



News from Scandiatransplant office

November 2021

Introduction

Headlines

- Extension of deceased donor variables in YASWA – part 5
- Lab. values with more than one unit
- Pediatric Renal Follow Up, graft loss cause
- Donor status, when a potential donor ends up not becoming an eligible/actual or utilized donor
- Liver offers for visceral and ped. liver recipient
- Liver size measurements
- Visceral recipient categories
- List of recipients to be included in STEP match run
- STEP blocking of non-bead alleles
- Next STEP match run

*Database update
Nov. 24th, 2021*

Content

- 1 Introduction
- 2 Extension of deceased donor variables in YASWA – part 5
- 4 Lab. values with more than one unit
- 4 Pediatric Renal Follow Up, graft loss cause
- 5 Donor status, when a potential donor ends up not becoming an eligible/actual or utilized donor
- 5 Liver offers for visceral and ped. liver recipient
- 6 Liver size measurements
- 6 Visceral recipient categories
- 7 List of recipients to be included in STEP match run
- 8 STEP blocking of non-bead alleles
- 8 Next STEP match run

All previous newsletters can be found on the Scandiatransplant web page

<http://www.scandiatransplant.org/news/newsletters>

Purpose

By this information letter, we wish to communicate to you about status and progress related to the database, collaboration with groups related to Scandiatransplant and on-going working projects.

We hope that you will read it and share the information with whom it might concern.

Do not hesitate to contact us for further information, ideas, problems and help.

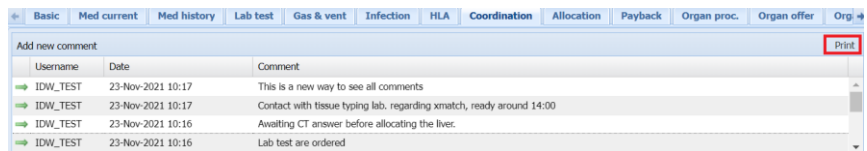
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Extension of deceased donor variables in YASWA – part 5

Coordination notes

In a previous update the possibility to add real-time comments during the donation process was implemented in the 'Coordination' tab.

Now a new Print option is found in the upper right corner:



DD project part 5, additional print options

The print out contains all comments and is meant to give a complete overview of all comments/notes:

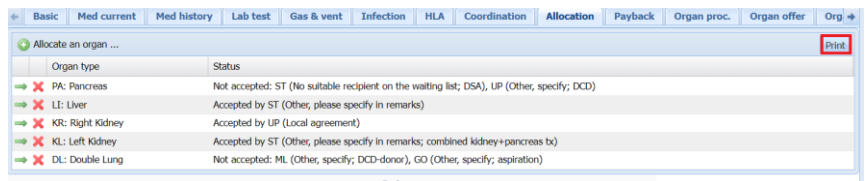
23/11/2021, 10:18:10

Coordination notes

Date	23-Nov-2021 10:17
Comment	This is a new way to see all comments
Date	23-Nov-2021 10:17
Comment	Contact with tissue typing lab. regarding xmatch, ready around 14:00
Date	23-Nov-2021 10:16
Comment	Awaiting CT answer before allocating the liver.
Date	23-Nov-2021 10:16
Comment	Lab test are ordered
Date	18-Nov-2021 00:44
Comment	Lab test are ordered until tomorrow

Deceased donor organ form

A new version of the organ form is now available through the 'Allocation' tab by clicking on the Print button:



Page and donor numbers on each page are still to come and so is also the evaluation of the content.

13/11/2021, 10:24:02

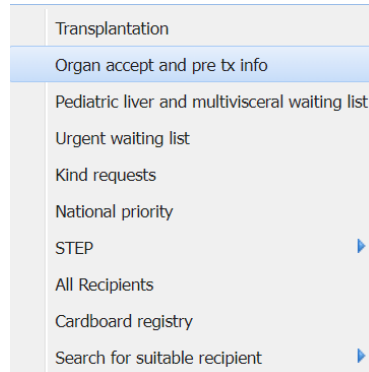
Organ Form - Deceased Donor

Date	23 Nov 2021	Surgeons	
Donor Proc. center	ST: Stockholm	Tx Coord	
Donor Hospital	11001: Karolinska sjukhuset	Phone	
Organ type		Signature	
Donor information			
Donor number		Initials	Date of Birth
Cause of death	40: Cerebral anoxia after cardiorespiratory arrest		Time of death
Local ID		Height	Weight 76.0
AB0 blood group	0	Rhesus D	NEG

Pre transplant information

A new menu 'Organ accept and pre tx info' has been added under 'Recipient':

DD project part 5, recipient pre tx



This menu lists all organs that have been accepted under 'Allocation' in deceased donor.

The screenshot shows a search interface for 'Organ accept and pre tx info'. It includes search filters for Donor number, Hospitalized in, Organ type, Cause, Procuring center, Organ to center, and Procurement. Below the filters is a table with the following columns: Donor number, Hospitalized in, Procuring cent..., Organ type, Last changed, Organ to center, Cause, Accept, Procurement, and Scandanumber. The table contains 13 rows of data.

Donor number	Hospitalized in	Procuring cent...	Organ type	Last changed	Organ to center	Cause	Accept	Procurement	Scandanumber
98510	S: Sweden	ST: Stockholm	LI: Liver	17-Nov-2021 ...	ST: Stockholm	10: Other, ple...	Y: Yes	P: Pending	
98510	S: Sweden	ST: Stockholm	KL: Left Kidney	17-Nov-2021 ...	ST: Stockholm	10: Other, ple...	Y: Yes	P: Pending	
98482	S: Sweden	ST: Stockholm	LI: Liver	09-Nov-2021 ...	ST: Stockholm	8: Local agree...	Y: Yes	N: No	
98466	S: Sweden	UP: Uppsala	LI: Liver	05-Nov-2021 ...	ST: Stockholm	8: Local agree...	Y: Yes	Y: Yes	
98463	S: Sweden	ST: Stockholm	KL: Left Kidney	04-Nov-2021 ...	ST: Stockholm	8: Local agree...	Y: Yes	P: Pending	
98461	S: Sweden	UP: Uppsala	KR: Right Kidn...	04-Nov-2021 ...	ST: Stockholm	10: Other, ple...	Y: Yes	P: Pending	
98452	S: Sweden	ST: Stockholm	KL: Left Kidney	02-Nov-2021 ...	ST: Stockholm	10: Other, ple...	Y: Yes	Y: Yes	
98452	S: Sweden	ST: Stockholm	LI: Liver	02-Nov-2021 ...	ST: Stockholm	10: Other, ple...	Y: Yes	Y: Yes	
98423	S: Sweden	ST: Stockholm	KL: Left Kidney	24-Oct-2021 2...	ST: Stockholm	20: No exchan...	Y: Yes	Y: Yes	
98423	S: Sweden	ST: Stockholm	LI: Liver	24-Oct-2021 2...	ST: Stockholm	20: No exchan...	Y: Yes	Y: Yes	
98418	S: Sweden	UP: Uppsala	KR: Right Kidn...	23-Oct-2021 0...	ST: Stockholm	8: Local agree...	Y: Yes	P: Pending	
98418	S: Sweden	UP: Uppsala	KL: Left Kidney	23-Oct-2021 0...	ST: Stockholm	20: No exchan...	Y: Yes	P: Pending	
98411	S: Sweden	UP: Uppsala	KL: Left Kidney	20-Oct-2021 2...	ST: Stockholm	8: Local agree...	Y: Yes	Y: Yes	

By clicking on each organ a new window will open up. Here you are able to add information about the recipient you plan to transplant with the specific organ. This can be used as a check list and as an overview of the planning.

The screenshot shows a detailed form for 'Organ accept and pre tx info'. It includes fields for Donor number (98510) and Organ type (KL: Left Kidney). The form is divided into sections: 'Recipient' (with fields for recipient name, combined transplantation, blood transfusion, informed about and fasting, dialysis, and remarks), 'Logistic around recipient' (with fields for recipient transport, recipient to hospital time, operating room/ward informed, tissue typing lab informed, crossmatch remarks, postop ward informed, and transplant surgeon informed), and 'Transplant time planning' (with fields for recipient to OR, start recipient surgery, start anesthesia, and organ to OR - transplant start). Each field has a time selection dropdown and a checkbox for 'N/A'.

Lab. values with more than one unit

In various places around the system we have lab. values with more than one unit, so each center can add and see results without converting.

With the update today each center is now only able to add results in the fields with the units that they use locally.

As an example (Swedish user) in deceased donor lab. values, you are only able to enter results in the white fields:

Lab. units customized for each center

Hospitalized in: S: Sweden Procuring center: UP: Uppsala

Date of lab.test: 20-Nov-2021 Time: 18:55 N/A:

Hemoglobin: 7.0 mmol/L 113 g/L

Trombocytes: 181 10⁹/L

K (Potassium): mmol/L

Lactate: mmol/L

LDH: 144 U/L 2.40 µkat/L

ASAT: 39 U/L 0.65 µkat/L

Gamma GT: 16 U/L 0.27 µkat/L

Alkaline phosphatase: 96 U/L 1.60 µkat/L

Amylase, pancreas: 26 U/L 0.43 µkat/L

Albumin: 34.0 g/l

PK-INR: 1.1

CRP: 60.0 mg/L

Troponin T: 145.00 ng/L

ACT (activated clotting time): sec

GFR: ml/min 1.73m²

Estimated Clearance a.m. Cockcroft: 121

Other:

Leucocytes: 14.10 10⁹/L

Na (Sodium): 139 mmol/L

Glucose: 8.5 mmol/L

Creatinine: 47 µmol/L

CK-MB: 5 µg/l 5000 ng/l

ALAT: 53 U/L 0.88 µkat/L

Bilirubin: 17.00 µmol/L

Amylase, total: U/L µkat/L

C-peptide: nmol/l

APTT: seconds

HbA1C: mmol/mol %

Troponin I: ng/L

GFR method:

This change has been applied all over the system except for the liver registry.

The units have been defined for each center, if you find anything wrong with what units are writeable please contact Ilse at the office.

Pediatric Renal Follow Up, graft loss cause

In the pediatric renal registry the possibility to register graft loss cause has now been added to the follow up

Pediatric Renal Follow Up information Info Back Save Reset

Scandia Number:

Surname:

Transplant center:

Latest reg:

Status Basic Immunosuppression Malignancies Rejections

FU date: 17-May-2021 Date of transplantation: 17-Nov-2020

Follow up status: 2: Alive with failed graft

Date of graft loss: 10-Nov-2021 Cause of graft loss:

Remarks graft loss:

Lost to FU:

0: Other

1: Hyperacute rejection (failure within 48 hours of transpl.)

10: Not investigated

2: Rejection while taking immunosuppressive drug(s)

3: Rejection after stopping all immunosuppressive drug(s)

4: Recurrent primary renal disease

5: Vascular or ureteric operative problems (not Code 6)

6: Vascular thrombosis not related to operation or rejection

7: Infection of graft

8: Removal of functioning graft

9: 'Non-viable' kidney

New deceased donor status

Donor status, when a potential donor ends up not becoming an eligible/actual or utilized donor.

With all the modifications done in YASWA regarding deceased donor registration several centers wants to use YASWA to register all potential donors.

In relation to this it is needed to state/conclude when a potential donor does not become a donor.

A 'No donor' conclusion is now found in YASWA, the status is deduced from the following fields 'Donation realized', 'Consent to donation' and 'Consent but no donation', thus it is recommend always to register information in these fields to get the right conclusion.

Donation realized: N: No [dropdown arrow] N: No donor

The deceased donor definition page has been updated accordingly:

http://www.scandiatransplant.org/data/Deceaseddonordefv_5.pdf

Liver offers for visceral and ped. liver recipient

When offering livers, that fulfill liver split criteria, to visceral and ped. liver recipients, it has been decided by NLTG and the tx coordinators that all centers with relevant recipients should receive the offer at the same time.

You do this by selecting 'P: Visceral and ped. liver centers' in the 'Organ offer' tab:

New organ offer functionalities

The fields in this tab should only be filled in, when an organ is to be offered

Send to SCTP: P: Visceral and ped. liver centers
A: All centers

Right Kidney: Liver-Domino: Heart:
Left Kidney: Liver-Split: Right Lung:
Pancreas: Left Lung:
Intestine:

Reason for refusal at centre of origin: Test Test test Test Test Test by Ilse D. Weinreich

When you click 'Send offer' SMS and e-mail is only sent to the centers that have recipients on the 'Pediatric and multivisceral waiting list' and to which the ABO blood group is defined as acceptable.

Liver size measurements

It has been decided by NLTG that donor liver offers should whenever possible include AP measurements and CT scan description/pictures and as many other details about the graft as possible.

Sharing of measurements is now supported with introduction of new fields in deceased donor 'Med current' tab:

New fields for liver measurements

Liver size measurement: Y: Yes

Anterior-posterior diameter: cm

Transverse diameter, left lobe: cm

For ped. tx, S2-3, thickness: cm

For ped. tx, S2-3, length: cm

Information is included in the organ offer form

The liver size assessment guidelines are found on the ScandiTransplant homepage

http://www.scanditransplant.org/organ-allocation/Liver_size_assessment.pdf

Visceral recipient categories

Deduce from the organs that the visceral recipients are waiting for the recipient are separated in two categories:

MV: Multivisceral (i.e. liver containing allograft)

II: Isolated intestine

Improved information on visceral recipients

This information has been added to the display on the 'Pediatric and multivisceral waiting list' and also to the pdf, that is distributed twice a week on e-mail.

Pediatric liver and multivisceral waiting list

[Enter search parameters]

ABO identical: ABO acceptable:

Scandian...	Cancer d...	Primary ...	Wait.days	Urgency	ABO	Entry on ...	Last change of urgency	Tx:center	Height	Wet...	Age	Tre...	Intestina...
→	N: No	F14: Met...	967	T: Tran...	0			GO: Göte...	134	24		LI: ...	
→	N: No	F14: Met...	335	T: Tran...	0			GO: Göte...	100	16		LI: ...	
→	N: No	IF: Func...	307	T: Tran...	B			GO: Göte...	173	68		OT: ...	MV: Multi...
→	N: No	IPO: Inte...	172	T: Tran...	B			GO: Göte...	163	43		OT: ...	II: Isolat...
→	N: No	M: Hepat...	157	T: Tran...	B			GO: Göte...	112	32		LI: ...	
→	N: No	F3: Meta...	144	T: Tran...	0			ST: Stock...	166	46		LI: ...	
→	N: No	IPO: Inte...	62	T: Tran...	A			GO: Göte...	168	40		OT: ...	MV: Multi...
→	N: No	C2: Cong...	17	T: Tran...	A			CP: Kebe...	69	8		LI: ...	

Page 1 of 1 | Order by: Cancer diagnosed ▼ Urgency ▲ Wait.days ▼ Last change of urgency ▲ | Displaying 1 - 8 of 8

List of recipients to be included in STEP match run

On recipients that are being prepared for an upcoming STEP match run you are now able to register on the waiting list, that you wish to include the patient/pair in a specific match run.

STEP registration of which pairs to include

The screenshot shows the 'STEP run remarks' section of a software interface. It includes a table with columns for 'Included in STEP run' and 'Remarks'. The table lists match runs 9 through 12 for the year 2022. Below the table, there are fields for 'STEP Donor', 'DSA', 'non-DSA', and 'non-bead'.

STEP Donor	DSA	non-DSA	non-bead
97725	A*0201,DQA1*0101...	A*0301,B*1501,B*3501,C*0303,C*0401,DPB1*0103,DPB1*0301,DPB1*0103,DPB1*0402,DRB...	DQA1*0101,DQB1*0301,DQA1*0509,DQB1*...

The next STEP match run in January 2022 will be match run no. 9, so for the recipients/pairs you wish to include you should select '9: 9th run 2022'.

By doing so you and the office will be able to bring forward a complete list of participating pairs before a match run. The new list is found through Recipient -> STEP -> Participating pairs.

The screenshot shows a dropdown menu for 'Recipient'. The 'STEP' option is selected, and a sub-menu is open showing 'Match run' and 'Participating pairs'. The 'Participating pairs' option is highlighted.

Selecting the specific match run followed by Search brings forward the relevant recipients.

The screenshot shows the 'STEP: Participating pairs' search results page. It includes search filters for 'Included in STEP run', 'Scandianumber', 'Age', 'Surname', 'First Name', 'Transplant Center', and 'ABO'. Below the filters is a table of results.

Included in ...	Scandianum...	Person Num...	Age	Surname	First Name	Transplant C...	ABO	Waiting list ...
9: 9th run 2...	205807					OD: Odense	0	N: Notified
9: 9th run 2...	205376					GO: Göteborg	0	N: Notified

STEP non acceptable antigens

STEP blocking of non-bead alleles

Over time we have seen that cycles have been broken due to the lack of Luminex beads for some antigens.

Currently the initial medical HLA STEP match is a one to one comparison between the Luminex beads and the donor HLA on 2nd field resolution.

The matching will proceed this way, however as a supplement it is now possible to list antigens on serological HLA level that you wish to block.

As an example there is currently no bead for C*0701 and if you know that you will not accept any C*07 subtypes for a specific recipient you can add Cw 7 as an non-acceptable antigen.

This is done on the recipient in the 'Fusion' tab:

The screenshot shows a software interface with several tabs: Basic info, Clinical data, Address/Phone, HLA Typing, Antibody Screen Test, Fusion, Acceptable Antibodies, Previous Mismatches, and Status. The 'Fusion' tab is active. Below the tabs is a table with columns 'Date of sample' and 'Antibodies'. The table contains three rows of data, each with a green arrow icon and a red 'X' icon. Below the table is a dropdown menu labeled 'STEP - Non acceptable antigens' with a red box around it. Below the dropdown are several input fields for HLA-A, HLA-B, HLA-Cw, HLA-DR, HLA-DQ, HLA-DP, HLA-DRB3/4/5, HLA-DQA, and HLA-DPA.

Date of sample	Antibodies
27-Jul-2021	B*44:02
23-Jan-2021	A*02:01 A*02:03 A*02:06 B*44:02
20-Oct-2020	A*02:01 A*02:06 B*15:11 B*15:13 B*44:02 B*46:01 B*52:01

STEP - Non acceptable antigens

HLA-A:

HLA-B:

HLA-Cw: 7

HLA-DR:

HLA-DQ:

HLA-DP:

HLA-DRB3/4/5:

HLA-DQA:

HLA-DPA:

STEP match run January 18th 2022

Next STEP match run

The next STEP match run will take place January 18th, 2022.

Deadlines for the upcoming STEP match run:

- Deadline for data entry in YASWA (new pairs and updates) is Wednesday January 12th, 2022 10:00 CET
- Scandiatransplant office will do a quality check on data and lists of pairs available though YASWA is ready to be confirmed by each center from January 12th, 2022
- Confirmation of pairs must be done to the Scandiatransplant office no later than Friday January 14th, 2022, 16:00 CET
- Results of STEP match run is sent out 18th of January 2022.