



Leiden University
Medical Center



Eurotransplant External Proficiency Testing

- **New Calculators**
- **Update EPT website**

Yvonne Zoet

Eurotransplant Reference Laboratory

LEIDEN



ETRL recent changes in the website



Recent changes in the website



New for the user

- Start page www.etril.org with new calculators
- About EPT
- HLA typing techniques
- Screening detection PRA categories
- HLA-typing possibility to enter Cw9, Cw10, DR17,DR18

Invisible for the user

- Modifications in making certificates (in progress)



Recent changes in the website; Calculators



Eurotransplant Reference Laboratory
Welcome to the ETRL website



Please choose one option:

[ETRL main site](#)

[External Proficiency Testing \(login required\)](#)

Calculators:

[Virtual PRA calculator](#)

[Donor Frequency calculator ETKAS](#)

[Donor Frequency calculator Acceptable Mismatch Program](#)

[Donor Frequency calculator Heart](#)

Recent changes in the website; Calculators



Based on:

- HLA data of deceased donors used for renal transplantation between 2010-2014 within the Eurotransplant area (n= 6870)
- Donors with complete HLA typing for HLA-A, -B, -C, -DR and -DQ
- All alleles are available at split level, except B14, Cw3 and DQ3

New calculators: vPRA



Eurotransplant Reference Laboratory
Virtual PRA Calculator



[Information](#)

Unacceptable
antigens:

Unacceptable antigens can only be entered divided by a space or a comma.

Calculate VPRA

Clear

Disclaimer Donor Frequency calculator VPRA:

The Virtual PRA calculator will be implemented into the ENIS system of Eurotransplant in the near future. Until this time, vPRA values generated by this calculator will not match the vPRA values in the recipient immunological overview. No rights can be derived from results obtained by the Virtual PRA calculator.

New calculators: Donor frequency calculator ETKAS



Eurotransplant Reference Laboratory
Donor Frequency Calculator ETKAS



Information

Unacceptable antigens:

Unacceptable antigens can only be entered divided by a space or a comma.

ABO:

Calculate frequency

Clear

Please note that in ETKAS donor frequencies are based blood group identity + unacceptables

Disclaimer Donor Frequency calculator ETKAS:

The Donor Frequency calculator ETKAS will be implemented into the ENIS system of Eurotransplant, and used to decide for possible eligibility for the AM program, in the near future. No rights can be derived from results obtained by the Donor Frequency calculator ETKAS.

In heart donor frequencies are based blood group compatibility + unacceptables

New calculators: Donor frequency calculator AM



Eurotransplant Reference Laboratory
Donor Frequency Calculator Acceptable Mismatch program



Information

Patient typing:

ABO:

Acceptable antigens:

HLA antigens can only be entered divided by a space or a comma.

Calculate frequency

Clear

Please note that for AM donor frequencies are based on blood group compatibility + patient typing and acceptables

Changes in the EPT website: About EPT

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EPT schemes

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Eurotransplant External Proficiency Testing

Eurotransplant External Proficiency Testing The Eurotransplant External Proficiency Testing (EPT) is organized by the Eurotransplant Reference Laboratory (ETRL) and consists of three schemes:

- 1) HLA typing and crossmatching
- 2) Screening antibody detection and identification
- 3) Patient-based cases

For Eurotransplant (ET) affiliated laboratories, participation in all EPT schemes is mandatory, whereas laboratories not affiliated to ET are free to choose which schemes to participate.

Changes in the EPT website: About EPT



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EPT schemes

Overview

HLA typing & Crossmatching

Screening detection & identification

Patient based EPT

Typing of the serum donors

EPT Rules

EPT Dates

Costs

EPT Manual

Click [here](#) to download the EPT-manual

Changes in the EPT website: Typing techniques



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Center code:

ETRL

EFI Code:

Center:

Leiden University Medical Center

Department:

IHB

Additional Address Info.:

ETRL

Street:

Albinusdreef

Street number:

2

City:

Leiden

Zip code:

2333ZA

Country:

The Netherlands

Phone number:

+ 31 71 5263802

Screening:

Crossmatching:

Typing:

Donor / recipient / both:

Both

Typing Techniques

SSP:

SSO:

SBT:

Luminex:

Other:

Note that the typing techniques can only be changed in the first three months of the year

Save

Cancel

Changes in the EPT website: Screening Detection



- From 2016 on, in Screening detection all separate tests will be analyzed, e.g. CDC -DTT, CDC +DTT etc, on basis of consensus.
- These results will be shown on the certificate.
- Therefore in screening detection the PRA categories have been changed.

Changes in the EPT website: Screening Detection



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Screening - Antibody detection - 2016

Serum number:

Date received:

Test date:

— CDC

| | Panel (N) | PRA |
|----------|---------------------------------|---|
| (-) DTT: | <input type="text" value="50"/> | <input type="text" value=">=6% and <=85%"/> |
| (+) DTT: | <input type="text" value="50"/> | <input type="text" value="<6%"/> |

— FCM

| | Panel (N) | PRA |
|-----------|---------------------------------|--------------------------------------|
| Class I: | <input type="text" value="50"/> | <input type="text" value=">85%"/> |
| Class II: | <input type="text" value="50"/> | <input type="text" value="<6%"/> |

— Luminex

| | Panel (N) | PRA | Class II |
|-----------|--------------------------------------|---|--------------------------------------|
| Provider: | <input type="text" value="Immucor"/> | <input type="text" value=">=6% and <=85%"/> | <input type="text" value=">85%"/> |

— Elisa

| | Panel (N) | Class I | Class II |
|--------|---|-------------------------------|-------------------------------|
| Elisa: | <input type="text" value="One Lambda"/> | <input type="text" value=""/> | <input type="text" value=""/> |

— Final conclusion

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

Save

Cancel

Overview: *EFI vs. ET (changes in certificates)*



EFI

Techniques based

Screening Detection (per technique)
Screening Identification

Typing
Cross Matching

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



ET

Interpretation/Patient based

Screening Detection (final conclusions)

Cross matching (final results)

Patient cases

Certificate of participation

You can help us with your ideas to improve the website

Contact us here or at etrl@eurotransplant.org



Thank You!

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

The ETRL team:

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