

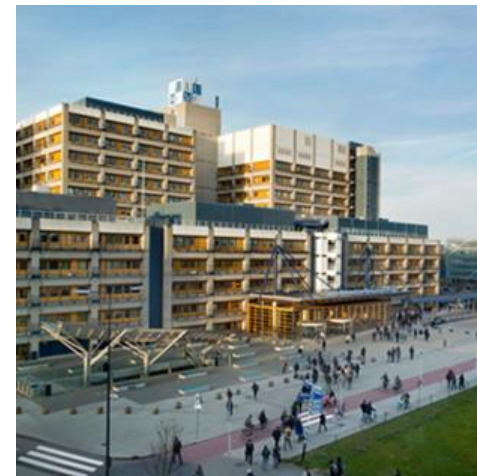
Eurotransplant Virtual Extra Mural Tissue Typers Meeting 2020

Results EPT 2019

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- HLA typing
- Crossmatching
- HLA antibody screening



EPT Results 2019; HLA typing (12 samples)



- ✓ 63 centers participated
- ✓ Discrepancy rate 1,6 % (2018: 1,3%)

- ✓ Overview of discrepancies:

Class I	HLA-A	1
	HLA-B	1
	HLA-C	1
	Bw4/Bw6	7
Class II	HLA-DR	1
	HLA-DQ	1
	HLA DRB3-4-5	1

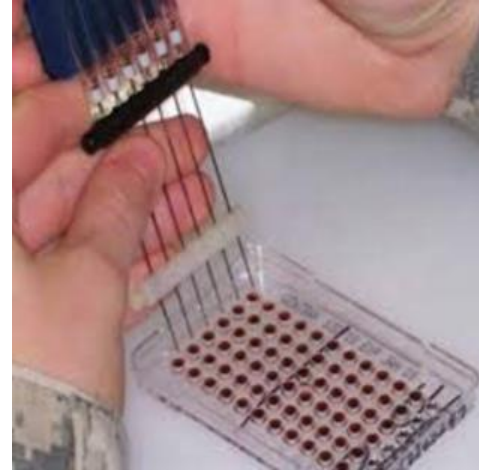
- ✓ Reminder: Note that Bw4 must only be assigned on basis of HLA-B antigens

EPT Results 2019; Crossmatching



65 centers participated:

- ✓ 31 donor centers
- ✓ 34 recipient centers



In total, 36 crossmatches with 12 different blood samples could be performed.

Discrepancy Rates

Discrepancy rates Donor centers 2019									
Unseparated		T cells		B cells		Final results			Total 2018
(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT	Total	
2,1%	2,9%	1,7%	1,0%	5,1%	4,0%	2,3%	2,9%	2,8%	3,9%

Discrepancy rates Recipient centers 2019									
Unseparated		T cells		B cells		Final results			Total 2018
(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT	Total	
2,7%	4,0%	2,8%	3,5%	3,4%	3,6%	3,3%	4,7%	3,6%	3,0%

Consensus rates

Consensus rates donor centers 2019									
Unseparated		T cells		B cells		Final results		Total	Total 2018
(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT		
83%	92%	89%	86%	78%	78%	86%	89%	85%	89%

Consensus rates recipient centers 2019									
Unseparated		T cells		B cells		Final results		Total	Total 2018
(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT		
94%	97%	94%	94%	69%	78%	92%	97%	90%	86%

Consensus rates extra shipments centers 2019								
Unseparated		T cells		B cells		Final results		Total
(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT	
100%	100%	100%	100%	89%	89%	100%	100%	97%

EPT on Screening



EPT Results 2019; Screening Detection



- ✓ 12 sera were screened
- ✓ 68 centers participated

Discrepancy Rates Screening Detection 2019									
Luminex		ELISA		CDC %PRA		Final Results		Final Results 2018	
Class I	Class II	Class I	Class II	% (-) DTT	% (+) DTT	Class I	Class II	Class I	Class II
1,8%	3,0%	-	-	5,2%	5,7%	1,8%	3,2%	0,7%	1,4%

EPT Results 2019; Screening Identification



CDC

- ✓ 12 sera were screened
- ✓ 59 centers participated
- ✓ 17 consensus specificities were found
- ✓ 8 centers had over 25% missing consensus specificities



EPT Results 2019; Screening Identification



- SPA* (4 centers)
- SPA Single Antigen (67 centers)
- SPA SA PLUS* (6 centers)

SPA SA: 348 consensus specificities
 303 specificities for Class I
 45 specificities for Class II

All centers fulfilled the criteria

*SPA and SPA SA PLUS were not assessed, because of low number of participating centers.
These centers received a certificate of participation.

EPT on HLA typing; future changes



To allow for the introduction of the virtual crossmatch, HLA typing requirements will change within Eurotransplant.

The EPT for HLA typing will change accordingly, depending on the future typing requirements (discussed later today).

Discussions with the EFI EPT committee have been initiated.

Thank You!

Tissue typing laboratories, recipient laboratories and Eurotransplant



The ETRL team

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