Preliminary results of Scandinavian study: Comparison of HLA antibody testing with different pre-treatments

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Aims of the study

• Comparison the outcome of the Luminex SAg assay
  – untreated serum
  – pre-treatment with EDTA or DTT
• Regular Luminex and C1q assay results will be compared, to previous cytotoxic crossmatch results
• A specific aim is to evaluate methods to overcome the prozone effect in order to avoid false negative results in HLA antibody testing
Material

Highly sensitized kidney transplant patients with pre-existing DSA in Luminex SAg assay (either class I or class II)
- CDC crossmatch-positive (n=10 x 3) serum samples
- CDC crossmatch-negative (n=10 x 3) serum samples

Centers
- Finnish Red Cross Blood Service (Finland)
- Sahlgrenska University Hospital (Sweden)
- Oslo University Hospital (Norway)

Samples were sent to the Finnish Red Cross Blood Service for HLA antibody analysis

Results Class I nt/EDTA
Results Class II nt/EDTA

Results Class I nt/C1q
Results Class II nt/C1q

Results Class II individual sample
Clinical samples

Case 1 Platelet refractoriness
Case 1 Platelet refractoriness

Case 2 Kidney Tx, AMR
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Todo list

- Subgroup analysis CDC crossmatch negative/positive samples
  - Pretreatment methods
  - C1q positivity

- Is there a better correlation for Xmatch with DSA determined with certain pretreatment or with C1q