

Annual report 2024



Scandiatransplant office

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Introduction

The transplantation activity in Scandiatransplant in 2024 continued to be high. The number of utilized deceased donors has only been higher in 2023 when the activity set a new record. The number of patients waiting for an organ transplant continued to decrease.

Organisation

Scandiatransplant is the Organ Exchange Organisation (OEO) of the countries: Denmark, Finland, Iceland, Norway, Sweden, and Estonia. It is an association, and the members are the 11 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 organization and allocation resource for its member hospitals including kidney, liver, heart, lung, pancreas, pancreatic islet, liver cells, composite graft, 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 member hospitals elect representatives to the Council, which is the association's supreme authority. During 2024 the Council had 38 Representatives. The Council of Representatives approves the members of the board, which represent all the countries, and is responsible for the day-to-day operations of the association. This year the Council meeting was held in Aarhus in connection with the STS Congress. The Board members have been Johan Nilsson (Sweden), Jóhann Jónsson (Iceland), Michael Perch (Denmark), Are Martin Holm (Norway), Marko Lempinen (Finland), Virge Pall (Estonia) and Allan Rasmussen was the chairman. Kaj Anker Jørgensen (Medical Director) participated in all Board meetings as observer.

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 member hospitals. It is accessible 24/7 for all health personnel performing organ retrieval and transplantation ensuring correct allocation of organs. The IT-system also has follow-up registries for recipients and living donors. 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 the council, the board, groups and committees, comply with demands from owners, researchers, authorities and the public, and participate in meetings with local health competent authorities and the EU-commission.

At the end of 2024, the staff consisted of eight people. Working full time are one Office and Clinical Data Manager, one Clinical Data Manager and four programmers. The Medical Director and the secretary are working part-time. The total expenses during the year (5.65 mill. DKK ~ 757.000 EUR) were within the

budget. The maintenance costs of Scandiatransplant are fully financed by the member hospitals in relation to the number of organ transplantations performed at each hospital.

Activities in the organisation in 2024

Some member hospitals experienced continued high donation and transplantation numbers, while others had a small decrease compared to the record year of 2023. The specialist groups and the Board have had normal activity. The investigations of Riga membership are ongoing and representatives from Riga are participating in group meetings. The Board has made revisions on guidelines and rules.

To enhance security and functionality, the Scandiatransplant website was migrated to a new platform just before the New Year.

Transplantation and organ procurement activity

In this report we have as usual chosen to present some key figures and compare some of them with data from 2015 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. Then we looked at the utilized deceased donors and the transplanted patients. The increasing number of DCD donors have led us to look deeper into DCD versus DBD. We present also data on STEP, waiting time, and 3-year outcome.

The competent authorities of the 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.

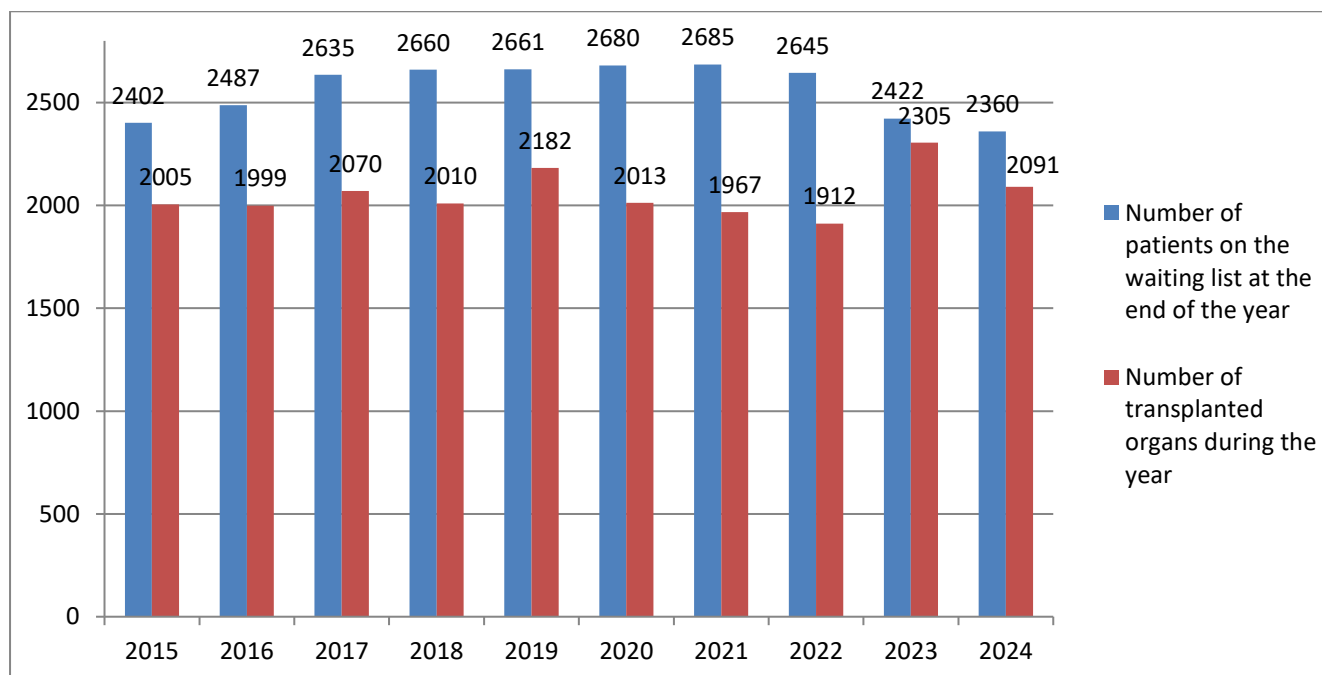
Further presentation of Scandiatransplant data is available in the annual slideshow:

https://www.scandiatransplant.org/resources/diasshow/sctp_slideshow_2024.pptx

In relation to 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

Year	Number of waiting patients ¹	Number of transplanted organs ²
2015	2402	2005
2016	2487	1999
2017	2635	2070
2018	2660	2010
2019	2661	2182
2020	2680	2013
2021	2685	1967
2022	2645	1912
2023	2422	2305
2024	2360	2091

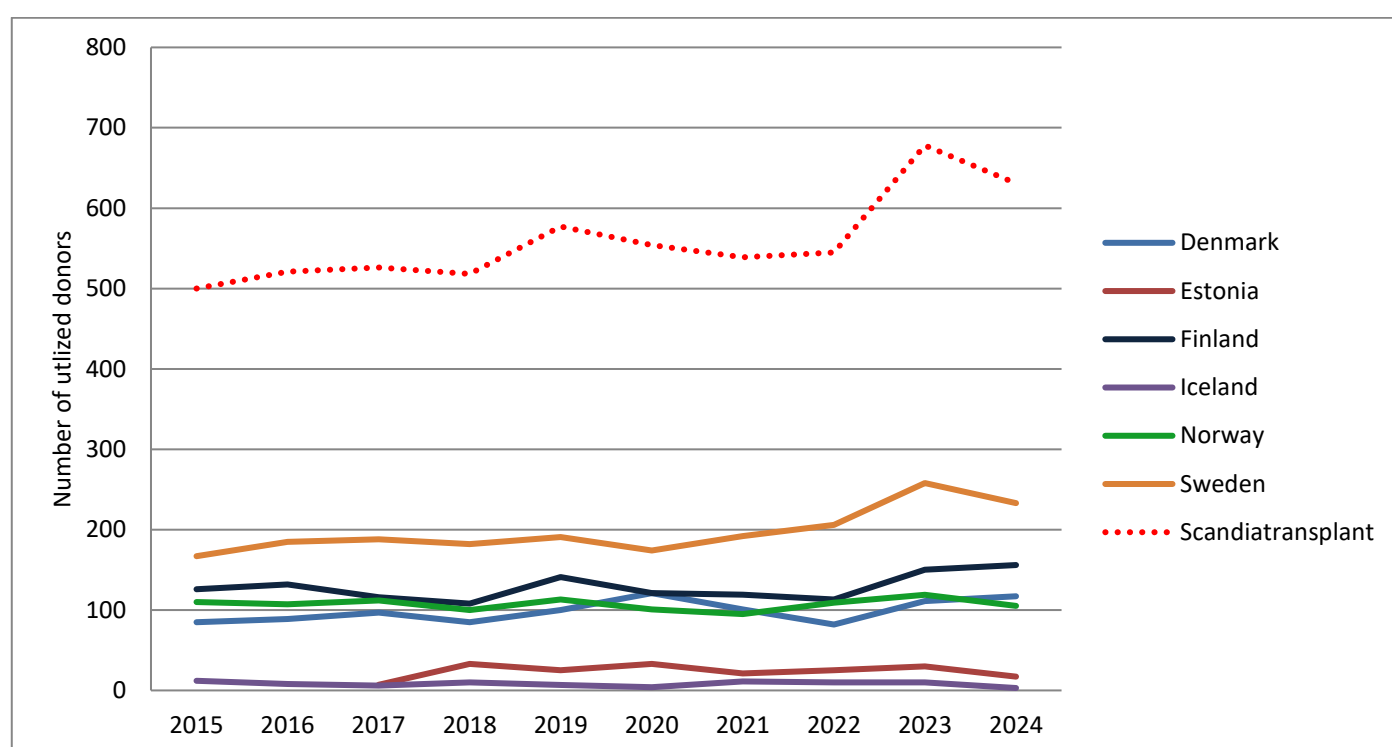


¹ Including patients (active/temp. on hold) waiting for kidney, liver, liver-kidney, heart, heart-lung, single lung, double lung, kidney-pancreas, pancreas and pancreatic islets

² Including kidney, liver, heart, lung, pancreas and pancreatic islet

Utilized deceased donors³ in numbers

Year	Denmark	Estonia ⁴	Finland	Iceland	Norway	Sweden	Scandiatransplant
2015	85		126	12	110	167	500
2016	89		132	8	107	185	521
2017	97	7	116	6	112	188	526
2018	85	33	108	10	100	182	518
2019	100	25	141	7	113	191	577
2020	121	33	121	4	101	174	554
2021	101	21	119	11	95	192	539
2022	82	25	113	10	109	206	545
2023	111	30	150	10	119	258	678
2024	117	17	156	3	105	233	631

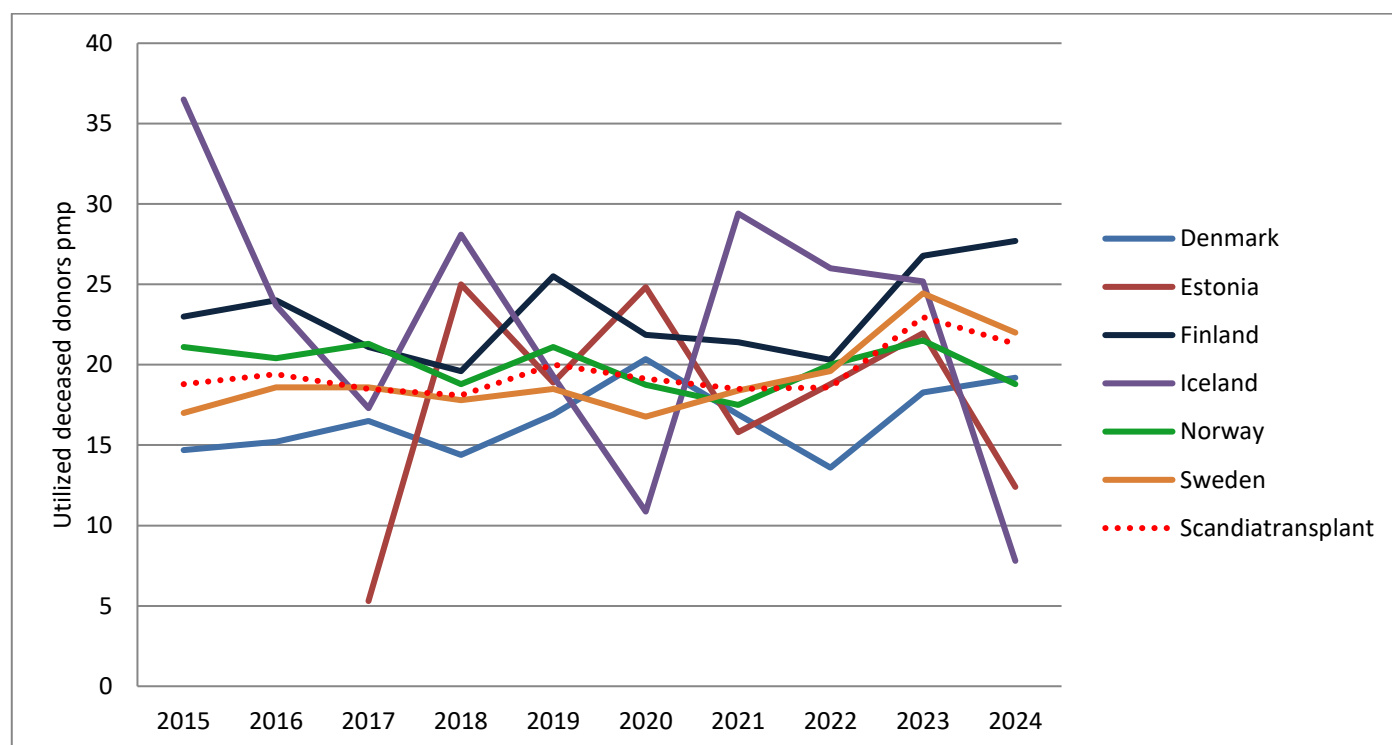


³ Utilized donor: An actual donor from whom at least one solid organ was transplanted.
https://www.scandiatransplant.org/data/Deceaseddonordefv_6.pdf

⁴ Figures included from Estonia year 2017 starts from October 1st 2017

Utilized deceased donors pmp⁵

Year	Denmark	Estonia ⁶	Finland	Iceland	Norway	Sweden	Scandiatransplant
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
2017	16,5	5,3	21,1	17,3	21,3	18,6	18,5
2018	14,4	25,0	19,6	28,1	18,8	17,8	18,1
2019	16,9	18,9	25,5	19,3	21,1	18,5	20,0
2020	20,4	24,8	21,9	10,9	18,8	16,8	19,1
2021	16,9	15,8	21,4	29,4	17,5	18,4	18,5
2022	13,6	18,8	20,3	26,0	20,0	19,6	18,6
2023	18,3	22,0	26,8	25,2	21,5	24,4	23,0
2024	19,2	12,4	27,7	7,8	18,8	22,0	21,3



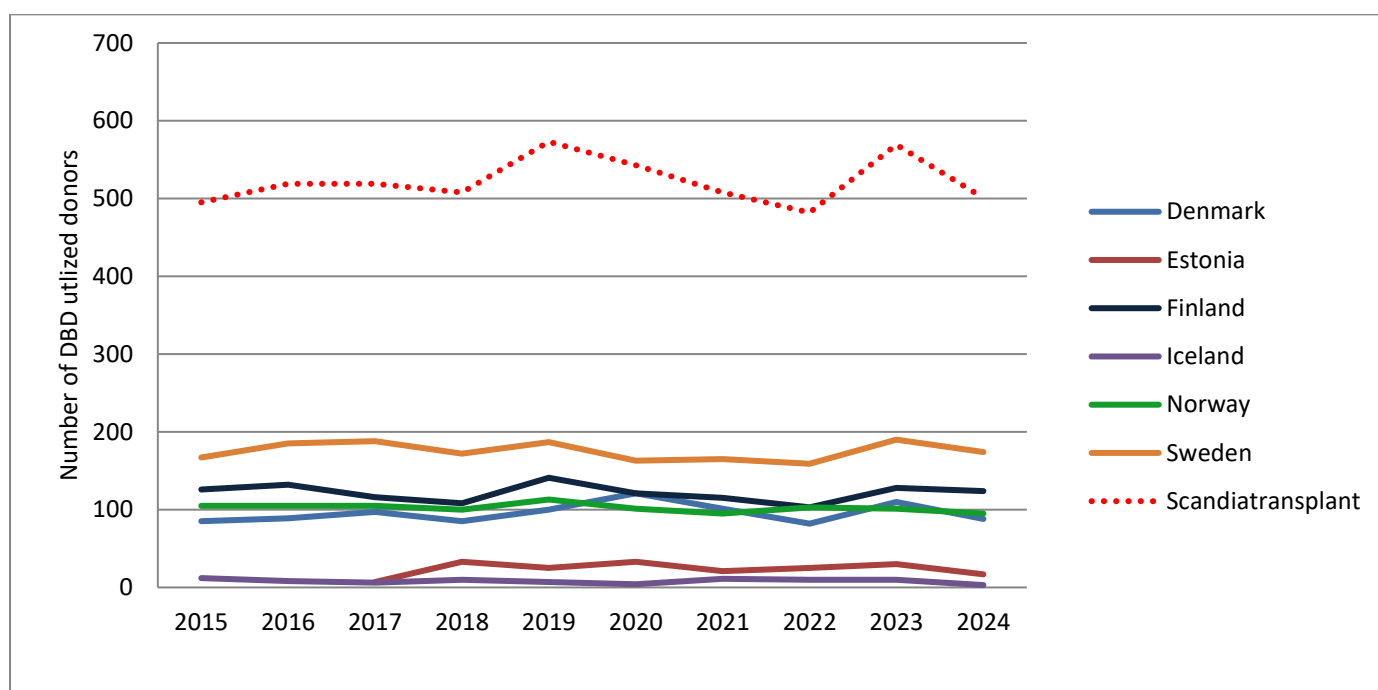
⁵ pmp: per million population

⁶ Figures included from Estonia year 2017 starts from October 1st 2017

Deceased donors in numbers divided into DBD and cDCD⁷

Utilized DBD donors⁸

Year	Denmark	Estonia ⁹	Finland	Iceland	Norway	Sweden	Scandiatransplant
2015	85		126	12	105	167	495
2016	89		132	8	105	185	519
2017	97	7	116	6	105	188	519
2018	85	33	108	10	100	172	508
2019	100	25	141	7	113	187	573
2020	121	33	121	4	101	163	543
2021	101	21	115	11	95	165	508
2022	82	25	103	10	103	159	482
2023	110	30	128	10	101	190	569
2024	88	17	124	3	95	174	501



⁷ DBD: Donation after Brain Death, DCD: Donation after circulatory death

⁸ Utilized donor: An actual donor from whom at least one solid organ was transplanted

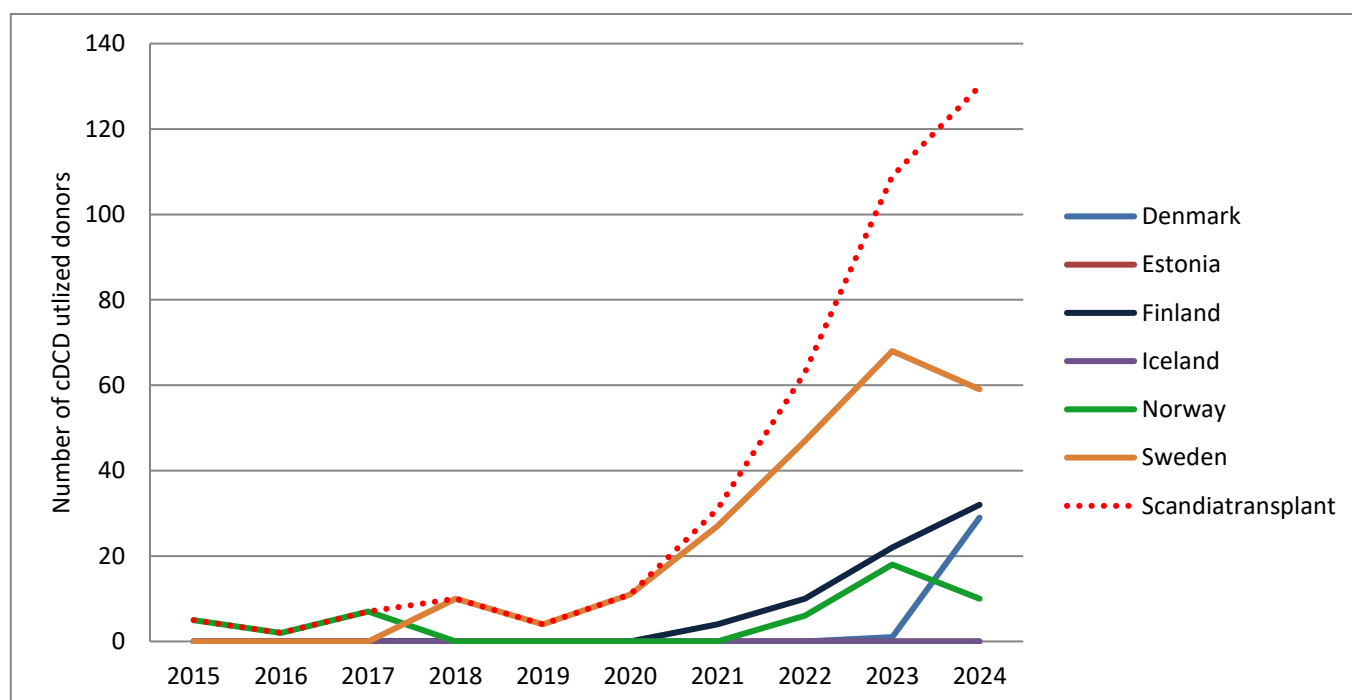
⁹ Figures included from Estonia year 2017 starts from October 1st 2017

Actual DBD donors¹⁰

Year	Denmark	Estonia	Finland	Iceland	Norway	Sweden	Scandiatransplant
2017	6	0	2	0	3	3	14
2018	15	1	9	0	4	9	38
2019	2	0	4	0	2	7	15
2020	2	0	5	0	1	7	15
2021	4	0	3	0	1	5	13
2022	2	0	1	0	1	7	11
2023	2	0	5	0	2	5	14
2024	7	2	3	0	6	9	27

Utilized cDCD donors

Year	Denmark	Estonia	Finland	Iceland	Norway	Sweden	Scandiatransplant
2015	0		0	0	5	0	5
2016	0		0	0	2	0	2
2017	0	0	0	0	7	0	7
2018	0	0	0	0	0	10	10
2019	0	0	0	0	0	4	4
2020	0	0	0	0	0	11	11
2021	0	0	4	0	0	27	31
2022	0	0	10	0	6	47	63
2023	1	0	22	0	18	68	109
2024	29	0	32	0	10	59	130



¹⁰ Actual donor: Operative incision was made with the intent of organ recovery for the purpose of transplantation or at least one organ was retrieved for the purpose of transplantation. The table only includes actual donors and not utilized donors.

Actual cDCD donors¹¹

Year	Denmark	Estonia	Finland	Iceland	Norway	Sweden	Scandiatransplant
2017	0	0	0	0	1	1	2
2018	0	0	0	0	0	0	0
2019	0	0	0	0	0	0	0
2020	0	0	0	0	0	0	0
2021	0	0	0	0	0	0	0
2022	0	0	0	0	1	0	1
2023	0	0	0	0	1	4	5
2024	1	0	0	0	2	1	4

‘Stand down’ cDCD donors¹²

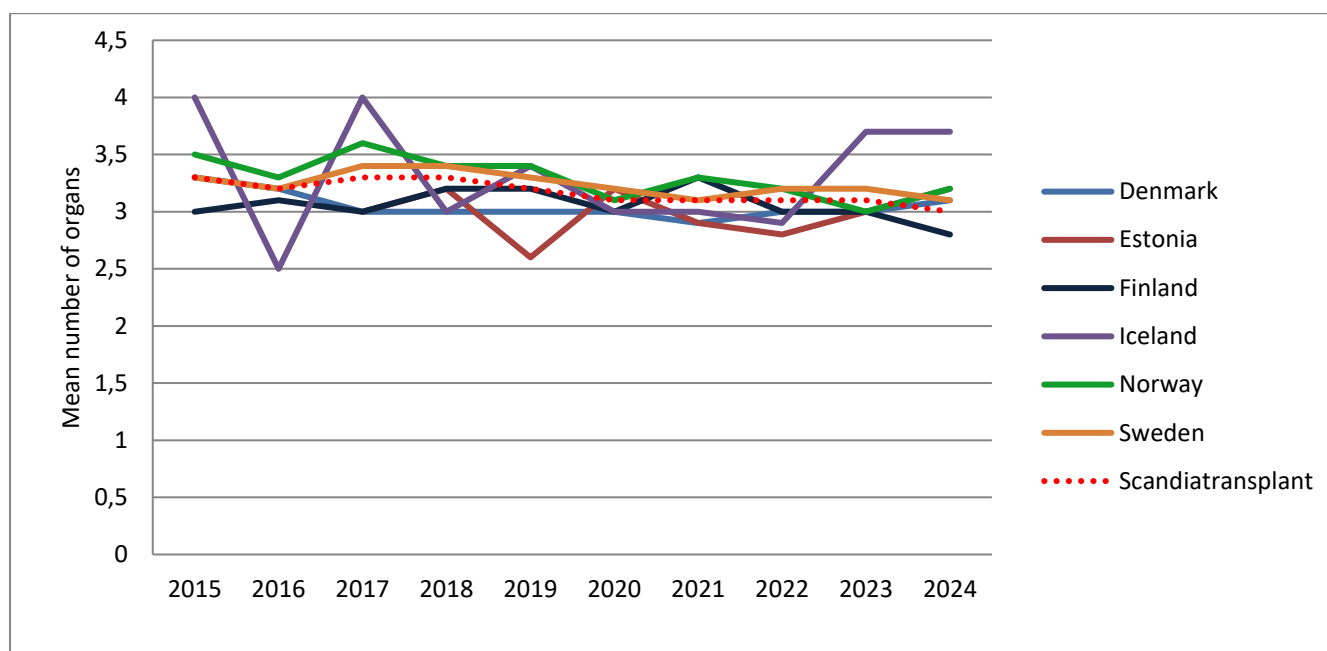
Year	Denmark	Estonia	Finland	Iceland	Norway	Sweden	Scandiatransplant
2017	0	0	0	0	0	0	0
2018	0	0	0	0	0	0	0
2019	0	0	0	0	0	1	1
2020	0	0	0	0	0	1	1
2021	0	0	1	0	0	3	4
2022	0	0	0	0	2	3	5
2023	0	0	2	0	4	12	18
2024	0	0	3	0	0	12	15

¹¹ Actual donor: Operative incision was made with the intent of organ recovery for the purpose of transplantation or at least one organ was retrieved for the purpose of transplantation. The table only includes actual donors and not utilized donors.

¹² Stand down: After treatment withdrawal all organ-specific stand-down times have exceeded and no organs were procured.

Mean number of organs per DBD donor used for transplantation¹³

Year	Denmark	Estonia ¹⁴	Finland	Iceland	Norway	Sweden	Scandiatransplant
2015	3,3		3,0	4,0	3,5	3,3	3,3
2016	3,2		3,1	2,5	3,3	3,2	3,2
2017	3,0	3,0	3,0	4,0	3,6	3,4	3,3
2018	3,0	3,2	3,2	3,0	3,4	3,4	3,3
2019	3,0	2,6	3,2	3,4	3,4	3,3	3,2
2020	3,0	3,2	3,0	3,0	3,1	3,2	3,1
2021	2,9	2,9	3,3	3,0	3,3	3,1	3,1
2022	3,0	2,8	3,0	2,9	3,2	3,2	3,1
2023	3,0	3,0	3,0	3,7	3,0	3,2	3,1
2024	3,1	3,2	2,8	3,7	3,2	3,1	3,0



Mean number of organs per cDCD donor used for transplantation

Year	Denmark	Estonia	Finland	Iceland	Norway	Sweden	Scandiatransplant
2015					2,4		2,4
2016					3,0		3,0
2017					2,7		2,7
2018						1,8	1,8
2019						1,5	1,5
2020						2,1	2,1
2021			2,0			2,2	2,2
2022			2,0		2,3	2,2	2,2
2023	2,0 ¹⁵		1,9		2,7	2,4	2,3
2024	2,3		2,0		2,4	2,6	2,4

¹³ Split liver transplantations from same donor is counted as one organ. Single lung transplantations from same donor is counted as one organ. Pancreatic islet transplanted is counted as one organ.

¹⁴ Figures included from Estonia year 2017 starts from October 1st 2017

¹⁵ Only based on one donor

Single and multi organ deceased donors used for transplantation

Single organ deceased donor

Organ type	Number of deceased donors
Kidney ¹⁶	184 (81,1%)
Liver	38 (16,7%)
Heart	1 (0,4%)
Lung (single or double lung)	4 (1,8%)
Total single organ donors	227 (100%)

Multi organ deceased donor¹⁷

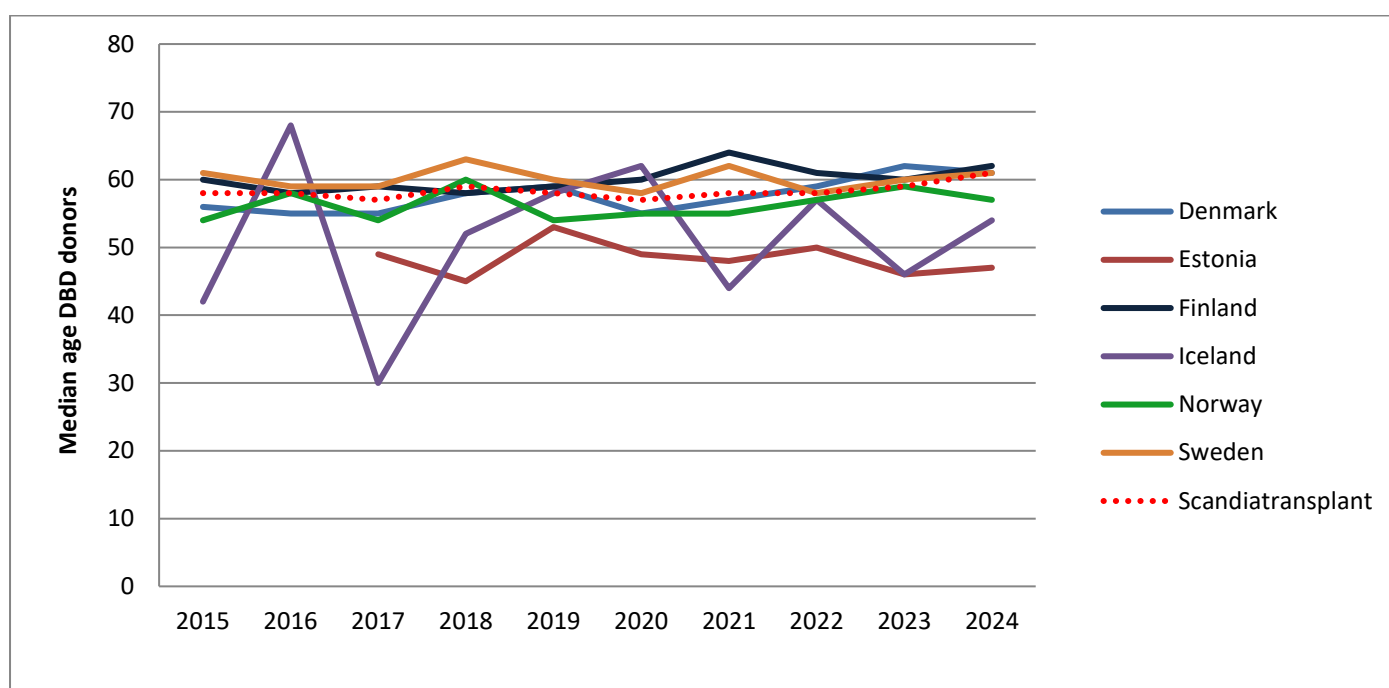
Number of organs per deceased donor	Number of deceased donors
2	229 (56,7%)
3	106 (26,2%)
4	45 (11,1%)
5	22 (5,5%)
6	2 (0,5%)
Total multi organ donors	404 (100%)

¹⁶ 1-2 kidneys

¹⁷ 1-2 kidneys /2 single lungs from same donor are counted as 1 organ. Heart-lung block is counted as two organs.

Median age of DBD donors

Year	Denmark	Estonia ¹⁸	Finland	Iceland	Norway	Sweden	Scandiatransplant
2015	56		60	42	54	61	58
2016	55		58	68	58	59	58
2017	55	49	59	30	54	59	57
2018	58	45	58	52	60	63	59
2019	59	53	59	58	54	60	58
2020	55	49	60	62	55	58	57
2021	57	48	64	44	55	62	58
2022	59	50	61	57	57	58	58
2023	62	46	60	46	59	59	58
2024	61	47	62	54	57	61	61



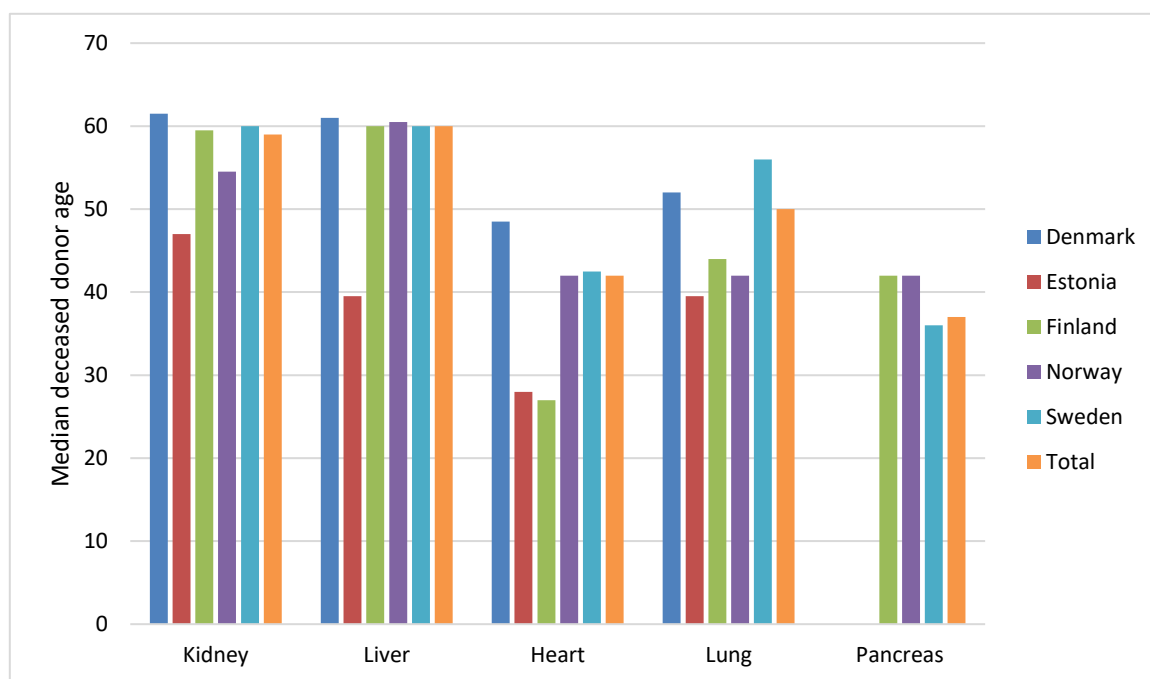
Median age of cDCD donors

Year	Denmark	Estonia	Finland	Iceland	Norway	Sweden	Scandiatransplant
2015					47		47
2016					25		25
2017					52		52
2018						54	54
2019						64	64
2020						61	61
2021			57			62	62
2022			57		53	66	63
2023	59		59		57	63	59
2024	64		53		57	62	60

¹⁸ Figures included from Estonia year 2017 starts from October 1st 2017

Median age of deceased donors per organ type^{19,20}

Organ	Denmark	Estonia	Finland	Iceland	Norway	Sweden	Scandiatransplant
Kidney	61,5	47	59,5	NA	54,5	60	59
Liver	61,0	39,5	60	NA	60,5	60	60
Heart	48,5	28	27	NA	42	42,5	42
Lung	52	39,5	44	NA	42	56	50
Pancreas	NA	NA	42		42	36	37
Islet					NA	NA	NA

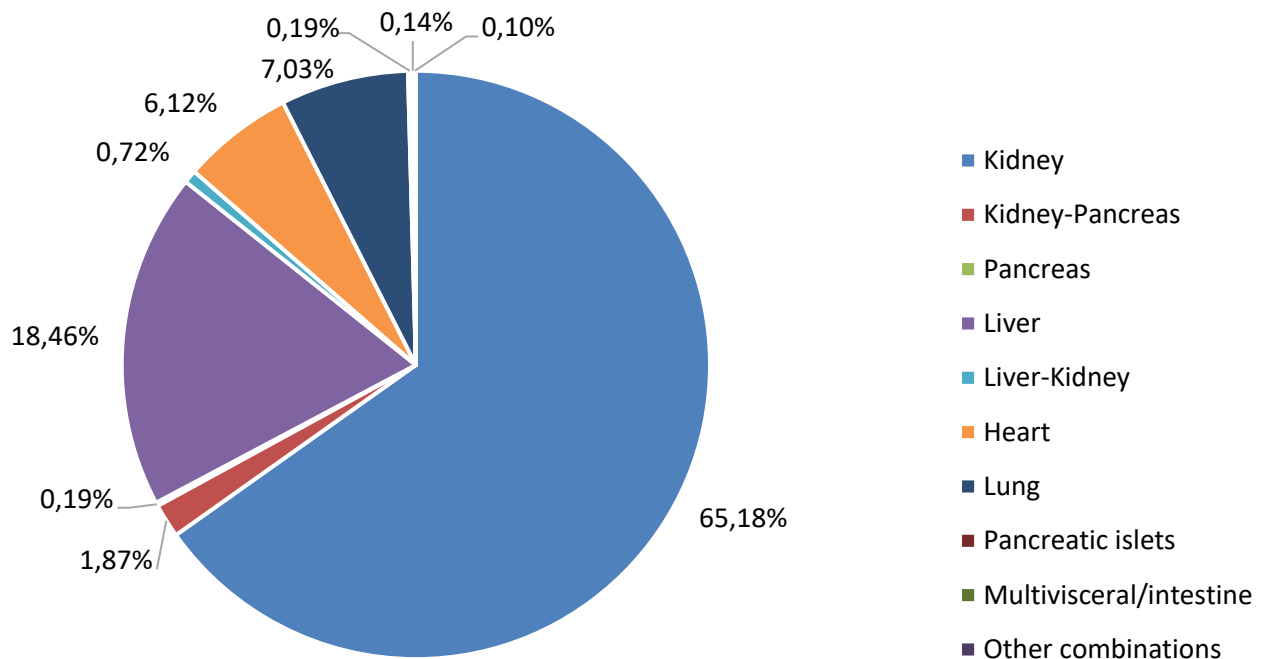


¹⁹ Based on donor country, and organs are only included if they have been transplanted

²⁰ To keep anonymity, the median for all combinations with less than 5 observations is not calculated.

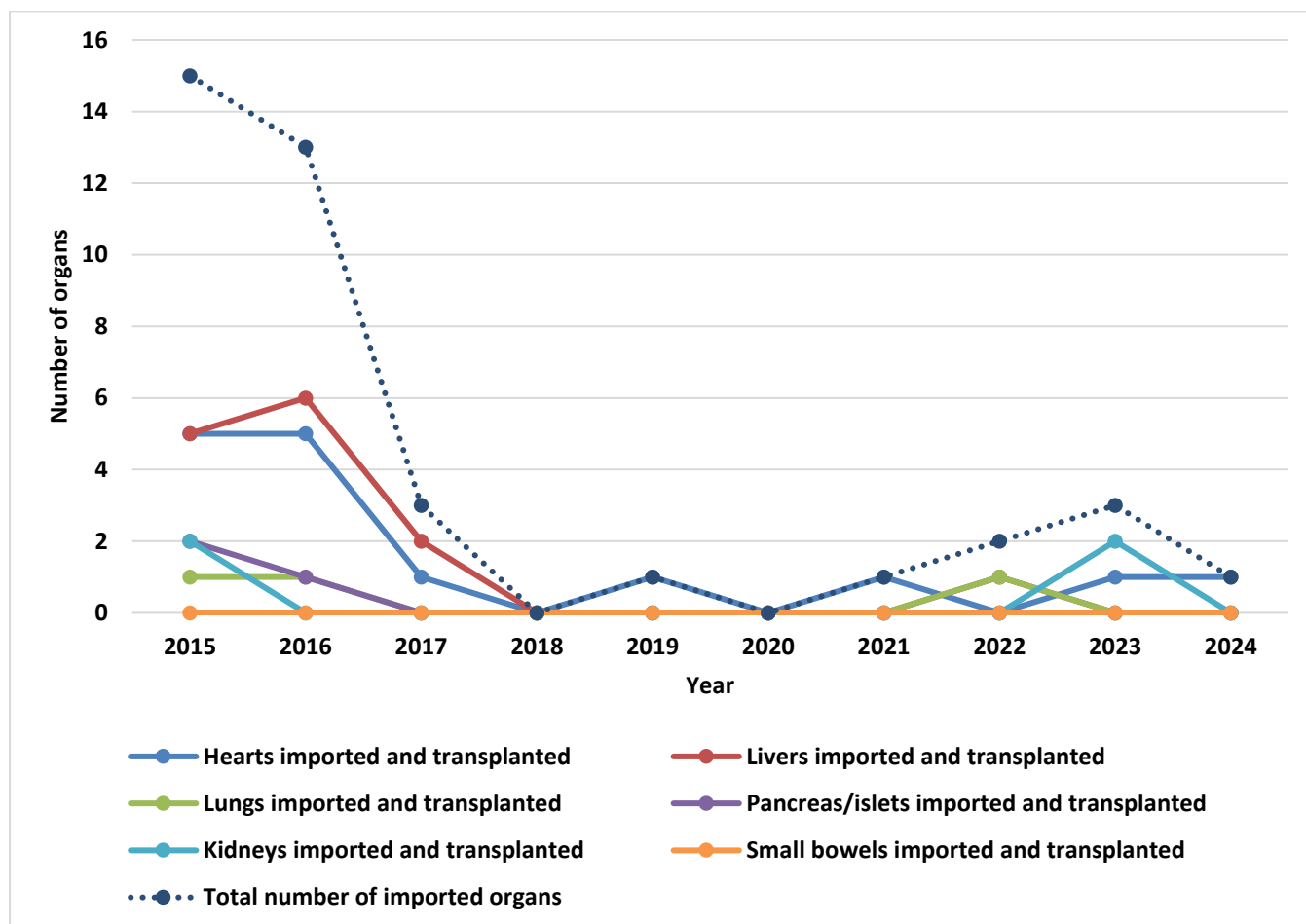
Transplanted patients in Scandiatriplant 2024

Organ(s) transplanted	Number of transplantations
Kidney	1363 (65,18%)
Kidney-Pancreas	39 (1,87%)
Pancreas	4 (0,19%)
Liver	386 (18,46%)
Liver-Kidney	15 (0,72%)
Heart	128 (6,12%)
Lung	147 (7,03%)
Pancreatic islets	4 (0,19%)
Multivisceral/intestine	3 (0,14%)
Other combinations	2 (0,10%)
Total transplanted patients	2091 (100%)



Organs imported and exported between EOEO's²¹ and Scandiatransplant²²

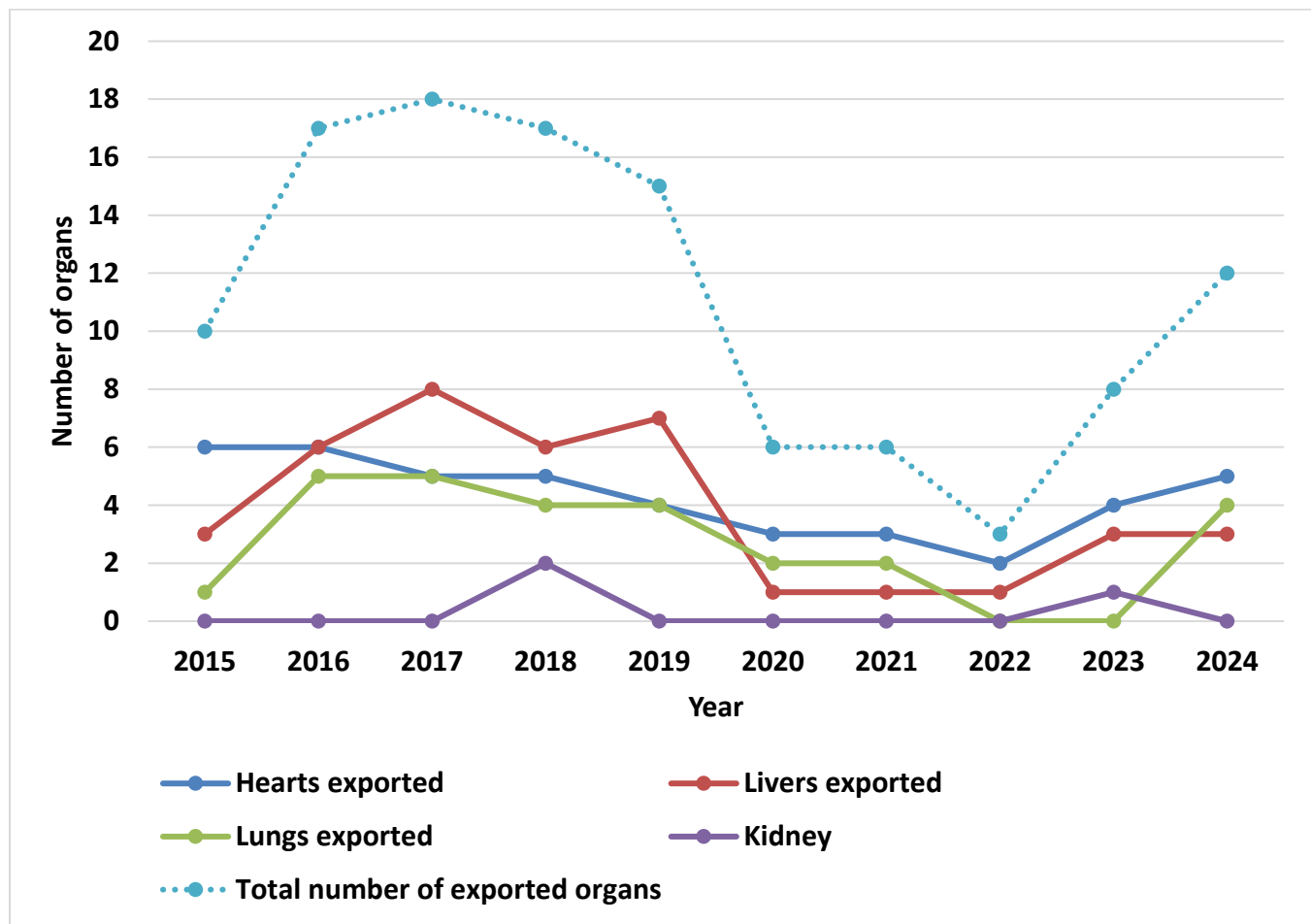
Organs imported from other EOEO's to Scandiatransplant



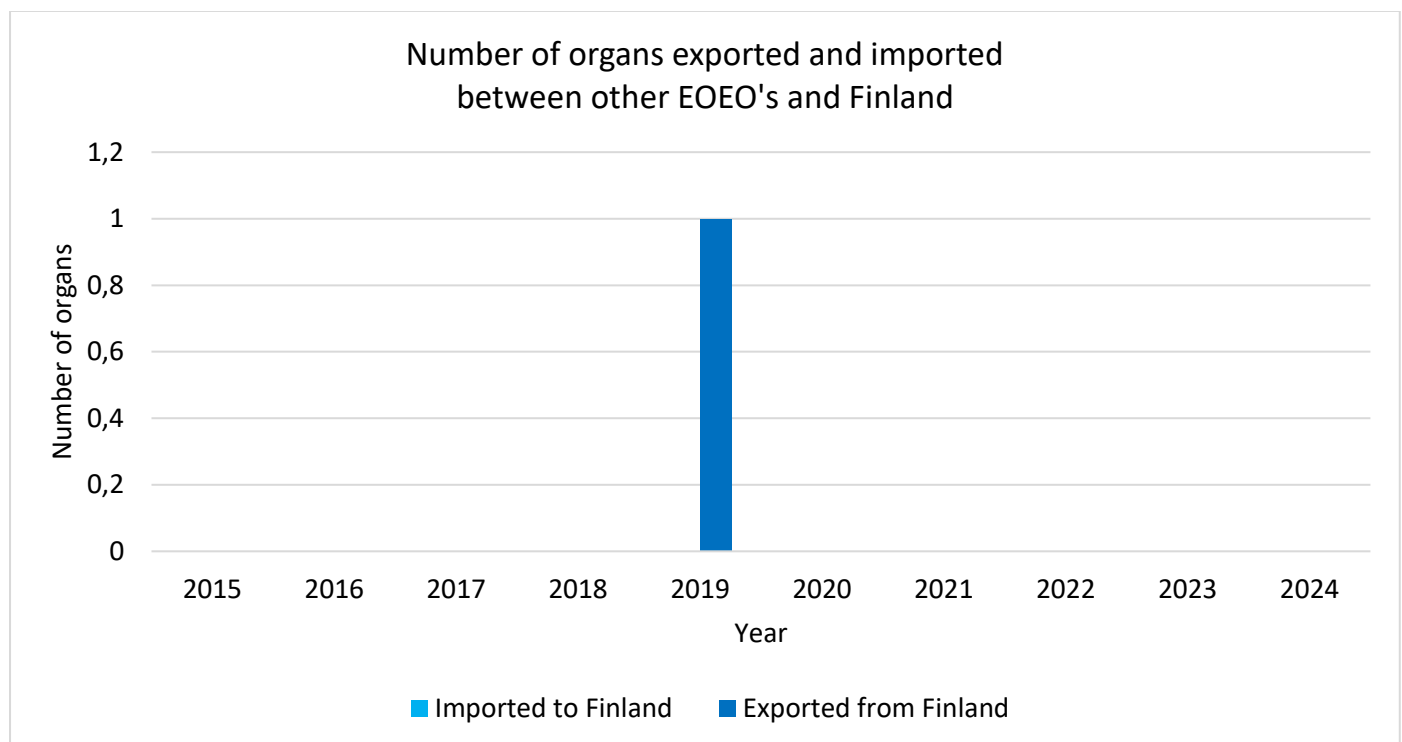
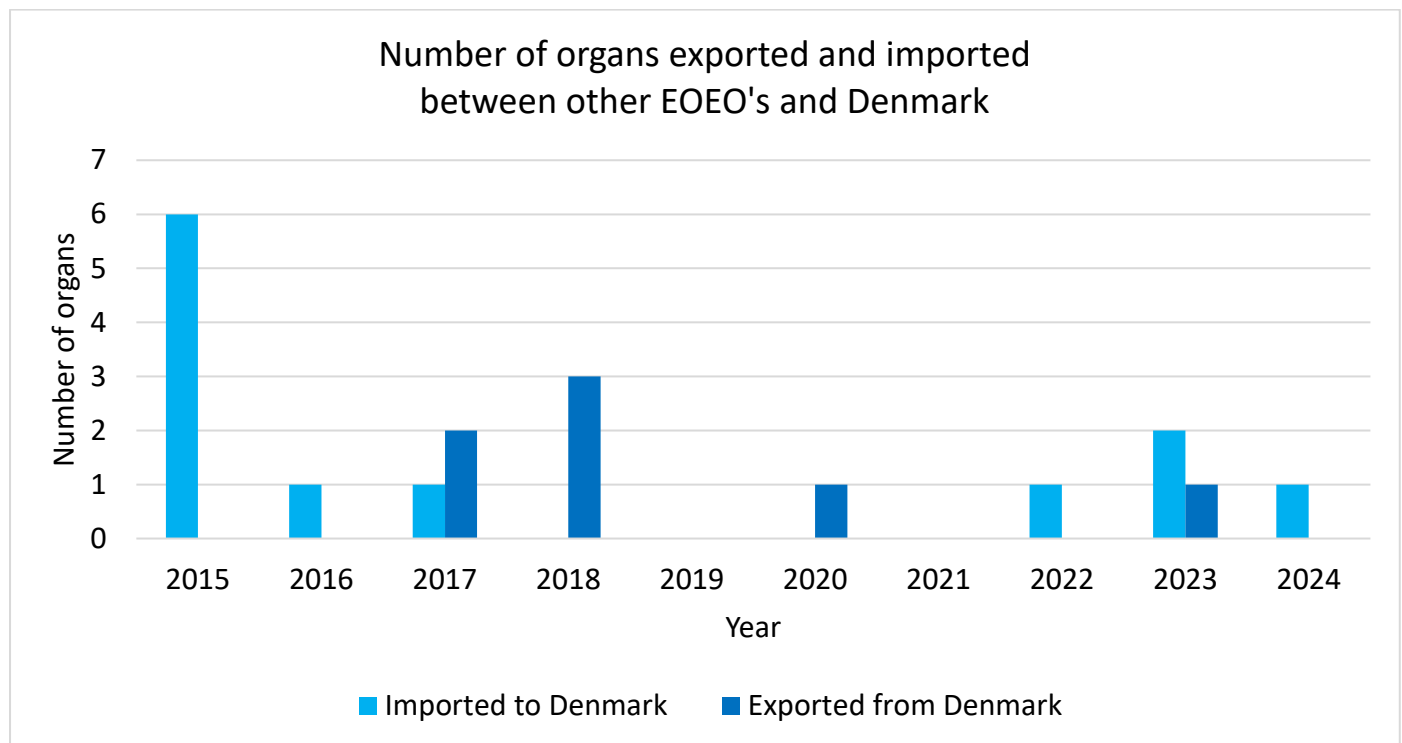
²¹ EOEO: European Organ Exchange Organisations (In 2019 a double lung was imported from Switzerland to Denmark, however optimization was not successful)

²² From October 1st 2017 Estonia is regarded as part of Scandiatransplant

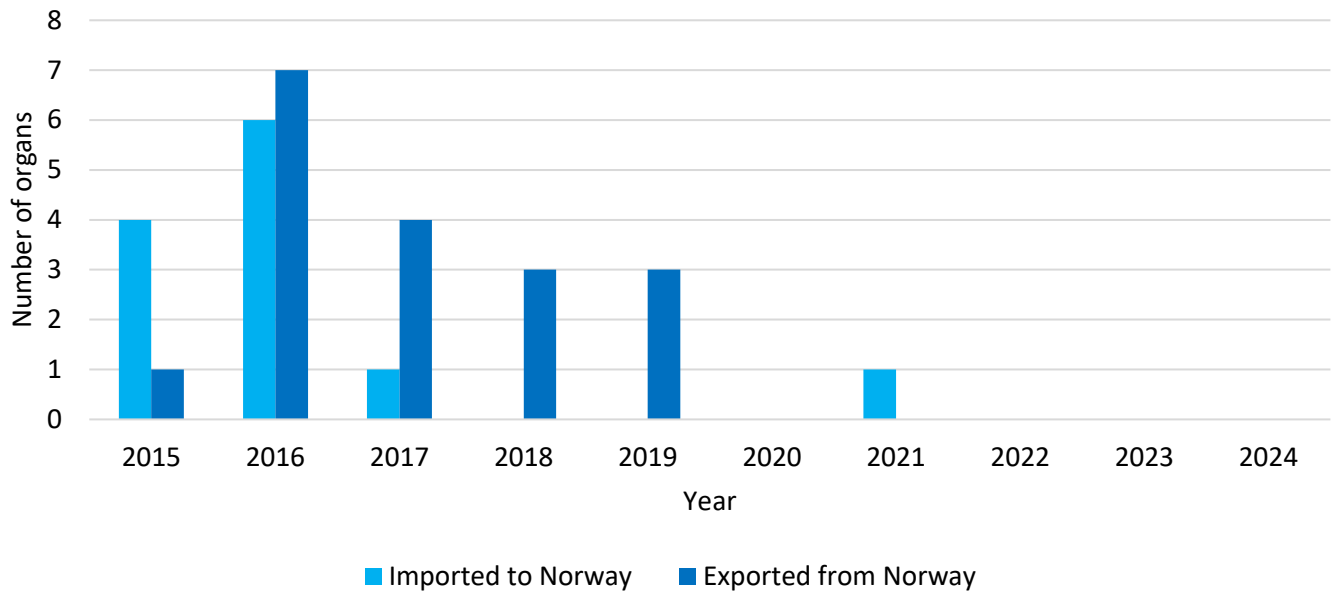
Organs exported to other EOEO's from Scandiatransplant



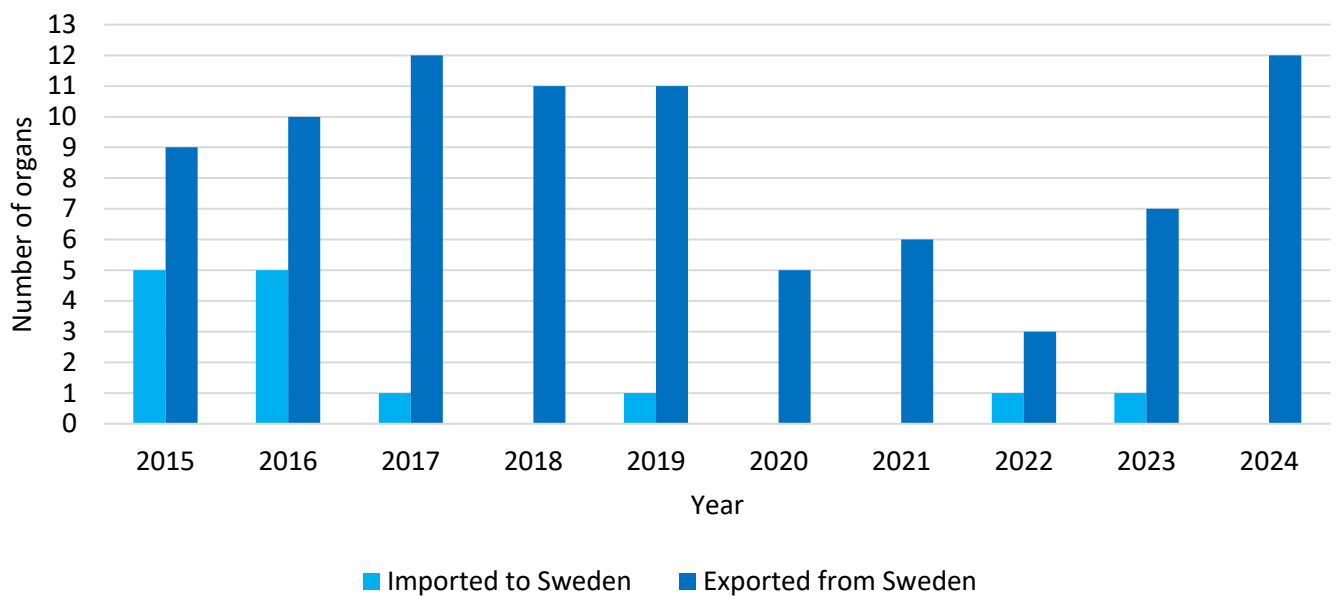
Organs exported and imported between Scandiatransplant countries and other EOEO's



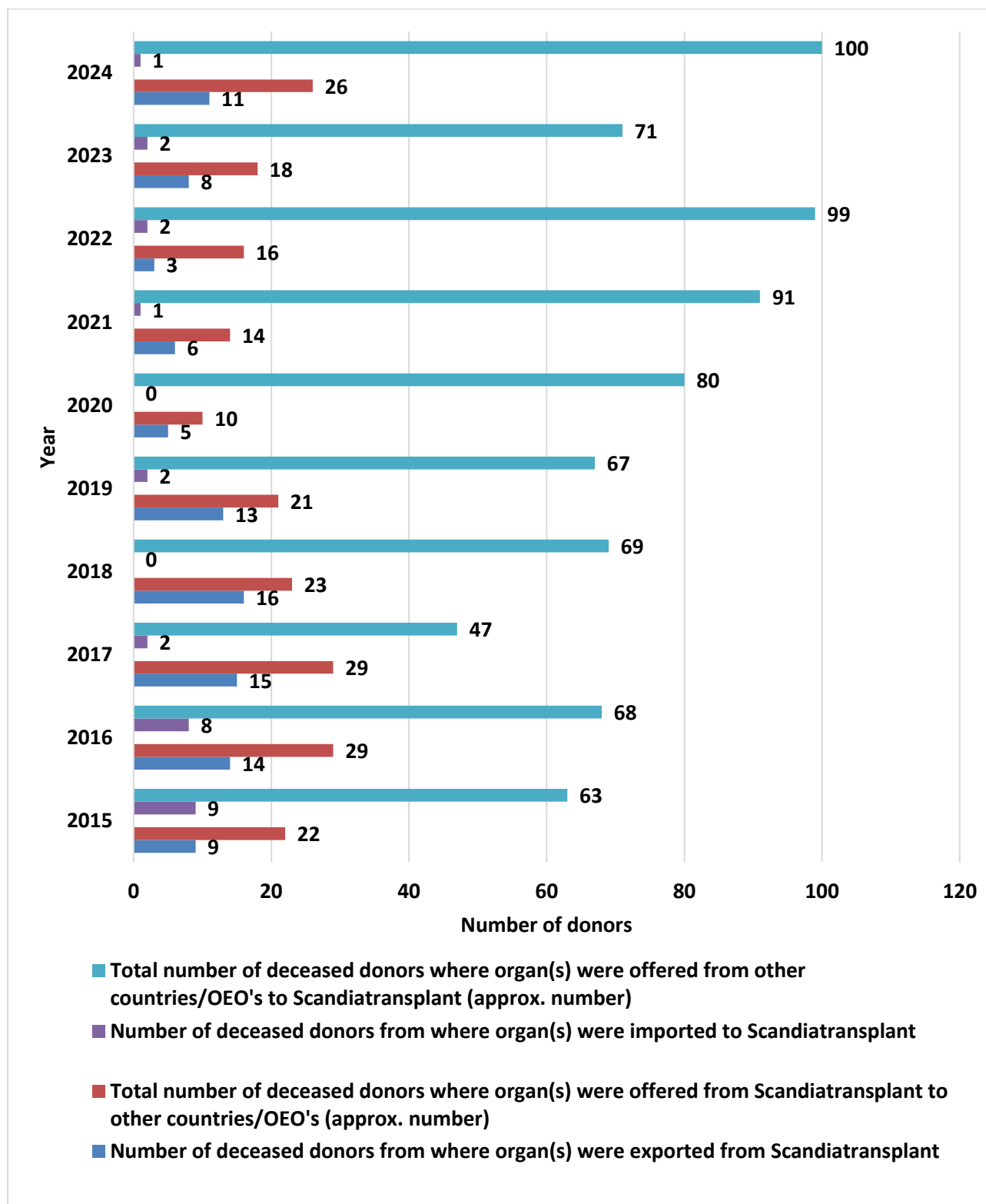
Number of organs exported and imported
between other EOEO's and Norway



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



Number of deceased donors where organ(s) were offered²³



²³ From October 1st 2017 Estonia is regarded as part of Scandiatransplant

Kidneys from living donors exported and imported through STEP between the Scandiatransplant countries²⁴

Denmark

	Kidneys transplanted	Import	Export
2019	2	2	2
2020	6	1	1
2021	7	5	5
2022	2	2	2
2023	9	5	5
2024	6	3	3

Sweden

	Kidneys transplanted	Import	Export
2018	3	0	0
2019	12	2	2
2020	7	1	1
2021	12	5	5
2022	4	1	1
2023	6	5	5
2024	5	4	4

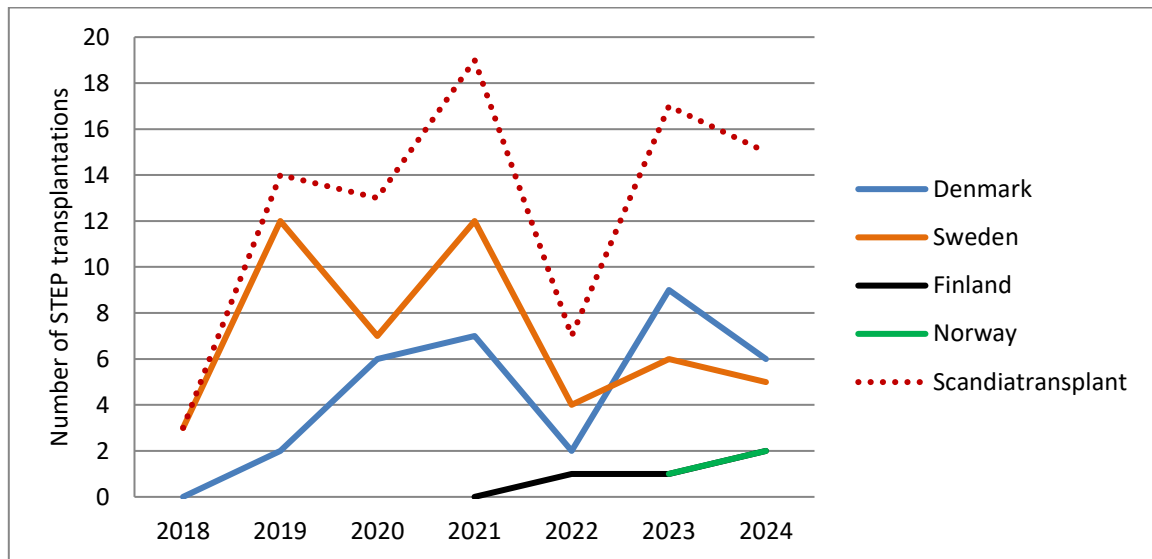
Finland

	Kidneys transplanted	Import	Export
2020	0	0	0
2021	0	0	0
2022	1	1	1
2023	1	1	1
2024	2	2	2

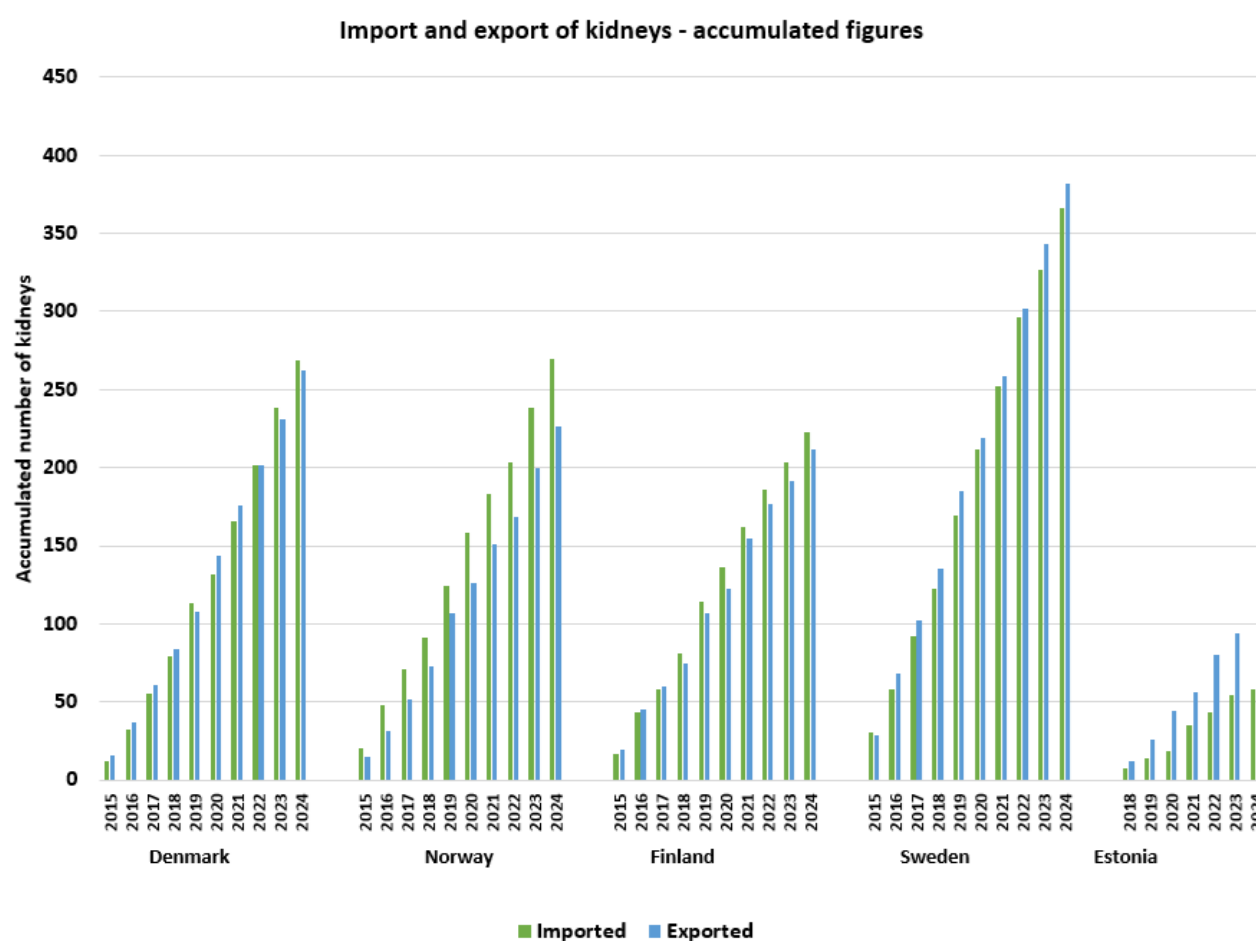
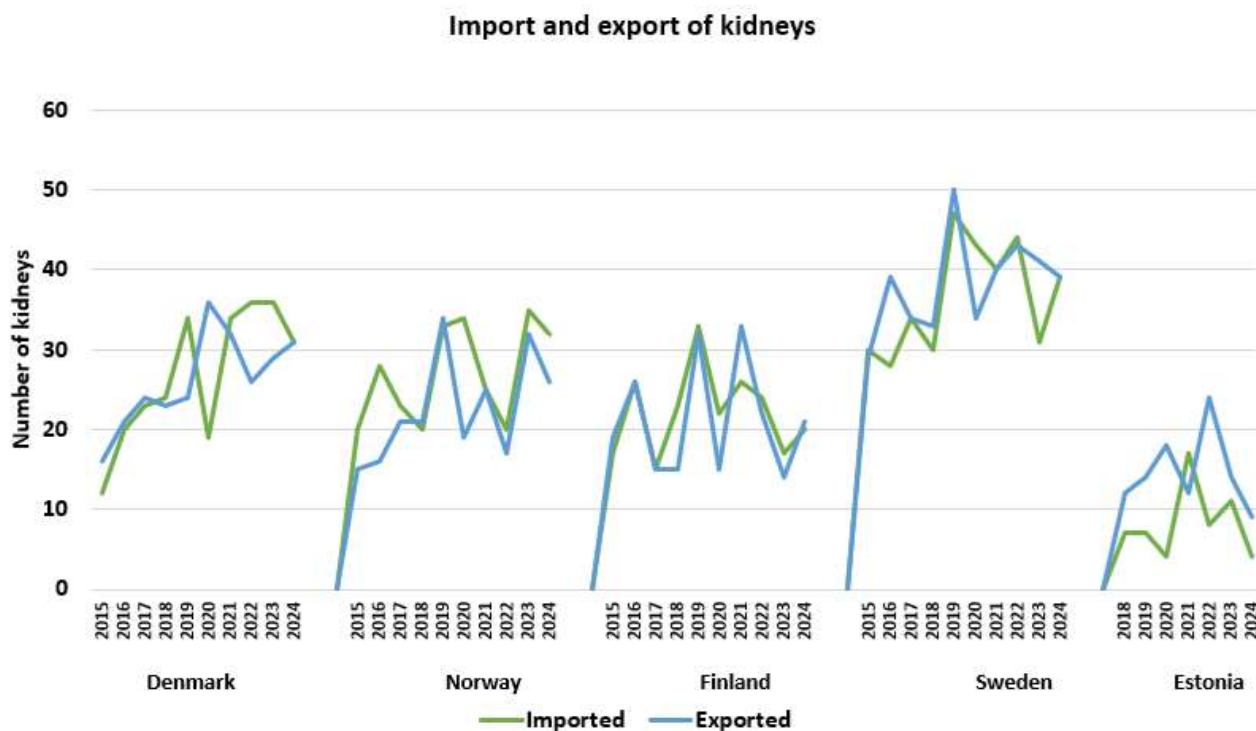
Norway

	Kidneys transplanted	Import	Export
2023	1	1	1
2024	2	1	1

²⁴ STEP is the Scandiatransplant Paired Living Kidney Donor Exchange Program, introduced in Sweden in 2018 and in Scandiatransplant in 2019. Finland joined the program late 2020 and Norway in year 2022.



Kidneys from deceased donors exported and imported between the Scandiatriplant countries²⁵



²⁵ Only kidneys from deceased donors and kidneys used for transplantation are included

Kidneys from deceased donors exported and imported²⁶ between the Scandiatransplant countries in numbers²⁷ (including import and export to other EOEO's)

Denmark

	Kidneys transplanted	Import	Export	Import EOEO	Export EOEO
2015	154	12	16	2	0
2016	154	20	21	0	0
2017	165	23	24	0	0
2018	159	24	23	0	0
2019	189	34	24	0	0
2020	200	19	36	0	0
2021	184	34	32	0	0
2022	164	36	26	0	0
2023	209	36	29	2	1
2024	216	31	31	0	0

Norway

	Kidneys transplanted	Import	Export	Import EOEO	Export EOEO
2015	191	20	15	0	0
2016	193	28	16	0	0
2017	197	23	21	0	0
2018	168	20	21	0	0
2019	191	33	34	0	0
2020	181	34	19	0	0
2021	164	25	25	0	0
2022	186	20	17	0	0
2023	194	35	32	0	0
2024	184	32	26	0	0

Finland

	Kidneys transplanted	Import	Export	Import EOEO	Export EOEO
2015	229	17	19	0	0
2016	240	26	26	0	0
2017	211	15	15	0	0
2018	206	23	15	0	0
2019	268	33	32	0	0
2020	232	22	15	0	0
2021	222	26	33	0	0
2022	208	24	22	0	0
2023	276	17	14	0	0
2024	271	20	21	0	0

²⁶ Only kidneys from deceased donors and kidneys used for transplantation are included

²⁷ Kidney double transplantations are counted as 1

Sweden

	Kidneys transplanted	Import	Export	Import EOEO	Export EOEO
2015	295	30	29	0	0
2016	290	28	39	0	0
2017	349	34	34	0	0
2018	304	30	33	0	2
2019	329	47	50	0	0
2020	313	43	34	0	0
2021	327	40	40	0	0
2022	366	44	43	0	0
2023	423	31	41	0	0
2024	401	39	39	0	0

Estonia²⁸

	Kidneys transplanted	Import	Export	Import EOEO	Export EOEO
2017	10	0	1	0	0
2018	54	7	12	0	0
2019	39	7	14	0	0
2020	43	4	18	0	0
2021	45	17	12	0	0
2022	30	8	24	0	0
2023	46	11	14	0	0
2024	25	4	9	0	0

Iceland²⁹

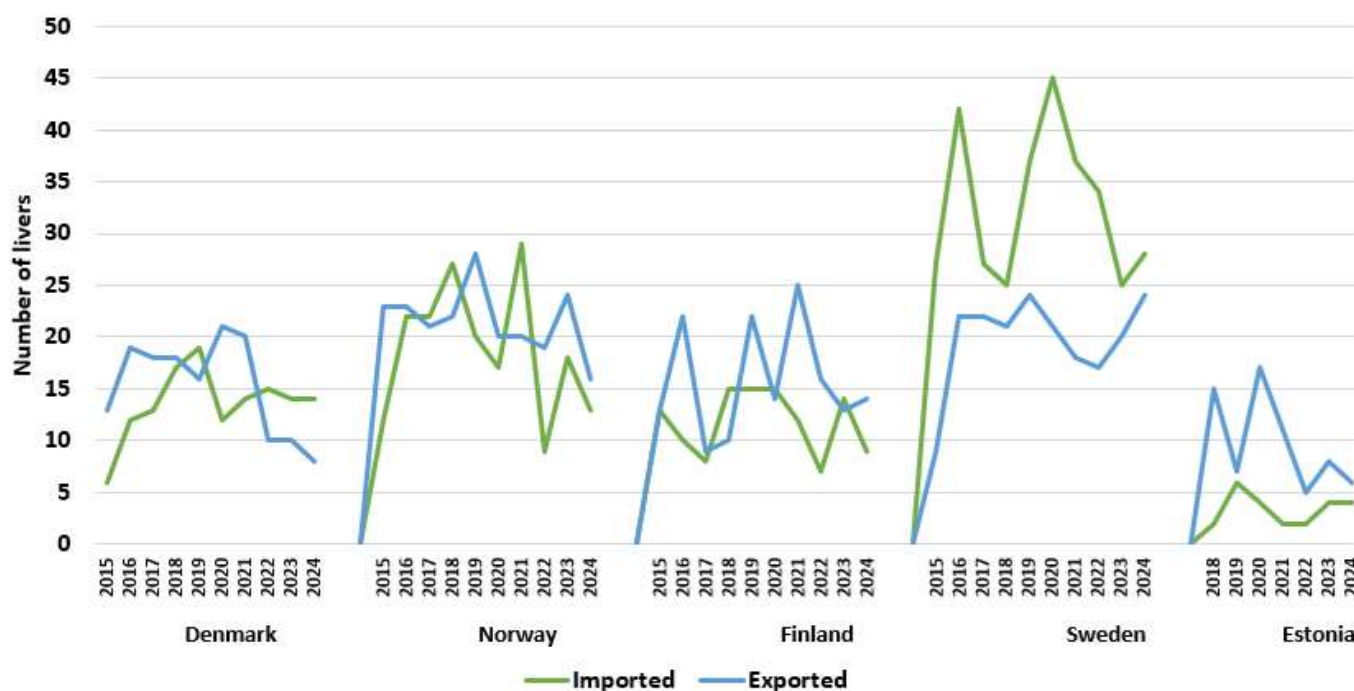
	Kidneys transplanted	Import	Export	Import EOEO	Export EOEO
2019	2				
2020	3				
2021	7				
2022	5				
2023	8				
2024	3				

²⁸ From October 1st 2017 Estonia is regarded as part of ScandiTransplant

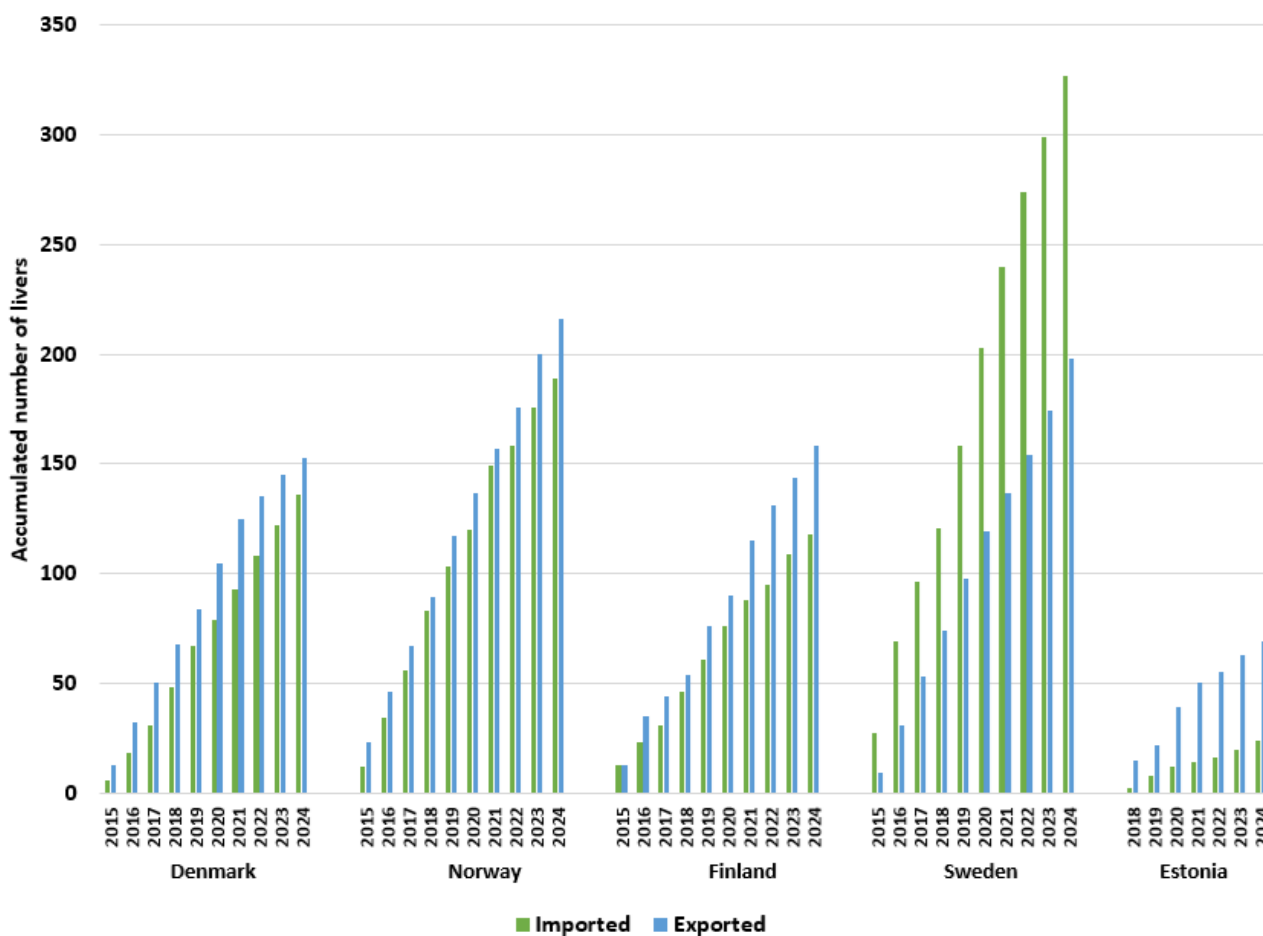
²⁹ From 2019 some of the Icelandic recipients will be transplanted with deceased donor kidneys in Iceland. Import/export numbers are included in the Swedish figures.

Livers exported and imported between the ScandiTransplant countries³⁰

Import and export of livers



Import and export of livers - accumulated figures



³⁰ Only livers used for transplantation are included

Livers exported and imported³¹ between the Scandiatransplant countries in numbers³² (including import and export to other EOEO's)

Denmark

	Livers transplanted	Import	Export	Import EOEO	Export EOEO
2015	58	6	13	1	0
2016	59	12	19	0	0
2017	57	13	18	1	1
2018	43	17	18	0	1
2019	64	19	16	0	0
2020	63	12	21	0	0
2021	49	14	20	0	0
2022	46	15	10	0	0
2023	63	14	10	0	0
2024	58	14	8	0	0

Norway

	Livers transplanted	Import	Export	Import EOEO	Export EOEO
2015	83	12	23	2	1
2016	100	22	23	4	4
2017	102	22	21	1	3
2018	94	27	22	0	2
2019	94	20	28	0	2
2020	88	17	20	0	0
2021	97	29	20	0	0
2022	91	9	19	0	0
2023	92	18	24	0	0
2024	78	13	16	0	0

³¹ Only livers used for transplantation are included

³² If the liver is transplanted as split liver, each split is counted as 1

Finland

	Livers transplanted	Import	Export	Import EOEO	Export EOEO
2015	77	13	13	0	0
2016	61	10	22	0	0
2017	63	8	9	0	0
2018	66	15	10	0	0
2019	64	15	22	0	0
2020	74	15	14	0	0
2021	75	12	25	0	0
2022	62	7	16	0	0
2023	78	14	13	0	0
2024	76	9	14	0	0

Sweden

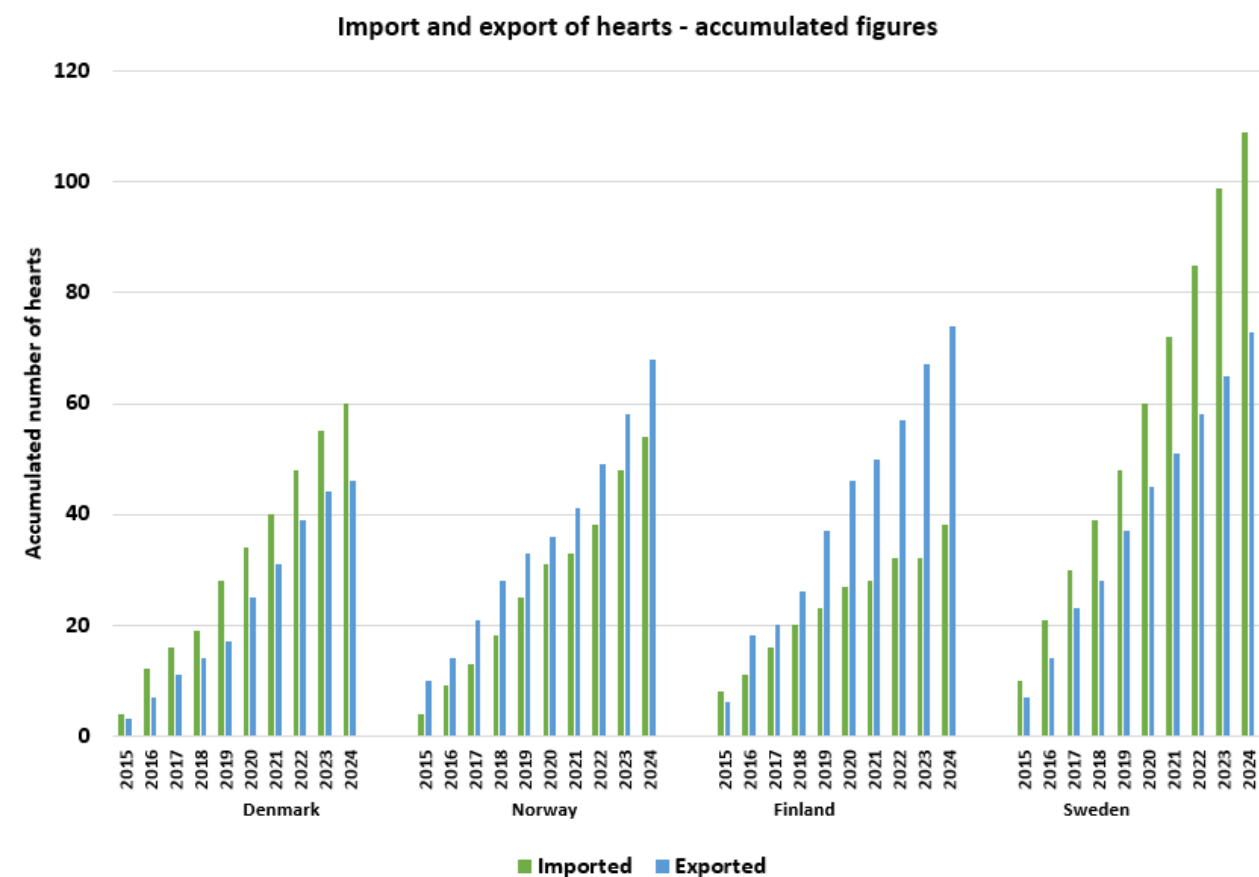
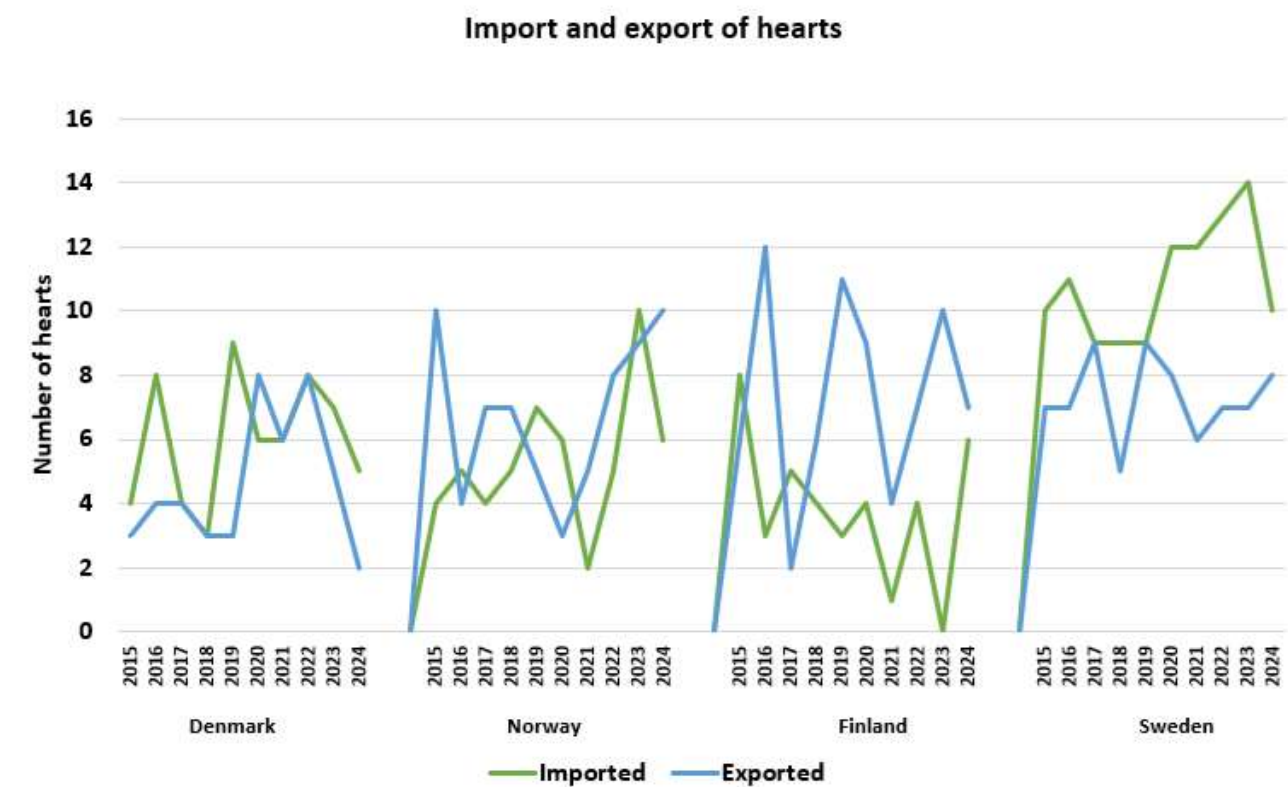
	Livers transplanted	Import	Export	Import EOEO	Export EOEO
2015	176	27	9	2	5
2016	197	42	22	2	2
2017	176	27	22	0	4
2018	162	25	21	0	3
2019	183	37	24	0	5
2020	171	45	21	0	1
2021	169	37	18	0	1
2022	166	34	17	1	1
2023	198	25	20	0	3
2024	177	28	24	0	3

Estonia³³

	Livers transplanted	Import	Export	Import EOEO	Export EOEO
2017	6	2	2	0	0
2018	10	2	15	0	0
2019	10	6	7	0	0
2020	12	4	17	0	0
2021	4	2	11	0	0
2022	9	2	5	0	0
2023	17	4	8	0	0
2024	10	4	6	0	0

³³ From October 1st 2017 Estonia is regarded as part of Scandiatransplant

Hearts exported and imported between the Scandiatriplant countries³⁴



³⁴ Only hearts used for transplantation are included

Hearts exported and imported³⁵ between the Scandiatransplant countries in numbers (including import and export to other EOEO's)

Denmark

	Hearts transplanted	Import	Export	Import EOEO	Export EOEO
2015	27	4	3	2	0
2016	29	8	4	1	0
2017	25	4	4	0	1
2018	26	3	3	0	2
2019	30	9	3	0	0
2020	32	6	8	0	1
2021	24	6	6	0	0
2022	27	8	8	0	0
2023	32	7	5	0	0
2024	32	5	2	1	0

Norway

	Hearts transplanted	Import	Export	Import EOEO	Export EOEO
2015	37	4	10	0	0
2016	21	5	4	1	2
2017	32	4	7	0	1
2018	29	5	7	0	1
2019	43	7	5	0	1
2020	30	6	3	0	0
2021	23	2	5	1	0
2022	30	5	8	0	0
2023	32	10	9	0	0
2024	27	6	10	0	0

³⁵ Only hearts used for transplantation are included

Finland³⁶

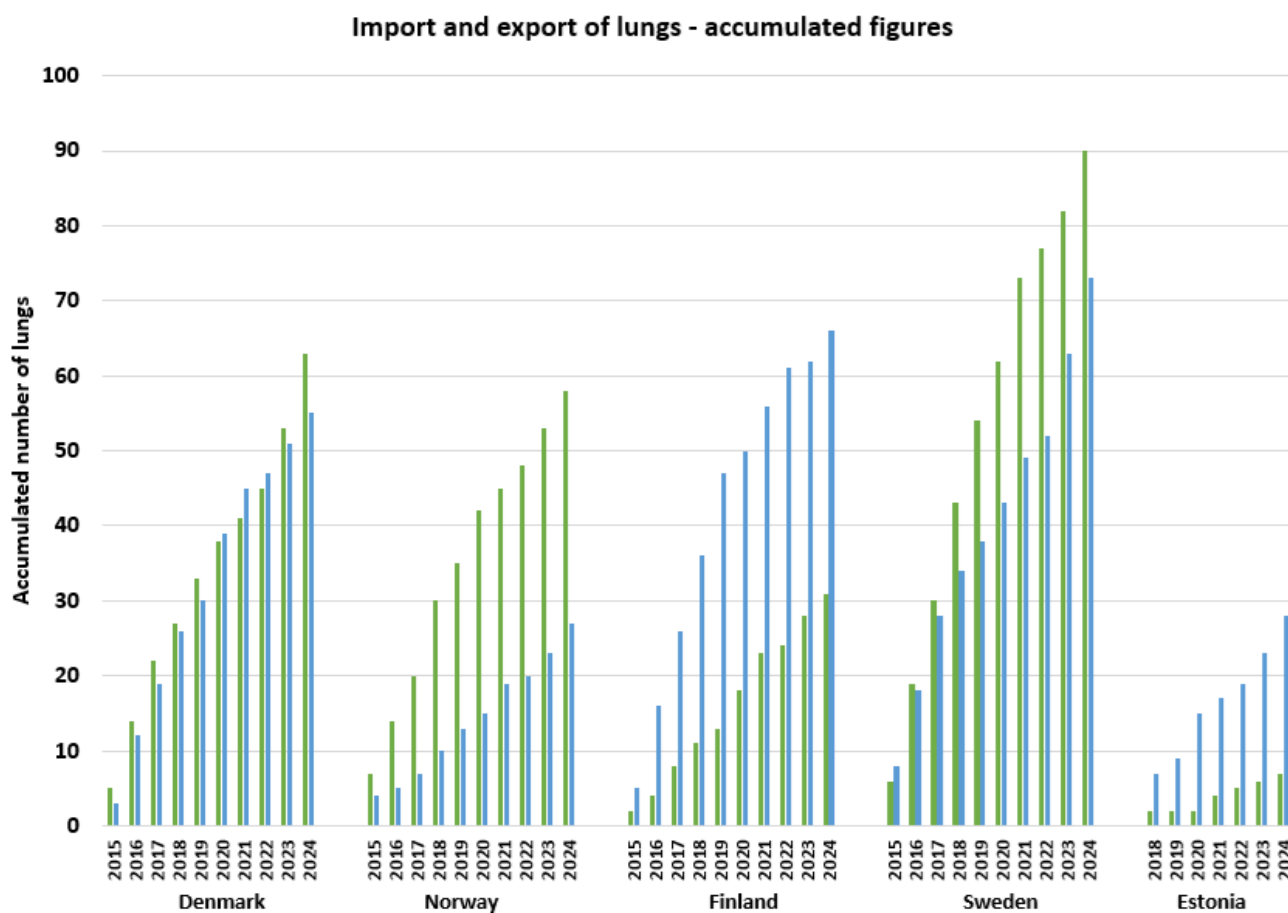
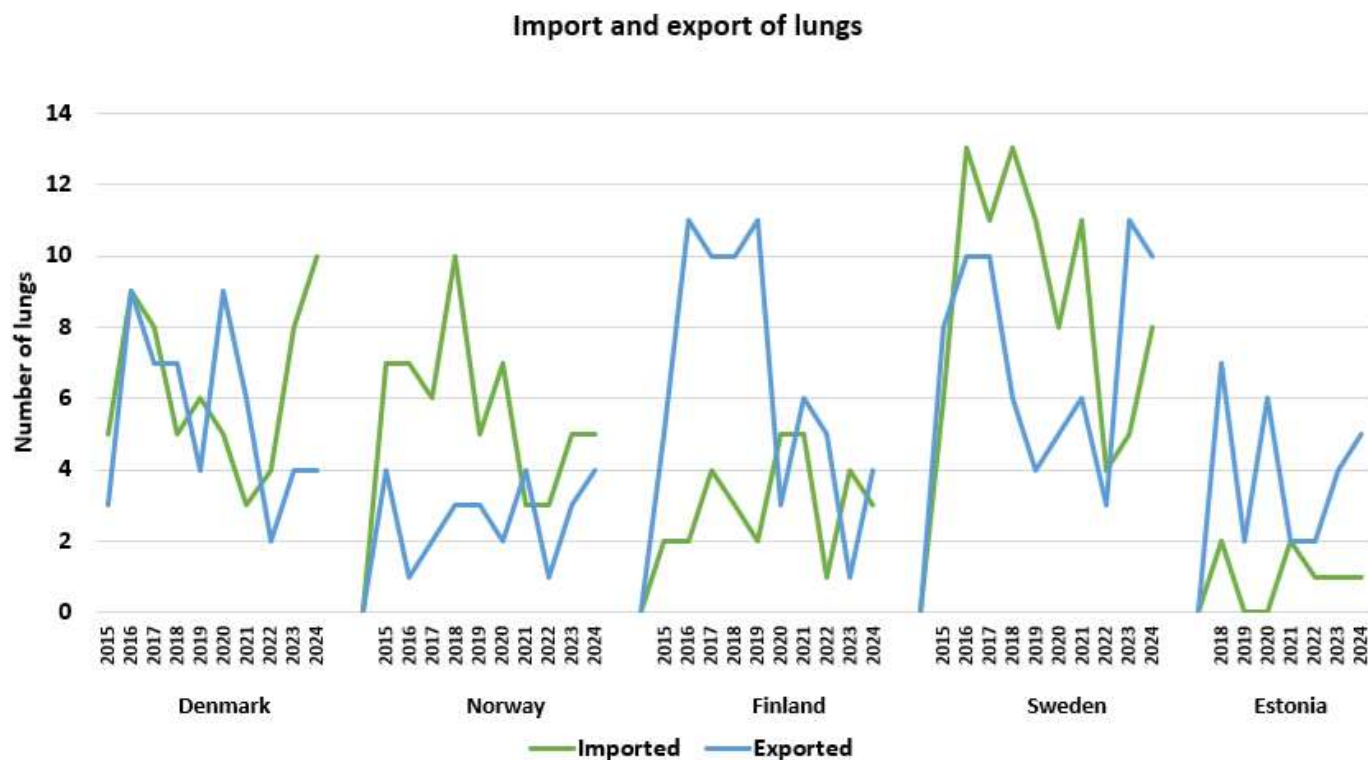
	Hearts transplanted	Import	Export	Import EOEO	Export EOEO
2015	27	8	6	0	0
2016	31	3	12	0	0
2017	26	5	2	0	0
2018	47	4	6	0	0
2019	30	3	11	0	1
2020	22	4	9	0	0
2021	22	1	4	0	0
2022	19	4	7	0	0
2023	19	0	10	0	0
2024	18	6	7	0	0

Sweden

	Hearts transplanted	Import	Export	Import EOEO	Export EOEO
2015	63	10	7	3	1
2016	64	11	7	2	4
2017	62	9	9	1	3
2018	66	9	5	0	2
2019	60	9	9	1	2
2020	54	12	8	0	2
2021	66	12	6	0	3
2022	54	13	7	0	2
2023	68	14	7	1	4
2024	53	10	8	0	5

³⁶ Estonian heart transplantations are performed in Finland and included in the number of heart transplantation. Furthermore, Estonian heart donors are not calculated as import/export when used for transplantation in Finland.

Lungs exported and imported between the Scandiatriplant countries³⁷



³⁷ Only lungs used for transplantation are included

Lungs exported and imported³⁸ between the Scandiatransplant countries in numbers³⁹ (including import and export to other EOEO's)

Denmark

	Lungs transplanted	Import	Export	Import EOEO	Export EOEO
2015	35	5	3	1	0
2016	29	9	9	0	0
2017	35	8	7	0	0
2018	25	5	7	0	0
2019	30	6	4	0	0
2020	29	5	9	0	0
2021	22	3	6	0	0
2022	23	4	2	1	0
2023	40	8	4	0	0
2024	40	10	4	0	0

Norway

	Lungs transplanted	Import	Export	Import EOEO	Export EOEO
2015	34	7	4	0	0
2016	34	7	1	1	1
2017	35	6	2	0	0
2018	30	10	3	0	0
2019	33	5	3	0	0
2020	28	7	2	0	0
2021	24	3	4	0	0
2022	31	3	1	0	0
2023	37	5	3	0	0
2024	29	5	4	0	0

³⁸ Only lungs used for transplantation are included

³⁹ Single lung, double lung and heart-lung transplantations are all counted as 1

Finland

	Lungs transplanted	Import	Export	Import EOEO	Export EOEO
2015	24	2	5	0	0
2016	18	2	11	0	0
2017	24	4	10	0	0
2018	18	3	10	0	0
2019	27	2	11	0	0
2020	21	5	3	0	0
2021	24	5	6	0	0
2022	20	1	5	0	0
2023	28	4	1	0	0
2024	18	3	4	0	0

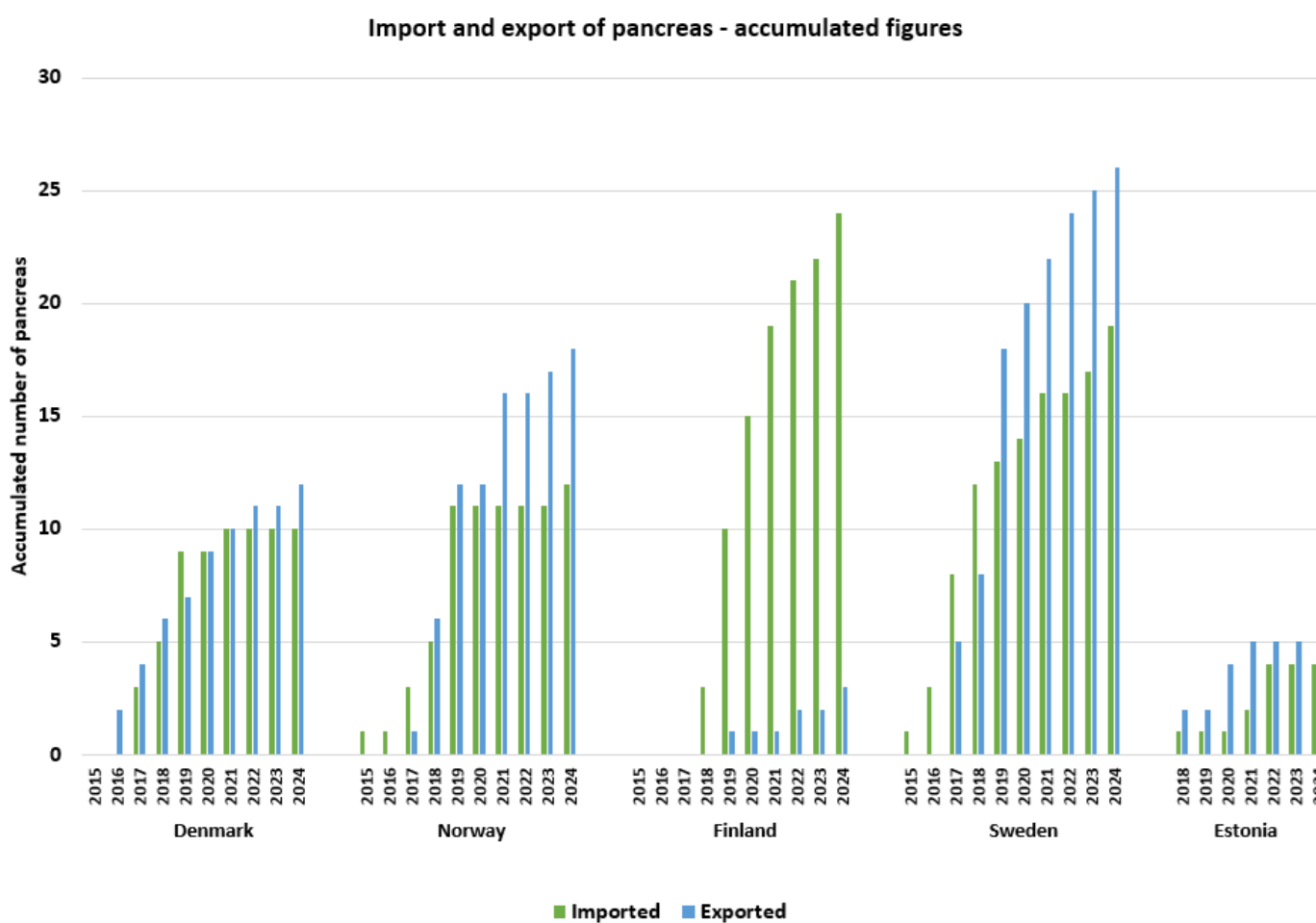
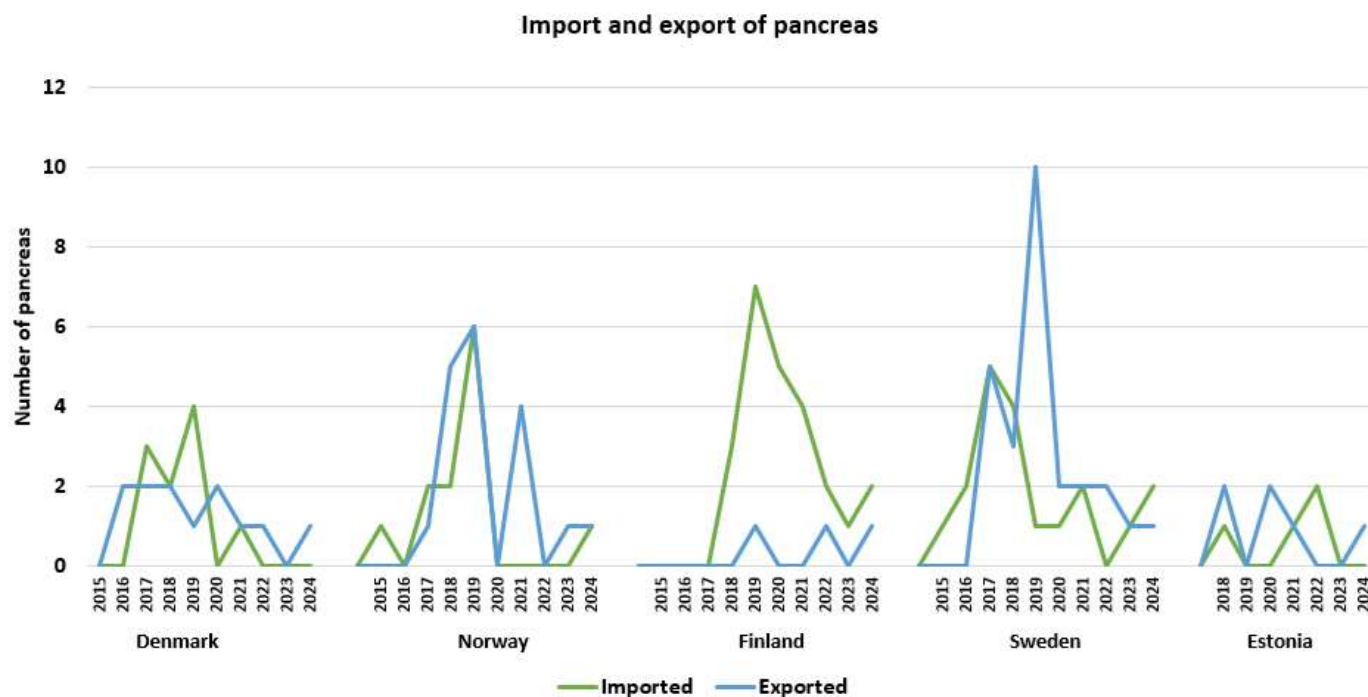
Sweden

	Lungs transplanted	Import	Export	Import EOEO	Export EOEO
2015	48	6	8	0	3
2016	62	13	10	0	4
2017	65	11	10	0	5
2018	74	13	6	0	4
2019	56	11	4	0	4
2020	51	8	5	0	2
2021	51	11	6	0	2
2022	50	4	3	0	0
2023	86	5	11	0	0
2024	58	8	10	0	4

Estonia

	Lungs transplanted	Import	Export	Import EOEO	Export EOEO
2018	4	2	7	0	0
2019	3	0	2	0	0
2020	0	0	6	0	0
2021	2	2	2	0	0
2022	3	1	2	0	0
2023	2	1	4	0	0
2024	2	1	5	0	0

Pancreas exported and imported between the Scandiatriplant countries^{40,41}



⁴⁰ Only pancreas used for whole pancreas transplantation are included

⁴¹ 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 imported⁴² between the Scandiatransplant countries in numbers
(including import and export to other EOEO's)**

Denmark

	Pancreas transplanted	Import	Export	Import EOEO	Export EOEO
2015	2	0	0	0	0
2016	7	0	2	0	0
2017	9	3	2	0	0
2018	5	2	2	0	0
2019	6	4	1	0	0
2020	7	0	2	0	0
2021	4	1	1	0	0
2022	3	0	1	0	0
2023	3	0	0	0	0
2024	1	0	1	0	0

Norway

	Pancreas transplanted	Import	Export	Import EOEO	Export EOEO
2015	31	1	0	2	0
2016	20	0	0	0	0
2017	24	2	1 ⁴³	0	0
2018	15	2	5	0	0
2019	15	6	6	0	0
2020	6	0	0	0	0
2021	5	0	4	0	0
2022	4	0	0	0	0
2023	4	0	1	0	0
2024	6	1	1	0	0

⁴² Only pancreas used for whole pancreas transplantation are included

⁴³ +1 for a Norwegian recipient transplanted in Sweden

Finland

	Pancreas transplanted	Import	Export	Import EOEO	Export EOEO
2015	17	0	0	0	0
2016	27	0	0	0	0
2017	21	0	0	0	0
2018	23	3	0	0	0
2019	39	7	1	0	0
2020	26	5	0	0	0
2021	31	4	0	0	0
2022	20	2	1	0	0
2023	28	1	0	0	0
2024	22	2	1	0	0

Sweden

	Pancreas transplanted	Import	Export	Import EOEO	Export EOEO
2015	30	1	0	0	0
2016	24	2	0	1	0
2017	25	3	5	0	0
2018	18	4	3	0	0
2019	23	1	10	0	0
2020	13	1	2	0	0
2021	13	2	2	0	0
2022	18	0	2	0	0
2023	23	1	1	0	0
2024	17	2	1	0	0

Estonia

	Pancreas transplanted	Import	Export	Import EOEO	Export EOEO
2017	1	0	0	0	0
2018	2	1	2	0	0
2019	2	0	0	0	0
2020	6	0	2	0	0
2021	1	1	1	0	0
2022	4	2	0	0	0
2023	4	0	0	0	0
2024	0	0	1	0	0

Intestine exported and imported⁴⁴ between the Scandiatransplant countries and other EOEO's

	Import/export	Import/export EOEO
2015	0	0
2016	1 from Denmark to Sweden	0
2017	1 from Norway to Sweden (Norwegian recipient)	0
2018	1 from Denmark to Sweden	0
2019	0	0
2020	0	0
2021	0	0
2022	0	0
2023	0	0
2024	0	0

⁴⁴ Only intestine used for transplantation is included

SAEs and SARs reported through the Scandiatransplant system in 2024.

Between January 1st and December 31st, 2024, there has been 18 SAE/SARs reported through the Scandiatransplant IT-system.

For context, the number of reports in recent years; In 2018 there were 15 reports, in 2019 12 reports, in 2020 5 reports, in 2021 13 reports, in 2022 12 reports and in 2023 7 reports.

In 2024 there were 7 reported from Sweden, 5 from Denmark, 4 from Finland, one from Norway, and one from the Scandiatransplant Office.

The tables below give a short summary of each reported SAE/SAR.

An * indicates another country involved. OIC = Other involved country.

Reports from transplantation centers in Sweden

ID	Center	OIC	Short description of SAE/SAR
1219	Skåne		LifePort perfusion machine indicated “too hot” for 1 hour (8,6°C). No effect on the outcome of transplanted kidney.
1220	Skåne*	DK	Lower polar artery cut too short. Vessel reconstruction.
1222	Gothenburg*	F	Wrong height/weight of lung donor given. Used on intended recipient with no effect on the outcome
1224	Gothenburg *	N	Recipient dies of TB 10 months after receiving a liver from a donor, who recently came from a “high risk” country. Centers receiving the other organs contacted, so prophylactic treatment could be initiated.
1228	Stockholm*	N	Right liver artery divided before perfusion and intended recipient for right lobe split liver was awakened from anesthesia without being transplanted.
1229	Stockholm		Liver arterial branch divided during donor operation. Reconstruction needed. Post operative bile leakage, but there was a complete recovery.
1236	Gothenburg*	F	Received only one “organ form” for liver, none for received kidney.

Reports from transplantation centers in Denmark

ID	Center	OIC	Short description of SAE/SAR
1223	Copenhagen		Perforation of colon one week after living kidney donation.
1226	Copenhagen		Living kidney donor developed peripheral pulmonary embolism 1 month after donation. Treated with anticoagulation.
1227	Copenhagen		Urinary retention after living donor kidney donation treated with catheter for 2 weeks.
1234	Copenhagen*	N	Low grade papillary carcinoma found in kidney 1½ month after transplantation. Relevant center informed.
1235	Copenhagen		Kidney not offered priority 1 (STAMP) patient, due to misjudgment by the physician on duty. Kidney used for another patient.

Reports from transplantation center in Finland

ID	Center	OIC	Short description of SAE/SAR
1217	Helsinki*	DK	Typing error on "birth date" on kidney "organ form"
1218	Helsinki*	S	Liver sent without Iliac artery and vein. Retrieved from local donor.
1221	Helsinki*	DK	Confusion on flight information and labeling error.
1230	Helsinki		Kidney from DCD donor packed in jars contrary to DCD protocol

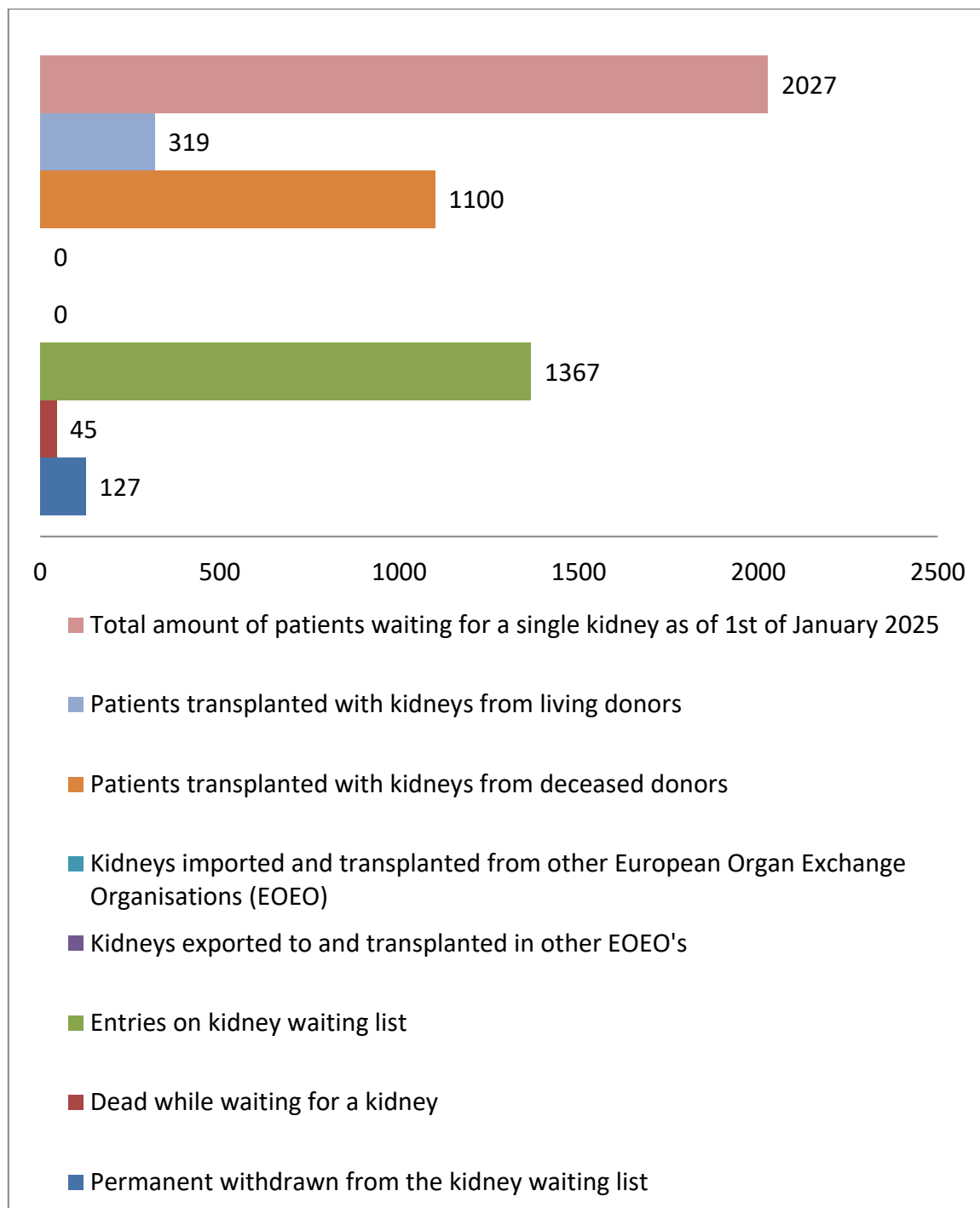
Report from transplantation center in Norway

ID	Center	OIC	Short description of SAE/SAR
1225	Oslo*	DK	Donor origin glioblastoma metastasis in liver 2½ years after transplantation. Both kidney recipients from same donor alive with functioning grafts at this time according to SCTP IT-system.

Report from Scandiatransplant Office

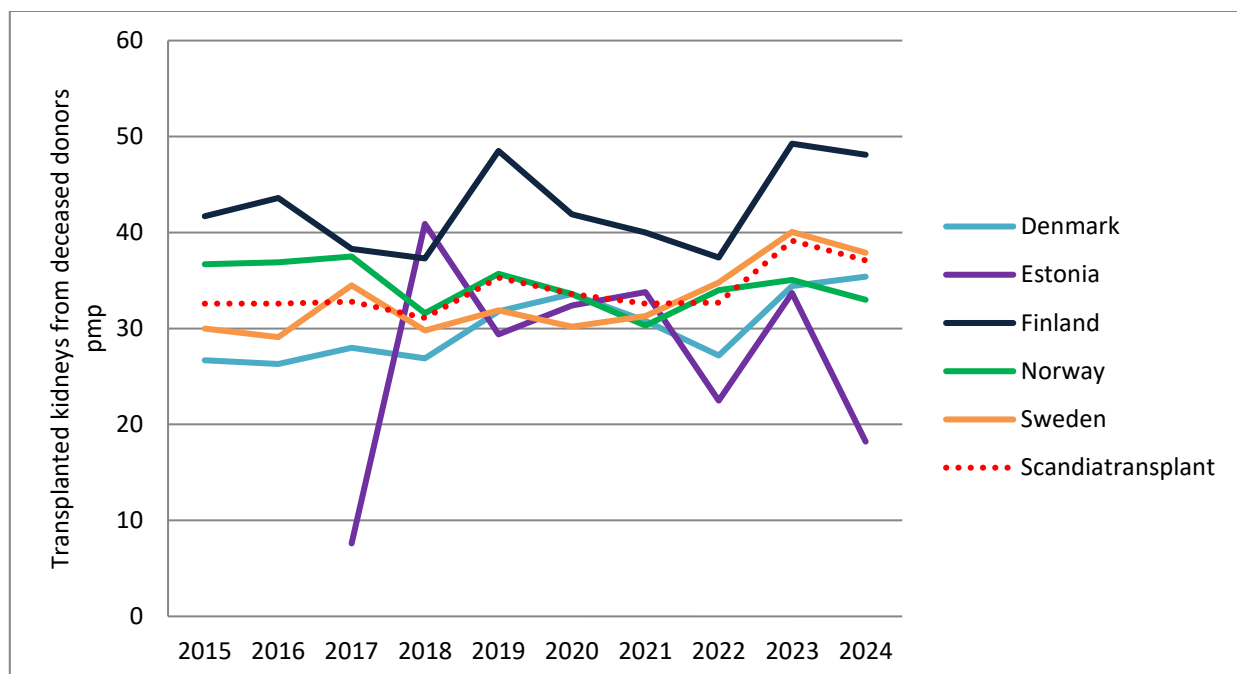
ID		OIC	Short description of SAE/SAR
1233	Scandiatransplant Office*	F, S, DK, N	Programming error during update of SCTPT IT-system. Organ offer form on surplus heart not sent out. Error corrected and coordinators to be informed about using telephone, when the IT-system fails.

Kidneys 2024



Transplanted kidneys pmp⁴⁵ from deceased donors per year

Year	Denmark	Estonia	Finland	Norway	Sweden	Scandiatransplant
2015	26,7		41,7	36,7	30,0	32,6
2016	26,3		43,6	36,9	29,1	32,6
2017	28,0	7,6 ⁴⁶	38,3	37,5	34,5	32,8
2018	26,9	40,9	37,3	31,6	29,8	31,1
2019	31,8	29,4	48,5	35,7	31,9	35,3
2020	33,6	32,4	41,9	33,6	30,2	33,6
2021	30,8	33,8	40,0	30,3	31,3	32,6
2022	27,2	22,5	37,4	34,0	34,8	32,7
2023	34,4	33,7	49,26	35,1	40,1	39,2
2024	35,4	18,2	48,1	33,0	37,9	37,1



⁴⁵ pmp: per million population

⁴⁶ Figures included from Estonia year 2017 starts from October 1st 2017, which has negative impact on PMP for Estonia and Scandiatransplant this year

Transplanted kidneys pmp⁴⁷ from DBD donors per year

Year	Denmark	Estonia	Finland	Norway	Sweden	Scandiatransplant
2015	26,7	21,3	41,7	34,8	30,0	32,3
2016	26,3	14,8	43,6	36,1	29,1	32,5
2017	28,0	7,6	38,3	37,5	34,5	32,3
2018	26,9	40,9	37,3	31,6	28,1	30,9
2019	31,8	29,4	48,5	35,7	31,3	35,1
2020	33,6	32,4	41,9	33,6	28,0	32,8
2021	30,6	33,8	38,8	30,3	26,7	30,6
2022	26,5	22,5	33,8	32,3	26,9	28,8
2023	32,4	33,0	42,1	29,3	29,2	32,4
2024	26,4	18,2	37,3	29,0	27,9	28,8

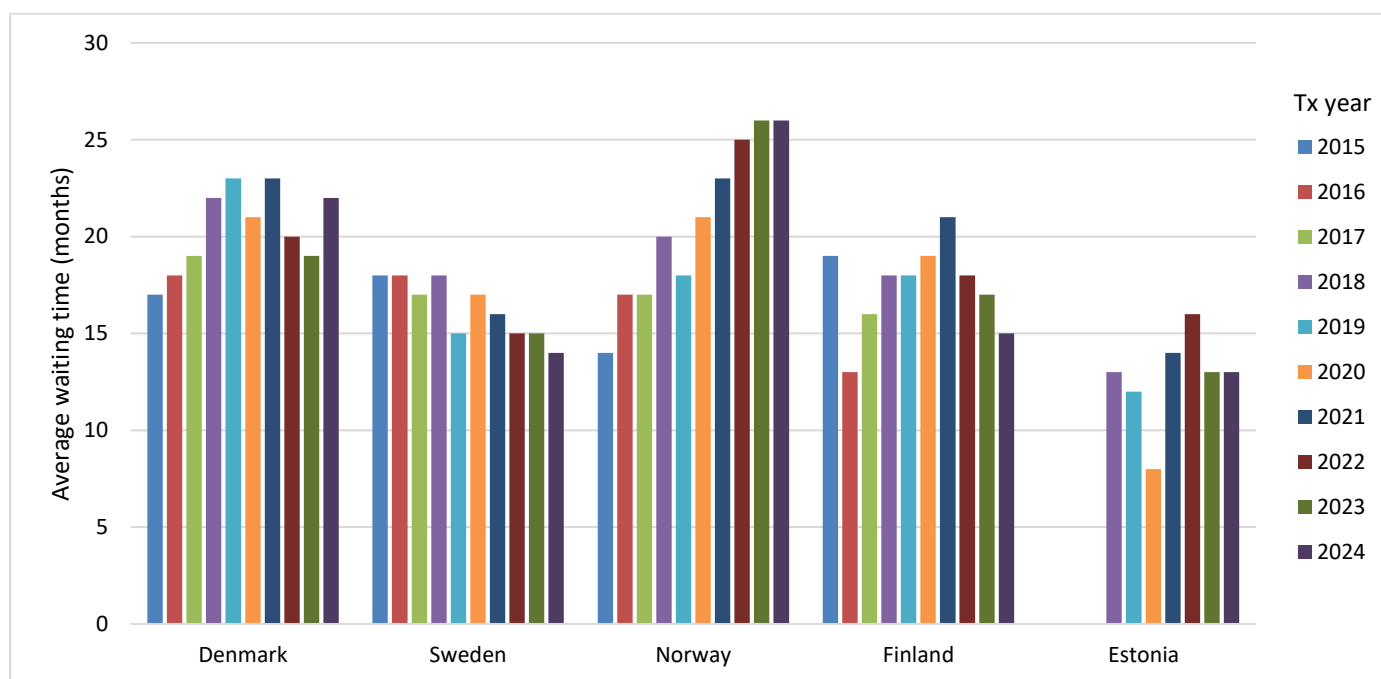
Transplanted kidneys pmp⁴⁸ from cDCD donors per year

Year	Denmark	Estonia	Finland	Norway	Sweden	Scandiatransplant
2015	0	0	0	1,9	0	0,4
2016	0	0	0	0,8	0	0,1
2017	0	0	0	2,7	0	0,5
2018	0	0	0	0	1,7	0,6
2019	0	0	0	0	0,6	0,2
2020	0	0	0	0	2,2	0,8
2021	0,2	0	1,6	0	4,6	2,0
2022	0,7	0	3,4	1,6	7,9	4,0
2023	2,0	0,7	7,1	5,8	10,9	6,8
2024	9,0	0	10,8	3,9	10,0	8,2

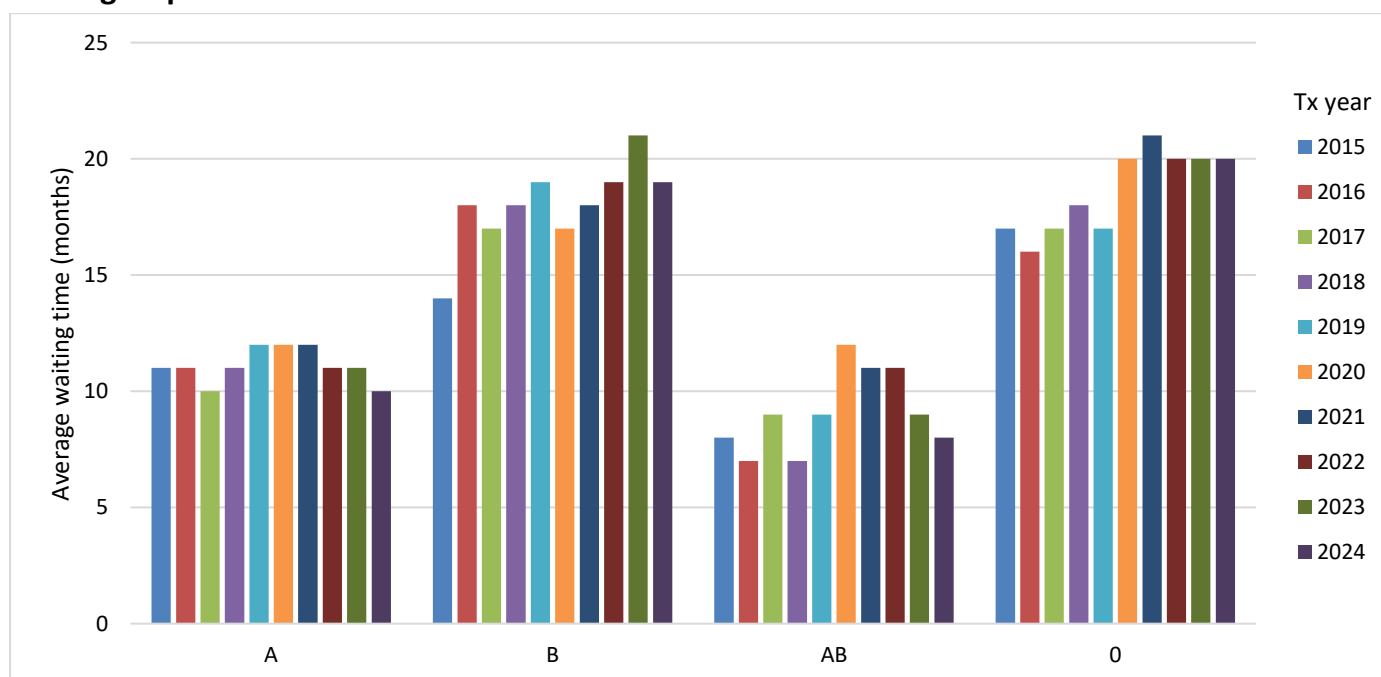
⁴⁷ pmp: per million population

⁴⁸ pmp: per million population

Average waiting time on the waiting list until transplantation with deceased donor kidney^{49,50}



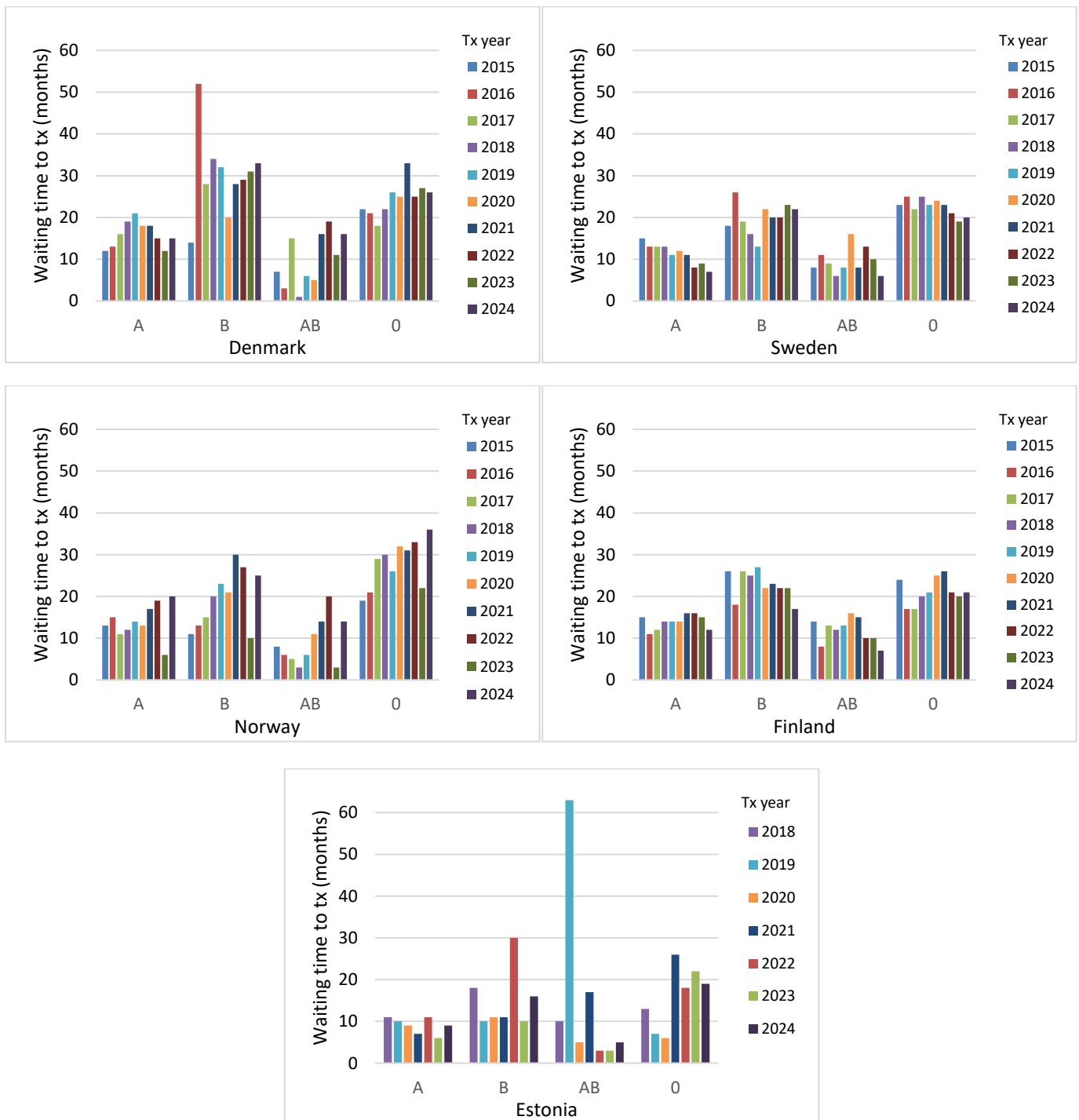
Average waiting time on the waiting list until transplantation with deceased donor kidney by blood group



⁴⁹ Icelandic patients are counted as part of Sweden.

⁵⁰ Combined kidney-pancreas, liver-kidney and other combinations are included. Waiting time includes both active and on hold waiting time.

Average waiting time on the waiting list until transplantation with deceased donor kidney by blood group for each country^{51,52}

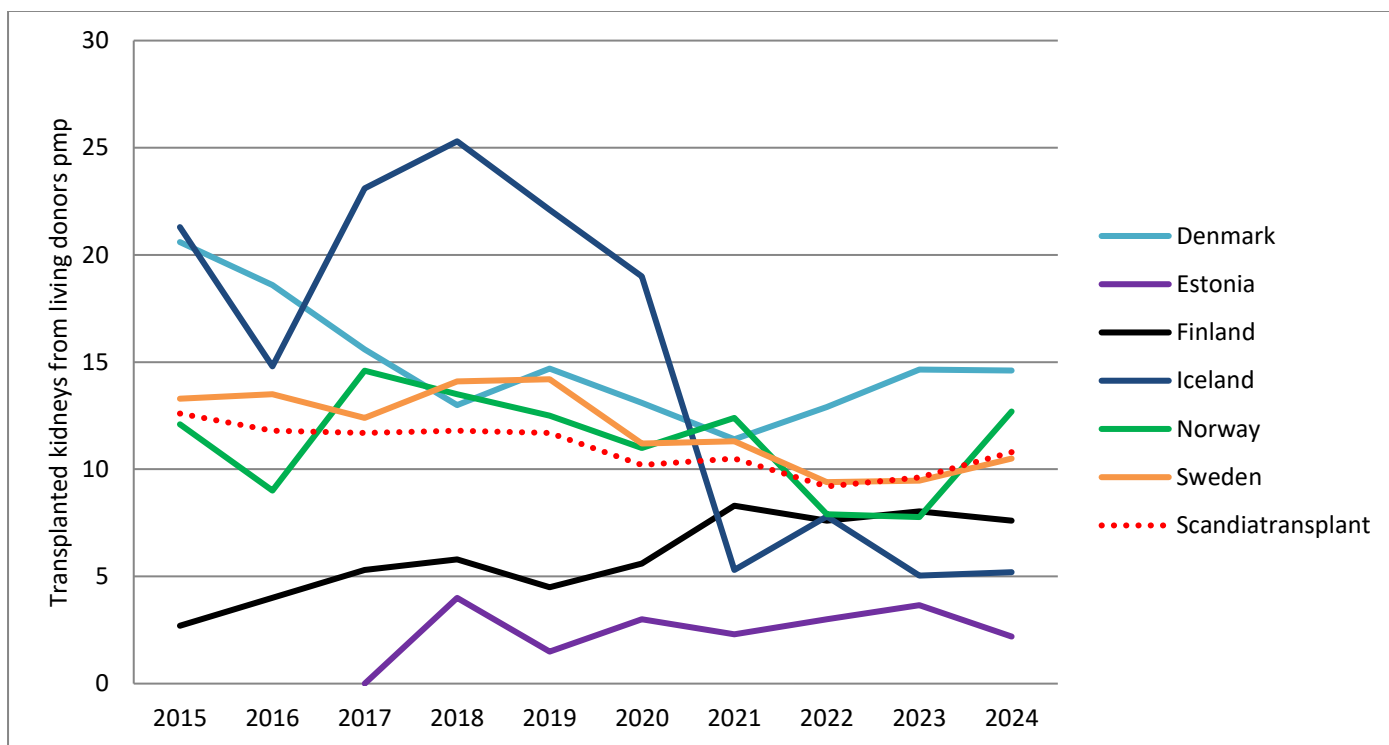


⁵¹ Icelandic patients are counted as part of Sweden

⁵² Combined kidney-pancreas, liver-kidney and other combinations are included. Waiting time includes both active and on hold waiting time.

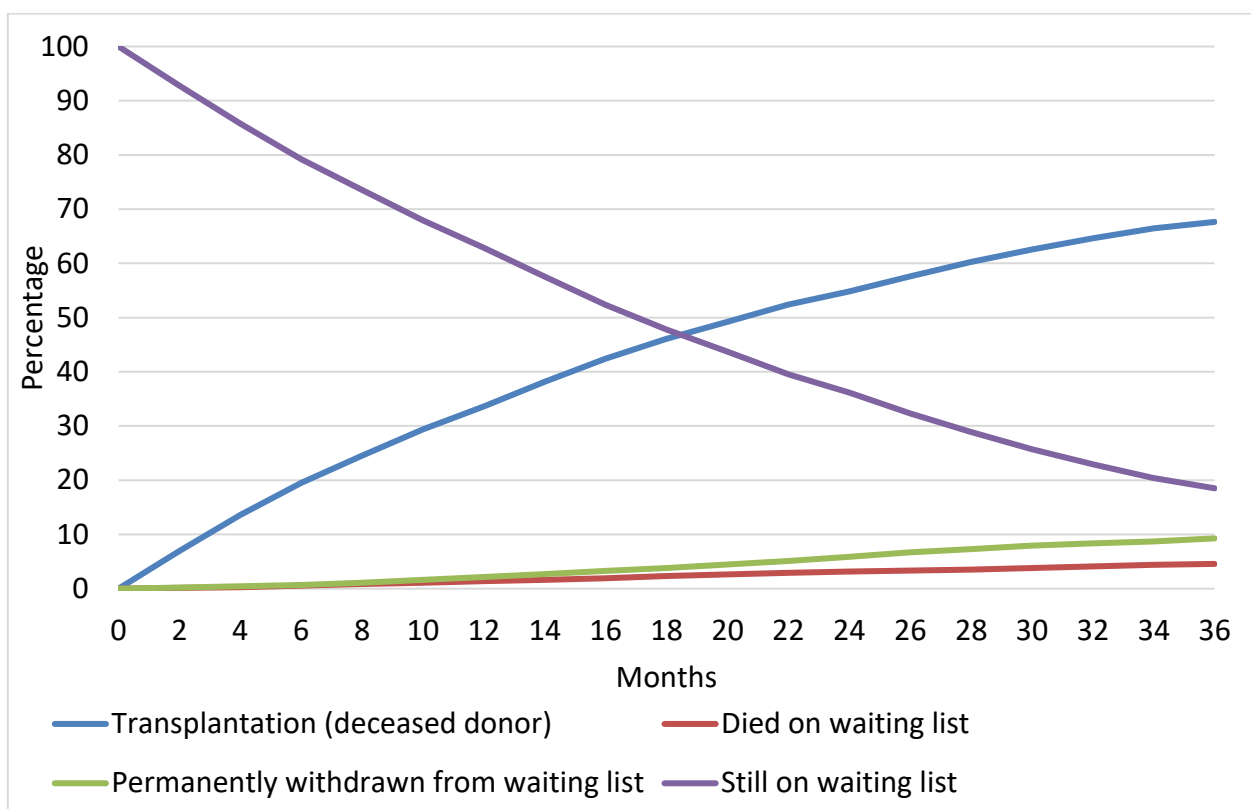
Transplanted kidneys pmp⁵³ from living donors per year

Year	Denmark	Estonia	Finland	Iceland	Norway	Sweden	Scandiatransplant
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
2017	15,6		5,3	23,1	14,6	12,4	11,7
2018	13,0	3,0	5,8	25,3	13,5	14,1	11,8
2019	14,7	1,5	4,5	22,1	12,5	14,2	11,7
2020	13,1	3,0	5,6	19,0	11,0	11,2	10,2
2021	11,4	2,3	8,3	5,3	11,3	12,4	10,5
2022	12,9	3,0	7,6	7,8	7,9	9,4	9,2
2023	14,7	3,7	8,0	5,0	7,8	9,5	9,6
2024	14,6	2,2	7,6	5,2	12,7	10,5	10,8



⁵³ pmp: per million population

Kidney waiting list registrations 2016-2020 - 3-year outcome^{54,55,56,57,58}



Outcome	After 1 year	After 2 years	After 3 years
Transplanted (deceased donor)	34 %	55 %	68 %
Died on the waiting list	1 %	3 %	5 %
Permanently withdrawn from the waiting list	2 %	6 %	9 %
Still on the waiting list	63 %	36 %	18 %

⁵⁴ Combined kidney+liver and kidney+pancreas waiting list registrations are not included.

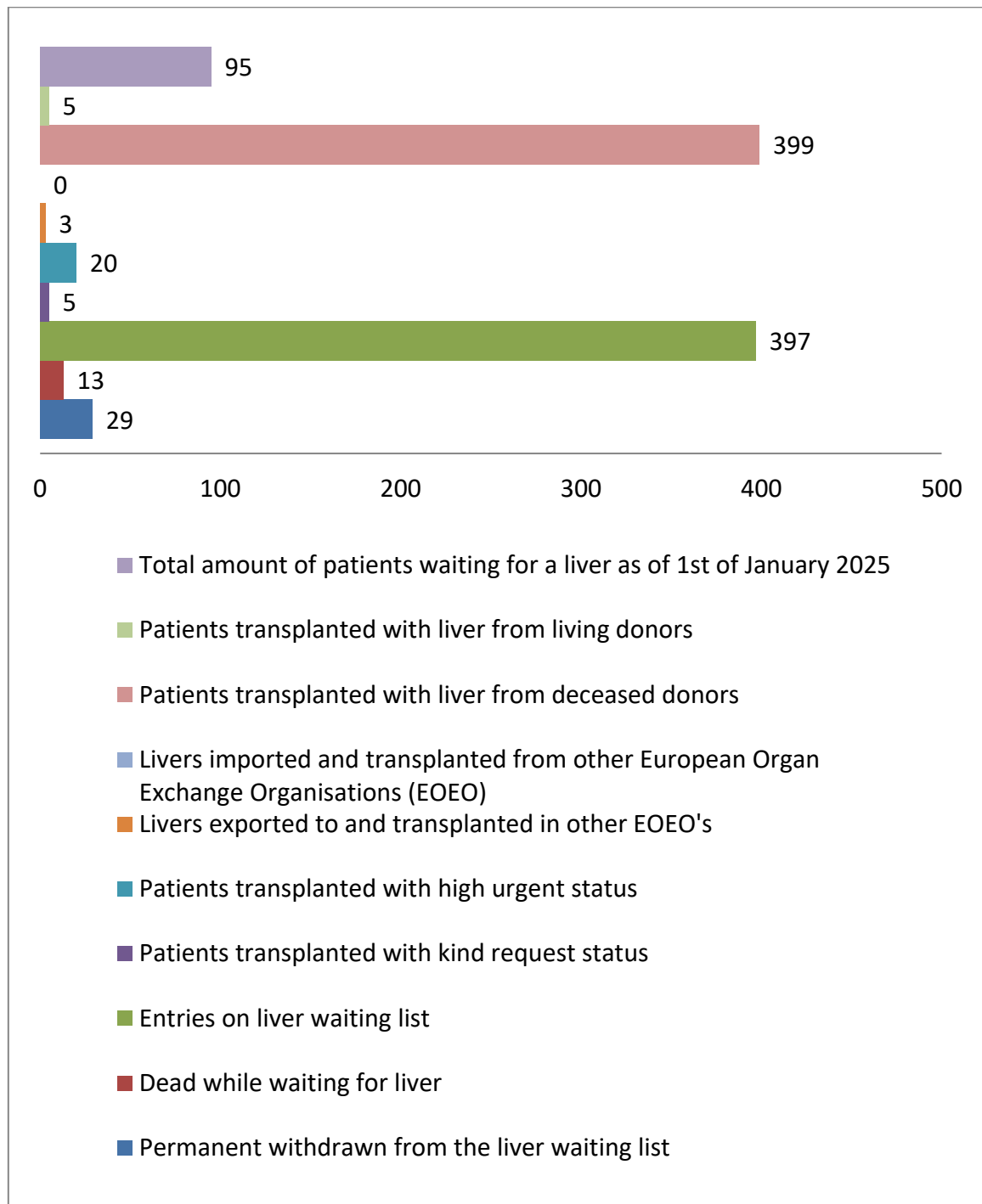
⁵⁵ Died on WL includes recipients with a death date before date of permanent withdrawal and a death date within two weeks of the date of permanent withdrawal.

⁵⁶ Recipients transplanted with a living donor kidney are not included as the registration protocols varies across the different countries of ScandiTransplant.

⁵⁷ The period 2016-2020 is chosen because up-to-date survival data is only available as of 31/12-2023.

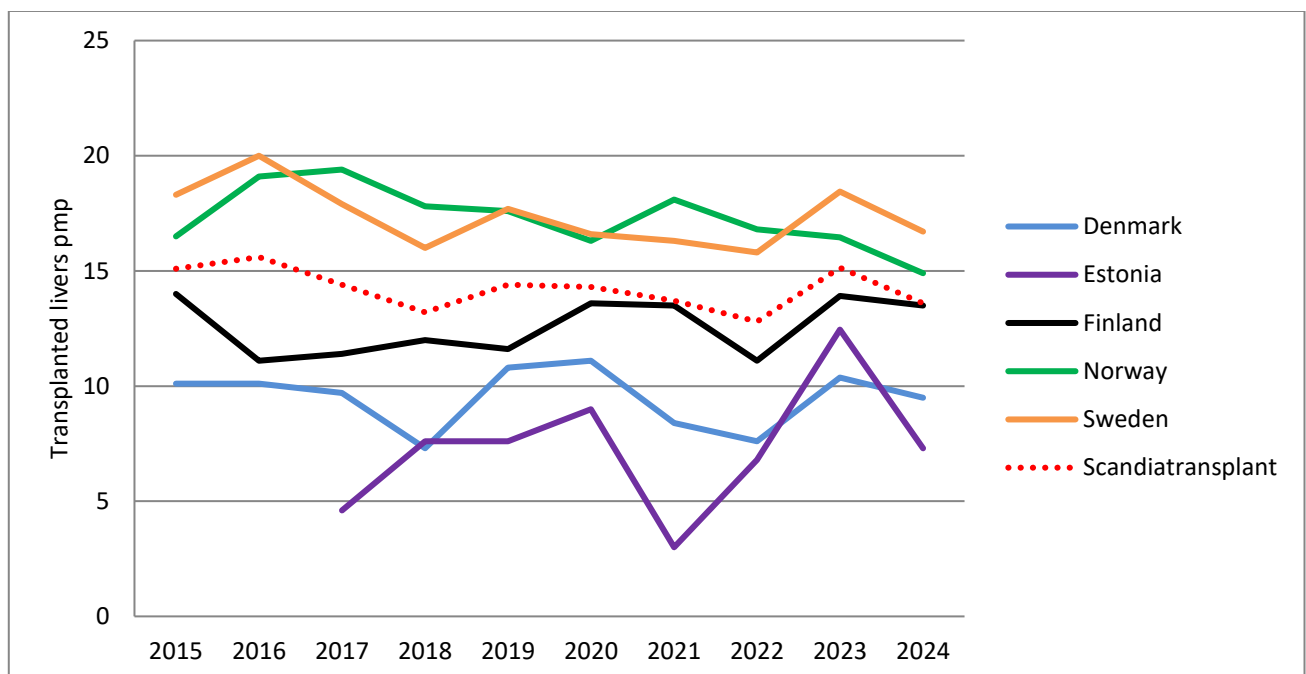
⁵⁸ Only recipients waiting for their first transplantation are included.

Livers 2024



Transplanted livers (Deceased and living donors) pmp⁵⁹ per year

Year	Denmark	Estonia	Finland	Norway	Sweden	Scandiatransplant
2015	10,1		14,0	16,5	18,3	15,1
2016	10,1		11,1	19,1	20,0	15,6
2017	9,7	4,6 ⁶⁰	11,4	19,4	17,9	14,4
2018	7,3	7,6	12,0	17,8	16,0	13,2
2019	10,8	7,6	11,6	17,6	17,7	14,4
2020	11,1	9,0	13,6	16,3	16,5	14,3
2021	8,4	3,0	13,5	18,1	16,3	13,7
2022	7,6	6,8	11,1	16,8	15,8	12,8
2023	10,4	12,5	13,9	16,6	18,8	15,2
2024	9,5	7,3	13,5	14,9	16,7	13,6

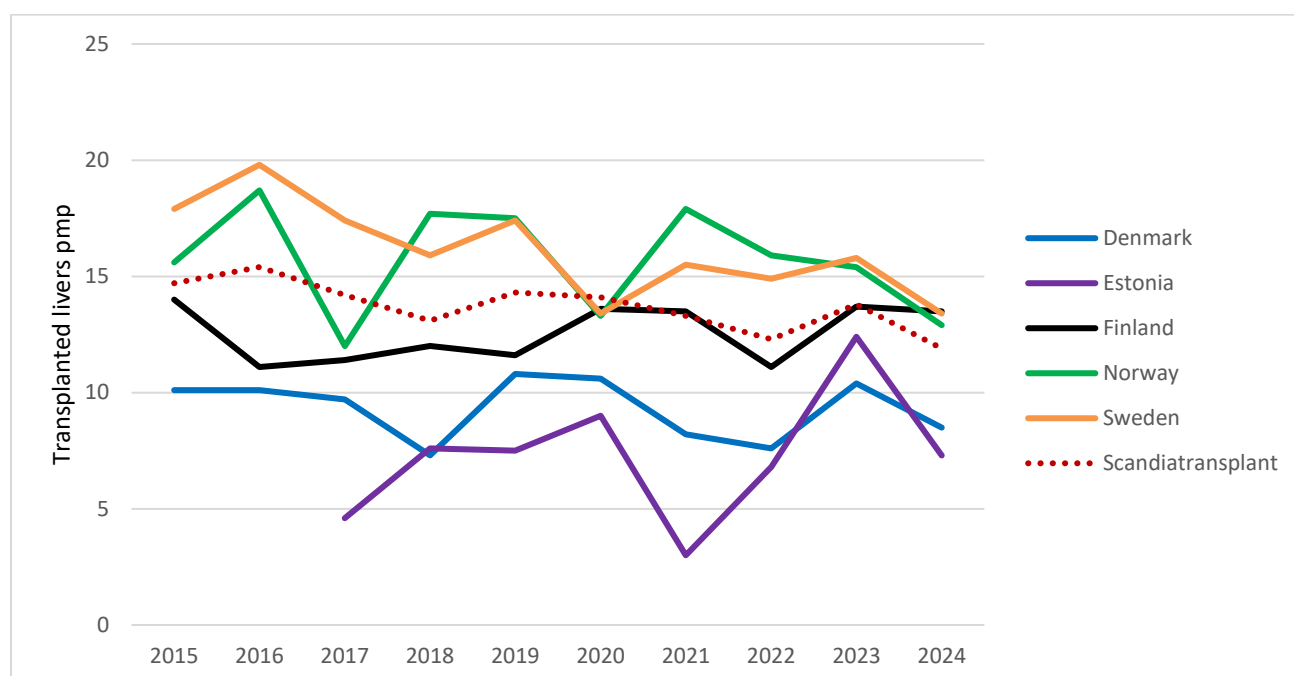


⁵⁹ pmp: per million population

⁶⁰ Figures included from Estonia year 2017 starts from October 1st 2017, which has negative impact on PMP for Estonia and Scandiatransplant

Transplanted livers pmp⁶¹ from DBD donors per year

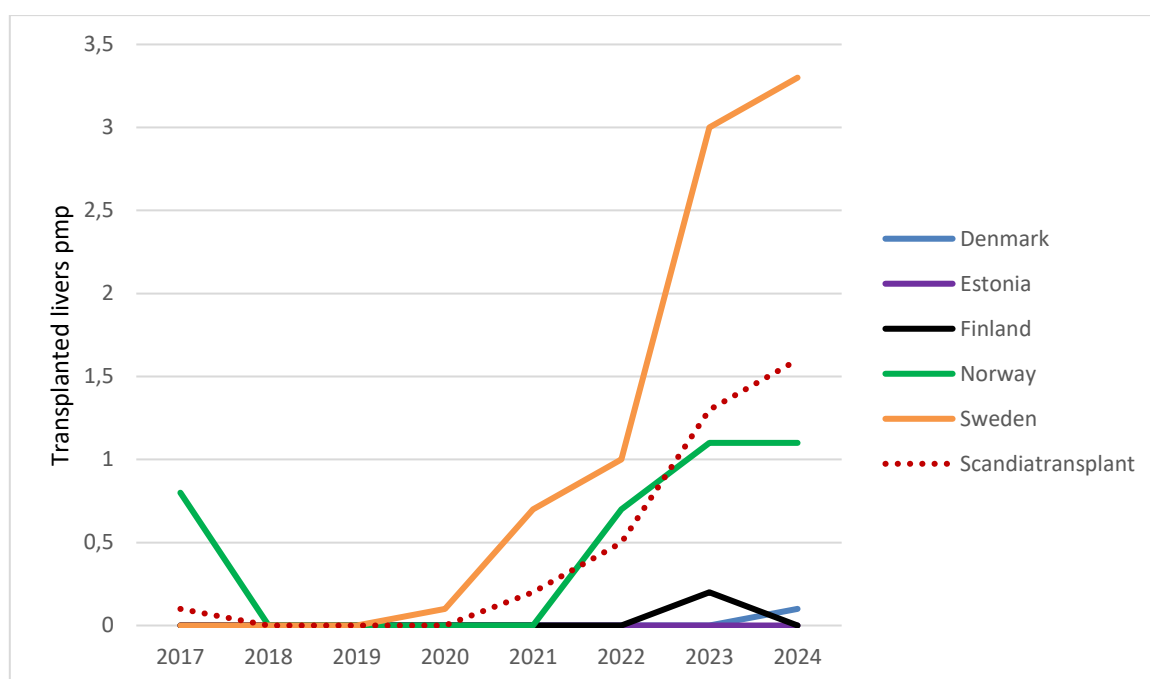
Year	Denmark	Estonia	Finland	Norway	Sweden	Scandiatransplant
2015	10,1		14,0	15,6	17,9	14,7
2016	10,1		11,1	18,7	19,8	15,4
2017	9,7	4,6	11,4	12,0	17,4	14,2
2018	7,3	7,6	12,0	17,7	15,9	13,1
2019	10,8	7,5	11,6	17,5	17,4	14,3
2020	10,6	9,0	13,6	13,3	13,4	14,1
2021	8,2	3,0	13,5	17,9	15,5	13,3
2022	7,6	6,8	11,1	15,9	14,9	12,3
2023	10,4	12,5	13,7	15,4	15,8	13,9
2024	8,5	7,3	13,5	12,9	13,4	11,9



⁶¹ pmp: per million population

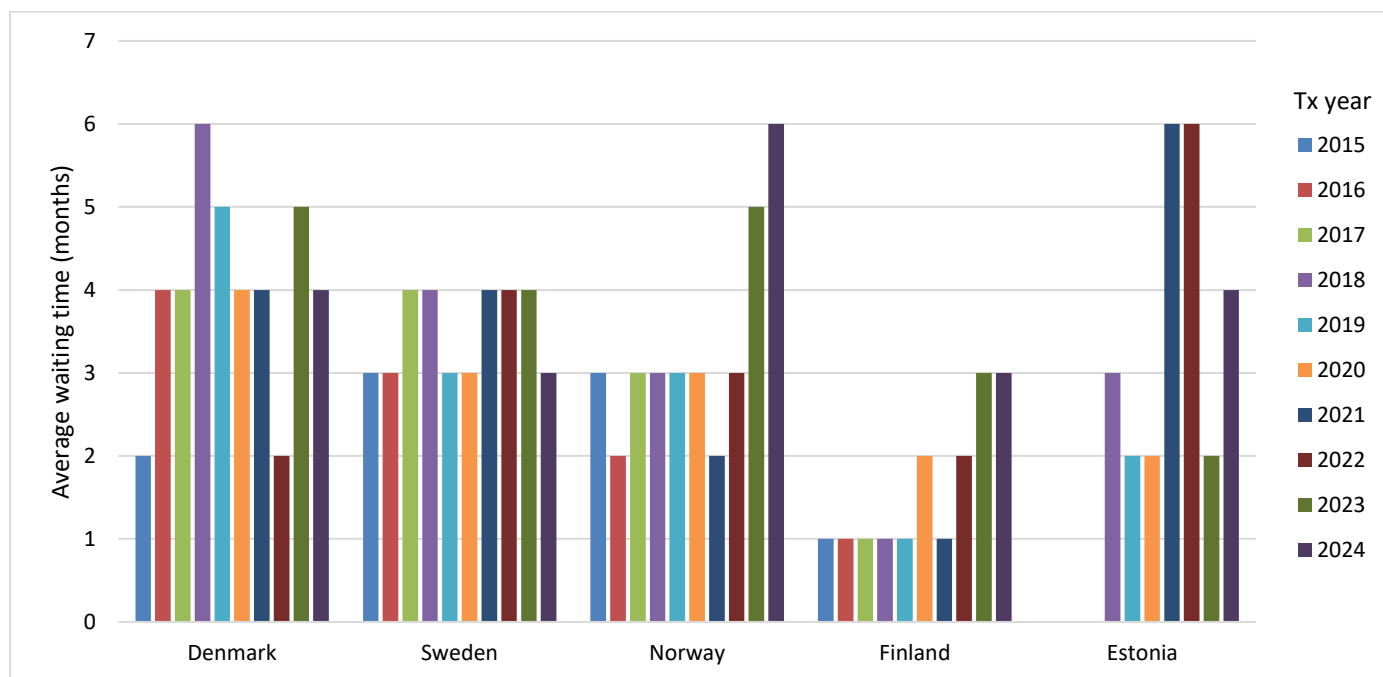
Transplanted livers pmp⁶² from cDCD donors per year

Year	Denmark	Estonia	Finland	Norway	Sweden	Scandiatransplant
2017	0	0	0	0,8	0	0,1
2018	0	0	0	0	0	0
2019	0	0	0	0	0	0
2020	0	0	0	0	0,1	0
2021	0	0	0	0	0,7	0,2
2022	0	0	0	0,7	1,0	0,5
2023	0	0	0,2	1,1	3,0	1,3
2024	0,1	0	0	1,1	3,3	1,6

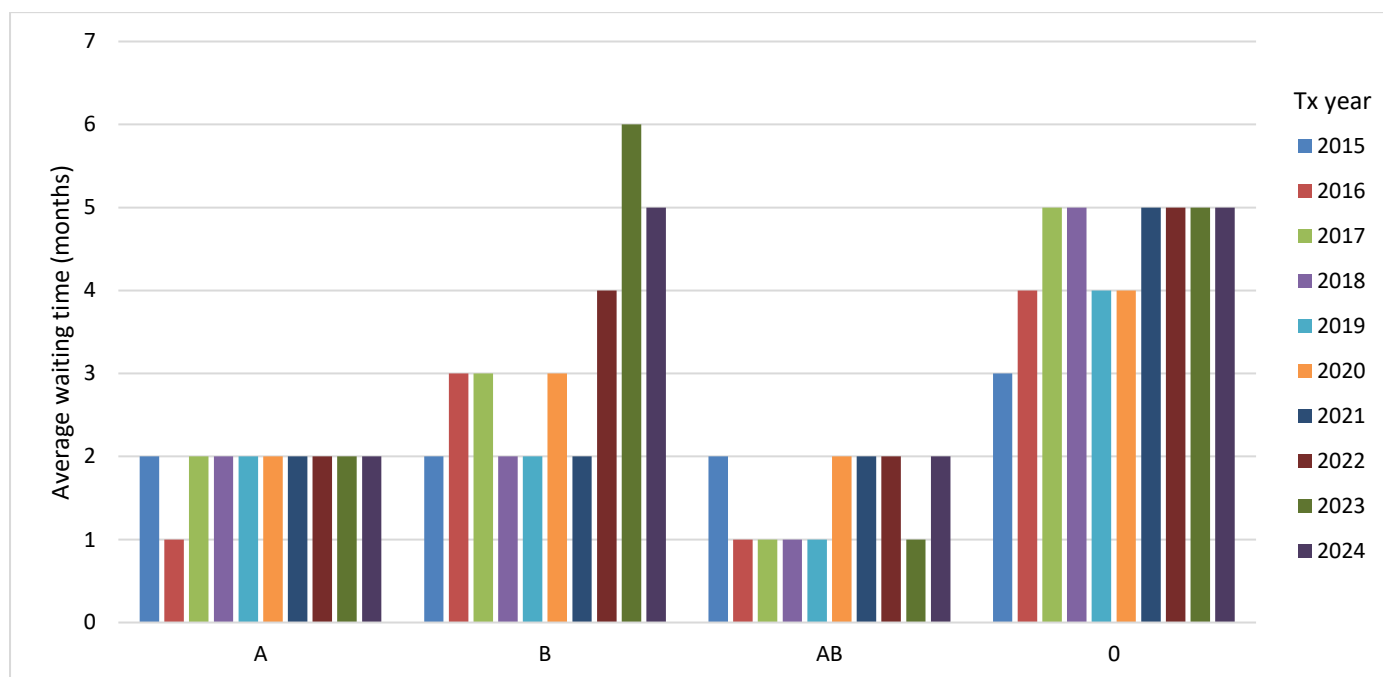


⁶² pmp: per million population

Average waiting time on the waiting list until transplantation with deceased donor liver⁶³

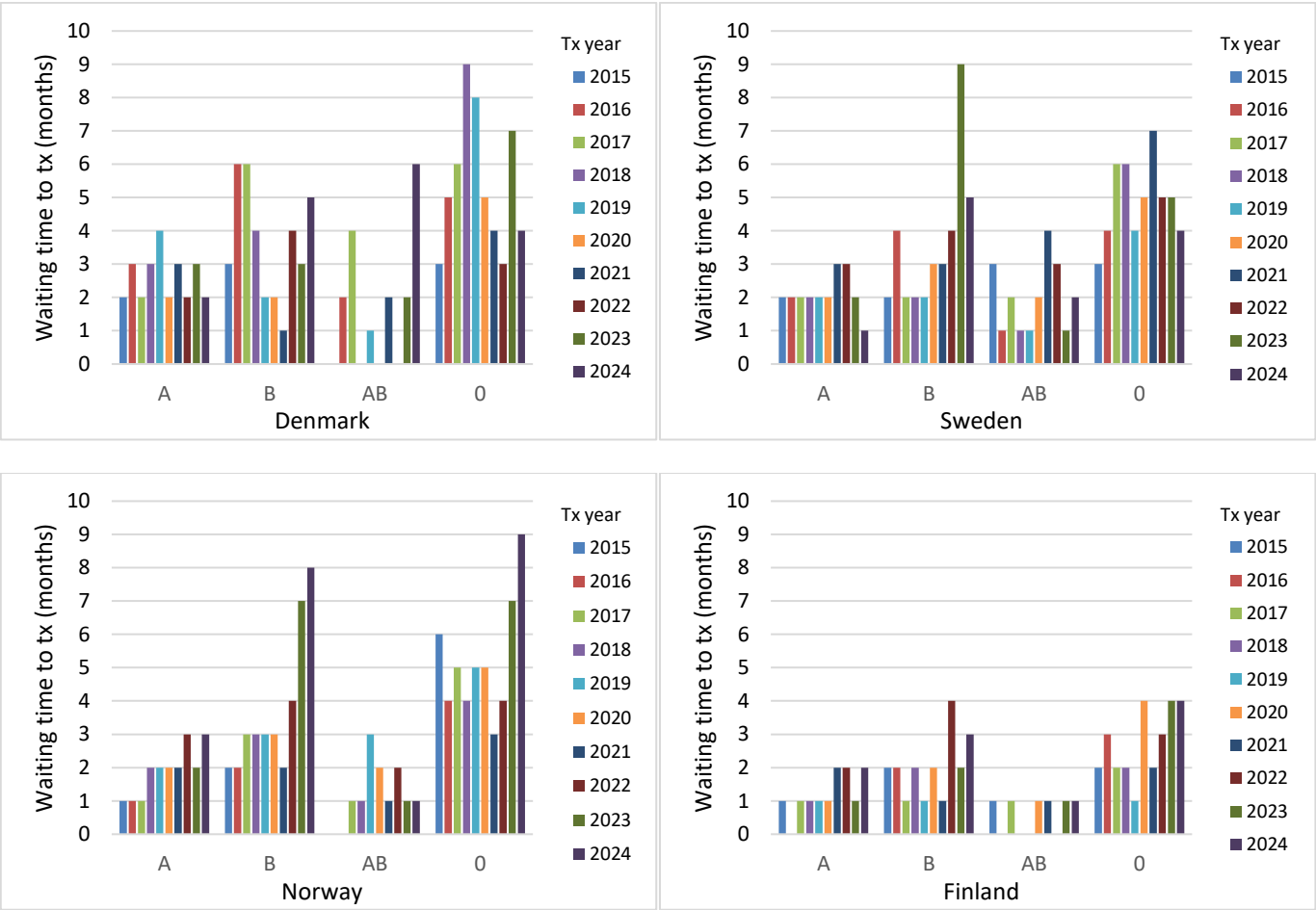


Average waiting time on the waiting list until transplantation with deceased donor liver by blood group



⁶³ Icelandic patients are counted as part of Sweden.

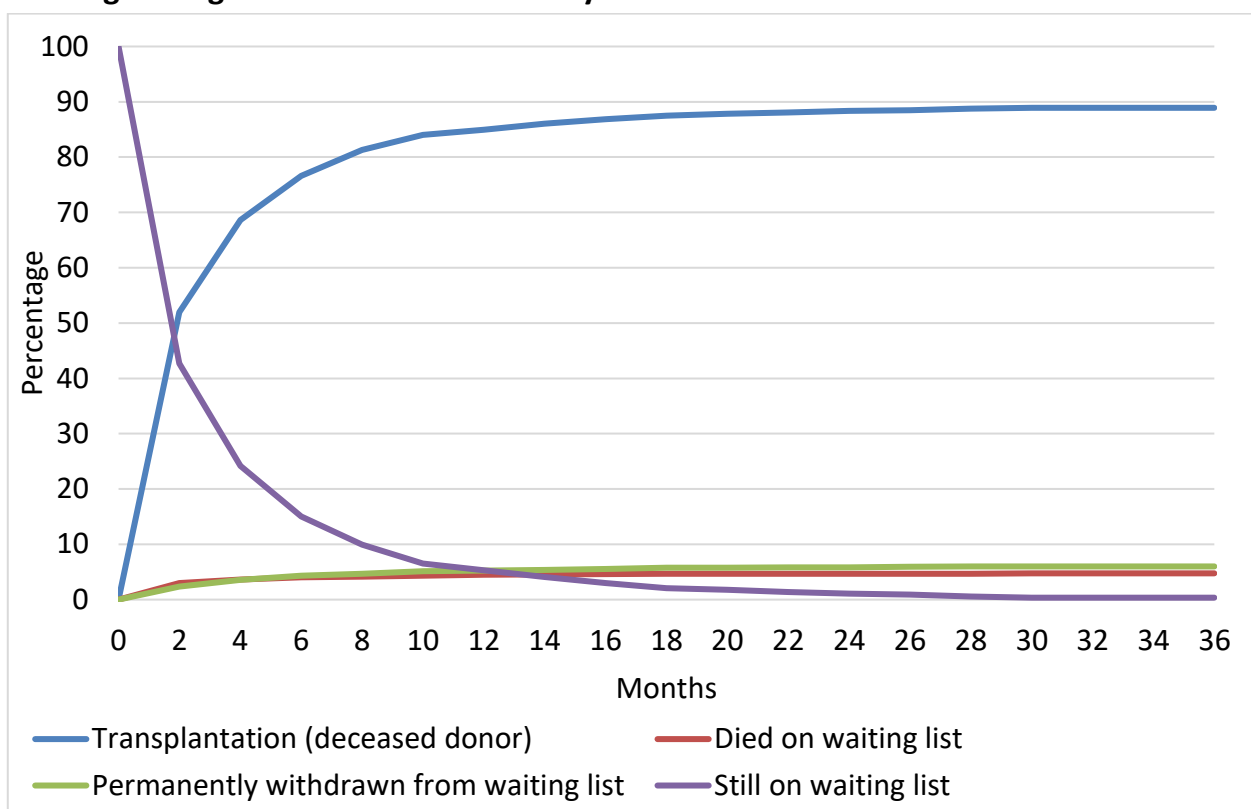
Average waiting time on the waiting list until transplantation with deceased donor liver by blood group for each country^{64,65}



⁶⁴ Icelandic patients are counted as part of Sweden

⁶⁵ Estonia is not included in these tables as they have too few liver transplantations to split into blood groups.

Liver waiting list registrations 2016-2020 – 3-year outcome^{66,67,68, 69,70}



Outcome	After 1 year	After 2 years	After 3 years
Transplanted (deceased donor)	85 %	88 %	89 %
Died on the waiting list	5 %	5 %	5 %
Permanently withdrawn from the waiting list	5 %	6 %	6 %
Still on the waiting list	5 %	1 %	0 % ⁷¹

⁶⁶ Combined kidney+liver waiting list registrations are not included.

⁶⁷ Died on WL includes recipients with a death date before date of permanent withdrawal and a death date within two weeks of the date of permanent withdrawal.

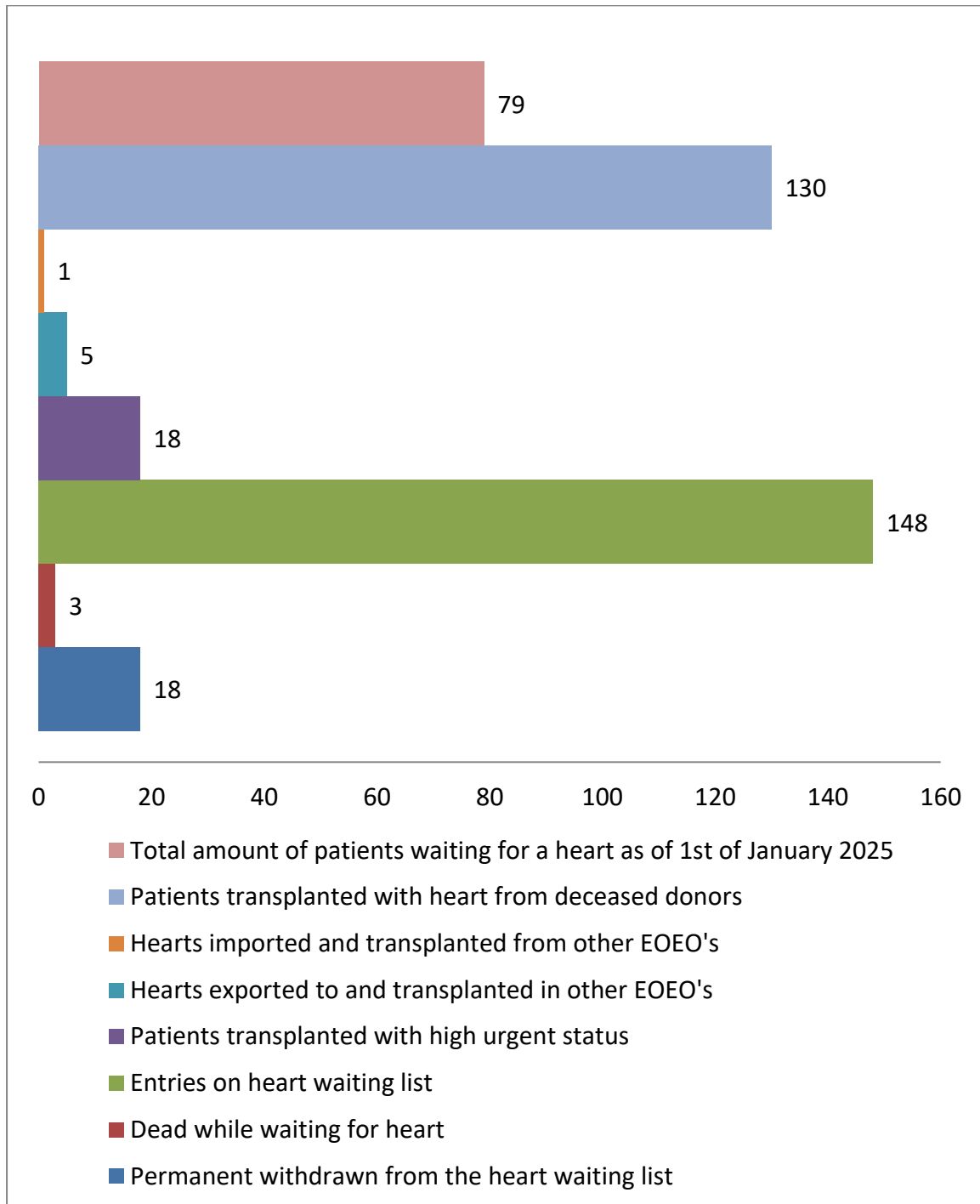
⁶⁸ Recipients transplanted with a living donor liver are not included as the registration protocols varies across the different countries of ScandiTransplant.

⁶⁹ The period 2016-2020 is chosen because up-to-date survival data is only available as of 31/12-2023.

⁷⁰ Only recipients waiting for their first transplantation are included.

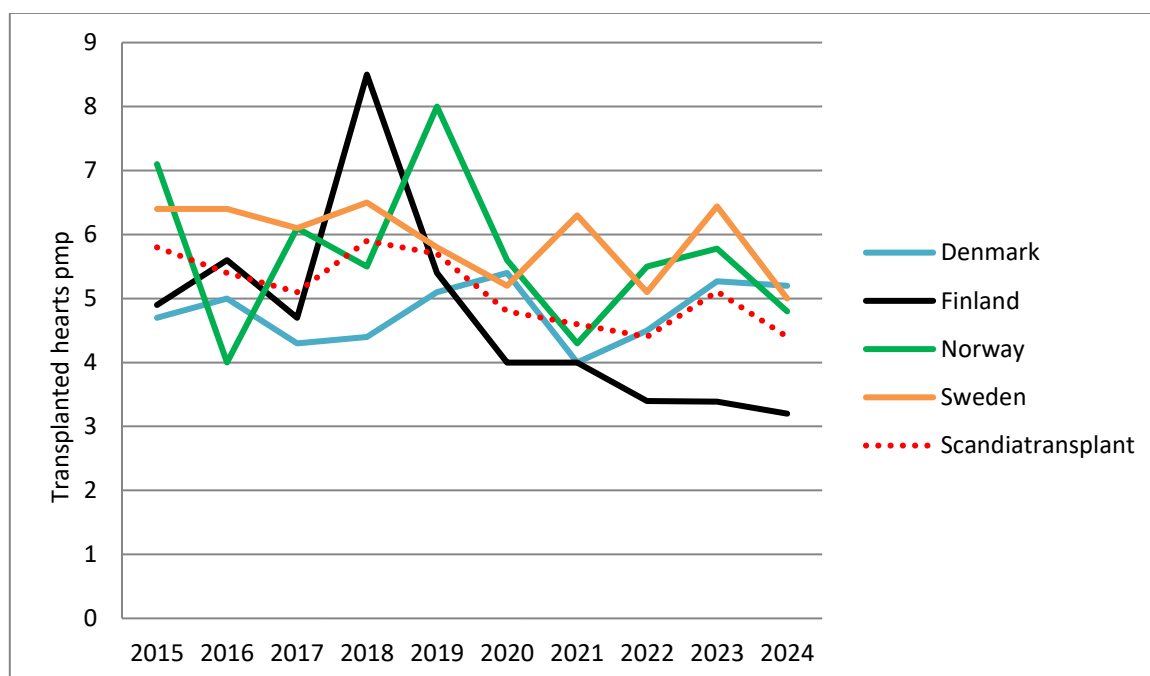
⁷¹ This value has been rounded from 0,35 to comply with the table's standards.

Hearts 2024



Transplanted hearts pmp⁷² per year⁷³

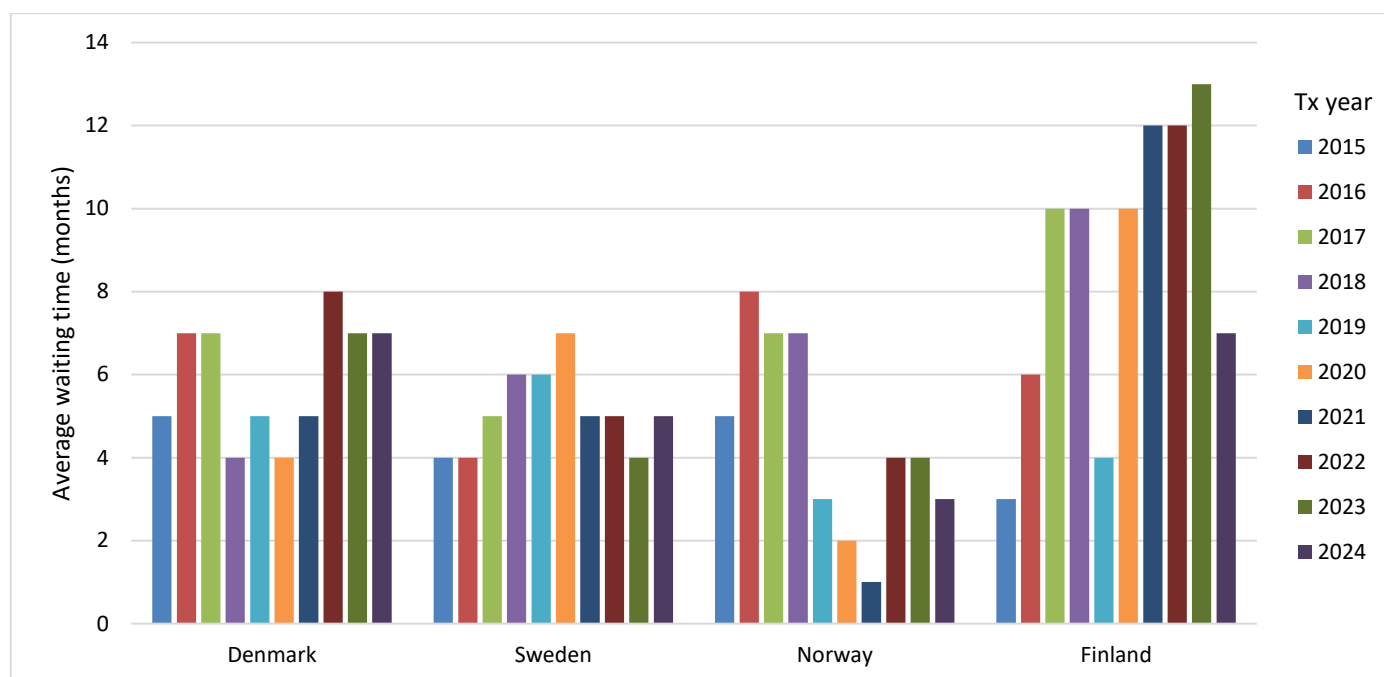
Year	Denmark	Finland	Norway	Sweden	Scandiatransplant
2015	4,7	4,9	7,1	6,4	5,8
2016	5,0	5,6	4,0	6,4	5,4
2017	4,3	4,7	6,1	6,1	5,1
2018	4,4	8,5	5,5	6,5	5,9
2019	5,1	5,4	8,0	5,2	4,8
2020	4,0	4,0	4,3	6,3	4,6
2021	4,5	3,4	5,5	5,1	4,4
2022	5,3	3,4	5,8	6,4	5,1
2023	5,2	3,2	4,8	5,0	4,4
2024					



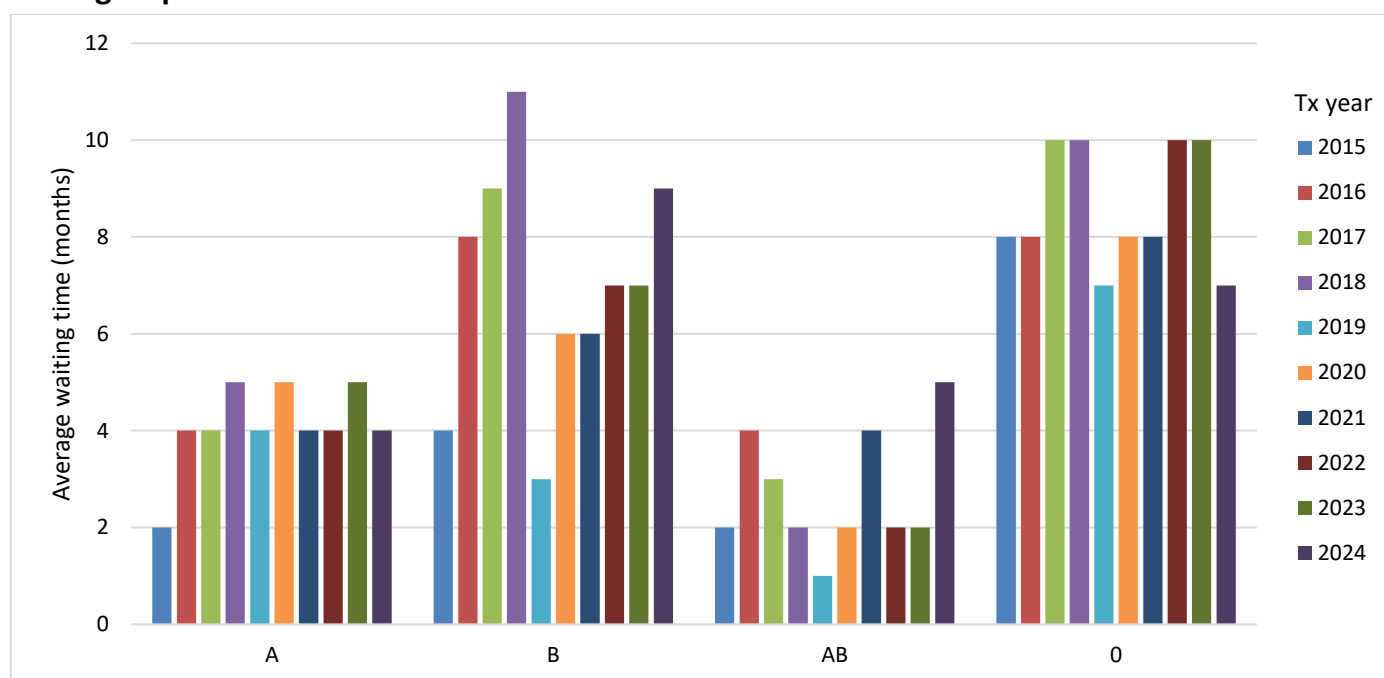
⁷² pmp: per million population

⁷³ Estonian deceased donor heart transplantations are performed in Helsinki.

Average waiting time on the waiting list until transplantation with deceased donor heart⁷⁴

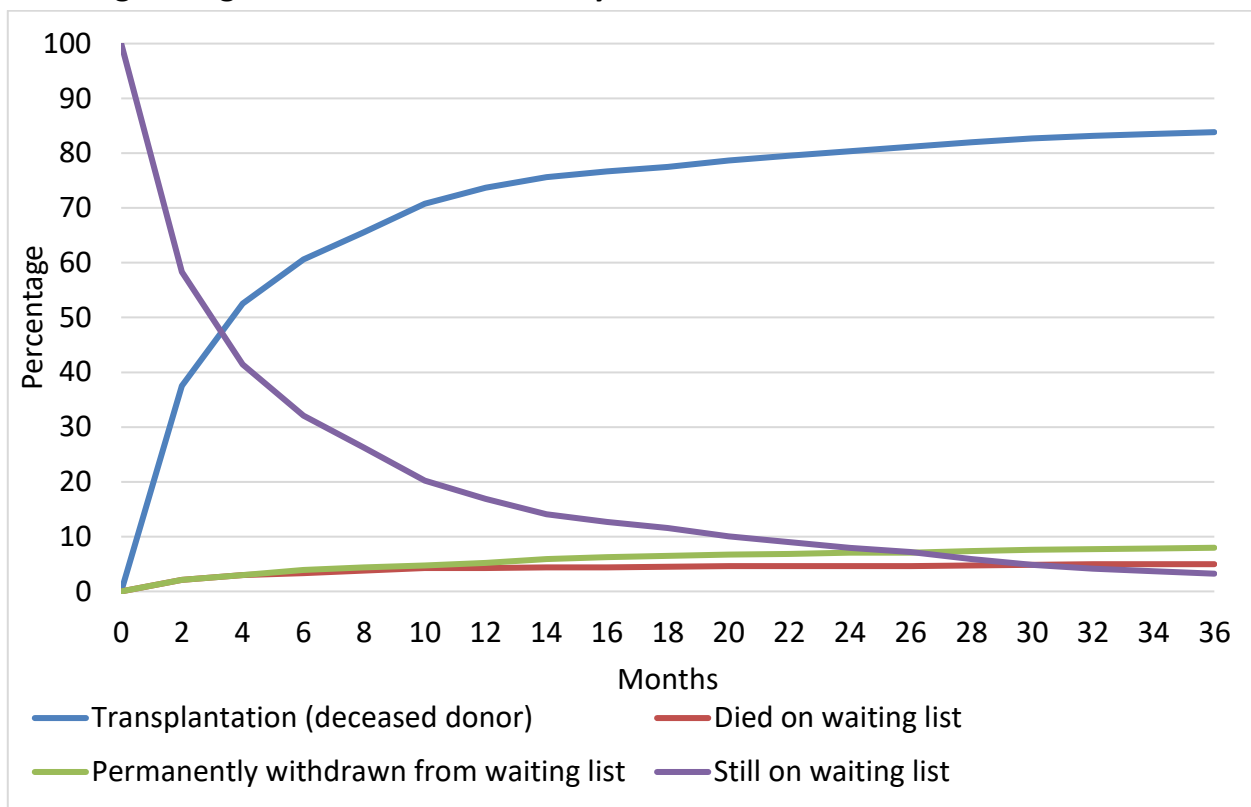


Average waiting time on the waiting list until transplantation with deceased donor heart by blood group



⁷⁴ Icelandic patients are counted as part of Sweden and Estonian patients are included in the Finnish figures.

Heart waiting list registrations 2016-2020 – 3-year outcome^{75,76,77}



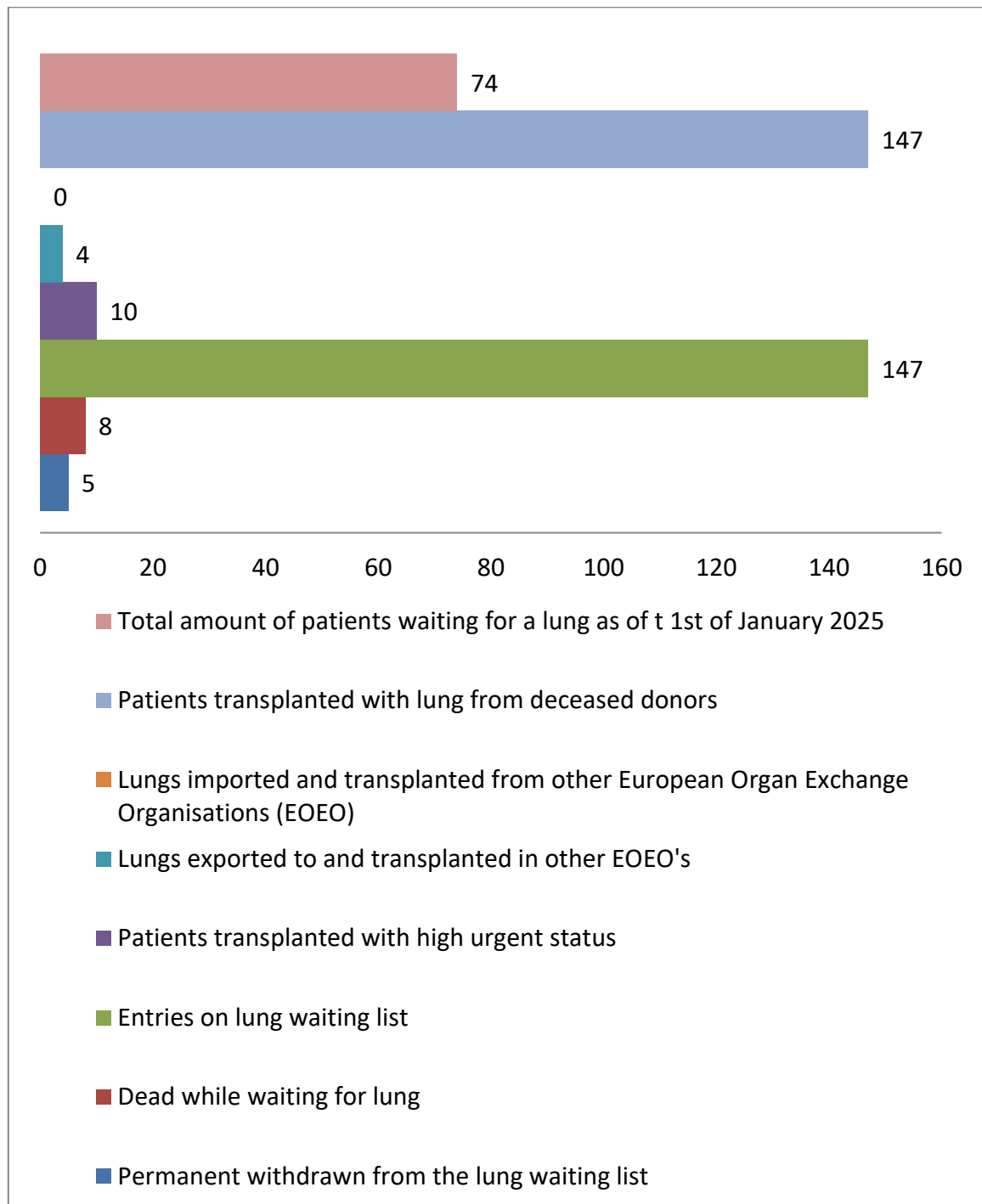
Outcome	After 1 year	After 2 years	After 3 years
Transplanted (deceased donor)	74 %	80 %	84 %
Died on the waiting list	4 %	5 %	5 %
Permanently withdrawn from the waiting list	5 %	7 %	8 %
Still on the waiting list	17 %	8 %	3 %

⁷⁵ Died on WL includes recipients with a death date before date of permanent withdrawal and a death date within two weeks of the date of permanent withdrawal.

⁷⁶ The period 2016-2020 is chosen because up-to-date survival data is only available as of 31/12-2023.

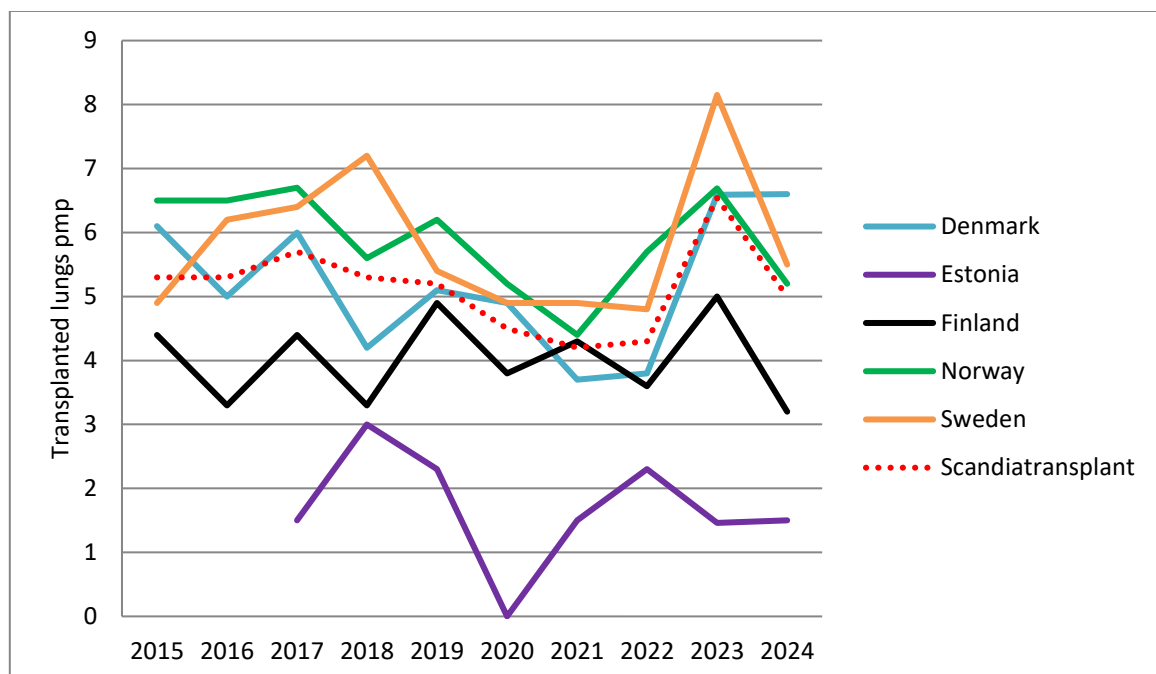
⁷⁷ Only recipients waiting for their first transplantation are included.

Lungs 2024



Transplanted lungs (Double, single and heart-lung) pmp⁷⁸ per year

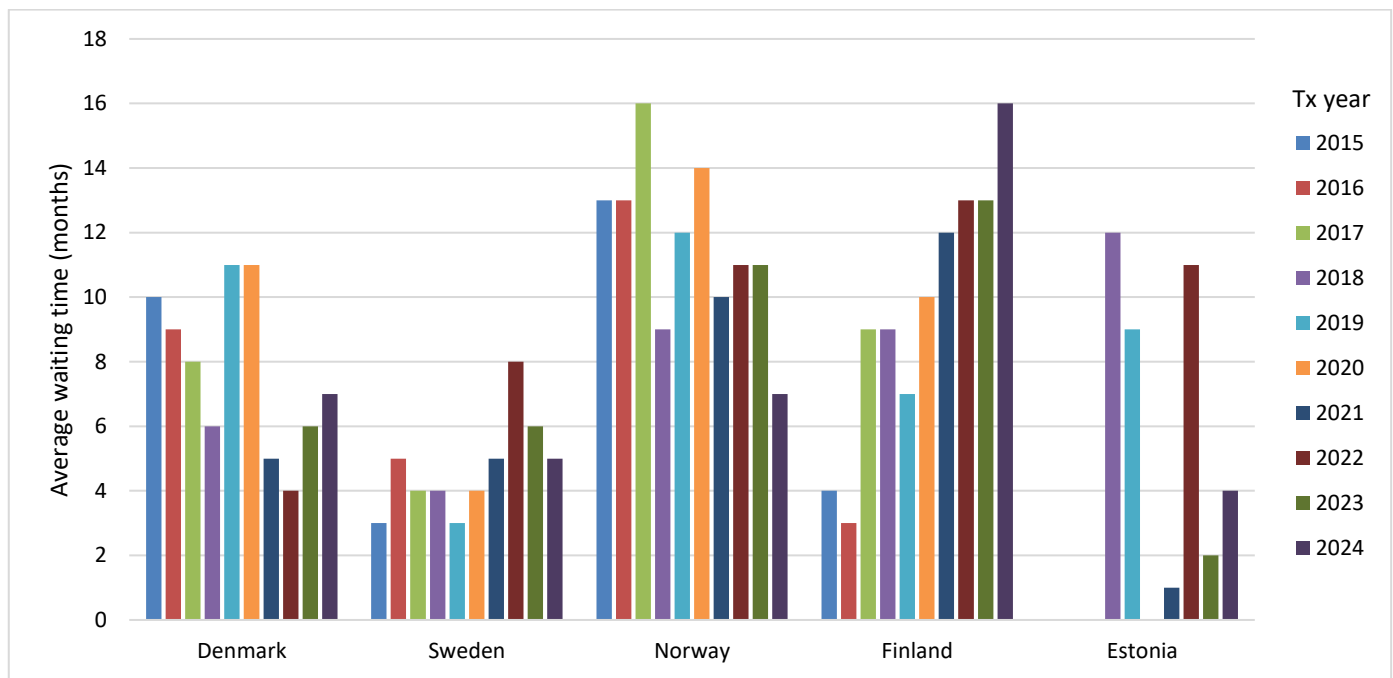
Year	Denmark	Estonia	Finland	Norway	Sweden	Scandiatransplant
2015	6,1		4,4	6,5	4,9	5,3
2016	5,0		3,3	6,5	6,2	5,3
2017	6,0	1,5 ⁷⁹	4,4	6,7	6,4	5,7
2018	4,2	3,0	3,3	5,6	7,2	5,3
2019	5,1	2,3	4,9	6,2	5,4	5,2
2020	4,9	0	3,8	5,2	4,9	4,7
2021	3,7	1,5	4,3	4,4	4,9	4,2
2022	3,8	2,3	3,6	5,7	4,8	4,3
2023	6,6	1,5	5,0	6,7	8,2	6,5
2024	6,6	1,5	3,2	5,2	5,5	5,0



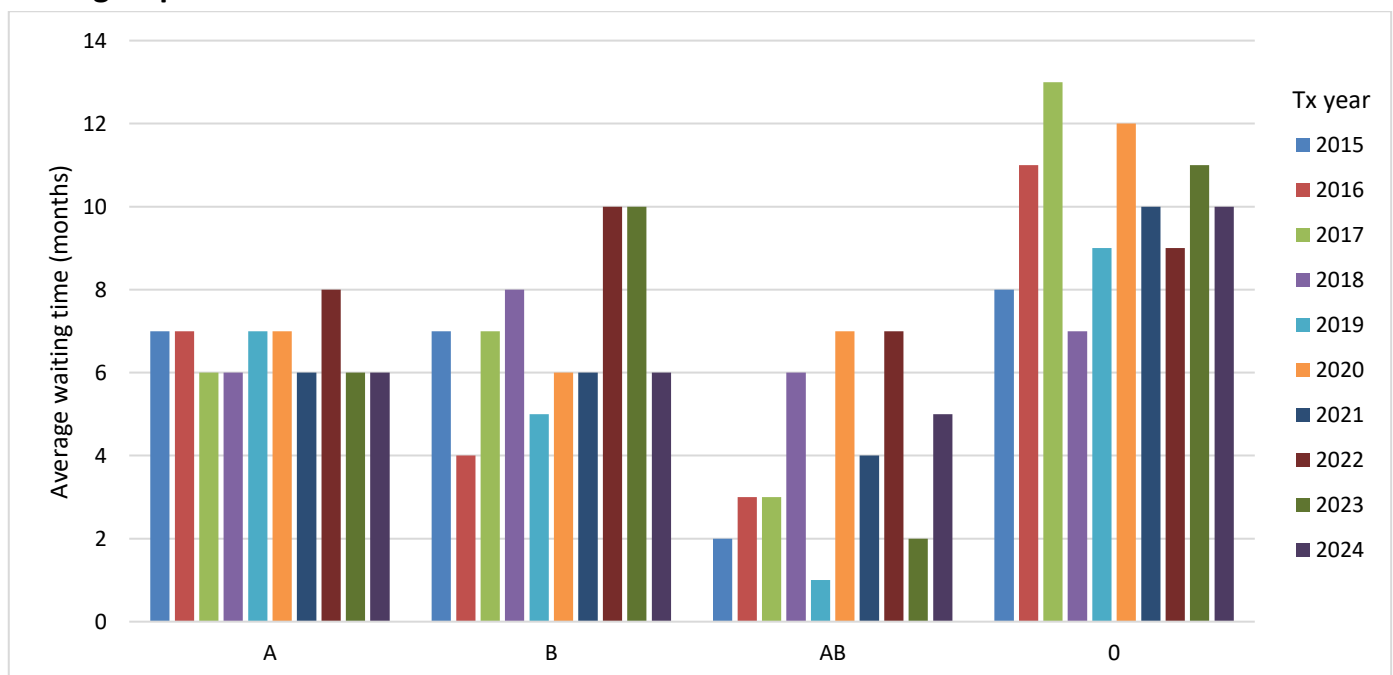
⁷⁸ pmp: per million population

⁷⁹ Figures included from Estonia year 2017 starts from October 1st 2017, which has negative impact on PMP for Estonia and Scandiatransplant

Average waiting time on the waiting list until transplantation with deceased donor lungs^{80,81}



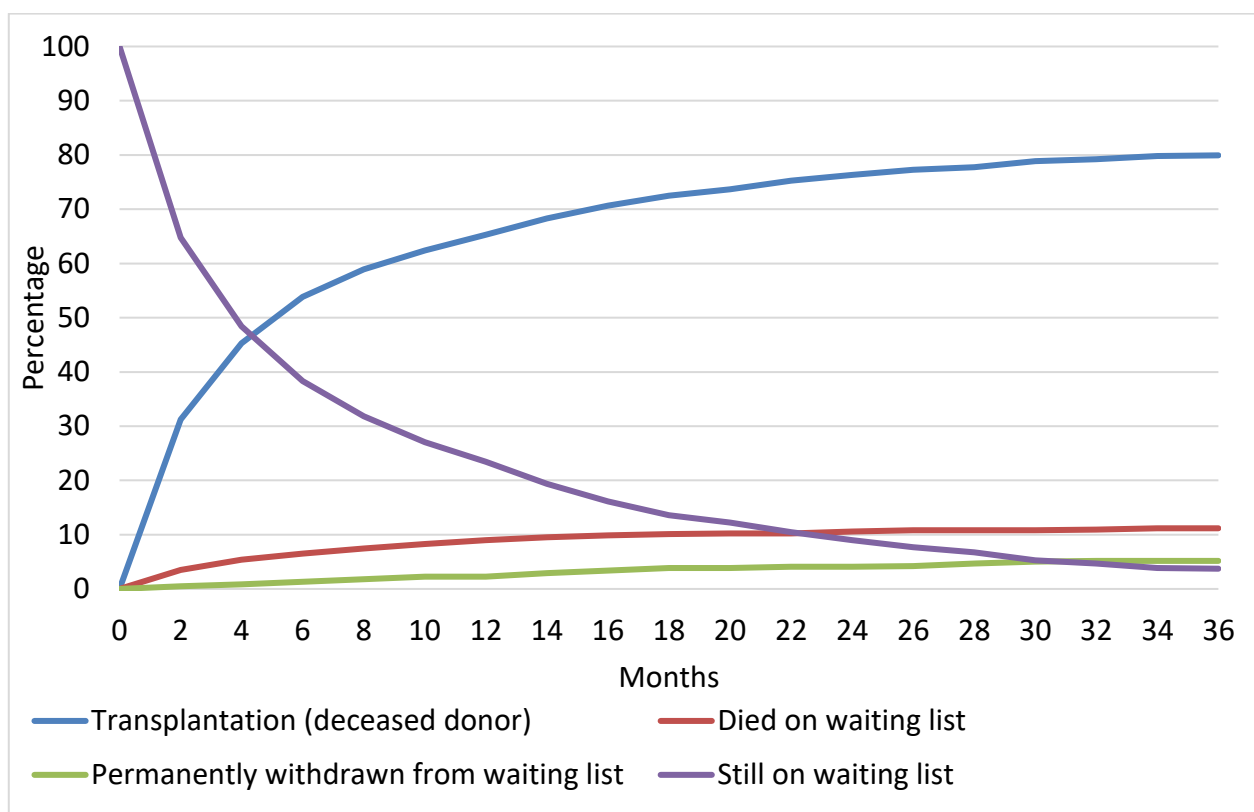
Average waiting time on the waiting list until transplantation with deceased donor lungs by blood group



⁸⁰ Icelandic patients are counted as part of Sweden.

⁸¹ Includes double lung, single lung and heart-lung block.

Lung waiting list registrations 2016-2020 – 3-year outcome^{82,83,84}



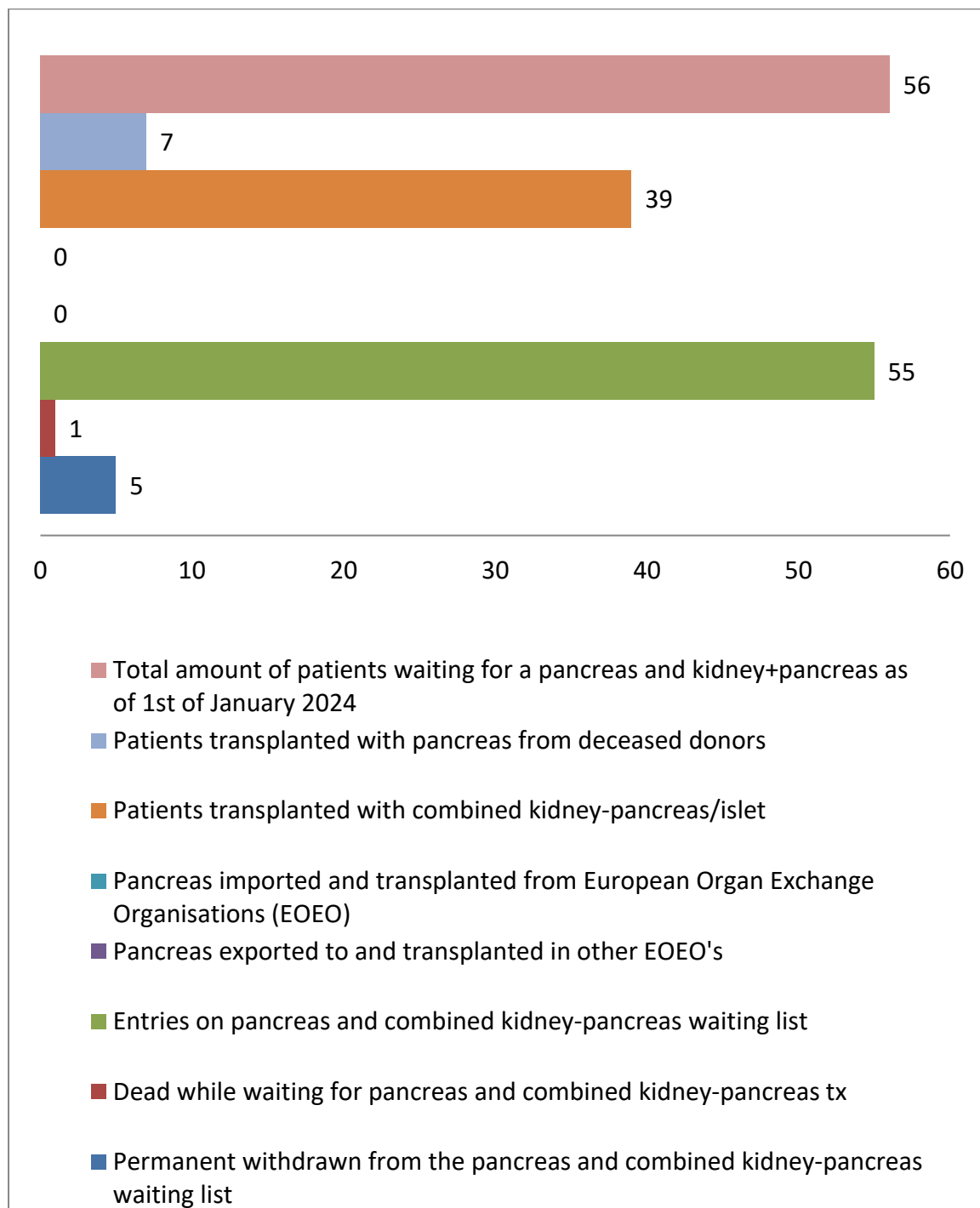
Outcome	After 1 year	After 2 years	After 3 years
Transplanted (deceased donor)	65 %	76 %	80 %
Died on the waiting list	9 %	11 %	11 %
Permanently withdrawn from the waiting list	2 %	4 %	5 %
Still on the waiting list	24 %	9 %	4 %

⁸² Died on WL includes recipients with a death date before date of permanent withdrawal and a death date within two weeks of the date of permanent withdrawal.

⁸³ The period 2016-2020 is chosen because up-to-date survival data is only available as of 31/12-2023.

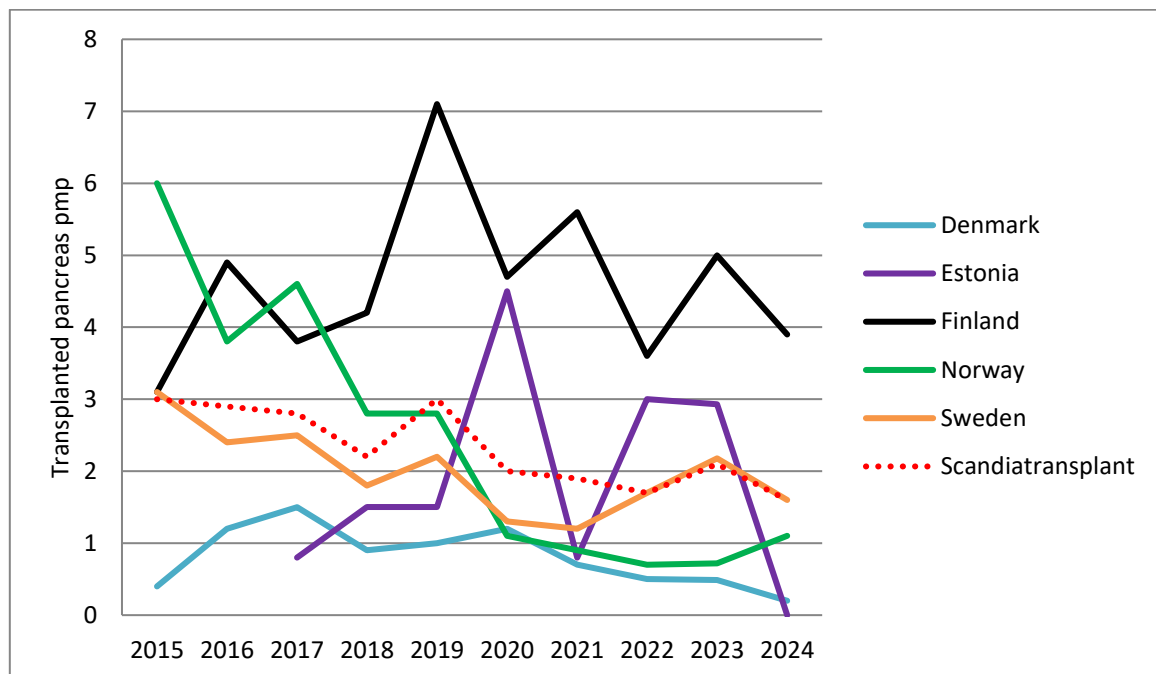
⁸⁴ Only recipients waiting for their first transplantation are included.

Pancreas 2024



Transplanted pancreas (incl. combined kidney-pancreas) pmp⁸⁵ per year

Year	Denmark ⁸⁶	Estonia	Finland	Norway	Sweden	Scandiatransplant
2015	0,4		3,1	6,0	3,1	3,0
2016	1,2		4,9	3,8	2,4	2,9
2017	1,5	0,8 ⁸⁷	3,8	4,6	2,5	2,8
2018	0,9	1,5	4,2	2,8	1,8	2,2
2019	1,0	1,5	7,1	2,8	2,2	3,0
2020	1,2	4,5	4,7	1,1	1,3	2,0
2021	0,7	0,8	5,6	0,9	1,2	1,9
2022	0,5	3,0	3,6	0,7	1,7	1,7
2023	0,5	2,9	5,0	0,7	2,2	2,1
2024	0,2	0	3,9	1,1	1,6	1,6



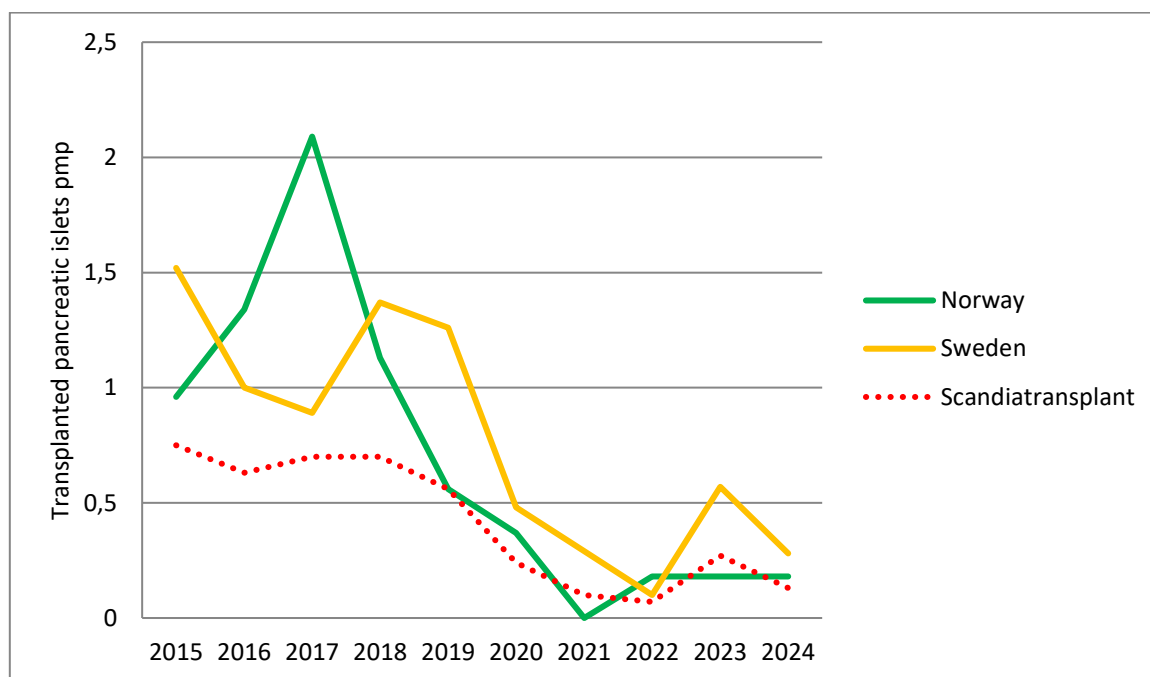
⁸⁵ pmp: per million population

⁸⁶ Pancreas program started in Denmark in 2015.

⁸⁷ Figures included from Estonia year 2017 starts from October 1st 2017, which has negative impact on PMP for Estonia and Scandiatransplant

Transplanted pancreatic islets⁸⁸ pmp⁸⁹ per year

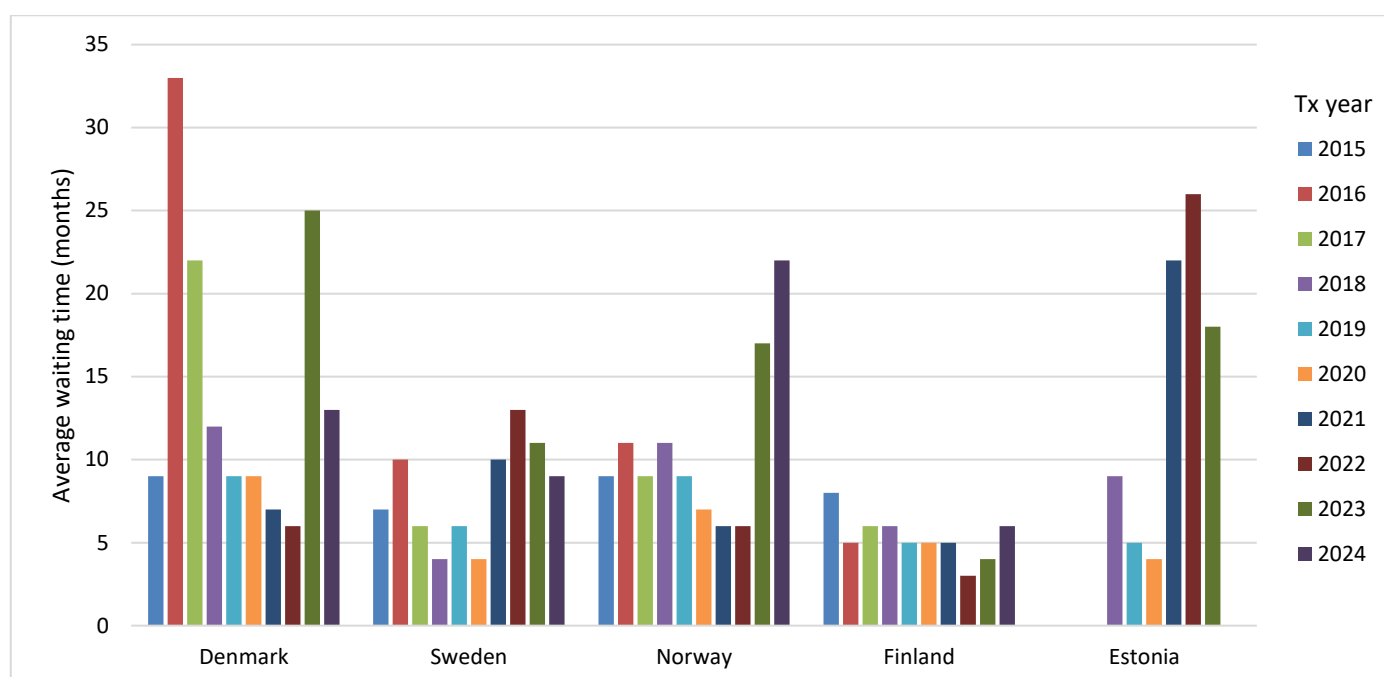
Year	Denmark	Estonia	Finland	Norway	Sweden	Scandiatransplant
2015	0		0	0,96	1,52	0,75
2016	0		0	1,34	1,00	0,63
2017	0	0	0	2,09	0,89	0,70
2018	0	0	0	1,13	1,37	0,70
2019	0	0	0	0,56	1,26	0,56
2020	0	0	0	0,37	0,48	0,24
2021	0	0	0	0,00	0,29	0,10
2022	0	0	0	0,18	0,10	0,07
2023	0	0	0,18	0,18	0,57	0,27
2024	0	0	0	0,18	0,28	0,13



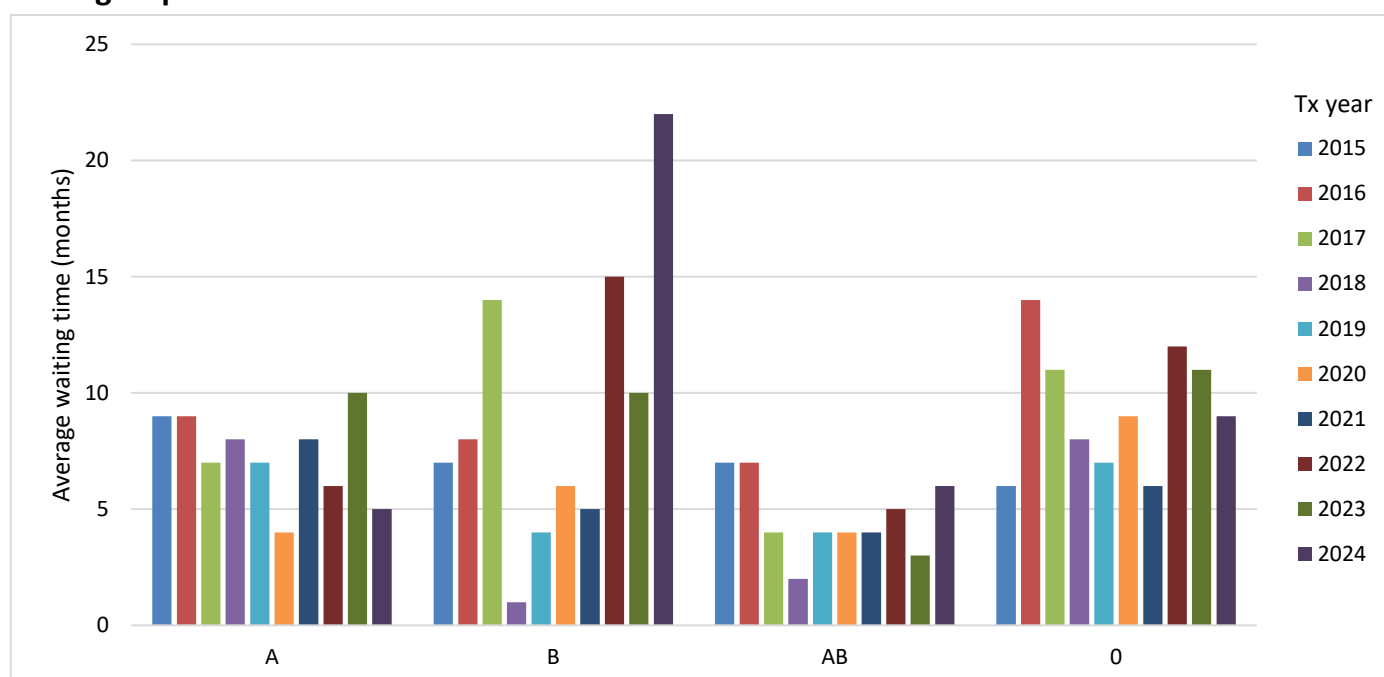
⁸⁸ Each portion is counted as one transplantation

⁸⁹ pmp: per million population

Average waiting time on the waiting list until transplantation with deceased donor pancreas^{90,91,92}



Average waiting time on the waiting list until transplantation with deceased donor pancreas by blood group

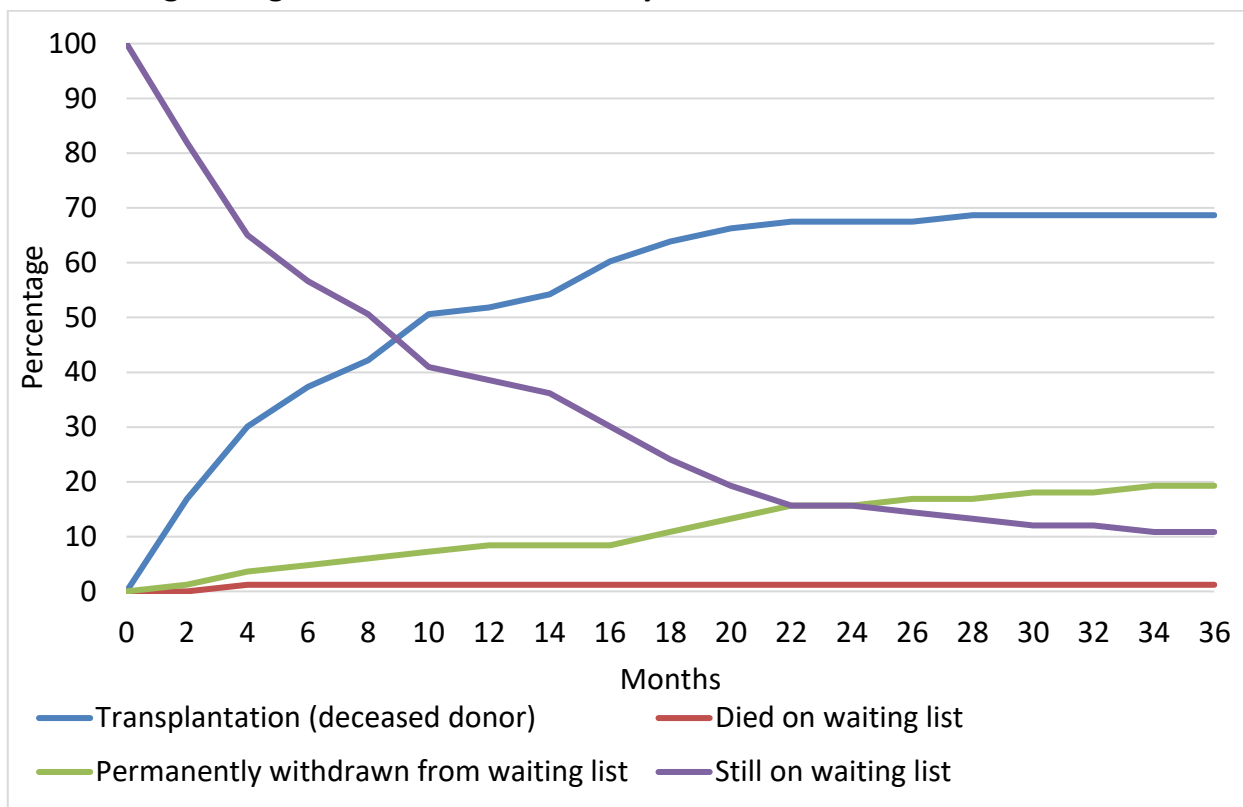


⁹⁰ Icelandic patients are counted as part of Sweden.

⁹¹ Pancreas program started in Denmark in 2015.

⁹² Including kidney-pancreas

Pancreas waiting list registrations 2016-2020 – 3-year outcome^{93,94,95,96}



Outcome	After 1 year	After 2 years	After 3 years
Transplanted (deceased donor)	52 %	67 %	69 %
Died on the waiting list	1 %	1 %	1 %
Permanently withdrawn from the waiting list	8 %	16 %	19 %
Still on the waiting list	39 %	16 %	11 %

⁹³ Combined kidney+pancreas waiting list registrations are not included.

⁹⁴ Died on WL includes recipients with a death date before date of permanent withdrawal and a death date within two weeks of the date of permanent withdrawal.

⁹⁵ The period 2016-2020 is chosen because up-to-date survival data is only available as of 31/12-2023.

⁹⁶ Only recipients waiting for their first transplantation are included.

On behalf of Scandiatransplant

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