

STAMP_lathund_version_23mar2009

1. General guidelines

Scandiatransplant Acceptable Mismatch Programme (STAMP)

Proposals from the Working Group:

Purpose: To increase the likelihood of offering a suitable kidney graft to highly immunised recipients, thus reducing their time on the waiting list.

Success criteria:

Reduced waiting time for highly immunised patients.

Acceptable frequency of when a shipped kidney not is transplanted to the indicated STAMP patient (< 10 %?).

Survival of grafts comparable to graft survival in PRA-negative patients.

Acceptance criteria (1 and 2)

1. “Highly Immunised” status; at least one year on the waiting list with proven reactivity against more than 80% of B/T panel cells (CDC) or panel HLA class I and II antigens (solid phase assays).
2. “Highly Immunised” status in at least two consecutive samples over a period of more than 3 months; the most recent sample drawn less than 3 months before acceptance.

Recipient HLA typing:

Recipient HLA-antigens must be assigned at split level, by serology or molecular typing.

Recipient acceptable HLA-antigens:

Definition of acceptable HLA-mismatches is performed by laboratory at recipient centre.

Acceptable mismatches may be HLA-A, -B, -DR, -DQ antigens.

Acceptable mismatches may include repeated mismatches from previous transplantations.

Definition of acceptable mismatches may be based on CDC and/or solid phase assays.

Wait listing and matching:

Recipients accepted for inclusion are specially marked in the waiting list base.

Recipients own antigens and the defined acceptable mismatches are treated like.

Recipients in the programme must be regularly screened at least every 3 months; PRA reactivity must be re-evaluated at least once a year.

Once accepted, patients will stay included even if PRA drops below 80%.

For each donor search, a special search among AM-recipients based on split level HLA typing is performed.

Exchange obligation is marked when the donor only has HLA-A,-B,-DR, -DQ antigen specified in the recipient as own or acceptable.

Exchange priority will follow Scandiatransplant rules and placed as priority number 5: *Patient with STAMP-status when all donor HLA-A, -B, -DR, -DQ antigens are either shared with the recipient or are among those defined as acceptable.* Return obligation as for other exchange rules.

Exchanged organ may be used for other local recipient if the indicated STAMP patient for any reason not can be transplanted.

A STAMP patient not transplanted with a shipped kidney because of a positive cross-match should be withdrawn from STAMP, re-evaluated and eventually re-admitted.

Only the centres joining STAMP have an obligation to exchange kidneys to a STAMP recipient.

Event reporting:

Donor centres must notify Scandiatriplant when exchanging a kidney to a STAMP recipient. Recipient centres must notify Scandiatriplant if the kidney is transplanted to somebody else than the indicated STAMP patient.

Recipient centre must give detailed follow-up information on performed transplantations.

ORGANIZATION**Steering committee:**

A steering committee (SC) for the project must be appointed by the board of Scandiatriplant. SC shall be composed by one tissue-typer from each of the countries Denmark, Finland, Norway and Sweden together with two representatives from the Nordic Kidney Group.

Proposals of STAMP candidates from individual centres must be evaluated and accepted by SC.

SC must keep updated on all effects of the programme, including:

- Number of exchanged organs.
- Changes in waiting time for STAMP recipients and for other waiting patients.
- Changed reactivity in individual waiting recipients
- Positive crossmatches at donor centre.
- Fate of performed transplants.

SC may decide to withdraw STAMP-status if antibody reactivity changes.

SC must give yearly status reports to Scandiatriplant.

2. Finding the menu for entering STAMP-data

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MAIN MENU

1. Organ Transplantation
2. Nordic Living Kidney Donor Follow-up
3. Nordic Liver Transplantation Registry
4. Nordic Thorax Transplantation Registry
5. Heart/Lung rotation list
6. Waiting list reports
7. Quality Control
8. Liver rotation list
9. Special reports
10. Exit

Enter your choice: 1_____
```

ORGAN TRANSPLANTATION

1. Recipient And Waiting List System
2. Organ Donor System
3. Transplantation And Follow Up
4. Search
5. Reports
6. Previous Menu

Enter your choice: 1_____

Application: SCTP_UK

Menu: ORGANTRANS v

<Rep>

RECIPIENT SYSTEM

1. Registration Of New Patient
2. Updating Of Waiting List Data
3. Antibody Screen Test
4. STAMP - Acceptable Mismatches Programme
5. Withdrawal From Waiting List
6. Previous Menu

Enter your choice: 4_____

Application: SCTP_UK

Menu: RECIPIENT v ^

<Rep>

STAMP - Acceptable Mismatches Programme

1. STAMP pre transplantation
2. Patients being prepared for STAMP
3. Patients ready to go on STAMP
4. Patients on STAMP
5. Patients temporarily off STAMP
6. Previous Menu

Enter your choice: 1_____

Application: SCTP_UK

Menu: STAMP v

<Rep>

3. STAMP - Acceptable Mismatches Programm

Any patient with a treatment record – meaning that they are actively on a waiting list with an urgency :

T = Transplantable

NT = Temporarily not transplantable

WU = Temporarily withdrawn until specified date

Can be looked up in “STAMP pre transplantation”

If you are unable to query the patients, it means;

That the individual has not been Notified to the waiting list yet – OR-

That person has newer been entered into the system – OR –

That you use a wrong Scandia-/Person-number

STAMP - ACCEPTABLE MISMATCHES PROGRAMME		9201
Scandia Number	_____	Pers Num <u>111111 11111</u> Sex <input checked="" type="checkbox"/> _____ ABO _____
Surname	_____	First name _____
Tx Center	_____	Country _____
Curr wait list	_____	Wl status _____ Wait for tx number _____
Date of wl entry	_____	Dial/Tr cn _____
Narr eq ser HLA	_____	
Repea mismatches	_____	
Most recent PRA 1	I% _____	II% _____
Most recent PRA 2	I% _____	II% _____
Identif antib	_____	
Date of accept	_____	Sign up _____ Status _____
Methods of determ	_____	
Acc. mismatches	_____	
Comments	_____	
Event log	_____	
Date/User of First Reg/Last Change	_____	

Enter a query: press F12 to execute, F4 to cancel.

Count: *0

ENTER QUERY

<Replace>

3.1 STAMP pre transplantation

3.1.1 Checking for Acceptance criteria

Acceptance criteria (1 and 2)

1. “Highly Immunised” status; at least one year on the waiting list with proven reactivity against more than 80% of B/T panel cells (CDC) or panel HLA class I and II antigens (solid phase assays).
2. “Highly Immunised” status in at least two consecutive samples over a period of more than 3 months; the most recent sample drawn less than 3 months before acceptance.

Here is a patient that fulfill the criteria:

STAMP - ACCEPTABLE MISMATCHES PROGRAMME		9201
Scandia Number	<u>126645</u>	Pers Num <u>210563 1111</u> Sex <u>M Male</u> ABO <u>AB</u>
Surname	<u>test person</u>	First name <u>test person</u>
Tx Center	<u>AR Aarhus</u>	Country <u>DK Denmark</u>
Curr wait list	<u>KI Kidney</u>	Wl status <u>N</u> Wait for tx number <u>1</u>
Date of wl entry	<u>01-JAN-2006</u>	Dial/Tr cn <u>AC Aarhus</u>
Narr eq ser HLA	<u>A 1,2;B 5,7;DR 1,2;</u>	
Repea mismatches	_____	
Most recent PRA 1	<u>01-JAN-2008 I% 55 AUTO</u>	<u>II% 89 BLOCK</u>
Most recent PRA 2	<u>26-JAN-2007 I% 100 CDC</u>	<u>II% _____</u>
Identif antib	<u>A3,+X;Cw4,5;DQ1,+X;DR10</u>	
Date of accept	<input checked="" type="checkbox"/> _____	Sign up _____ Status _____
Methods of determ	_____	
Acc. mismatches	_____	
Comments	_____	
Event log	_____	
Date/User of First Reg/Last Change	_____	

Count: *0

<Replace>

3.1.2 Entering STAMP data

First enter "Date of accept" and press <F10>

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STAMP - ACCEPTABLE MISMATCHES PROGRAMME          9201
Scandia Number  126645      Pers Num 210563 1111  Sex M Male  ABO AB
Surname          test person      First name test person
Tx Center        AR Aarhus        Country   DK Denmark
Curr wait list   KI Kidney        Wl status N Wait for tx number 1
Date of wl entry 01-JAN-2006      Dial/Tr cn AC Aarhus
Narr eq ser HLA  A 1,2;B 5,7;DR 1,2;
Repea mismatches
Most recent PRA 1 01-JAN-2008 I% 55 AUTO          II% 89 BLOCK
Most recent PRA 2 26-JAN-2007 I% 100 CDC          II%
Identif antib    A3,+X;Cw4,5;DQ1,+X;DR10

Date of accept   26-JAN-2009      Sign up N No          Status I Inactive
Methods of determ -
Acc. mismatches -
Comments
Event log
Date/User of First Reg/Last Change 26-JAN-2009 SCTP

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FRM-40400: Transaction complete -- 1 records posted and committed.
Count: *0                                     <Replace>

```

Now you can go to "Methods of determ" and get a POP-UP window using <F7>
 Here you can as usually select one to many values via the list selected by pressing <F5>.

```

STAMP - ACCEPTABLE MISMATCHES PROGRAMME          9201
Scandia Number  126645      Pers Num 210563 1111  Sex M Male  ABO AB

Find: _____

SUBSET Examination of lymphocyte subset reactivity
CLASS Immunoglobulin class examination
AUTO  Autoantibody examination
BLOCK Antibody blocking evaluation
THROMB Thrombocyte absorption examination
OTHER Other routines
FLOW  FLOW-PRA
CDC   Complement Dependent lymphocyte Cytotoxicity test

Event log
Date/User of First Reg/Last Change 26-JAN-2009 SCTP

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Press F10 to pick selection, F4 to cancel.
Count: *0                                     <List><Replace>

```

Save your input by pressing <F10> and go back by pressing <F4> to select "Acc mismatches"
 - again you use <F7> to come into the POP-UP.

**Please note that the patients own A-, B-, and DR- Tissue types can't be selected.
 However the patients acceptable DQ- must also contain the patients own DQ**

STAMP - ACCEPTABLE MISMATCHES PROGRAMME 9201

Scandia Number 126645 Pers Num 210563 1111 Sex M Male ABO AB

Acc misma		HLA-B	Antibodies
A	B	Find: _____	5;DQ1,+X;DR10
_____	_____	703	_____
_____	_____	8	_____
_____	_____	12	_____
_____	_____	13	_____
_____	_____	14	_____
_____	_____	15	_____
_____	_____	16	_____
_____	_____	v 17	_____

ismatches

Press F10 to pick selection, F4 to cancel.
 Count: *0 <List><Replace>

STAMP - ACCEPTABLE MISMATCHES PROGRAMME 9201

Scandia Number 126645 Pers Num 210563 1111 Sex M Male ABO AB

Acc mismatches				Identified Antibodies
A	B	DR	DQ	A3,+X;Cw4,5;DQ1,+X;DR10;
<u>3</u>	<u>703</u>	<u>9</u>	<u>4</u>	_____
<u>11</u>	<u>21</u>	<u>13</u>	<u>9</u>	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Repeated Mismatches

Count: *2 <List><Replace>

Save your input by pressing <F10> and go back by pressing <F4> to enter additional comments in "Comments" - OR - to just leave the patient for now.

STAMP - ACCEPTABLE MISMATCHES PROGRAMME 9201

Scandia Number 126645 Pers Num 210563 1111 Sex M Male ABO AB

Surname test person First name test person
 Tx Center AR Aarhus Country DK Denmark
 Curr wait list KI Kidney Wl status N Wait for tx number 1
 Date of wl entry 01-JAN-2006 Dial/Tr cn AC Aarhus
 Narr eq ser HLA A 1,2;B 5,7;DR 1,2;DQ 4,9;
 Repea mismatches _____
 Most recent PRA 1 01-JAN-2008 I% 55 AUTO II% 89 BLOCK
 Most recent PRA 2 26-JAN-2007 I% 100 CDC II% _____
 Identif antib A3,+X;Cw4,5;DQ1,+X;DR10

Date of accept 26-JAN-2009 Sign up Y Yes Status A Active
 Methods of determ CDC, FLOW
 Acc. mismatches A3,11;B703,21;DQ4,9;DR9,13
 Comments this is freetext for additional comment
 Event log _____
 Date/User of First Reg/Last Change 26-JAN-2009 SCTP 26-JAN-2009 SCTP

Count: *1 <Replace>

3.3 Patients ready to go on STAMP

When you believe that sufficient data has been entered, and you want to get the patient activated on the STAMP program, you have to change "Status" from I = Inactive to A = Active

STAMP - ACCEPTABLE MISMATCHES PROGRAMME		9201
Scandia Number	<u>126645</u>	Pers Num <u>210563 1111</u> Sex <u>M Male</u> ABO <u>AB</u>
Surname	_____	First name <u>test person</u>
Tx Cent	AMP Status	Country <u>DK Denmark</u>
Curr wa	Find: _____	Wl status <u>N</u> Wait for tx number <u>1</u>
Date of		Dial/Tr cn <u>AC Aarhus</u>
Narr eq		<u>2;</u>
Repea m	A Active	<u>5 AUTO</u> II% <u>89 BLOCK</u>
Most re	I Inactive	<u>0 CDC</u> II% _____
Identif		<u>X:DR10</u>
Date of		Sign up <u>N No</u> Status <u>A Active</u>
Methods		<u>R9_13</u>
Acc. mi		for additional comment
Comment		
Event log		
Date/User of First Reg/Last Change	<u>26-JAN-2009 SCTP</u>	<u>26-JAN-2009 SCTP</u>

Press F10 to pick selection, F4 to cancel.
 Count: *1 <List><Replace>

You will then get a note, that an Email was send to the STAMP committee – Please acknowledge that message by pressing <ENTER>

STAMP - ACCEPTABLE MISMATCHES PROGRAMME		9201
Scandia Number	<u>126645</u>	Pers Num <u>210563 1111</u> Sex <u>M Male</u> ABO <u>AB</u>
Surname	<u>test person</u>	First name <u>test person</u>
Tx Center	<u>AR Aarhus</u>	Country <u>DK Denmark</u>
Curr wait list	<u>KI Kidney</u>	Wl status <u>N</u> Wait for tx number <u>1</u>
Date of wl entry	<u>01-JAN-2006</u>	Dial/Tr cn <u>AC Aarhus</u>
Narr eq ser HLA	<u>A 1,2;B 5,7;DR 1,2;</u>	
Repea mismatches		
Most recent PRA 1	<u>01-JAN-2008 I% 55 AUTO</u>	II% <u>89 BLOCK</u>
Most recent PRA 2	<u>26-JAN-2007 I% 100 CDC</u>	II% _____
Identif antib	<u>A3,+X:Cw4,5;DQ1,+X:DR10</u>	
Date of accept	<u>26-JAN-2009</u>	Sign up <u>N No</u> Status <u>A Active</u>
Methods of determ	<u>CDC.FLOW</u>	
Acc. mismatches	<u>A3,11;B703,21;DR9,13</u>	
Comments	<u>this is freetext for additional comment</u>	
Event log		
Date/User of First Reg/Last Change	<u>26-JAN-2009 SCTP</u>	<u>26-JAN-2009 SCTP</u>

Email sent to STAMP committee
 Please acknowledge message. (Ok)

An Email has now been send to the committee and they will then go trough the patient to see if the person is valid for the program.

▼ **Subject:** STAMP: YI->YA #3
From: reccmo@scandiatransplant.org
Date: 23-03-2009 09:11
To: reccmo@daimi.au.dk , frank.pedersen@scandiatransplant.org , reccmo@scandiatransplant.org

Scand 3 updated 01-SEP-2008 by SCTP: Signed up, changed status to Active

For:

Against:

Conclusion:

NOTE: When at least two of the Committee members has accepted the candidate, the "Sign up" will be altered from N = NO to Y = Yes

3.6 Printout off STAMP information

When you have a STAP-patient on screen you can press <Ctrl-p> to print or display the data.

STAMP - ACCEPTABLE MISMATCHES PROGRAMME		9201
Scandia Number	<u>126645</u>	Pers Num <u>210563 1111</u> Sex <u>M Male</u> ABO <u>AB</u>
Surname	<u>test person</u>	First name <u>test person</u>
Tx Center	<u>AR Aarhus</u>	Country <u>DK Denmark</u>
Curr wait list	<u>KI Kidney</u>	Wl status <u>N</u> Wait for tx number <u>1</u>
Date of wl entry	<u>01-JAN-2006</u>	Dial/Tr cn <u>AC Aarhus</u>
Narr eq ser HLA	<u>A 1,2;B 5,7;DR 1,2;DQ 4,9;</u>	
Repea mismatches		
Most recent PRA 1	<u>01-JAN-2008 I% 55 AUTO</u>	II% <u>89 BLOCK</u>
Most recent PRA 2	<u>26-JAN-2007 I% 100 CDC</u>	II% <u></u>
Identif antib	<u>A3,+X;Cw4,5;DQ1,+X;DR10</u>	
Date of accept	<u>26-JAN-2009</u>	Sign up <u>Y Yes</u> Status <u>A Active</u>
Metho		
Acc.	STAMP REPORT	
Comme		
Event	■ <RETURN>: print report, <F7>: display report, <F4>: cancel.	
Date/	TP	

Count: *0

<Replace>

And her you have the look of a typical printout

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SCANDIATRANSPLANT                                     stamp_details
Report produced: 18-MAR-2009 13:50 requested by user: SCTP      Page 1

*-----*
|                                     STAMP details                                     |
*-----*

Scandianumber:           126645
Person number:           210563-1111
Gender:                   M Male
Name:                     test person, test person
Country:                  DK Denmark
Tx-Center:                AR Aarhus
Dialysis/Treatment center: AC Aarhus
Waiting list:             KI Kidney
Date of entry on waiting list: 01-JAN-2006
Waiting list status:     N Notified
Waiting for tx number:    1
Blood group:              AB
Narrow HLA:               A 1,2;B 5,7;DR 1,2;DQ 4,9;
Repeated mismatches:
Antibody Screen Test:    01-JAN-2008 I% 55 AUTO II% 89 BLOCK
                        26-JAN-2007 I% 100 CDC II%
Identified antibodies:    A3,+X;Cw4,5;DQ1,+X;DR10
Date of acceptance on STAMP: 26-JAN-2009
Signed up:                Y Yes
STAMP status:            A Active
Determination methods:   CDC, FLOW
Acceptable mismatches:   A3,11;B703,21;DQ4,9;DR9,13
Comments:                 this is freetext for additional comment
STAMP events:            Y:A:26-FEB-2009:SCTP,N:I:26-JAN-2009:SCTP,
                        N:A:26-JAN-2009:SCTP,Y:A:26-JAN-2009:SCTP,
                        Y:I:26-JAN-2009:SCTP
First registered:        26-JAN-2009 SCTP
Last changed:            26-JAN-2009 SCTP

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4. STAMP – Questions and Answers

Q: Will the STAMP search handle the acceptable A19 splits adequately, when the patient is immunised against other A19 splits and A19 is a repeat MM?

A: Yes, even if you request the system to leave out patients with previous mismatches a priority 5 patient will be shown.

Q: Can we list own antigens as unacceptable?

A: No that is not possible.