Ian Mellors
Chairman UK NEQAS (H) GSAG
## UK NEQAS (H) Scheme Registration

**October 2015**

<table>
<thead>
<tr>
<th>Scheme</th>
<th>FBC</th>
<th>ADLC</th>
<th>Retics</th>
<th>Hb only</th>
<th>Plasma Viscosity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surveys / Annum</td>
<td>12</td>
<td>6</td>
<td>6</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>UK</td>
<td>686</td>
<td>643</td>
<td>281</td>
<td>109</td>
<td>45</td>
</tr>
<tr>
<td>Non-UK</td>
<td>373</td>
<td>283</td>
<td>171</td>
<td>24</td>
<td>5</td>
</tr>
<tr>
<td>Total</td>
<td>1059</td>
<td>926</td>
<td>452</td>
<td>133</td>
<td>50</td>
</tr>
</tbody>
</table>
## UK NEQAS (H) Registration-Instruments

### October 2015

<table>
<thead>
<tr>
<th>Scheme</th>
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<th>Retics</th>
<th>Hb only</th>
<th>Plasma Viscosity</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK</td>
<td>1345</td>
<td>1261</td>
<td>588</td>
<td>303</td>
<td>49</td>
</tr>
<tr>
<td>Non-UK</td>
<td>811</td>
<td>632</td>
<td>350</td>
<td>84</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>2156</strong></td>
<td><strong>1893</strong></td>
<td><strong>938</strong></td>
<td><strong>387</strong></td>
<td><strong>54</strong></td>
</tr>
</tbody>
</table>
## Returns and Reports

### October 2015

<table>
<thead>
<tr>
<th>Scheme</th>
<th>FBC</th>
<th>ADLC</th>
<th>Retics</th>
<th>Hb only</th>
<th>Plasma Viscosity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web Based</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Participant Use</td>
<td>98%</td>
<td>98%</td>
<td>99%</td>
<td>99%</td>
<td>-</td>
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</tbody>
</table>
UK NEQAS (H) - UPS

- Analytical Performance UPS
- Non-Returns UPS

- FBC: 16 (Analytical), 33 (Non-Returns)
- ADLC: 1 (Analytical), 23 (Non-Returns)
- Retics: 0 (Analytical), 0 (Non-Returns)
- Hb Only: 4 (Analytical), 18 (Non-Returns)
- Plasma Viscosity: 5 (Analytical), 3 (Non-Returns)
UK NEQAS (H)- PUPS
ESR Pilot - Participant Breakdown

- Manual: 78
- Automated: 166

- StaRRsed: 104
- Sarstedt/Greiner: 28
- Vesmatic: 30
- Miscellaneous: 2
- Not Stated: 2
- Manual: 78
ESR Update

- Generated Reasonable Interest
- Many Instrument/Manual Groups
- Material for Alifax Machines in the Future
- Remains a Pilot - Scoring Being Worked On
- Full Scheme hoped for in 2016
Remains Pilot Scheme

Material – Sysmex (XE and XN series)

Beckman Coulter- Material now available-

distributed in August 2015 Survey
## nRBC – Instrument Types

<table>
<thead>
<tr>
<th>Instruments Registered</th>
<th>SYSMEX</th>
<th>XE Series</th>
<th>XN Series</th>
<th>XT Series</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>175</td>
<td>145</td>
<td>7</td>
<td>327</td>
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</tbody>
</table>

119 Laboratories

<table>
<thead>
<tr>
<th>Instruments Registered</th>
<th>BECKMAN COULTER</th>
<th>DxH 600</th>
<th>DxH 800</th>
<th>LH Series</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>57</td>
<td>6</td>
<td>64</td>
<td></td>
</tr>
</tbody>
</table>

42 Laboratories

![UK NEQAS logo]
Pre-pilot showed difficulty in obtaining suitable material

Guideline has been written & published

Wayne Thomas, Rod Hinchliffe, Carol Briggs et al.

Work on Immature Reticulocyte Parameters is still ongoing
RDW and MPV

- Susanne Kricke - *(MSc Student University Westminster)*
- Review of RDW and MPV Data
Performance Assessment

Performance Trends

Traffic Lighting

Index Chart (EQA/IQC)
(Brendan Fitzpatrick)

PUP

Standard data
- PUP dialogue

CAPA

Intro- Imminently

UK NEQAS
CA/PA

- Designed/Reviewed - Scheme Advisors
- Participant Response – Performance Letters
- Electronic Download and return
- PUP’s first
- UP’s if participants find useful
Reticulocyte Scope

- ABX Pentra: 19
- Siemens ADVIA 120: 183
- Cell-Dyn 4000 & Sapphire: 38
- Miscellaneous Instruments: 118
- Sysmex X-Class: 403
- Coulter Gen S: 2
- Coulter LH Series: 76
- Manual Stain: 23

Manual: 23
Automated: 839
Manual Reticulocyte Counting

- Genotypic CV% - Circa 50-95%
- 2.6% of UK labs - manual EQA
- Validity of results?
- EQA-Quantitative or qualitative?
Manual Reticulocyte - Your Views

- Do you still do this routinely and Report?
  - Yes
  - No

- Quantitative or Qualitative?
  - Yes
  - No
Optical Platelet Counting

- GSAG – Inclusion in reports?

- Sysmex XE & XN users will be asked to help

- Beginning November 2015 – 3 distributions, 6 Counts

- Not Performance Scored
Plasma Viscosities

- On line Reporting being tested
- Facilities to enter methodologies now live
- Reporting to follow
GSAG – Who, When and What?
Who - SAG Membership

- Medical & Scientific
- All Technologies
- Scheme Director
- Scheme Coordinators
- Statistician
- Experts as Required
When

➢ Face to Face Annually

➢ Conference Follow up

➢ Special Projects – Ad Hoc
What

- Advises & Guides – Design/Fit for purpose /Relevancy /Scope
  - Format/Performance Scoring
  - Initiatives
  - Trends-Analytical and groups

- Where Poor performance indicates scheme operational failure.

- Mechanics of operation

- Horizon scanning
What Not

Does Not Consider Individual Laboratory

- Performance Scores
- Root Causes
- Actions agreed with Scheme
- UP’s & PUP’s

UK NEQAS
SAG – Participant Members Profile?
SAG Member - Quality Challenge

- Interest in Quality
- Knowledgeable
- General Curiosity
- Analytical
- Performance Trends
- Piecing together
- Quality Improvement
- Keeping Current
Participant SAG Members

- Independent Expert Assessment - Performance (Reports)
- Can formulate specialist ‘task forces’ - Projects within scheme and across other schemes.
- E.g. Performance Assessment and Measurement Uncertainty
External Assessors – Independent Reports

- FBC
- ESR’s
- Reticulocytes
- ADLC
- Hb Only
- Plasma Viscosities
On & Over The Horizon

Dammit Jim
I’m a doctor not a mind reader!
Interesting & Interested?

- Quality Interests
- Scientific Interests
- Technology interest/expertise
- Would you like to join a SAG

- If so then say why and What you could bring to the table?

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