

## *Extramural Meeting 2024*

### Results EPT 2023

Yvonne Zoet

Eurotransplant Reference Laboratory

LEIDEN





- Crossmatching: Final results are no longer necessary
- Typing: 11 loci typing results can be entered, using ET matching determinants  
<https://etrl.eurotransplant.org/resources/new-hla-tables/>
- HLA-Antibody detection: Final results are no longer necessary
- HLA-Antibody identification, SPA SA (including complement fixing antibodies): HLA-specificities as defined in the Luminex SAB kits can be entered for all loci including DQA1, DPB1 and DPA1.  
Two empty fields per locus are available to add specificities which are not listed

- HLA typing
- Crossmatching
- HLA antibody screening



# EPT Results 2023; HLA typing (12 samples)



- ✓ 68 centers participated
- ✓ Discrepancy rate 2,21 % (2022: 1,97%)

✓ Overview of discrepancies:

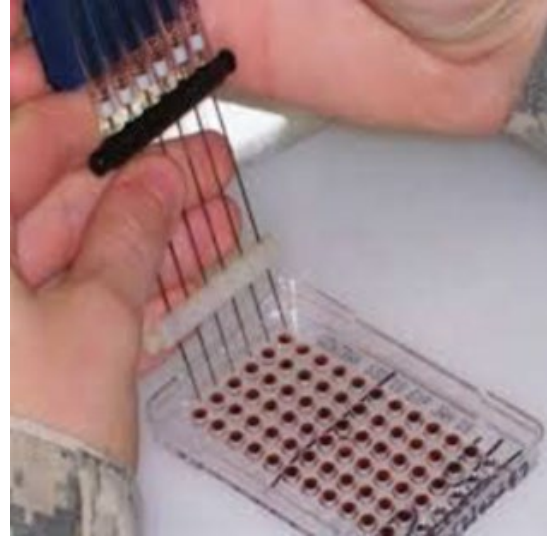
<b>Class I</b>	<b>HLA-A</b>	<b>0</b>
	<b>HLA-B</b>	<b>1</b>
	<b>HLA-C</b>	<b>4</b>
	Bw4/Bw6	1
<b>Class II</b>	<b>HLA-DR</b>	<b>3</b>
	<b>HLA-DQA</b>	<b>1</b>
	<b>HLA-DQB</b>	<b>4</b>
	<b>HLA-DPA</b>	<b>1</b>
	<b>HLA-DPB</b>	<b>0</b>
	HLA DRB3-4-5	2
	<b>Complete HLA-type</b>	<b>1</b>

## EPT Results 2023; Crossmatching



69 centers participated:

- ✓ 31 donor centers
- ✓ 38 recipient centers



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



<b>Discrepancy Rates Donor centers 2023</b>							
Unseparated		T cells		B cells		All	All 2022
(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT		
3,1%	3,6%	2,6%	1,9%	3,3%	4,3%	3,1%	3,5%

<b>Discrepancy Rates Recipient centers 2023</b>							
Unseparated		T cells		B cells		All	All 2022
(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT		
3,0%	2,7%	3,7%	2,7%	3,8%	2,3%	3,1%	3,0%



Consensus Rates Donor Centers 2023							
Unseparated		T cells		B cells		All	All 2022
(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT		
92%	92%	92%	86%	75%	83%	87%	86%

Consensus Rates Recipient Centers 2023							
Unseparated		T cells		B cells		All	All 2022
(-) DTT	(+) DTT	(-) DTT	(+) DTT	(-) DTT	(+) DTT		
92%	92%	97%	94%	89%	92%	93%	95%



# EPT on Screening





# EPT Results 2023; Screening Detection



- ✓ 12 sera were screened
- ✓ 76 centers participated

<b>Discrepancy Rates Screening Detection 2023</b>					
Luminex Based		CDC		All	All 2022
Class I	Class II	(-) DTT	(+) DTT		
0,1%	4,3%	2,3%	3,0%	2,4%	3,9%

<b>Consensus Rates Screening Detection 2023</b>					
Luminex Based		CDC		All	All 2022
Class I	Class II	(-) DTT	(+) DTT		
83%	92%	92%	92%	90%	88%

## CDC

- ✓ 12 sera were screened
- ✓ 55 centers participated
- ✓ 16 consensus specificities were defined
- ✓ 2 centers had over 25% missing consensus specificities



# EPT Results 2023; Screening Identification



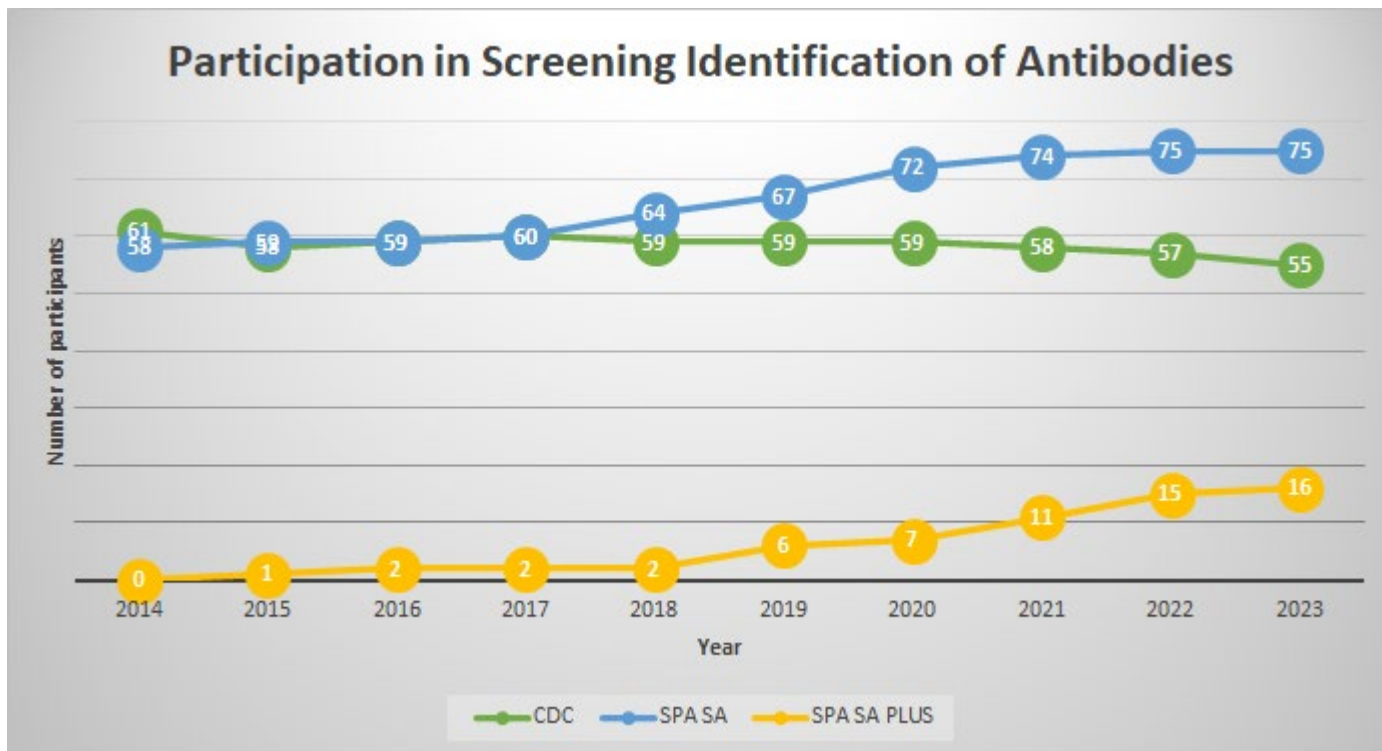
- SPA\*: 3 centers
- SPA Single Antigen: 72 centers, 75 results
- SPA SA PLUS (complement fixing antibodies): 16 centers

	SPA SA	SPA SA PLUS
Total Consensus Specificities	327	19
Consensus specificities Class I	225	12
Consensus specificities Class II	102	7

All centers fulfilled the criteria

\*SPA was not assessed, because there were less than 10 participating centers. The participants received certificate of participation. This EPT will be discontinued due to low numbers starting 2024.

# EPT Results 2023; Screening Identification



# Thank You!

*Tissue typing laboratories, recipient laboratories and Eurotransplant*



Questions?

Write to: [etrl@eurotransplant.org](mailto:etrl@eurotransplant.org)

