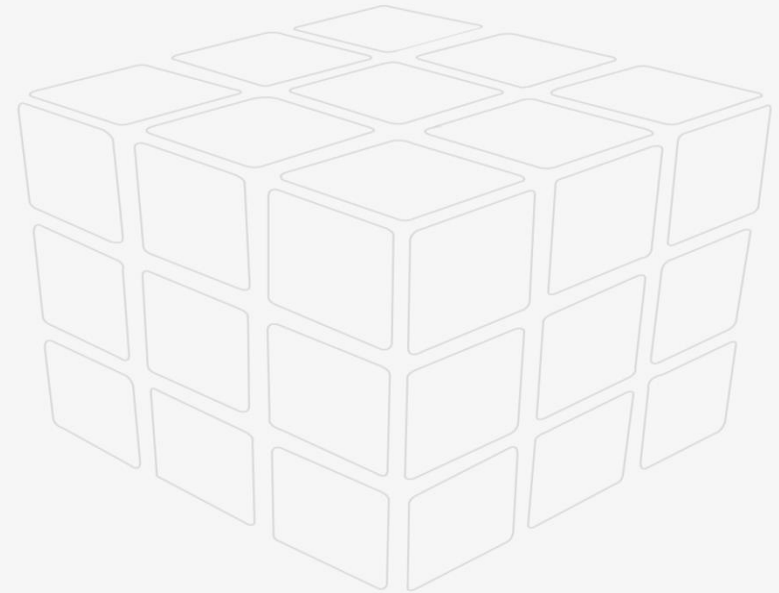




Immucor Julie Staves



Analysers

- Provide a combination of a large throughput analyser (NEO) and a small analyser (Echo)
- Analyser software similar but not identical
- Uses same technology
- Generally very reliable
- Quick and easy maintenance

Grouping

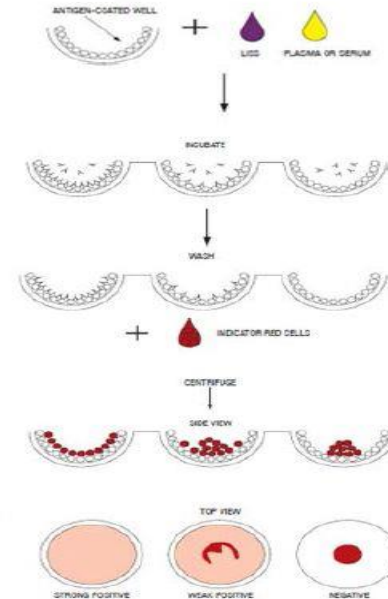
- Microplate grouping
- 8 wells per patient – allows for anti- A,B
- Reliable
- Cheap!
- Quick

Antibody Screening

- Quick – 40 mins for 24 samples
- Capture R technology is different and designed to detect antibodies reacting by IgG
- Sensitivity good
- Specificity good

Capture-R® Ready Technology Basic Test Principle

- Red cells are bound to the microwell surface in the manufacturing process
- Plasma and potentiator (LISS) are added
- Antibodies to red cell antigens are “*captured*” on the microwell during incubation
- Unbound immunoglobulins are rinsed from the wells
- Indicator red cells are added, and “sandwich” the “captured” antibodies, making them visible
- *Centrifugation* brings the indicator red cells in contact with antibodies bound to the reagent red cell membranes.



Other tests

- Antibody ID (3 x 14 cell panels)
- Crossmatching
- DAT
- Anti-A, Anti-B titres
- RhK Phenotyping
- Extended antigen typing

The Good

- Purple coloured LISS allows analysers to confirm plasma as been added to well
- Detects weak reacting anti-Jk(a) – which are not detectable on CAT
- Doesn't detect those 'clinically insignificant antibodies' – eg Anti-Le(a)
- Automated titres (CE marked assay for anti-A and B)

The bad

- DAT – will currently only detect coating with anti-IgG (no complement)
- A small number of false positive results with capture – especially in patients with large amounts of free paraproteins
- Not available using enzyme treated cells

Different

- Yes – Solid phase is different
- Has good points and not so good points
- We like the solid phase technology and it works well for us.

Thank you



**“The red circles are your red blood cells.
The white circles are your white blood cells.
The brown circles are donuts. We need to talk.”**

