



SOAS

Swiss Organ Allocation System

CENTRALIZED ORGAN
ALLOCATION PROCESS

NATIONAL COORDINATORS
PERFORM AND ORGANIZE
THE ALLOCATIONS

LOCAL COORDINATORS
MANAGE THEIR RECIPIENTS
AND DONORS

AUTOMATIC CALCULATION
OF THE PRIORITY LIST

EACH ORGAN HAS SPECIFIC
ALLOCATION RULES

RECIPIENT FORMS

DONOR FORMS

ALLOCATION FORMS

HIGH LEVEL OF SECURITY
AND PROTECTION OF DATA

SYSTEM REDUNDANCY AND
DATA REPLICATION

STATISTICS

HISTORISATION OF ALL
CHANGES AND ACTIONS

UNITARY TESTS OF
ALLOCATION RULES

Messages

Recipients

Quality check
RS-2009-0221 Levert A.
New foreign recipients
RF-2009-0005 Dunant H.
Pending urgent renewals
RS-2009-0220 Fries E.
RS-2009-0192 Mannino J.
RS-2007-0299 Muehleemann V.
Pending offers
RS-2009-0124 Buchter F.
RS-2008-0591 Cadruvi D.
RS-2009-0037 Glassey L.
RS-2001-0214 Greuter B.
RS-2004-0141 Hürlimann D.
RS-2009-0137 Jeanrichard D.
RS-2008-0663 Keller D.
RS-2002-0400 TORCHE C.
Follow up / To archive
RS-2008-0461 Benato C.
RS-2008-0634 Brouchoud J.
RS-2009-0090 Brustolin G.
RS-2009-0124 Buchter F.

Recipients > RS-2009-0221 Levert A.

Validation

Quality check

Recipient

ID	HLA lab ID			
RS-2009-0221				
Last name	First name			
* Levert	* Albert			
Transplant center (Admin)				
* Inselspital Bern				
Status	Date			
Transplantable	05.05.2009 08:37:20			
ABO	Rh	Date of birth	Age	Height
* A	?	* 01.01.2000	9Y	* 18

Allocation process

Allocation is based on the priority list. The recipient at the top of the list has the priority. The national coordinator may allocate an organ to a specific recipient only if the transplantation will be reasonably successful. It may happen that the transplantation of the recipient on top of the list will not be reasonably successful. Therefore, according to the rules, the organ will be allocated to the next recipient with the highest priority, and where the transplantation can be done reasonably successfully.

With justification, an organ can be allocated to a recipient without following the allocation ranking or without calculating a priority list (related living donation).

Accept or decline an offer

The transplant center, which receives an offer, can, in a given time-frame, accept, accept under reserve or decline the offer. If the transplant center doesn't give an answer in the given time-frame, the national coordinator may revoke the offer.

Priority list

Each organ has its own and specific rules. The priority list of each organ can be calculated independently. Before the priority list can be calculated the allocation must be started. This will lock the donor data used for the allocation, the application detects if a "Partial Order" or "Total Order" can be calculated. The donor data, which may change the allocation priority, is locked during allocation.

Statistics

Coordinators and Administrators have access to the statistics. Depending on its right, the user gets a list of executable queries for the generation of data lists.

National coordinators

Can access, create and change information of all donors and recipients. They also perform and organize the allocations and manage the users of the application. They have access to all parts of the application. Medical advisors are defined as "National Coordinators" with read-only access.

Local coordinator

Can manage recipients and donors in their transplant center as well as donors in the detection and procurement hospital assigned to their center. They have access to the allocation priority lists, but can only see their own recipients. There is a read-only access to the data of specific donors whose organs are considered to be relevant for the transplant center's own recipients.

Messages

Recipients

Donors

Candidates

LR-2009-0029 Nikolic E.

Allocating

ST-2009-0051 Affolter S.

LR-2009-0030 César J.

FO-2009-0042 Hugo V.

ST-2009-0063 Machiavel N.

LD-2009-0032 Nietzsche F.

LA-2009-0031 Pagnol M.

Crossmatch

ST-2009-0051 Affolter S.

FO-2009-0042 Hugo V.

ST-2009-0063 Machiavel N.

LA-2009-0031 Pagnol M.

Follow up / To archive

ST-2009-0059 Breu E.

ST-2009-0037 Büchli M.

ST-2009-0052 Campos J.

FO-2009-0035 Cury

ST-2009-0061 D'Amico E.

LR-2009-0022 Favre F.

ST-2009-0060 Fonti N.

ST-2009-0055 heart D.

ST-2009-0062 Malotaj E.

FO-2009-0033 Mola E.

ST-2009-0050 Otz I.

ST-2009-0058 Parlascino U.

ST-2009-0054 Pollet F.

Donors > ST-2009-0051 Affolter S.

Allocation

ID, Name	ST-2009-0051 Affolter S.	Date of birth	04.03.1939 (70Y)
Proc. hosp.	ZH-USZ	Weight	85.0
HLA	A[1,2] B[8,60(40)] DR[4,8]	ABO	O

Heart Lung Liver Kidney Pancreas Small b

Step 1 18.04.2009 03:56:04 Time base Non urgent 18.04 2

Ext. criteria No Clamped

Rank	Alloc Time	MT	Recipient	TC
1(1)	04:51	U	RS-2007-0299 Muehleemann V.	VD-CHU
1(2)	05:09	U	RS-2009-0192 Mannino J.	BE-INSE
1(3)		U	RS-2009-0090 Brustolin G.	BE-INSE
1(4)	16:11	U	RS-2009-0137 Jeanrichard D.	BE-INSE
2			RS-2008-0358 Zaqaria S.	BE-INSE
3			RS-2008-0377 Haller H.	BE-INSE
4			RS-2008-0407 Lekic M.	VD-CHU
5			RS-2008-0410 Mollier K.	VD-CHU
6			RS-2008-0435 Schneider A.	BE-INSE
7			RS-2008-0491 Sandmeier M.	BE-INSE

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Show only recipients with action Hide declined and revoked

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FO-2009-0033 Mola E.

ST-2009-0050 Otz I.

ST-2009-0058 Parlascino U.

ST-2009-0054 Pollet F.

ST-2009-0035 Schiesser D.

FO-2009-0038 Seljimi Z.

ST-2009-0005 Yasar M.

ST-2009-0038 Zanini C.

Last accessed

ST-2009-0051 Affolter S.

FO-2009-0042 Hugo V.

ST-2009-0063 Machiavel N.

LD-2009-0032 Nietzsche F.

LR-2009-0029 Nikolic E.

Donors > LR-2009-0029 Nikolic E. Full

Donor

IDs	
ST-Nr	LR-2009-0029
Status	Registered
Last update	

Responsible HLA Laboratory

* USZ Zürich

Procurement hospital

* ZH-USZ

Service

Local coordinator / Contact

* Martin Wendt

National coordinator

-

Last name	First name	Residen
A Nikolic	A Ellis	St. G.

ABO	Rh	Date of birth	Age	Height
A O	+	A 02.06.1979	30Y	A 168 [cm]

Comment

Admission circumstances to hospital

Serology

Serology result expected at

HIV	Hepatitis B	Hepatitis C
Anti HIV 1 A -	Anti HBs +	Anti HCV
Anti HIV 2 A -	Anti HBc A -	HCV RNA
HIV Ag (p24) a -	Anti HBe ?	
HIV RNA 1 A ?	HBs Ag A -	
HIV RNA 2 A ?		

Transplant Procurement Manager

Manages the donors of a given hospital. They don't have access to any recipients, allocation data and parameterization.

National HLA Laboratory

The national HLA-Laboratory determines the HLA of all recipients, especially the ones in need of kidneys and pancreas/islets. This laboratory is also responsible for adding the kidney and pancreas/islets recipients to the waiting list.

Local HLA Laboratory

Have the same rights as local coordinators (access to recipients and donors of the corresponding transplant center). They can't access allocation, user management and parameterizat.

Peers

Peers can see recipients for a specific organ but can not modify data or access the allocation. Each peer is associated with a specific organ.

BAG

This role is for supervising purposes and have the same rights like National Coordinators, but with read-only access. Also, encrypted data like first name, last name and comments are hidden, except allocation justifications.

SOAS

Swiss Organ Allocation System



cai

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