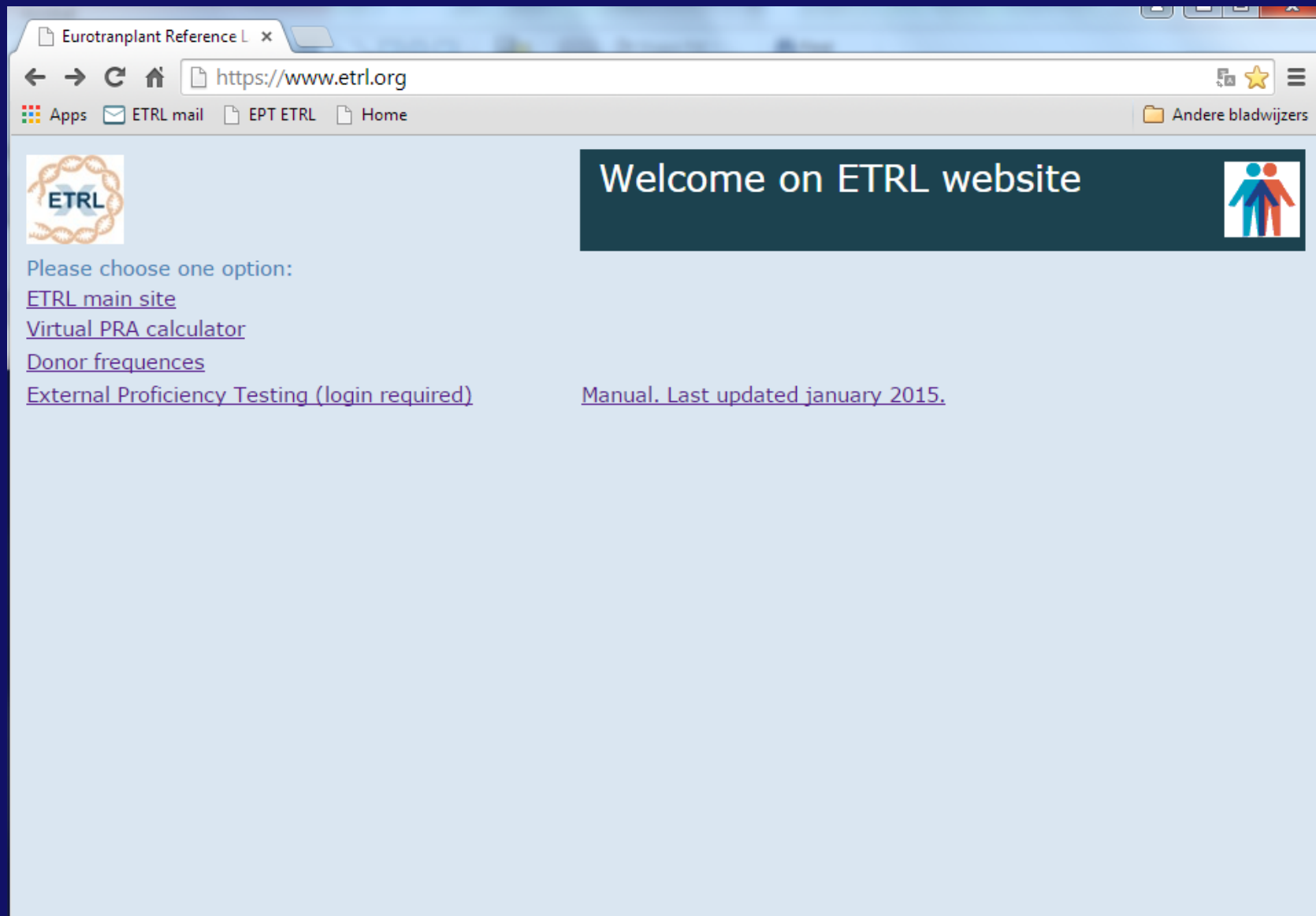


Eurotransplant External Proficiency Testing

- **Web based data entry; An update**
- **Proposal to change the EPT Schemes**









Eurotransplant Reference L x

← → ↻ 🏠 <https://www.etr.org> 🌟 ☰

📁 Apps 📧 ETRL mail 📄 EPT ETRL 🏠 Home 📁 Andere bladwijzers



Welcome on ETRL website



Please choose one option:

- [ETRL main site](#)
- [Virtual PRA calculator](#)
- [Donor frequencies](#)
- [External Proficiency Testing \(login required\)](#)

[Manual. Last updated january 2015.](#)

Roles:

Each center has at least one authorizer and can have one or more administrators and users:

- User (can only enter results of typing, cross matching and screening)
- Administrator (can enter results, can change center data like address, can add and remove users)
- **New!** : Authorizer (similar to administrator, can also authorize results)



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Category:



Description	Category	Method	Shipment date	Due date	Last	Auth
2015 January-D (2015-01, 2015-A)	Crossmatching	CDC	27-01-2015	10-02-2015	T.W.M	
2015 January-D (2015-01, 2015-B)	Crossmatching	CDC	27-01-2015	10-02-2015	T.W.M	
2015 January-D (2015-01, 2015-C)	Crossmatching	CDC	27-01-2015	10-02-2015	T.W.M	
2015 January-D (2015-02, 2015-A)	Crossmatching	CDC	27-01-2015	10-02-2015	T.W.M	
2015 January-D (2015-02, 2015-B)	Crossmatching	CDC	27-01-2015	10-02-2015	T.W.M	
2015 January-D (2015-02, 2015-C)	Crossmatching	CDC	27-01-2015	10-02-2015	T.W.M	
2015 January-D (2015-03, 2015-A)	Crossmatching	CDC	27-01-2015	10-02-2015	T.W.M	
2015 January-D (2015-03, 2015-B)	Crossmatching	CDC	27-01-2015	10-02-2015	T.W.M	
2015 January-D (2015-03, 2015-C)	Crossmatching	CDC	27-01-2015	10-02-2015	T.W.M	
2015 (2015-A)	Screening detection		27-01-2015	15-07-2015	S.Y.Stb	
2015 (2015-B)	Screening detection		27-01-2015	15-07-2015		
2015 (2015-C)	Screening detection		27-01-2015	15-07-2015		
2015 (2015-D)	Screening detection		27-01-2015	15-07-2015		
2015 (2015-E)	Screening detection		27-01-2015	15-07-2015		
2015 (2015-F)	Screening detection		27-01-2015	15-07-2015		
2015 (2015-G)	Screening detection		27-01-2015	15-07-2015		
2015 (2015-H)	Screening detection		27-01-2015	15-07-2015		
2015 (2015-I)	Screening detection		27-01-2015	15-07-2015		
2015 (2015-J)	Screening detection		27-01-2015	15-07-2015		
2015 (2015-K)	Screening detection		27-01-2015	15-07-2015		
2015 (2015-L)	Screening detection		27-01-2015	15-07-2015		
2015 (2015-A)	Screening identification	CDC	27-01-2015	15-07-2015		
2015 (2015-A)	Screening identification	SPA SA One Lambda	27-01-2015	15-07-2015	S.Y.Stb	
2015 (2015-B)	Screening identification	CDC	27-01-2015	15-07-2015		
2015 (2015-B)	Screening identification	SPA SA One Lambda	27-01-2015	15-07-2015	S.Y.Stb	
2015 (2015-C)	Screening identification	CDC	27-01-2015	15-07-2015		

Authorize Summary Add Method Edit Delete



Typing

Center: 1902
 Period: 2015
 Shipment: 2015 feb



EPT	Class I											Class II									
	Method			HLA								Method			HLA						
	CDC	viab	DNA	A	A	B	B	Bw	Bw	Cw	Cw	CDC	viab	DNA	DR	DR	DR	DR	DR	DQ	DQ
2015-01	x	81-100%	x	A1	A11	B46	B56(22)	No	Yes	Cw15	Cw18	-		x	DR3	DR7	Yes	Yes	No	DQ2	DQ4
2015-02	x	81-100%	x	A3	A66(10)	B27	B48	Yes	Yes	Cw7	Cw14	-		x	DR4	DR14(6)	Yes	Yes	No	DQ8(3)	DQ7(3)
2015-03	x	81-100%	-	A11	A26(10)	B44(12)	B45(12)	Yes	Yes	Cw5	Cw7	x	81-100%	x	DR15(2)	DR11(5)	Yes	No	Yes	DQ6(1)	DQ7(3)

Cross Matching

Center: 1902
 Period: 2015
 Shipment: 2015 feb
 Receipt Date: 22-01-2015
 Test Date: 24-01-2015



EPT	Serum	Method		Unseparated		T cells		B cells		Final results	
		CDC	FCM	(-)DTT	(+)DTT	(-)DTT	(+)DTT	(-)DTT	(+)DTT	(-)DTT	(+)DTT
2015-01	2015-A	x	-	Pos	Pos					Pos	Pos
2015-01	2015-B	x	-	Neg	Neg	Neg	Neg	Neg	Neg	Neg	Neg
2015-01	2015-C	x	-	Neg	Neg	Neg	ND	Neg	ND	Neg	Neg
2015-02	2015-A	x	-	Pos	Pos	Pos	Pos	Pos	Pos	Pos	Pos
2015-02	2015-B	x	-	Pos	Neg					Pos	Neg
2015-02	2015-C	x	-	Neg	Neg	Neg	Neg	ND	ND	Neg	Neg

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Description	Category	Method	Shipment date	Due date	Last	Auth
2015 January-D (2015-01, 2015-A	Crossmatching	CDC	27-01-2015	11-02-2015	S.Y.Ste	S.Y.Ste
2015 January-D (2015-01, 2015-B	Crossmatching	CDC	27-01-2015	11-02-2015	T.W.M	S.Y.Ste
2015 January-D (2015-01, 2015-C	Crossmatching	CDC	27-01-2015	11-02-2015	T.W.M	S.Y.Ste
2015 January-D (2015-02, 2015-A	Crossmatching	CDC	27-01-2015	11-02-2015	T.W.M	S.Y.Ste
2015 January-D (2015-02, 2015-B	Crossmatching	CDC	27-01-2015	11-02-2015	T.W.M	S.Y.Ste
2015 January-D (2015-02, 2015-C	Crossmatching	CDC	27-01-2015	11-02-2015	T.W.M	S.Y.Ste
2015 January-D (2015-03, 2015-A	Crossmatching	CDC	27-01-2015	11-02-2015	T.W.M	S.Y.Ste
2015 January-D (2015-03, 2015-B	Crossmatching	CDC	27-01-2015	11-02-2015	T.W.M	S.Y.Ste
2015 January-D (2015-03, 2015-C	Crossmatching	CDC	27-01-2015	11-02-2015	T.W.M	S.Y.Ste

Authorize Summary Add Method **View** Delete



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Crossmatching - 2015 January-D

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Cell number:
Serum number:
Method: CDC
Date received: 29-01-2015
Test date: 30-01-2015
Unseparated (-) DTT: Neg
Unseparated (+) DTT: Neg
T Cells (-) DTT:
T Cells (+) DTT:
B Cells (-) DTT:
B Cells (+) DTT:
Final results (-) DTT: Neg
Final results (+) DTT: Neg
Authorized by: S.Y.Stein@lumc.nl
Authorized date: 10-02-2015

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Crossmatching - 2015 January-D

Cell number:

Serum number:

Method: CDC

Date received: ←

Test date:

Unseparated (-) DTT:

Unseparated (+) DTT:

T Cells (-) DTT:



T Cells (+) DTT:

B Cells (-) DTT:

B Cells (+) DTT:

Final results (-) DTT:

Final results (+) DTT:

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Screening - Antibody detection - 2015

EPT: 2015-A

Date received: ←

Test date: ←

- CDC -

	Panel (N)	PRA
(-) DTT: →	<input type="text"/>	<input type="text"/>
(+) DTT: →	<input type="text"/>	<input type="text"/>

- FCM -

	Panel (N)	PRA
Class I: →	<input type="text"/>	<input type="text"/>
Class II: →	<input type="text"/>	<input type="text"/>

- Luminex -



	Class I	Class II
Provider:	<input type="text"/>	<input type="text"/>

- Elisa -

	Class I	Class II
Elisa:	<input type="text"/>	<input type="text"/>

- Final conclusion -

	Class I	Class II
Antibodies:	<input type="text"/>	<input type="text"/>

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Shipment:

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Period	Category	Title
2014	Typing	tYPING 2014 01 03
2014	Typing	Typing 2014-05A
2014	Typing	2014-05B
2014	Typing	Typing 2014 01 02 03

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Eurobranslet EPT Typing 2014-01 02 03

CEN		EPT	CDC	vsab	DNA	A	A	B	B	Swab	Swab	Cw	Cw	CDC	vsab	DNA	DRB1	DRB1	DRB3	DRB4	DRB5	DRB1	DRB1
Con	GD14-41	-	-	-	A2B	-	044123	051103	Yes	No	Cw1	Cw1	-	-	-	-	DR1303	-	Yes	No	No	DG911	-
UKD	GD14-41	x	81-100%	x	A2B	-	044123	051103	Yes	No	Cw1	Cw1	-	-	x	-	DR1303	-	Yes	No	No	DG911	-
Dem1	GD14-41	x	81-100%	x	A2B	A2B	051303	044123	Yes	No	Cw1	Cw1	-	-	x	-	DR1303	DR1303	Yes	No	No	DG911	DG911
BT	GD14-41	-	-	-	A2B	-	044123	051103	Yes	No	Cw1	Cw1	-	-	-	-	DR1303	-	-	-	-	-	-
NLB	GD14-41	-	-	-	A2B	-	044123	051103	-	-	Cw1	Cw1	-	-	-	-	DR1303	-	-	-	-	-	-
Net1	GD14-41	x	81-100%	x	A2B	-	051303	044123	Yes	No	Cw1	Cw1	-	-	x	-	DR1303	-	Yes	No	No	DG911	-
Net1	GD14-41	x	81-100%	x	A2B	-	051303	044123	Yes	No	Cw1	Cw1	-	-	x	-	DR1303	-	Yes	No	No	DG911	-
Method																							
CEN	EPT	CDC	vsab	DNA	A	A	B	B	Swab	Swab	Cw	Cw	CDC	vsab	DNA	DRB1	DRB1	DRB3	DRB4	DRB5	DRB1	DRB1	
Con	GD14-42	-	-	-	A2	A11	035	050340	No	Yes	Cw3	Cw3	-	-	-	-	DR4	DR1103	Yes	Yes	No	DG103	DG103
UKD	GD14-42	x	81-100%	x	A2	A11	035	050340	No	Yes	Cw3	Cw3	-	-	x	-	DR4	DR1103	Yes	Yes	No	DG103	DG103
Dem1	GD14-42	x	81-100%	x	A2	A11	035	050340	No	Yes	Cw3	Cw3	-	-	x	-	DR4	DR1103	Yes	Yes	No	DG103	DG103
BT	GD14-42	-	-	-	A2	A11	035	050340	Yes	No	Cw3	Cw3	-	-	-	-	DR4	DR1103	Yes	Yes	No	DG103	DG103
NLB	GD14-42	-	-	-	A2	A11	035	050340	-	-	Cw3	Cw3	-	-	-	-	DR4	DR1103	-	-	-	-	-
Net1	GD14-42	x	81-100%	x	A2	A11	050340	035	No	Yes	Cw3	Cw3	-	-	x	-	DR4	DR1103	Yes	Yes	No	DG103	DG103
Net1	GD14-42	x	81-100%	x	A2	A11	050340	035	No	Yes	Cw3	Cw3	-	-	x	-	DR4	DR1103	Yes	Yes	No	DG103	DG103
Method																							
CEN	EPT	CDC	vsab	DNA	A	A	B	B	Swab	Swab	Cw	Cw	CDC	vsab	DNA	DRB1	DRB1	DRB3	DRB4	DRB5	DRB1	DRB1	
Con	GD14-43	-	-	-	A2	A31103	035	051171	Yes	Yes	Cw4	Cw4	-	-	-	-	DR1	DR3	Yes	No	No	DG2	DG111
UKD	GD14-43	x	81-100%	x	A2	A31103	035	051171	Yes	Yes	Cw4	Cw4	-	-	-	-	DR1	DR3	Yes	No	No	DG2	DG111
Dem1	GD14-43	x	81-100%	x	A2	A31103	051171	035	Yes	Yes	Cw4	Cw4	-	81-100%	x	-	DR1	DR3	Yes	No	No	DG2	DG111
BT	GD14-43	-	-	-	A2	A31103	035	051171	Yes	Yes	Cw4	Cw4	-	-	-	-	DR1	DR3	Yes	No	No	DG2	DG111
NLB	GD14-43	-	-	-	A2	A31103	035	051171	-	-	Cw4	Cw4	-	-	-	-	DR1	DR3	-	-	-	-	-
Net1	GD14-43	x	81-100%	x	A2	A31103	051171	035	Yes	Yes	Cw4	Cw4	-	-	x	-	DR1	DR3	Yes	No	No	DG2	DG111
Net1	GD14-43	x	81-100%	x	A2	A31103	051171	035	Yes	Yes	Cw4	Cw4	-	-	x	-	DR1	DR3	Yes	No	No	DG2	DG111

07-03-2014 1/1



Close

September 2014: entering data from shipment of September (Typ/XM) for all centers in the "old" way and try out of the website.

Beginning January 2015; Small adaptations to the website on the base of comments from users.

New manual published on the site.

January 2015: First Data entry for Cross matching and Typing done via the website.

June/July 2015: First Data entry for Antibody Screening via the website.

- The Web Site has gone live.
- First typing and cross matching results have been entered by the centers and at the ETRL the first reports are being made and uploaded to the site.
- A few problems had to be solved, e.g. problems with authorization in some centers.
- The site will be further adapted to the wishes of the users and the ETRL during this year.
- If you have questions or remarks contact us here or at **etrl@eurotransplant.org**

Proposal to change the EPT schemes



Current situation

EPT based on final results versus based on techniques

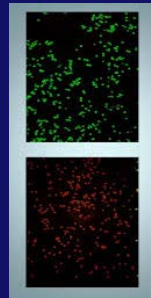
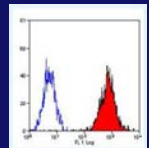
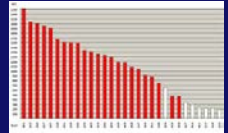
- Original goal EPT: compare typing, screening and cross match data to get consistent results between ET affiliated labs.
 - Screening detection: only final results (presence/absence HLA antibodies) are analyzed.
 - Cross Matching: all results are analyzed, final results most important.

- EFI accreditation is mandatory for ET affiliated labs, but demands EPT on a technique based level.

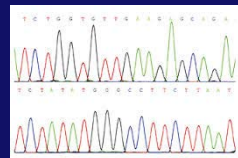
- Proposal for EPT scheme changes from 2016

EPT for EFI accreditation

1. Screening detection will be analyzed on basis of techniques used
2. Screening Identification (CDC and SPA SA)
3. Typing: For Class I, scoring of serological results and DNA results separated
4. Cross-match (CDC)



Certificates will show which technique(s) the center uses and fulfills.



For ET affiliated labs it is important to see how decisions are made before and during donor procedures.

Definition of serological equivalents of EPT typing (final results) should be submitted to the ETRL.

The ETRL proposes to organize, next to the usual EPT schemes, a more patient oriented scheme. This scheme will be compulsory for ET affiliated centers.

Main goal: discuss the results and policies in the different centers to get maximum consistency within ET affiliated centers



1. Paper-based exercise

- Centers will receive raw data of results from tests of a number of actual patient and donor combinations (typing of patient and donor, immunizing events, antibody status, cross match results)
- Data will be interpreted by the centers according to local practice, results will be submitted to the ETRL
- Data will be analyzed at the ETRL and discussed at the extramural meetings

A female patient in the AM program.

Typing: A3, A26, A10, B44, B12, B38, B16, Cw7, Cw12, Bw4, DR1, DR13, DR6, DR52, DQ5, DQ6, DQ1

Child 1: A1, A26, A10, B8, B38, Cw7, Cw12, Bw4, Bw6, DR1, DR13, DR6, DR52, DQ5, DQ6, DQ1

Child 2: A2, A26, A10, B38, B61, Cw2, Cw12, Bw4, Bw6, DR1, DR13, DR6, DR52, DQ5, DQ6, DQ1

TX 1: A24, A9, A29, A19, B44, B12, B27, Bw4, Cw2, Cw16, DR1, DR7, DR53, DQ1, DQ5, DQ2

TX 2: A1, A3, B44, B12, B49, B21, Bw4, Cw7, Cw16, DR1, DR4, DR53, DQ1, DQ5, DQ3, DQ8

AM: A25, A34, A66, A11, A30, A31, A32, A33, A43, A74, B63, B37, B59, DR15, DR18, DR12, DR14, DR8, DR10

Un-AM: A2, A23, A24, A29, A68, A69, B51, B7, B8, B13, B64, B65, B57, B58, B27, B60, B61, Bw6, DR7, DR4, DR53

Or (additionally) raw data from SPA SA tests

Donor 1: A1, A3, B44, B45, B12, DR1, DR13, DR6

Cross Match results (CDC) Pos –DTT, Neg +DTT

Donor 2: A3, A11, B38, B16, B63, B15, DR1, DR14, DR6

Cross Match results (CDC) Neg –DTT, Neg +DTT

What would be your advice for each of these donors?

2. Sample-based exercise

- Cells and sera from the regular EPT shipments will be used
- Selected cells from EPT will be considered as donor cells (typing done in the center)
- Selected sera from EPT shipment will be considered as patient sera (history will be provided)
- Typing / screening / cross matches will be performed and interpreted by the centers according to local practice, results will be submitted to the ETRL
- Data will be analyzed at the ETRL and discussed at the extramural meetings

A male patient (born 1961) on the waiting list for 2,5 years.
Has had 3 blood transfusions.

Typing: A26, A10, B52, B5, B55, B22, Bw4, Bw6, Cw1, DR15, DR2, DR11, DR5, DR51, DR52, DQ6, DQ1, DQ7, DQ3

Serum shipped for screening and cross matching

Donor 1

Blood shipped to the centers for typing and cross matching

Donor 2

Blood shipped to the centers for typing and cross matching

Donor 3

Blood shipped to the centers for typing and cross matching

What would be your advice for each of these donors?

Discussion topics “patient oriented EPT”

- The ETRL proposes to perform both the paper and sample-based exercise:
 - paper based: all centers interpret the same raw data
 - sample based: local differences in techniques and interpretation will be visible
- Result feedback and educational value (ETRL collects the results, which will be discussed during the Extra Mural Meeting)
- Ideas for cases (AM patient, ETKAS patient, other)
- What kind of patient data have to be provided; which tests can or should be done in the centers?
- What kind of questions (e.g. which donor is most suitable, would you give a positive or negative advice to transplant...)





Techniques based

Screening Detection
Screening Identification

Typing (Serological vs DNA)
(Cross Matching)

Certificates (per scheme/
technique): fulfilled/not fulfilled



Interpretation/Patient based

Typing (serological equivalent)

Patient cases (paper based and
sample based)

Certificate of participation



All ETRL co-workers
 the Screening and Tissue Typing Center NLB
 all participants of the EPT
 and Eurotransplant