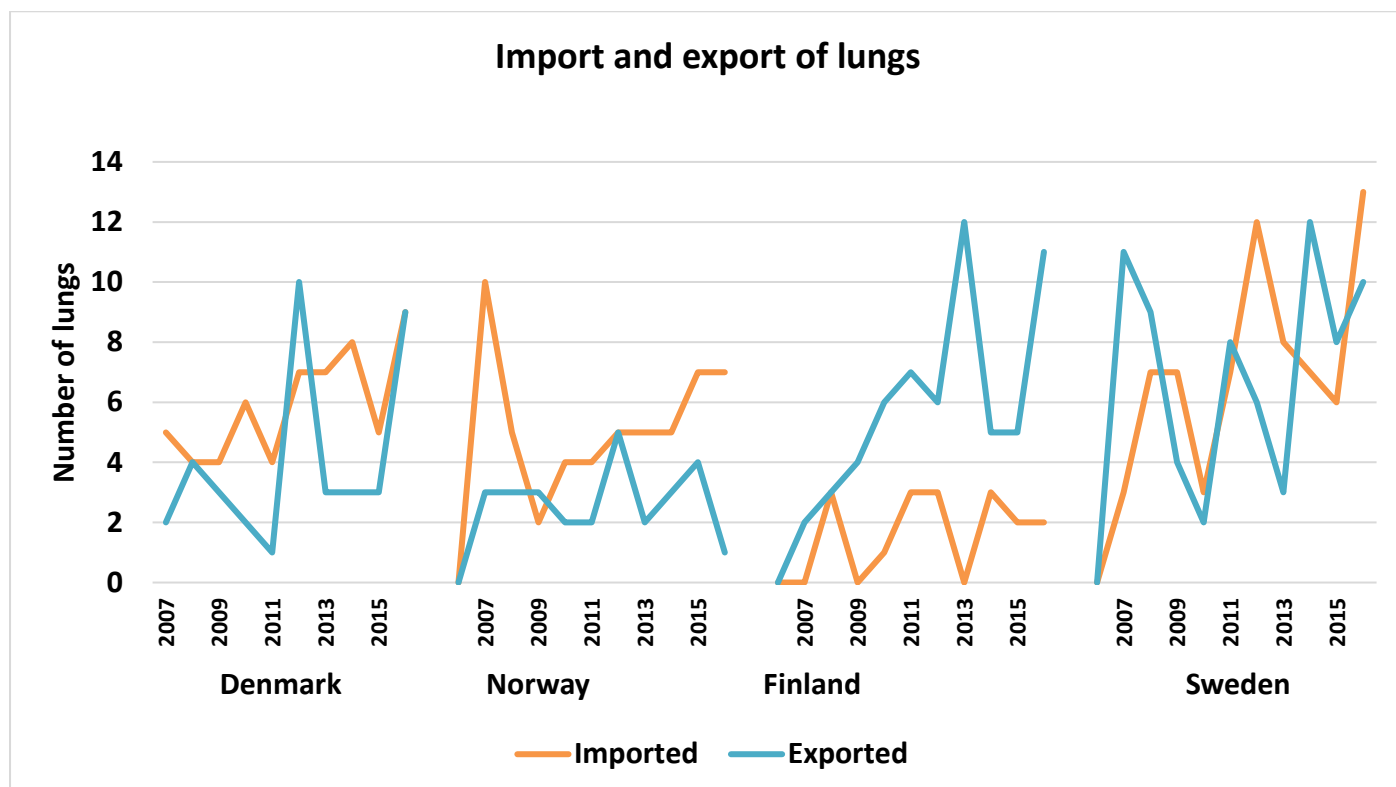
Finland

	Hearts transplanted	Import	Export	Import EOEO	Export EOEO
2007	18	1	3	0	0
2008	21	4	5	1	0
2009	13	2	6	0	0
2010	22	5	6	0	0
2011	18	3	5	0	0
2012	22	0	6	0	0
2013	21	4	2	3	0
2014	24	1	2	4	0
2015	27	8	6	0	0
2016	31	3	12	0	0

Sweden

	Hearts transplanted	Import	Export	Import EOEO	Export EOEO
2007	46	4	7	1	0
2008	44	11	10	1	1
2009	55	15	5	0	2
2010	56	14	5	2	4
2011	51	7	6	1	4
2012	46	8	1	2	1
2013	55	6	4	6	1
2014	67	12	7	1	4
2015	63	10	7	3	1
2016	64	11	7	2	4

Lungs exported and imported between the Scandiatriplant countries¹⁶



¹⁶ Only lungs used for transplantation is included

**Lungs exported and imported¹⁷ between the Scandiatransplant countries in numbers¹⁸
(including import and export to other EOEO's)**

Denmark

	Lungs transplanted	Import	Export	Import EOEO	Export EOEO
2007	33	5	2	0	0
2008	18	4	4	0	0
2009	29	4	3	0	0
2010	31	6	2	0	0
2011	30	4	1	1	1
2012	30	7	10	0	1
2013	31	7	3	0	0
2014	29	8	3	0	1
2015	35	5	3	1	0
2016	29	9	9	0	0

Norway

	Lungs transplanted	Import	Export	Import EOEO	Export EOEO
2007	29	10	3	0	0
2008	30	5	3	0	0
2009	24	2	3	0	0
2010	32	4	2	0	0
2011	28	4	2	0	0
2012	28	5	5	0	0
2013	33	5	2	1	0
2014	33	5	3	0	0
2015	34	7	4	0	0
2016	34	7	1	1	1

¹⁷ Only lungs used for transplantation is included

¹⁸ Single lung, double lung and heart-lung transplantations are all counted as 1

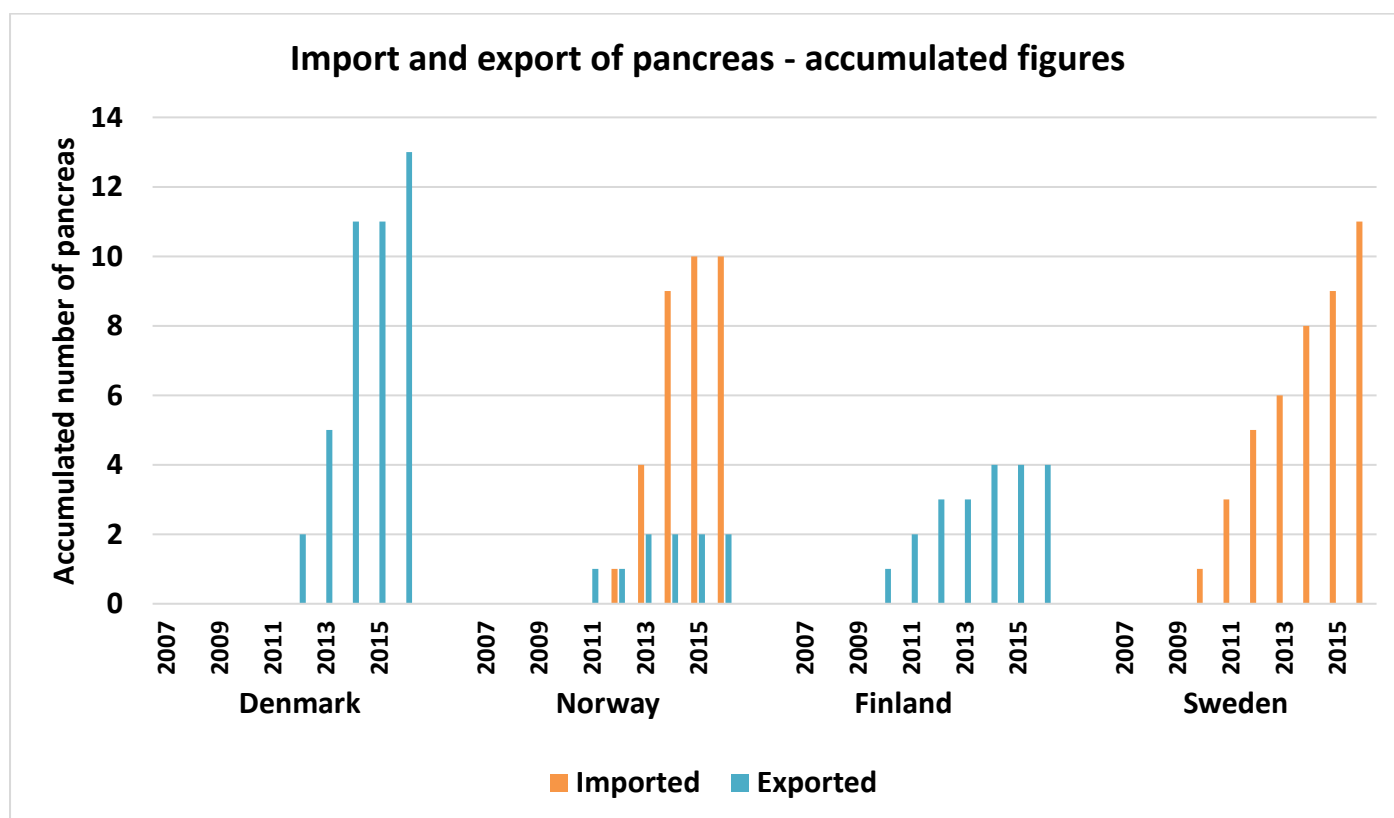
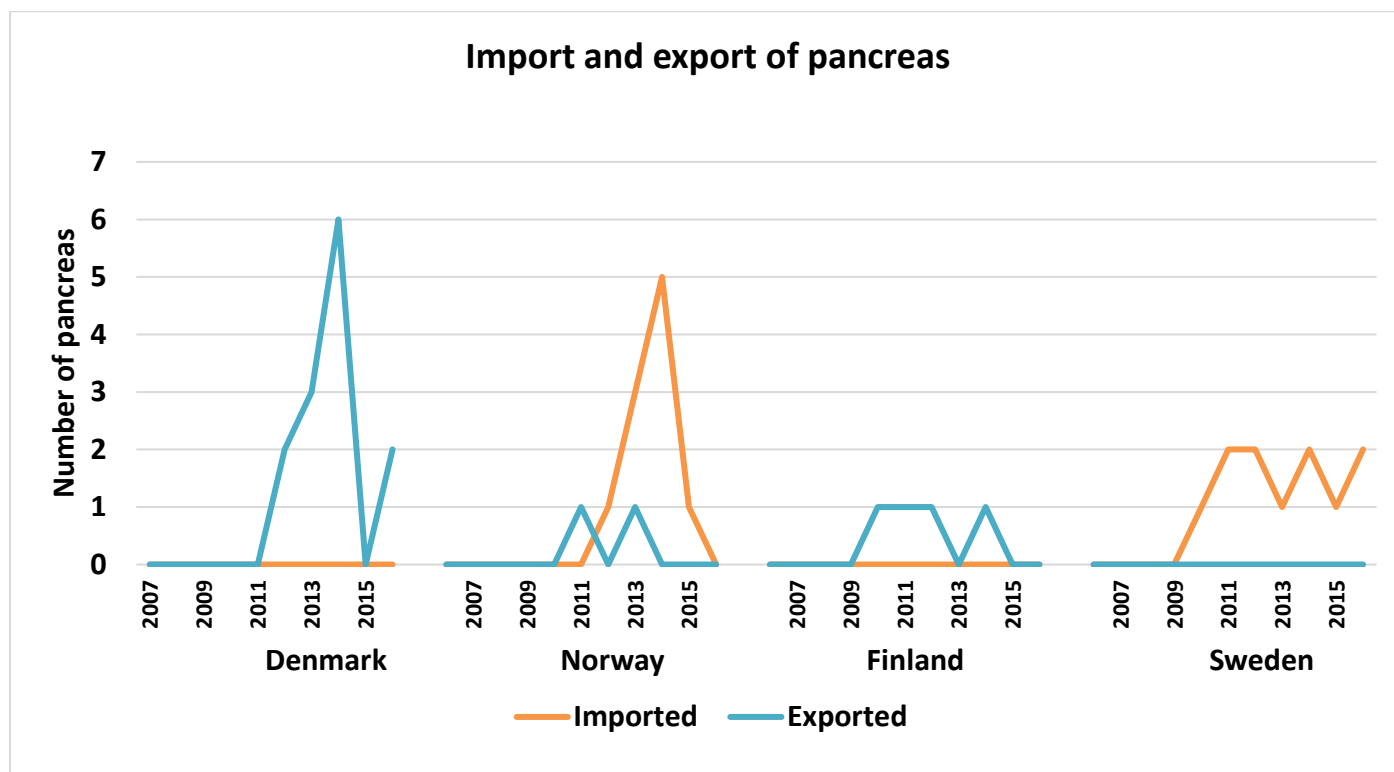
Finland

	Lungs transplanted	Import	Export	Import EOEO	Export EOEO
2007	15	0	2	0	0
2008	12	3	3	0	0
2009	14	0	4	0	0
2010	15	1	6	0	0
2011	23	3	7	0	0
2012	27	3	6	0	0
2013	15	0	12	0	0
2014	17	3	5	1	0
2015	24	2	5	0	0
2016	18	2	11	0	0

Sweden

	Lungs transplanted	Import	Export	Import EOEO	Export EOEO
2007	43	3	11	0	3
2008	52	7	9	0	3
2009	51	7	4	0	2
2010	51	3	2	2	3
2011	60	7	8	0	3
2012	60	12	6	0	3
2013	58	8	3	1	2
2014	65	7	12	1	8
2015	48	6	8	0	3
2016	62	13	10	0	4

Pancreas exported and imported between the Scandiatriplant countries^{19,20}



¹⁹ Only pancreas used for whole pancreas transplantation is included

²⁰ In the years 2012-2015 14 Danish patients were transplanted with kidney-pancreas/pancreas in Norway, which explains the increase in exports and imports of pancreas for these two countries.

Pancreas exported and imported²¹ between the Scandiatransplant countries in numbers (including import and export to other EOEO's)

Denmark

	Pancreas transplanted	Import	Export	Import EOEO	Export EOEO
2007	0	0	0	0	0
2008	0	0	0	0	0
2009	0	0	0	0	0
2010	0	0	0	0	0
2011	0	0	0	0	0
2012	0	0	2	0	0
2013	0	0	3	0	0
2014	0	0	6	0	0
2015	2	0	0	0	0
2016	7	0	2	0	0

Norway

	Pancreas transplanted	Import	Export	Import EOEO	Export EOEO
2007	14	0	0	0	0
2008	10	0	0	0	0
2009	16	0	0	0	0
2010	15	0	0	0	0
2011	20	0	1	0	0
2012	28	1	0	0	0
2013	39	3	1	2	0
2014	31	5	0	2	0
2015	31	1	0	2	0
2016	20	0	0	0	0

²¹ Only pancreas used for whole pancreas transplantation is included

Finland

	Pancreas transplanted	Import	Export	Import EOEO	Export EOEO
2007	0	0	0	0	0
2008	0	0	0	0	0
2009	0	0	0	0	0
2010	2	0	1	0	0
2011	1	0	1	0	0
2012	8	0	1	0	0
2013	10	0	0	0	0
2014	15	0	1	0	0
2015	17	0	0	0	0
2016	27	0	0	0	0

Sweden

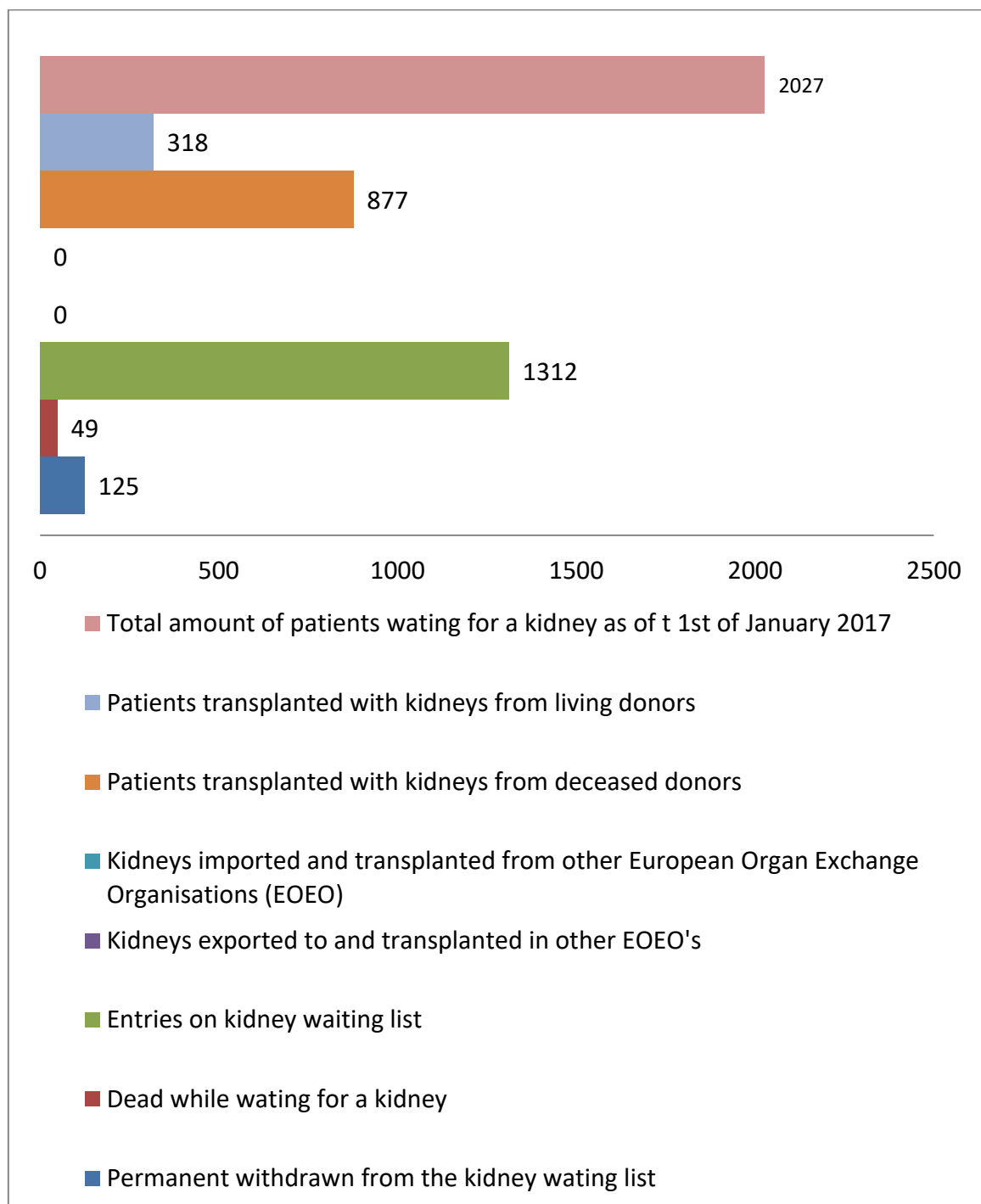
	Pancreas transplanted	Import	Export	Import EOEO	Export EOEO
2007	10	0	0	0	0
2008	10	0	0	0	0
2009	20	0	0	0	0
2010	26	1	0	0	0
2011	35	2	0	0	0
2012	28	2	0	0	0
2013	38	1	0	1	0
2014	38	2	0	1	0
2015	30	1	0	0	0
2016	24	2	0	1	0

Intestine exported and imported²² between the Scandiatransplant countries and other EOEO's

	Import/export	Import/export EOEO
2007	0	0
2008	2 from Norway to Sweden	0
2009	0	0
2010	0	0
2011	0	0
2012	0	0
2013	0	0
2014	0	1 from EOEO to Sweden
2015	0	0
2016	1 from Denmark to Sweden	0

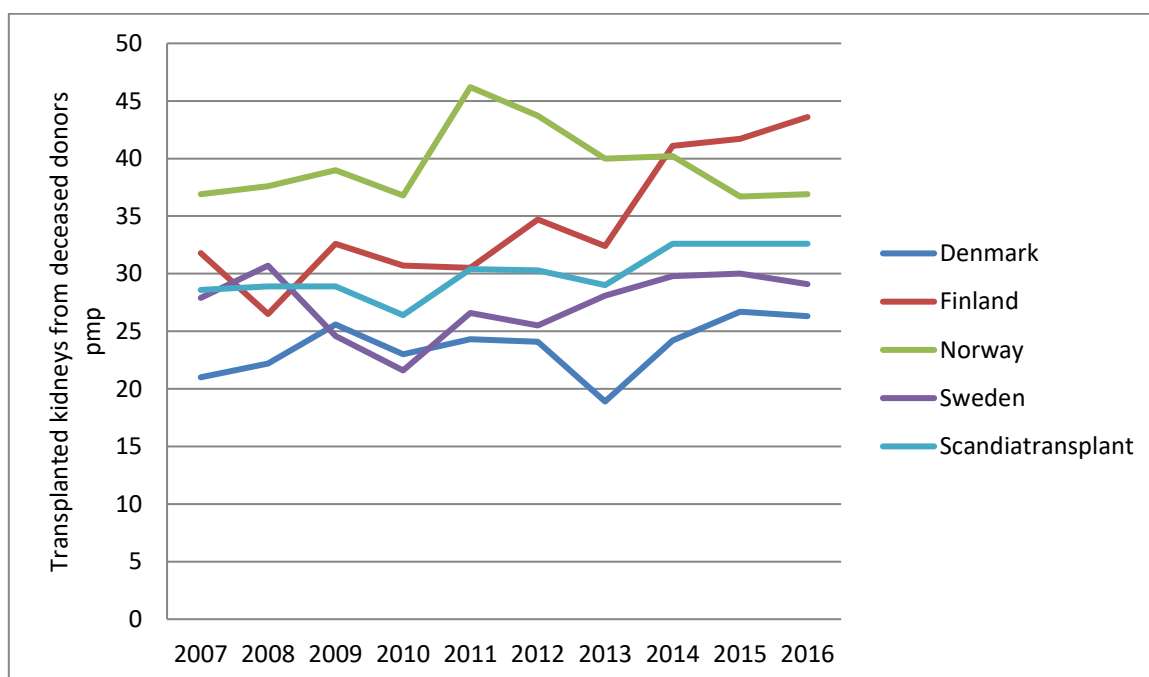
²² Only intestine used for transplantation is included

Kidneys 2016



Transplanted kidneys pmp²³ from deceased donors per year

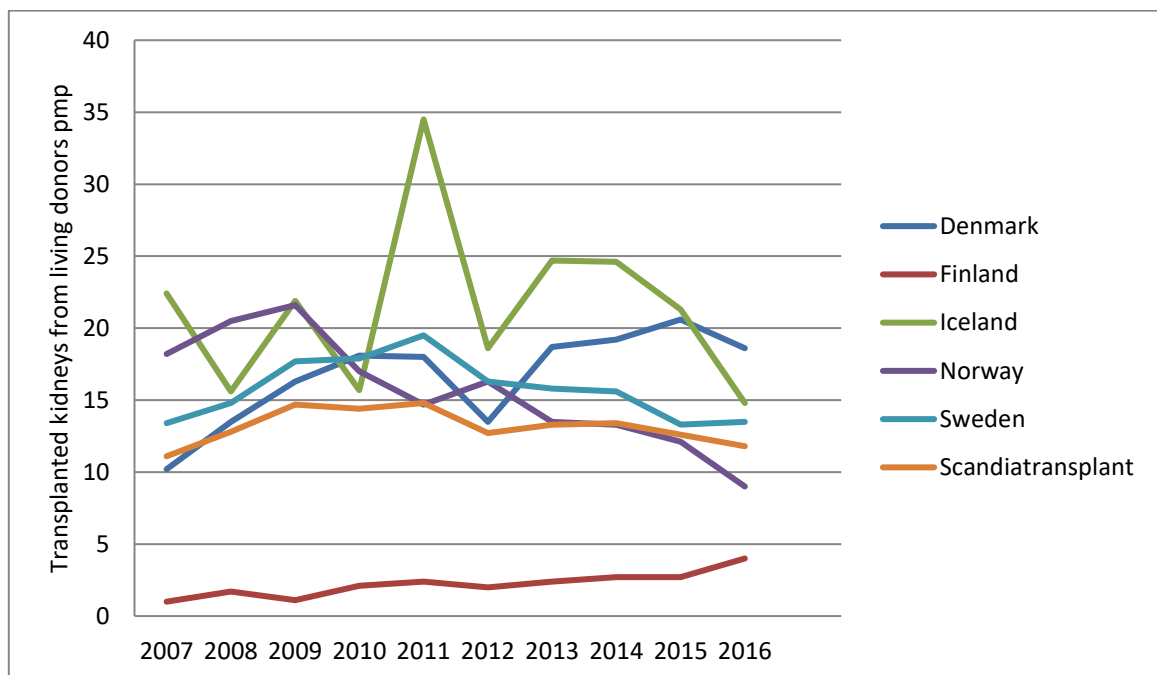
Year	Denmark	Finland	Norway	Sweden	Scandiatransplant
2007	21,0	31,8	36,9	27,9	28,6
2008	22,2	26,5	37,6	30,7	28,9
2009	25,6	32,6	39,0	24,6	28,9
2010	23,0	30,7	36,8	21,6	26,4
2011	24,3	30,5	46,2	26,6	30,4
2012	24,1	34,7	43,7	25,5	30,3
2013	18,9	32,4	40,0	28,1	29
2014	24,2	41,1	40,2	29,8	32,6
2015	26,7	41,7	36,7	30,0	32,6
2016	26,3	43,6	36,9	29,1	32,6



²³ pmp: per million population

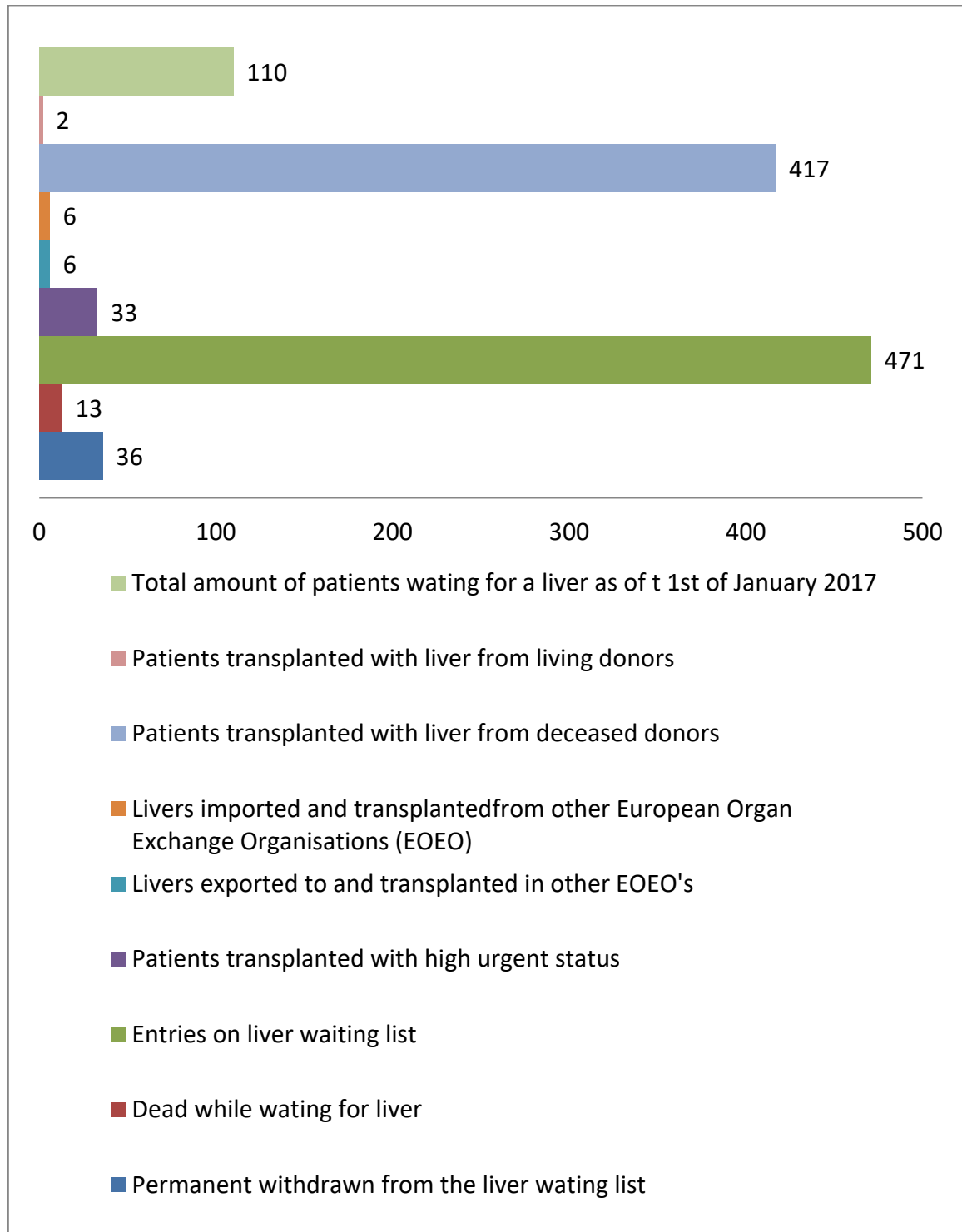
Transplanted kidneys pmp²⁴ from living donors per year

Year	Denmark	Finland	Iceland	Norway	Sweden	Scandiatransplant
2007	10,2	1,0	22,4	18,2	13,4	11,1
2008	13,5	1,7	15,6	20,5	14,8	12,8
2009	16,3	1,1	21,9	21,6	17,7	14,7
2010	18,1	2,1	15,7	17,0	17,9	14,4
2011	18,0	2,4	34,5	14,7	19,5	14,8
2012	13,5	2,0	18,6	16,3	16,3	12,7
2013	18,7	2,4	24,7	13,3	15,8	13,3
2014	19,2	2,7	24,6	13,3	15,6	13,4
2015	20,6	2,7	21,3	12,1	13,3	12,6
2016	18,6	4,0	14,8	9,0	13,5	11,8



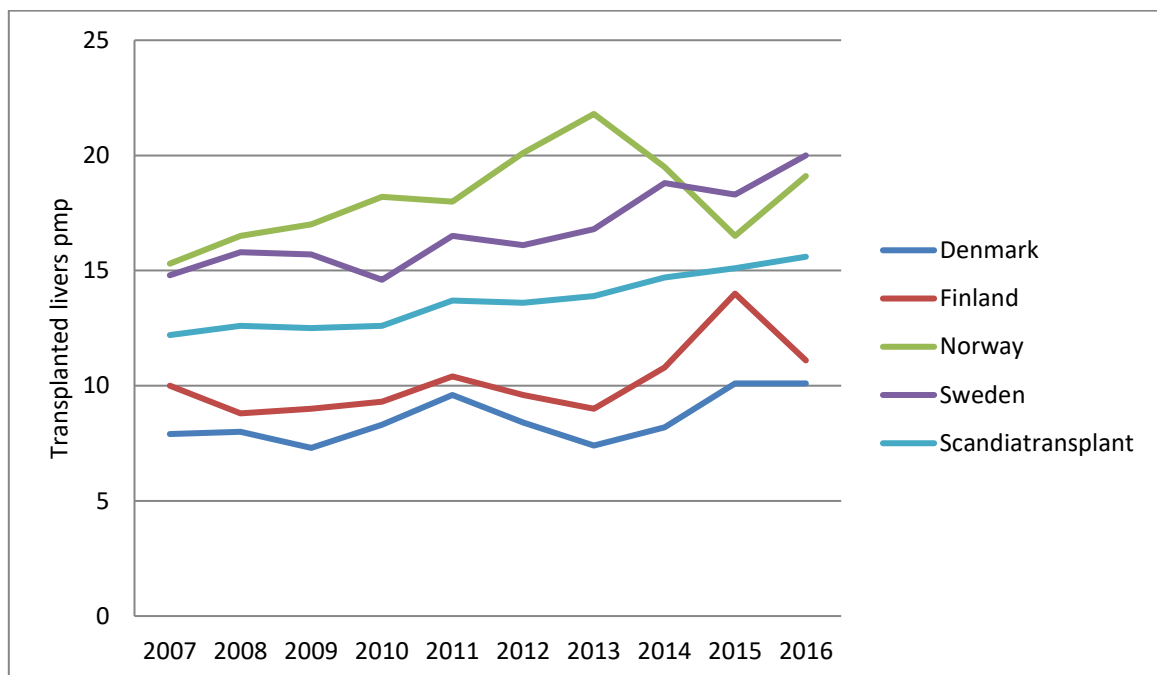
²⁴ pmp: per million population

Livers 2016



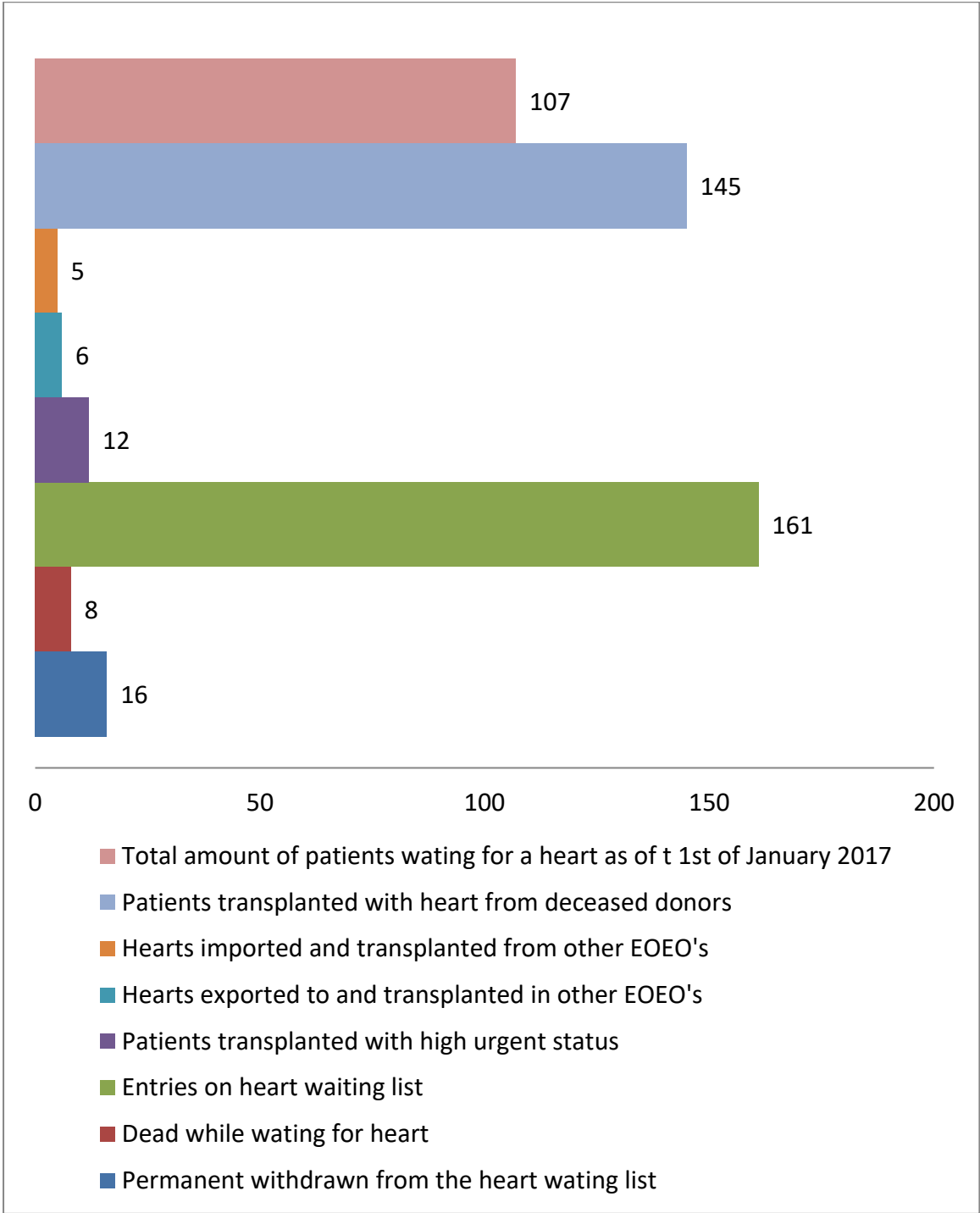
Transplanted livers (Deceased and living donors) pmp²⁵ per year

Year	Denmark	Finland	Norway	Sweden	Scandiatransplant
2007	7,9	10,0	15,3	14,8	12,2
2008	8,0	8,8	16,5	15,8	12,6
2009	7,3	9,0	17,0	15,7	12,5
2010	8,3	9,3	18,2	14,6	12,6
2011	9,6	10,4	18,0	16,5	13,7
2012	8,4	9,6	20,1	16,1	13,6
2013	7,4	9,0	21,8	16,8	13,9
2014	8,2	10,8	19,5	18,8	14,7
2015	10,1	14,0	16,5	18,3	15,1
2016	10,1	11,1	19,1	20,0	15,6



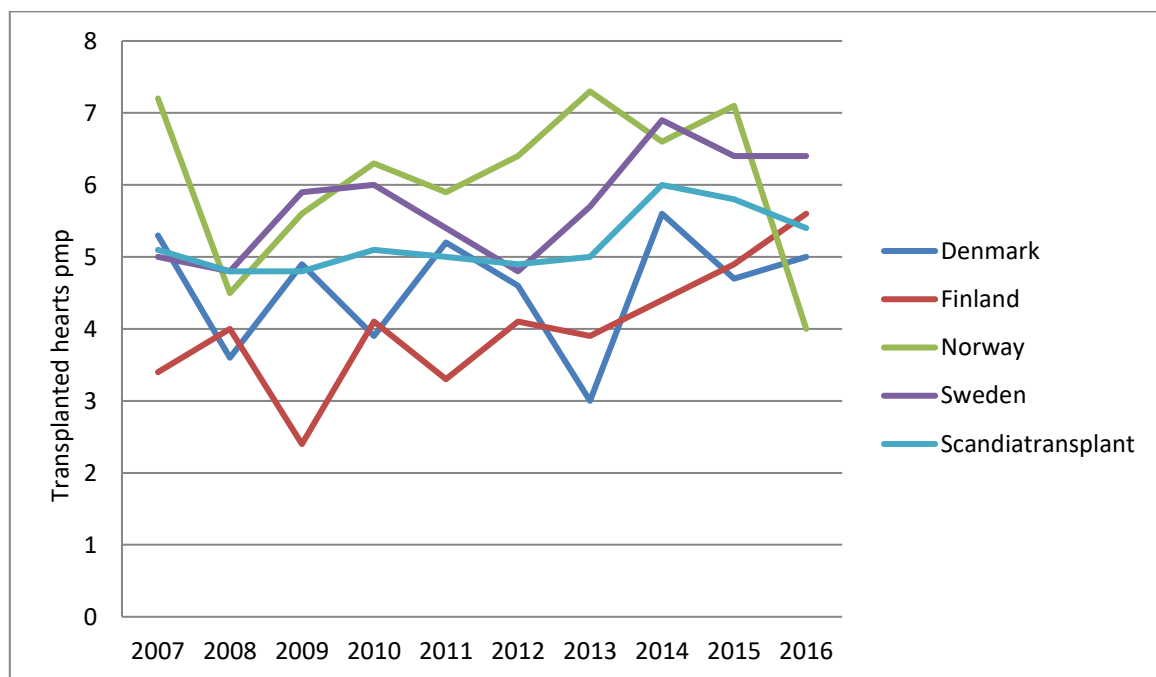
²⁵ pmp: per million population

Hearts 2016



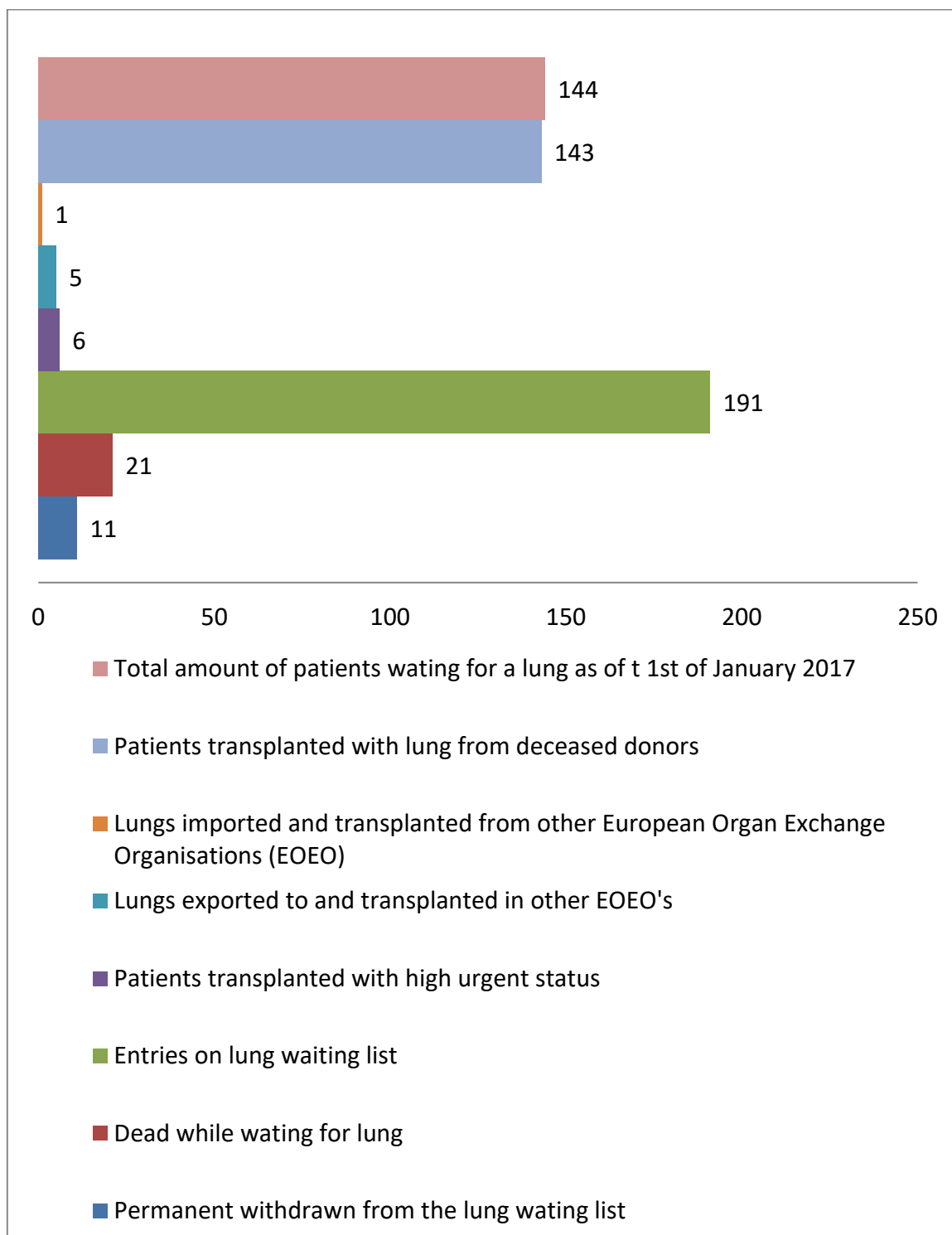
Transplanted hearts pmp²⁶ per year

Year	Denmark	Finland	Norway	Sweden	Scandiatransplant
2007	5,3	3,4	7,2	5,0	5,1
2008	3,6	4,0	4,5	4,8	4,8
2009	4,9	2,4	5,6	5,9	4,8
2010	3,9	4,1	6,3	6,0	5,1
2011	5,2	3,3	5,9	5,4	5,0
2012	4,6	4,1	6,4	4,8	4,9
2013	3,0	3,9	7,3	5,7	5,0
2014	5,6	4,4	6,6	6,9	6,0
2015	4,7	4,9	7,1	6,4	5,8
2016	5,0	5,6	4,0	6,4	5,4



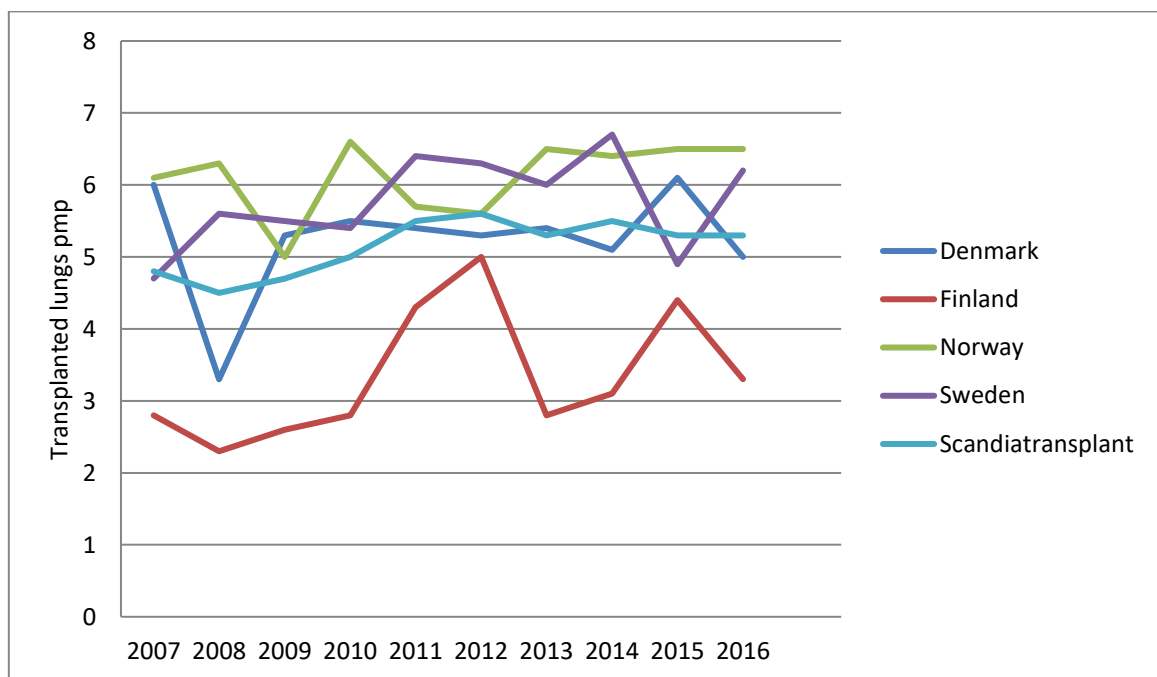
²⁶ pmp: per million population

Lungs 2016



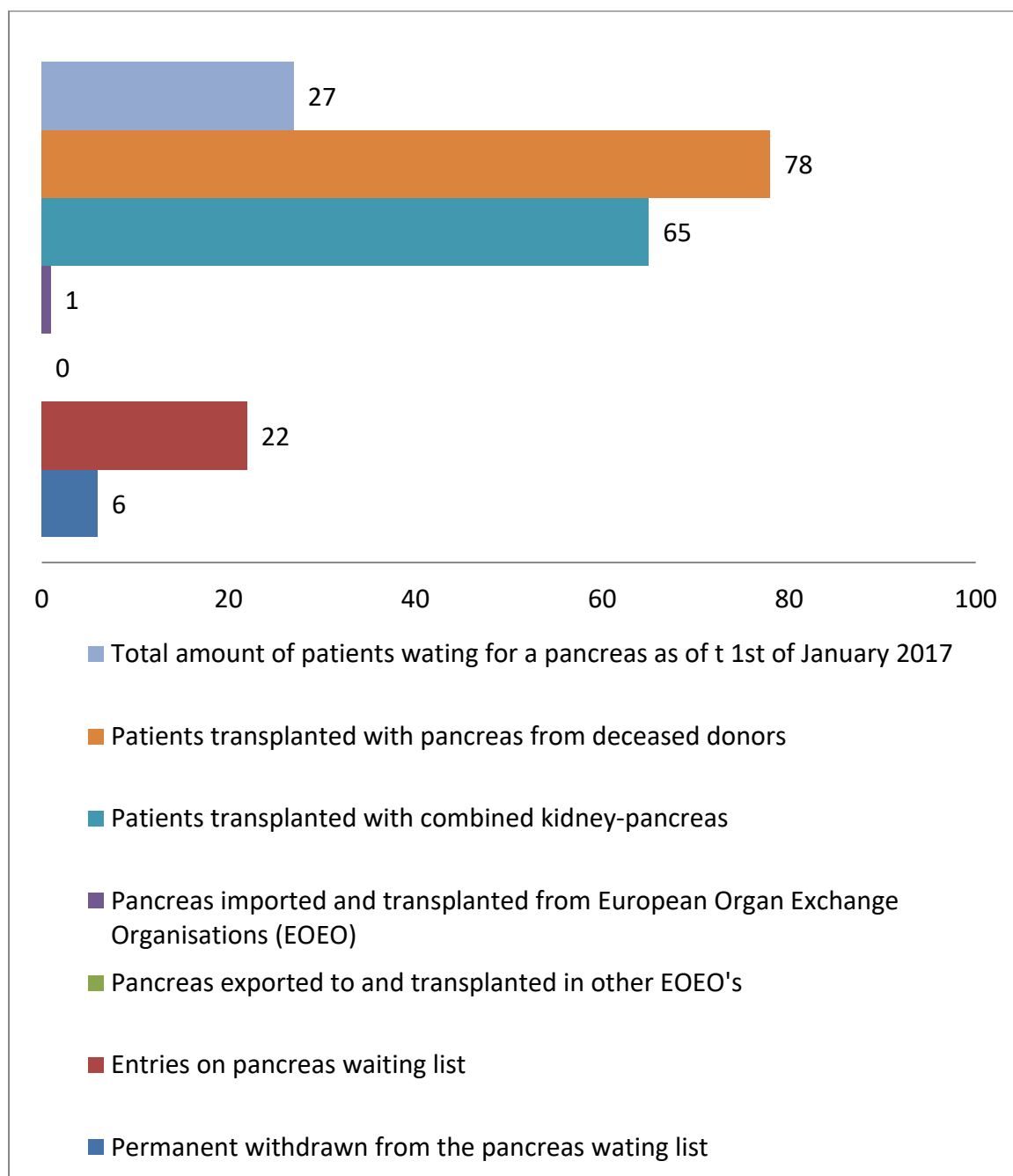
Transplanted lungs (Double, single and heart-lung) pmp²⁷ per year

Year	Denmark	Finland	Norway	Sweden	Scandiatransplant
2007	6,0	2,8	6,1	4,7	4,8
2008	3,3	2,3	6,3	5,6	4,5
2009	5,3	2,6	5,0	5,5	4,7
2010	5,5	2,8	6,6	5,4	5,0
2011	5,4	4,3	5,7	6,4	5,5
2012	5,3	5,0	5,6	6,3	5,6
2013	5,4	2,8	6,5	6,0	5,3
2014	5,1	3,1	6,4	6,7	5,5
2015	6,1	4,4	6,5	4,9	5,3
2016	5,0	3,3	6,5	6,2	5,3



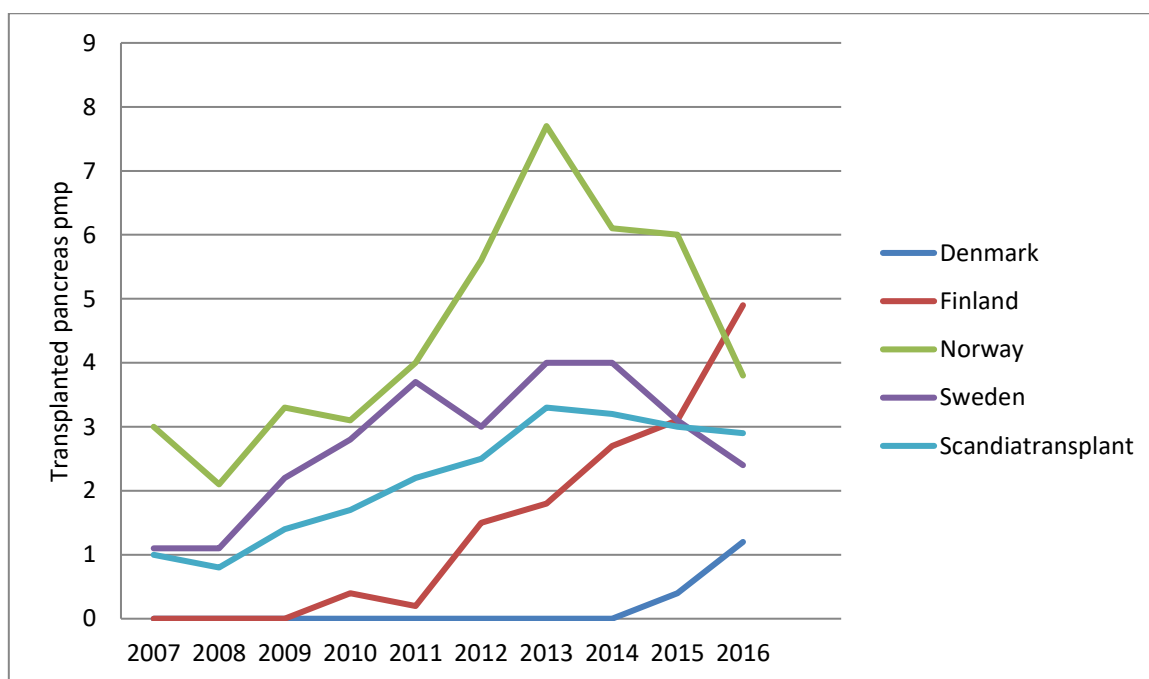
²⁷ pmp: per million population

Pancreas 2016



Transplanted pancreas pmp²⁸ per year

Year	Denmark	Finland	Norway	Sweden	Scandiatransplant
2007	0	0	3,0	1,1	1,0
2008	0	0	2,1	1,1	0,8
2009	0	0	3,3	2,2	1,4
2010	0	0,4	3,1	2,8	1,7
2011	0	0,2	4,0	3,7	2,2
2012	0	1,5	5,6	3,0	2,5
2013	0	1,8	7,7	4,0	3,3
2014	0	2,7	6,1	4,0	3,2
2015	0,4	3,1	6,0	3,1	3,0
2016	1,2	4,9	3,8	2,4	2,9



²⁸ pmp: per million population

On behalf of Scandiatransplant

Bo-Göran Ericzon
(Chairman)

Kaj Anker Jørgensen
(Medical Director)

Ilse D. Weinreich
(Clinical Data Manager)