Developing an EQA scheme for cell-free fetal DNA D typing

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UK NEQAS
Haematology and Transfusion

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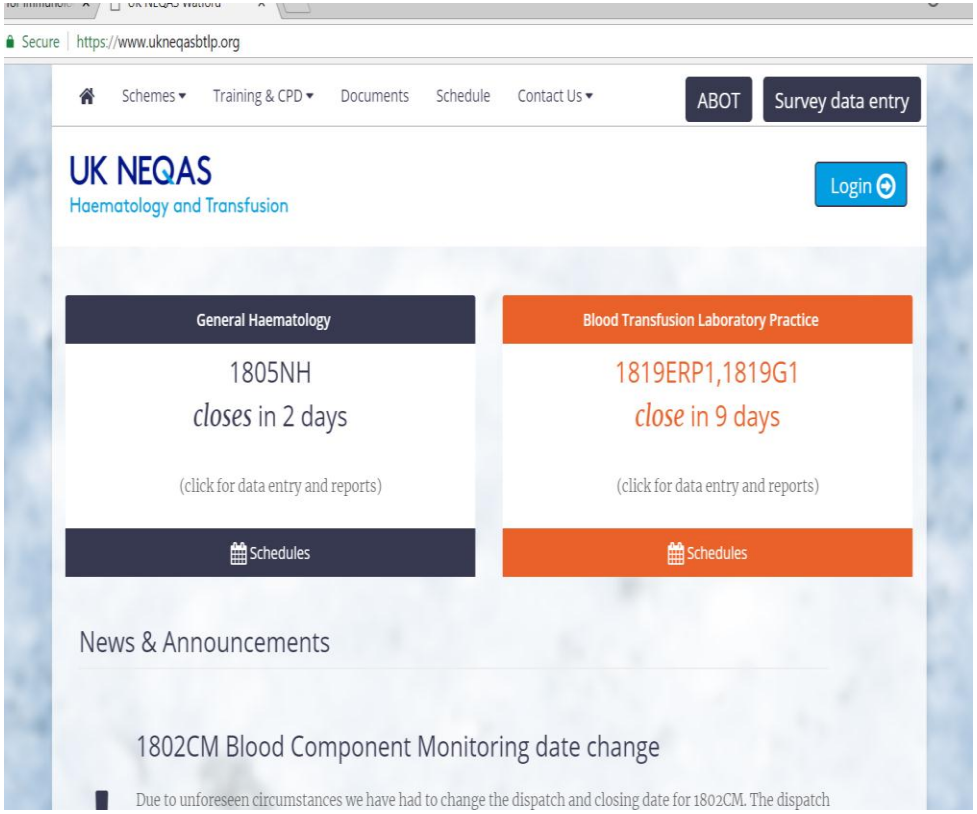
EQA schemes and pilot schemes

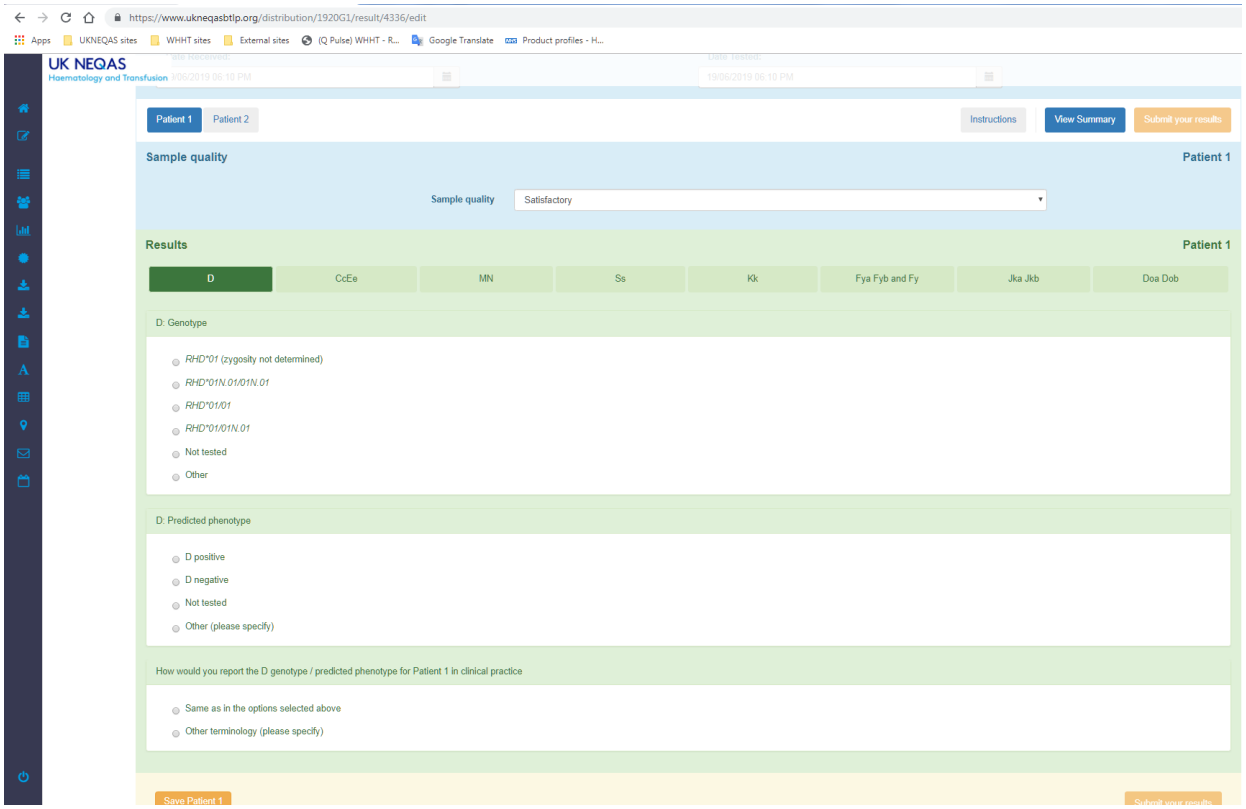
- Pre -transfusion testing
  - ABO/D grouping
  - Antibody screening and identification
  - Crossmatching
  - Phenotyping

Other full schemes
  - FMH
  - ABO titration
- Pilots Schemes
  - **Red cell genotyping**
  - DAT
  - Extended phenotyping
  - Antenatal titration
- Annual practice surveys



How would we operate a scheme?

- System based on our current software used for the Pilot Red Cell Genotyping Scheme



Material

- We are working with NHSBT and IBGRL to source material.

- Would likely be pooled samples taken as part of routine ante-natal screening processes.

What could we offer?

- Experience of operating a genotyping scheme since 2016
- Registration and invoicing of participating laboratories
- Web based data entry and report access
- Individual laboratory reports comparing own result vs. consensus result
- Reports also include overall data, educational content and any learning points
- Development of a scoring system

What could we offer?

- Oversight by a Scientific Advisory Group
  - Current Red Cell Genotyping Scientific Advisory Group

Assoc. Prof. Jill Storry	**Lund University (Sweden)**	**Chair**
Jenny White	UK NEQAS (BTLP)	Secretary
Dr Cinzia Paccapelo	Ospedale Maggiore Policlinico (Italy)	Member
Dr Sylvia Armstrong-Fisher	SNBTS Aberdeen	Member
Katy Veale	UK NEQAS (BTLP)	Member
Martin Maley	NHSBT Newcastle	Member
Richard Haggas	UK NEQAS (BTLP)	Member
Shane Grimsley	International Blood Group Reference Laboratory (Bristol)	Member and Scheme advisor