



Leiden University
Medical Center



Eurotransplant External Proficiency Testing

- **Results 2016; update**

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LEIDEN



EPT scheme 2016

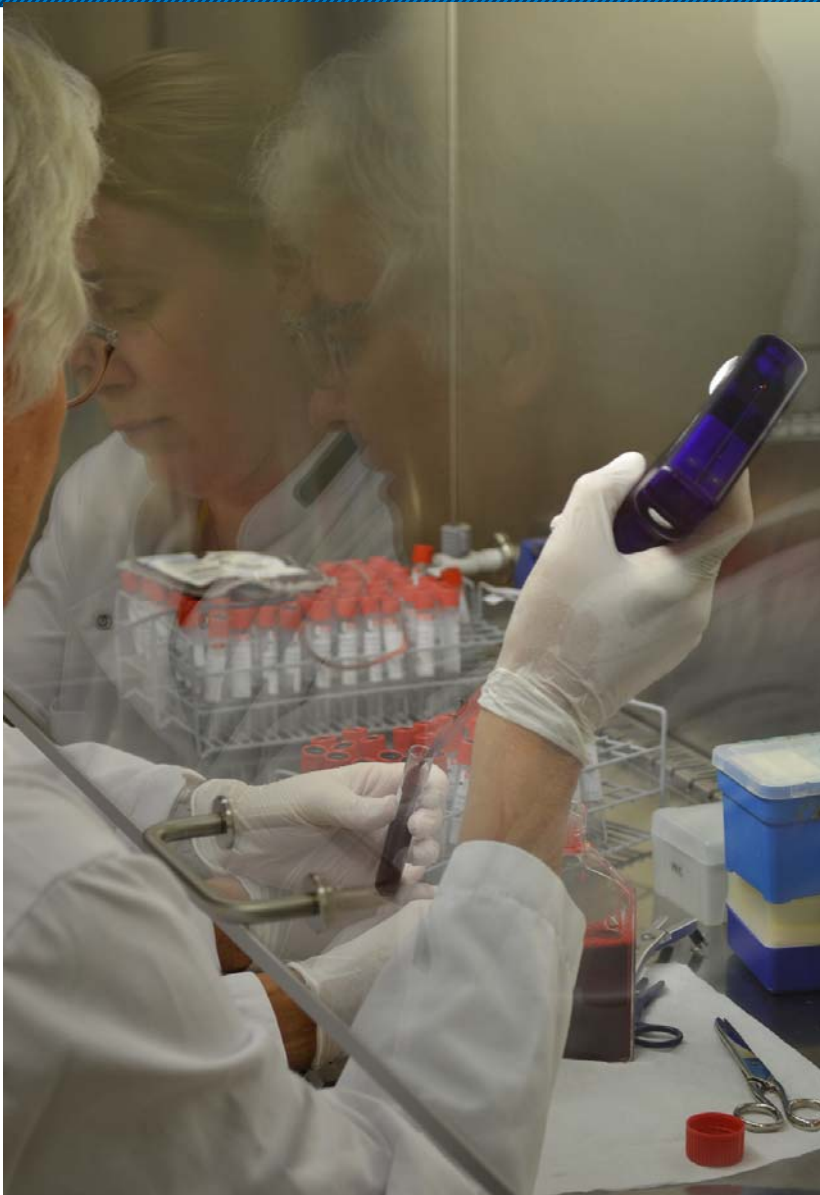


Shipping date	Typing Dispatch (n)	Deadline Typing/xm Report	Screening Dispatch	Cross Match	Deadline screening Report
16-02-2016	3	01-03-2016	12	EPT screening A, B, C	05-07-2016
05-04-2016	3	19-04-2016	x	EPT screening D, E, F	x
31-05-2016	3	14-06-2016	x	EPT screening G, H, I	x
13-09-2016	3	Delayed (05-10-2016)	x	EPT screening J, K, L	x



Patient based Cases	
Sending information/form	Deadline patient based EPT
05-04-2016	19-04-2016
31-05-2016	14-06-2016
13-09-2016	27-09-2016

EPT Results: Typing



Preparation of blood samples



EPT Results 2016; Typing



- ✓ 62 centers participated; 766 HLA-typing results
- ✓ Discrepancy rate 1,6% (2015: 3,3%)

Class I			
HLA-A	HLA-B	Bw4/Bw6	HLA-Cw
0	5	2	1

Class II		
HLA-DRB1	HLA-DRB3/4/5	HLA-DQB1
1	1	0

- ✓ 56 centers without discrepant results

Bw4 was assigned 16 times in combination with HLA-A

Note that Bw4 only must be assigned in combination with HLA-B

EPT Results: Crossmatching



Blood samples ready for shipment



EPT Results 2016; Cross Matching



61 centers participated:

- ✓ 30 donor centers
- ✓ 31 recipient centers



EPT Results 2016; Cross Matching



Discrepancy Rates

Donor centers (30)	Unseparated		T cells		B cells		Final results		Total
	(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT	
Discrepancy Rate	3,5%	3,0%	2,5%	2,9%	3,6%	4,3%	3,5%	4,6%	3,6%

Recipient centers (31)	Unseparated		T cells		B cells		Final results		Total
	(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT	
Discrepancy Rate	2,8%	2,9%	3,2%	3,1%	1,6%	3,5%	3,5%	4,1%	3,1%

2015

Total discrepancy rate donor centers : 3,1%

Total discrepancy rate recipient centers: 1,6%

EPT Results 2016; Cross Matching



Consensus rates

Donor centers (30)	Unseparated		T cells		B cells		Final results		Total
	(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT	
Consensus Rate	94%	92%	97%	92%	72%	86%	94%	94%	90%

Recipient centers (31)	Unseparated		T cells		B cells		Final results		Total
	(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT	
Consensus Rate	86%	86%	94%	92%	69%	83%	83%	89%	85%

2015

Overall consensus rate for donor centers: 90%

Overall consensus rate for recipient centers in: 93%

EPT on Screening



Serum storage

EPT Results 2016; Screening Detection



- ✓ 12 sera were screened
- ✓ 66 centers participated
- ✓ After additional shipment all centers fulfill the criteria

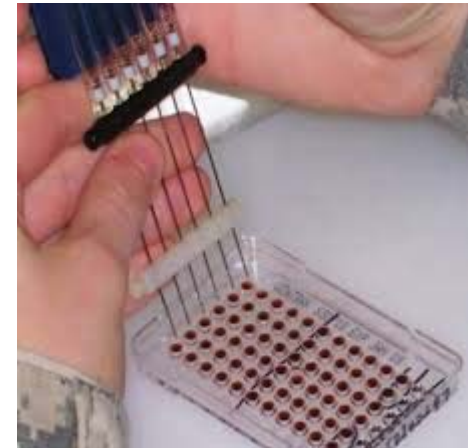
Screening Detection	Luminex		ELISA		CDC %PRA		Final Results	
	Class I	Class II	Class I	Class II	% (-) DTT	% (+) DTT	Class I	Class II
Discrepancy Rates	0,0%	2,6%	0,4%	5,8%	6,6%	9,0%	0,5%	1,9%

- ✓ Class I final results 2015: 1,5%
- ✓ Class II final results 2015: 4,0%

EPT Results 2016; Screening Identification CDC



- ✓ 12 sera were screened
- ✓ 59 centers participated
- ✓ 14 consensus specificities were found



- ✓ Serum 2016-F was a HLA antibody negative serum, in CDC no specificities were found
- ✓ Serum 2016-L was reported as a high PRA multi specific serum

EPT Results 2016; Screening Identification SPA



- SPA (5 centers)
- SPA Single Antigen (59 centers)
- SPA SA PLUS (2 centers)

For SPA and SPA SA PLUS no analysis was performed, because of the low number of participating centers.

These centers will receive a certificate of participation.

SPA SA: 422 consensus specificities
 373 specificities for Class I
 49 specificities for Class II

All centers fulfill the criteria.

Thank You!

*the Screening and Tissue Typing Center NLB,
all participants of the EPT and Eurotransplant*

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