

User manual

Deceased donor registration/update (13aug2015)

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1. Find the menu 'Deceased donor'

Donor -> Deceased donors

The screenshot shows a web application interface for donor management. At the top, there is a navigation menu with 'Donor' highlighted and a dropdown menu open, showing 'Deceased donors' as the selected option. Below the navigation, there is a search form for 'Deceased donors' with fields for Donor number, Person number, AB0 blood group, Donor name, Country, Sex, Rhesus D, Procuring center, Responsible center, and Date of (no) donation. A table at the bottom displays columns for Donor number, Country, Procuring center, Person number, Sex, Responsible center, Date of (no) donat..., and Donor name. The table is currently empty, showing 'Page 0 of 0' and 'No data to display'.

2. Find an existing donor in the database

When you enter the menu 'Deceased donor' you get a variety of possibilities for entering search parameters. You can search on one parameter or combine more parameters to limited the number of recipients.

Deceased donors Search Add new Reset

[Enter search parameters]

Donor number: Country: Procuring center:
 Person number: Sex: Responsible center:
 ABO blood group: Rhesus D: Date of (no) donation:
 Donor name: Visible to all:

Donor number	Country	Procuring center	Person number	Sex	Responsible center	Date of (no) donat...	Donor name
No data to display							

Page 0 of 0 Order by: Donor number

Example of a search based on a combination of parameters:

Deceased donors Search Add new Reset

[Enter search parameters]

Donor number: Country: DK: Denmark Procuring center:
 Person number: Sex: Responsible center:
 ABO blood group: AB Rhesus D: Date of (no) donation:
 Donor name: Visible to all:

Donor number	Country	Procuring center	Person number	Sex	Responsible center	Date of (no) donat...	Donor name
→ 87	DK: Denmark	AR: Aarhus		F: Female	AR: Aarhus		Name: t.
→ 87	DK: Denmark	AR: Aarhus		F: Female	AR: Aarhus		Name: T.
→ 85	DK: Denmark	AR: Aarhus		F: Female	AR: Aarhus	20-Feb-2015	Name: B.
→ 84	DK: Denmark	CP: København		M: Male	CP: København		Name: J.
→ 82	DK: Denmark	CP: København		M: Male	CP: København	23-May-2014	Name: .
→ 82	DK: Denmark	AR: Aarhus		M: Male	AR: Aarhus	19-Apr-2014	Name: T.
→ 82	DK: Denmark	CP: København		M: Male	CP: København	12-Apr-2014	Name: M.
→ 82	DK: Denmark	CP: København		F: Female	CP: København	25-Nov-1990	Name: N.
→ 80	DK: Denmark	CP: København		M: Male	CP: København	09-Dec-2013	Name: J.
→ 79	DK: Denmark	CP: København		M: Male	CP: København	08-Nov-2013	Name: N.
→ 75	DK: Denmark	CP: København		F: Female	CP: København	16-Oct-2012	Name: K.
→ 73	DK: Denmark	CP: København		F: Female	CP: København	30-Jun-2012	Name: B.
→ 71	DK: Denmark	CP: København		M: Male	CP: København	08-Mar-2012	Name: K.

You are able to see all donors from own country and donors from which you have received organs. Donors from other countries, from whom you have not received organs, can only be seen within 14 days after donation realized date.

At the bottom of the page the total number of donors fulfilling the search parameters are displayed (No. 1).
 Furthermore, the order of the list is displayed (No. 2), if you wish to change the order click on the column headers (No. 3).

Deceased donors Search Add new Reset

[Enter search parameters]

Donor number: Country: Procuring center:
 Person number: Sex: Responsible center:
 ABO blood group: Rhesus D: Date of (no) donation:
 Donor name: Visible to all:

3.	Donor number	Country	Procuring center	Person number	Sex	Responsible center	Date of (no) donat...	Donor name
→	689	DK: Denmark	OD: Odense		M: Male	OD: Odense	09-Oct-2011	Name:
→	514	DK: Denmark	OD: Odense		F: Female	OD: Odense	26-Feb-2009	Name:
→	462	DK: Denmark	OD: Odense		F: Female	OD: Odense	16-Apr-2008	Name:
→	435	DK: Denmark	OD: Odense		M: Male	OD: Odense	16-Nov-2007	Name:
→	403	DK: Denmark	OD: Odense		F: Female	OD: Odense	30-Apr-2007	Name:
→	328	DK: Denmark	OD: Odense		F: Female	OD: Odense	30-Jan-2006	Name:
→	287	DK: Denmark	OD: Odense		F: Female	OD: Odense	07-Oct-2005	Name:
→	455	DK: Denmark	OD: Odense		M: Male	OD: Odense	13-Jul-1991	Name:
→	372	DK: Denmark	OD: Odense		M: Male	OD: Odense	28-May-2000	Name:
→	451	DK: Denmark	OD: Odense		M: Male	OD: Odense	30-Dec-1994	Name:

Page 1 of 1 Order by: 2. Donor number ▼ Displaying 1 - 10 of 10 1.

Below is an example of changed sorting, if you wish to go back to the default sorting click on the 'Order by:' button.

Donor number	Country	Procuring center	Person number	Sex	Responsible center	Date of (no) donat...	Donor name	
→	68959	DK: Denmark	OD: Odense	191205	M: Male	OD: Odense	09-Oct-2011	Name: J.
→	51453	DK: Denmark	OD: Odense	300793	F: Female	OD: Odense	26-Feb-2009	Name: S.
→	46273	DK: Denmark	OD: Odense	290268	F: Female	OD: Odense	16-Apr-2008	Name: A.
→	43593	DK: Denmark	OD: Odense	190253	M: Male	OD: Odense	16-Nov-2007	Name: I.
→	40335	DK: Denmark	OD: Odense	210633	F: Female	OD: Odense	30-Apr-2007	Name: C.
→	32853	DK: Denmark	OD: Odense	290650	F: Female	OD: Odense	30-Jan-2006	Name: B.
→	28734	DK: Denmark	OD: Odense	030263	F: Female	OD: Odense	07-Oct-2005	Name: A.
→	3723	DK: Denmark	OD: Odense		M: Male	OD: Odense	28-May-2000	Name: I.
→	451	DK: Denmark	OD: Odense		M: Male	OD: Odense	30-Dec-1994	Name: I.
→	4552	DK: Denmark	OD: Odense		M: Male	OD: Odense	13-Jul-1991	Name: .

Page 1 of 1 Order by: Date of (no) donation ▼ Displaying 1 - 10 of 10

Press to reset ordering to default

3. Register a new donor – Basic information

The screenshot shows the 'Deceased donors' search interface. At the top right, there are buttons for 'Search', 'Add new' (circled in red), and 'Reset'. Below this is a search parameter entry area with fields for Donor number, Country, Procuring center, Person number, Sex, Responsible center, ABO blood group, Rhesus D, Date of (no) donation, Donor name, and Visible to all. At the bottom, there is a table header with columns: Donor number, Country, Procuring center, Person number, Sex, Responsible center, Date of (no) donat..., and Donor name. The table shows 'Page 0 of 0' and 'Order by: Donor number'. A message at the bottom right says 'No data to display'.

Click on 'Add new'

The screenshot shows the 'Deceased donor registration' form. At the top right, there are buttons for 'Back', 'Save', 'Print', and 'Cancel'. The form is filled with test data: Donor number: 87372, Donor nationality: DK: Denmark, Birth-date: 01-Jan-1950, Person Number: 010150, Age in years at donation: 65, Donor name: test. Below this are tabs for 'Basic', 'Infection serology', 'Organ procurement', 'Laboratory tests at admission', 'Last clinical record in ICU', 'Last laboratory tests', 'Medication', and 'HLA Typing'. The 'Basic' tab is active, showing fields for Procuring center (AR: Aarhus), Responsible center (AR: Aarhus), Original donor hosp.: 4206: Middelfart sygehus, Sex: F: Female, ABO blood group: 0, Rhesus D: NEG, Weight: 60 kg, Height: 180 cm, Donation after circ. death: N: No, Cause of death: 12: Brain tumour, Angiography; arteries: CO, Notes on death: this is a test, Diseases/Abuses: non, Past/Present Drug Abuse: N: No, Past/Pres Malign Neoplasia: N: No, Donation realized: Y: Yes, Date of (no) donation: 05-Jul-2015. Below this is the 'Intensive care unit (ICU)' section with Date of admission: 01-Jul-2015, Start of Ventilator Treatment: 05-Jul-2015, Time: 09:00. At the bottom, there are fields for First regist.: IDW_TEST, 06-Jul-2015 and Latest regist.: IDW_TEST, 06-Jul-2015.

Start entering information.

Mandatory data to fill in before getting a donor number is; Date of birth/age, procuring center, original donor hospital, sex, ABO blood group, Donation after circ. Death, cause of death and donation realized.

The Nordic *person numbers* will be validated according to the registered nationality and national rules. Furthermore, it will be checked if the donor has been registered previously in the database.

Donation realized can initially be set to 'Potential' and later changed to Yes or No. To register organ procurement this field must be set to Yes.

Age in years at donation is automatically calculated based on person number and donation date.

4. Register and/or update of donor information

4.1. Infection serology

To register donor virology and bacteriology results enter -/+/? or select from list of values.

Deceased donor registration Back Save Print Cancel

Donor number: Donor nationality:

Birth-date: Person Number: Age in years at donation:

Donor name:

Infection serology | Organ procurement | Laboratory tests at admission | Last clinical record in ICU | Last laboratory tests | Medication | HLA Typing

Serology Code	Result
CMV: Cytomegalovirus antibodies	ND: Not done
EBV: Epstein-Barr IgG antibodies	+: Positive
HBc: Anti-HBc	-: Negative
HBimm: Hepatitis B vaccinated	?: Doubtful
HBsAb: Hepatitis Bs antibody	ND: Not done
HBsAg: Hepatitis Bs antigen	ND: Not done
HCV: Hepatitis C antibody	ND: Not done
HCVAg: Hepatitis C antigen (RNA)	ND: Not done
HIVab: Anti HIV antibodies	ND: Not done
HIVag: HIV antigen	ND: Not done

4.2. Organ Procurement

To start with, all the organs are listed as not procured, to procure an organ please click on the 'Procure an organ' button.

Deceased donor registration Back Save Print Cancel

Donor number: Donor nationality:

Birth-date: Person Number: Age in years at donation:

Donor name:

Organ procurement | Infection serology | Laboratory tests at admission | Last clinical record in ICU | Last laboratory tests | Medication | HLA Typing

Procure an organ ..

Tx. center	Transplanted	Organ type	Liver/pancreas additional info

Not procured organ

Organ type	Cause	Remarks
1 PA: Pancreas		
2 LR: Right Lung		
3 LL: Left Lung		
4 LI: Liver		
5 KR: Right Kidney		
6 KL: Left Kidney		
7 HE: Heart		

If you see the text 'Donation not realized. Please change value in Basic tab.', you need to go to the basic tab and change the value

Deceased donor registration Back Save Print Cancel

Donor number: 88065 Donor nationality: N: Norway

Birth-date: 01-Aug-2015 Person Number: 010815 Age in years at donation:

Donor name:

Basic Infection serology Laboratory tests at admission Last clinical record in ICU Last laboratory tests Medication HLA Typing Organ procurement

Donation not realized. Please change value in Basic tab

Tx. center	Transplanted	Organ type	Liver/pancreas additional info
Not procured organ			
Organ type	Cause	Remarks	
1 PA: Pancreas			
2 LR: Right Lung			
3 LL: Left Lung			
4 LI: Liver			
5 KR: Right Kidney			
6 KL: Left Kidney			
7 HE: Heart			

Deceased donor registration

Donor number: 88065 Donor nationality:

Birth-date: 01-Aug-2015 Person Number: 010815

Donor name:

Basic Infection serology Laboratory tests at admission Last clinical record in ICU Last laboratory tests

Procuring center: OS: Oslo Responsible center:

Original donor hosp.: 01: RH Sex: F

ABO blood group: 0 Rhesus D:

Weight: kg Height: cm

Cause of death: 12: Brain tumour Angiography; arteries:

Notes on death:

Diseases/Abuses:

Past/Present Drug Abuse: Past/Pres Malign Nec

Donation realized: Y: Yes Date of (no) do

Intensive care unit (ICU) N: No

Date of admission P: Potential donor

Y: Yes

First regist.: OS_USER 13-Aug-2015 Latest regist.:

Chose the organ type which you wish to procure and enter other relevant information.

Procured graft [Back] [Save] [Cancel] [Procure next]

Donor information

Donor number: 87378 Person number: 010150
Donor name: test
Country: DK: Denmark Procuring center: AR: Aarhus

Graft details

Organ to center: AR: Aarhus
Graft transplanted: [] Organ type: []
Procured by: [] Preservation fluid: DL: Double Lung
General remarks: [] HE: Heart
HL: Heart/Lung Block
KD: Double kidney
KL: Left kidney
KR: Right Kidney
LI: Liver
LL: Left Lung
LR: Right Lung
OT: Other organ
PA: Pancreas
PI: Pancreatic islets

When you have saved information, you will be able to procure the next organ by click on the 'procure next' button

Procured graft [Back] [Save] [Cancel] [Procure next]

Not harvested: OT,KR,LL,LR,PA,DL,PI

Donor information

Donor number: 87378 Person number: 010150
Donor name: test
Country: DK: Denmark Procuring center: AR: Aarhus

Graft details

Organ to center: AR: Aarhus
Graft transplanted: N: No Organ type: LI: Liver
Procured by: [] Preservation fluid: []
General remarks: []

Liver specifics

Number of arteries: [] Iliac vessels supplied: []
Portal perfusion started: [] Time: [] Aortic perfusion started: [] Time: []
Segments used: []

Organ not transplanted

Cause: 16: No suitable recipient
Comments: []

If you do not know whether the organ has been transplanted or not, you can leave the 'Graft transplanted' empty.
If you later on connect the organ with a recipient, the field 'Graft transplanted' will automatically be filled in with yes.

4.2.1. Organs procured used for other purposes

If the organ has been procured but used for other purposes, it need to be registered here.

The screenshot shows the 'Procured graft' form with the following fields:

- Donor information:** Donor number: 87378, Person number: 010150, Donor name: test, Country: DK: Denmark, Procuring center: AR: Aarhus.
- Graft details:** Organ to center: AR: Aarhus, Graft transplanted: O: Other use (highlighted in red), Organ type: HE: Heart, Procured by: [dropdown], Preservation fluid: [dropdown], General remarks: [text area].
- Heart specifics:** Preservation started: [calendar icon] Time: [input].
- Organ used for other purpose (highlighted in red):** Cause: [dropdown], Comments: 1: Used for Homograft, 2: Optimization of lung failed, 3: Used for research, 4: Send to Rudbeck lab, 5: Tissue.

4.2.2. Organs procured but not transplanted

Also if the organ has been procured but not been transplanted

The screenshot shows the 'Procured graft' form with the following fields:

- Donor information:** Donor number: 87378, Person number: 010150, Donor name: test, Country: DK: Denmark, Procuring center: AR: Aarhus.
- Graft details:** Organ to center: AR: Aarhus, Graft transplanted: N: No (highlighted in red), Organ type: LI: Liver, Procured by: [dropdown], Preservation fluid: [dropdown], General remarks: [text area].
- Liver specifics:** Number of arteries: [input], Portal perfusion started: [calendar icon] Time: [input], Segments used: [dropdown], Iliac vessels supplied: [dropdown], Aortic perfusion started: [calendar icon] Time: [input].
- Organ not transplanted (highlighted in red):** Cause: [dropdown], Comments: 16: No suitable recipient, 1: Arteries cut to short, 2: Adenocarcinom, 3: Anonym.

If you go back you get an overview of procured and not procured organs

Deceased donor registration Back Save Print Cancel

Donor number: 87378 Donor nationality: DK: Denmark
 Birth-date: 01-Jan-1950 Person Number: 010150 Age in years at donation: 65
 Donor name: test

Basic Infection serology **Organ procurement** Laboratory tests at admission Last clinical record in ICU Last laboratory tests Medication HLA Typing

Procure an organ ...

	Tx. center	Transplanted	Organ type	Liver/pancreas additional info
→ X	AR: Aarhus	No: No suitable recipient	LI: Liver	
→ X	AR: Aarhus		KL: Left kidney	
→ X	AR: Aarhus	Used for Homograft	HE: Heart	

Not procured organ

	Organ type	Cause	Remarks
1	PA: Pancreas		
2	LR: Right Lung		
3	LL: Left Lung		
4	KR: Right Kidney		

4.2.3. Cause of no procurment

Registration of cause of why organs has not been procured. Please chose cause from list of value.

Deceased donor registration Back Save Print Cancel

Donor number: 87378 Donor nationality: DK: Denmark
 Birth-date: 01-Jan-1950 Person Number: 010150 Age in years at donation: 65
 Donor name: test

Basic Infection serology **Organ procurement** Laboratory tests at admission Last clinical record in ICU Last laboratory tests Medication HLA Typing

Procure an organ ...

	Tx. center	Transplanted	Organ type	Liver/pancreas additional info
→ X	AR: Aarhus	No: No suitable recipient	LI: Liver	
→ X	AR: Aarhus		KL: Left kidney	
→ X	AR: Aarhus	Used for Homograft	HE: Heart	

Not procured organ

	Organ type	Cause	Remarks
1	PA: Pancreas	1: No permission	
2	LR: Right Lung	1: No permission	
3	LL: Left Lung	10: Due to virology	
4	KR: Right Kidney	11: Donation after Circulatory Death - DCD	

1: No permission
 10: Due to virology
 11: Donation after Circulatory Death - DCD
 2: No resources
 3: Anatomical abnormality
 4: Poor organ function
 5: Suitable recipient not found
 6: Age
 7: Time limit
 8: No information (Donor not from SCTP)
 9: Other reason

4.3. Laboratory test, clinical information and medication'

Fill in all available data

4.4. HLA typing

Deceased donor registration

Donor number: 1 Donor nationality: DK: Denmark

Birth-date: 22-May-1959 Person Number: 220559 Age in years at donation: 90

Donor name: Name: T.

Basic Infection serology Organ procurement Laboratory tests at admission Last clinical record in ICU Last laboratory tests Medication **HLA Typing**

HLA will not be supplied:

Serological

A: 3 2 B: 40 12 Bw4/Bw6: w4 w6

Cw: 4 5 DR: 8 10 DQ: 4 7

Enter the HLA type or select between HLA types by pressing the drop down menu. To select a specific type on the list, click on it.

07

0702

0703

0736

08

0801

13

1301

1302

14

1401

1402

15

1501

1502

If you start typing, the list will narrow down

B: 1

13

1301

1302

14

1401

1402

15

1501

1502

1503

1504

1505

1506

1507

1508

Bw4 and Bw6 is automatically calculated from the association to the HLA type, but **not** automatically counted as part of the donor HLA. To use the calculated Bw4 and Bw6 you have to enter them into the HLA registration fields.

Basic info	Clinical data	Address/Phone	Waiting List	HLA Typing	Antibody Screen Test	Acceptable Antibodies	Previous Mismatches	Death
- Serological								
A: 1		3		B: 51		7		
Cw:				Bw4/w6: w4				
DR:				DQ:		w4		
						w6		
						??		
- Genomic								
A:				B:				
Cw:				DRB3/4/5:				
DRB1: 15		10		DPB1:				
DPA1:				DQB1:				
DQA1:								
- For match								
Calculated Bw: w4,w6								
A: 1		3		B: 5		7		
Cw:				DQ:				
DR: 2		10						