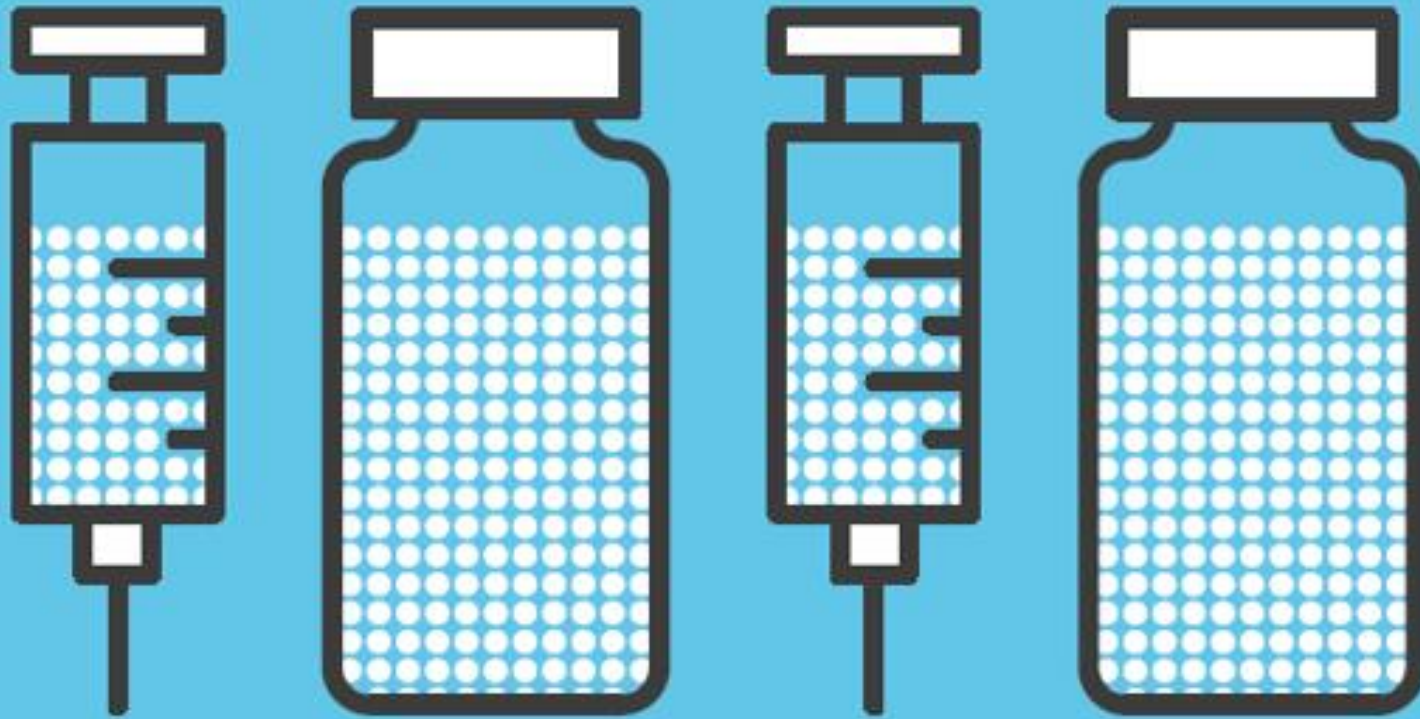


UK NEQAS

Blood Transfusion Laboratory Practice



**Moving
forward with
the NEQAS
extended
phenotyping
pilot**

Dipika Shah & Katy Veale
UK NEQAS BTLP

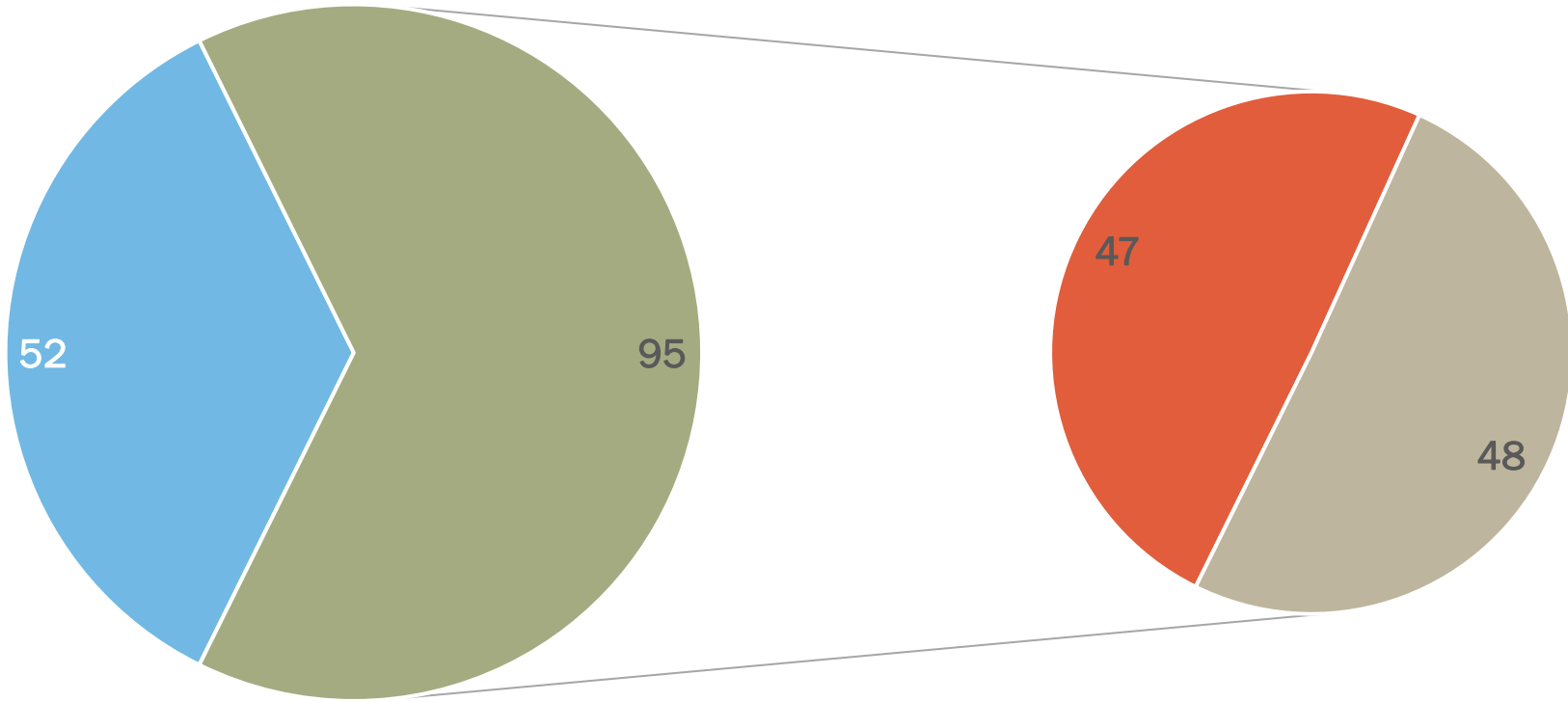
Extended Red cell Phenotyping

- Why ERP is next
- How to make a programme live
- Where we're at with ERP
- How scoring will work
- Quick fixes for ERP issues

Why ERP next?

- Over 2 years
- 61 labs made errors
- 147 total errors
- 1199 set of results over 8 exercises
- 5.1% labs made errors
- 2.4 errors per lab making errors

ERP errors



■ False Pos ■ False Neg Jk ■ False Neg other

Jk^a typing trends

- November 2020 - questionnaire
 - Reagent / technique / following insert? / controls
- 70 responses
 - 38 UK, 13 RoI, 19 Rest of World

Write up of findings can be found in the 21ERP1 report

Data

Variation!!!!

Pilot phase

- Play with exercise format
- What data do we need to collect
- Set /monitor KPIs
- Annual plan for samples

Pilot phase

1 x R ₁ R ₂
1 x c-
1 x e-
1 x K ⁺ k ⁻ (if possible)
1 x F _y (a-b-)
1 x J _k (a+b+)
1 x N heterozygote (new for 2021)
1 x S ⁺ s ⁻

Pilot phase

- Play with exercise format
- What data do we need to collect
- Set /monitor KPIs
- Annual plan for samples
- What samples to send
- How to score
- Shadow scoring



Pilot phase

- Play with exercise format
- What data do we need to collect
- Set /monitor KPIs
- Annual plan for samples
- What samples to send
- How to score
- Shadow scoring
- Steering Committee / Scientific Advisory Group
- NQAAP approval
- Feedback feedback feedback

ERP is ALIVE!!!

- Change control
- Risk assessment
- Plan

Plan - Completed

- Approval from NQAAP
- Approval from Steering Committee
- Looked back at QIs and QIPs
- Lessons learned
- IT specification written and agreed
 - Exercise creation
 - Data entry – INTERP FIELD TO BE ADDED
 - Data processing
 - Report layout
- Validation Plan written and agreed
- Time scale agreed

Plan – To Do

- Reregistration
 - No longer called a pilot
 - Price increase
 - Update website
- Document control
 - SOP
 - Forms
- IT validation
- Shadow scoring



Plan – To Do

- Reregistration
 - No longer called a pilot
 - Price increase
 - Update website
- Document control
 - SOP
 - Forms
- IT validation
- Shadow scoring
- Training & Competency
- Performance monitoring
- Audit
- UKAS extension to scope

Scoring system

- Capture all labs of concern and avoid capturing labs that are not of concern
- Create a manageable Performance Management (PM) workload
- Be easy for UK NEQAS staff and participants to understand
- Be relatively easy to program using our IT system and to modify in the future

Scoring principles

- Score per error / antigen / sample / blood group
 - 40 per antigen error
 - Same as for PTT
 - 2 errors = borderline
 - Same for false negative and false positive
- Cap the score – by antigen / sample / blood group / exercise / cumulative
 - Cap by cumulative
 - Score in an exercise will reflect number of errors
 - Graphs still fit on the page
- Performance monitoring
 - Borderline is 80-99 (consider a letter)
 - Unsatisfactory performance is at 100 points or more (letter)
 - Persistent unsatisfactory performance is 100 or more than once per year (letter)
- 15 letters per year BUT based on interpretation, not reaction grade



Is there a quick fix?

- Check the package insert
- Check your centrifuge settings
- Check you're using a heterozygous positive control
- Consider if the frequency of controls is appropriate

Any Questions?

Feedback Feedback Feedback

BTLP@ukneqas.org.uk