UK NEQAS (H)

Ian Mellors Chairman UK NEQAS (H) GSAG

UK NEQAS (H) Feedback & Directions



UK NEQAS (H) Scheme Registration

October 2014

Scheme	FBC	ADLC	Retics	Hb only	Plasma Viscosity			
Surveys / Annum	12	6	6	12	12			
UK	676	642	285	106	46			
Non-UK	371	268	161	20	4			
Total	1047	910	446	126	50			



UK NEQAS (H) Registration-Instruments

October 2014

Scheme	FBC	ADLC	Retics	Hb only	Plasma Viscosity
UK	1312	1222	589	286	50
Non-UK	811	579	238	46	4
Total	2123	1801	917	332	54



Returns and Reports

October 2014

Scheme	FBC	ADLC	Retics	Hb only	Plasma Viscosity
Web Based	Yes	Yes	Yes	Yes	No
Participant Use	96%	96%	99%	98%	-



Developments and Updates

ESR & nRBC - Full pilots

Measurement Uncertainty – (Poster/Hand outs)

- Working Group on Performance Assessment
 - (Members from GSAG)



Performance Assessment Tools

Monitoring Performance Trends

Traffic Lighting



- > Deciding on colour limits
- **≻**Work on-going

Laboratory Index Chart

Linking EQA/IQC (Brendan Fitzpatrick)



CAPA



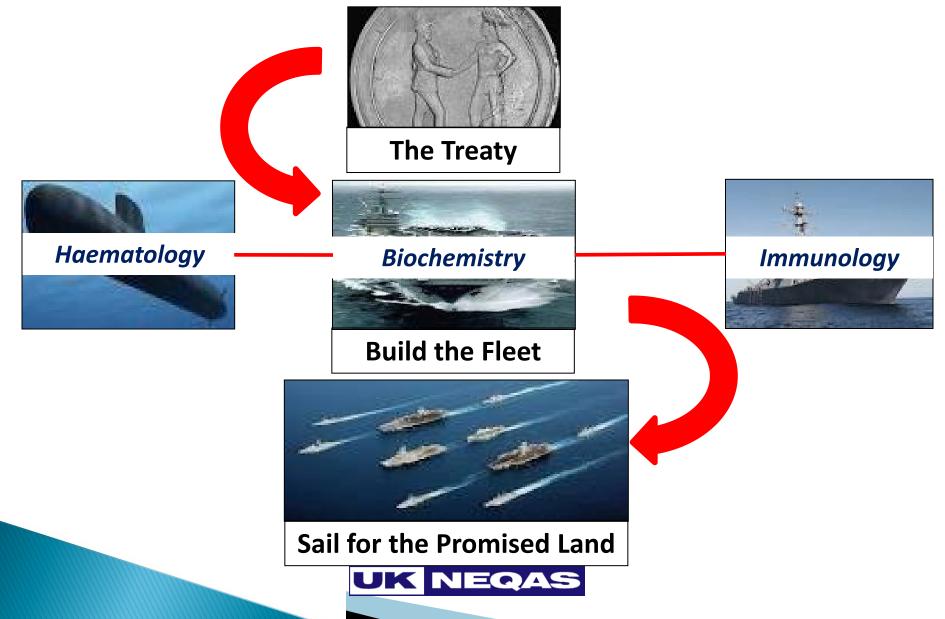
- **➢** Generic Format -All NEQAS schemes
- Standard data return for PUP letters
- Introduced from January 2015



Quality Trend Monitoring in Blood Sciences

A personal Reflection

Blood Sciences- In the Beginning!



Quality Challenges – Blood Sciences

- Blood Sciences created January 2013
- 3 Former departments _______ 1 department
- 1 Management/Quality Management/Governance
- ▶ 14 New sections 2 Large Hospital sites
- Hybridisation/Rationalisation of former services
- Staff rotation and training Cross discipline working



Hernán Cortés (1485-1547)

Occupation - Conquistador



- No Turning Back
- Embrace the Indigenous Population
- Merge the best of cultures
- Ease the passing over
- Establish governance
- Nurse the wounded
- Create a multicultural society
- Found a new dynasty
- Childs play!

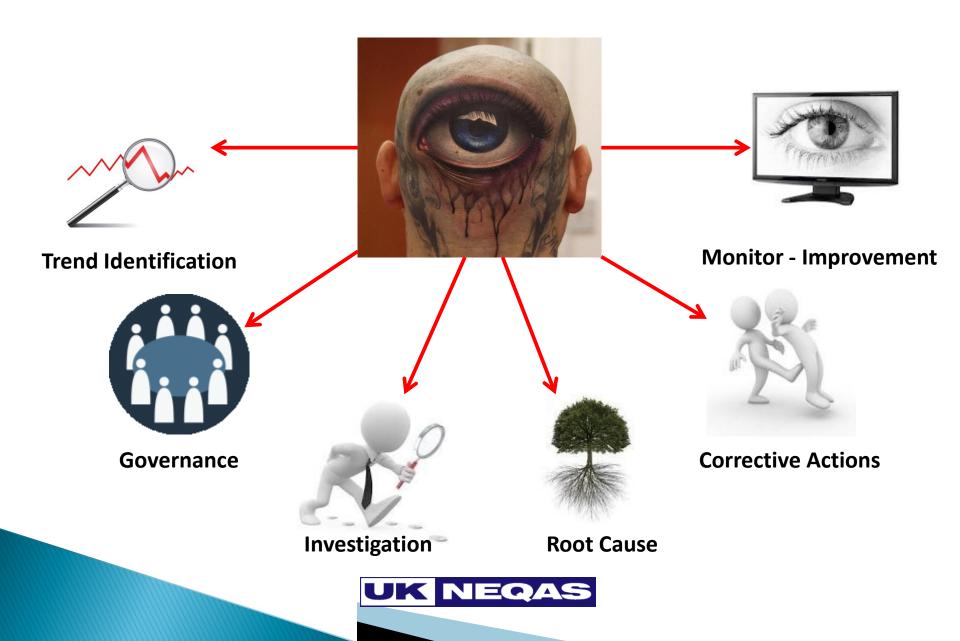


Quality Drivers in Blood Sciences

- Blood Sciences itself
- Pathology Quality Assurance Review
- ▶ ISO 15189:2012
- NHS Improving Quality NHS England (2013)
- ▶ KPI's RCPath
- Local KPI's for Newcastle Laboratory Medicine



Quality Challenge - Trend Analysis



Trend Monitoring Approach

- Traffic Light
 - Alert and warning
 - Bias data –where available





- Real time EQA Report viewing
 - Current Reports
 - Past Reports



- Electronic Distribution
 - Shared drive
 - Q-Pulse







Governance-Quality Escalation

(Blood Sciences)



Laboratory Medicine

Clinical Governance & Quality Committee (Quarterly)

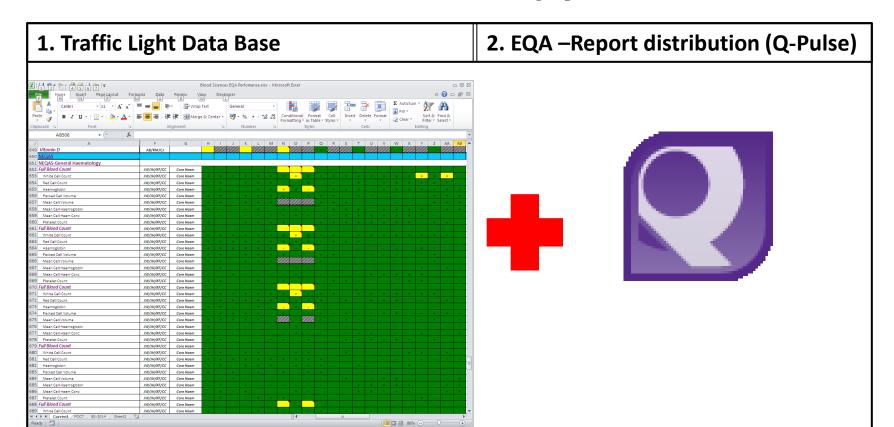
Blood Sciences
Clinical Governance and Quality Committee

Individual Section Governance and Quality Meetings
(Meets Fortnightly)

(Quarterly)



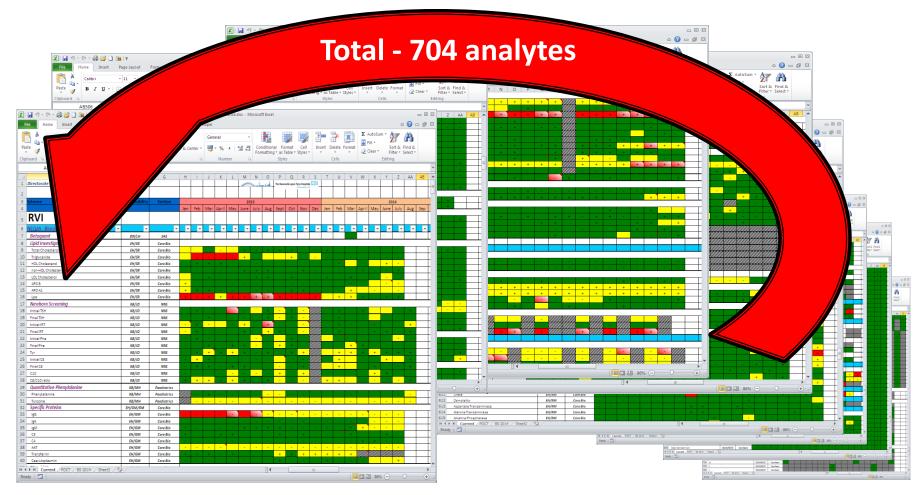
Blood Sciences Approach



Trend Analysis Tools



EQA- Analytes, Parameters Results

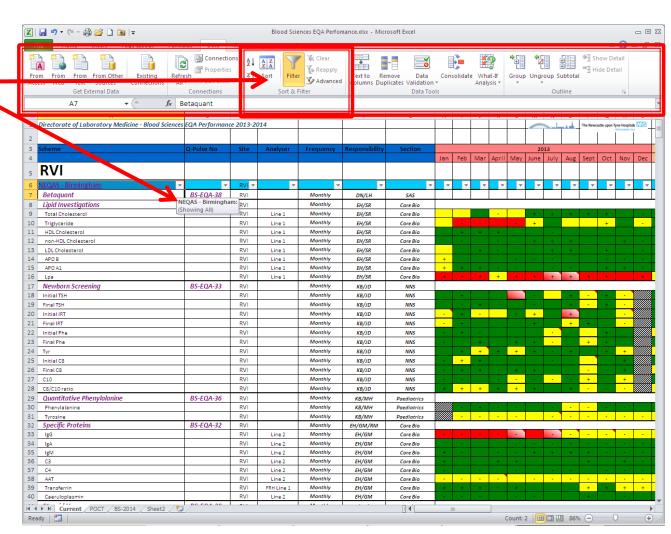


157 EQA Records across 2 sites



Filters and Tools

- Site
- Section
- Instrument
- Parameter (Analyte)
- Responsibility
- Add comments



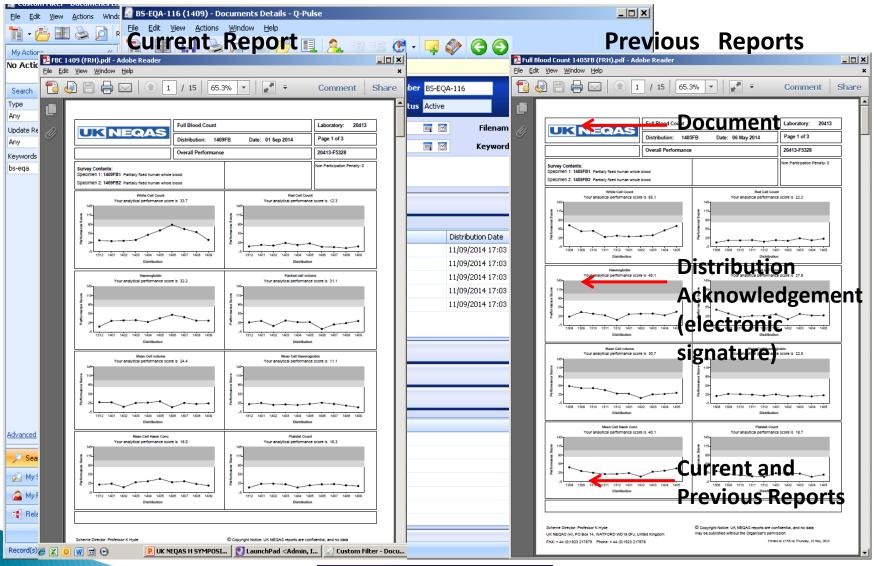


EQA Flagging notes

Scheme	V	Site ▼	Analyse ▼	Frequency *	Responsibili 🔻	Section ~	-	~	-	~	-	-	Mor ▼	-	~	-	~	~
							Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Final C8		RVI		Monthly	KB/JD	NNS	-	+	+	-	+	+						
C10		RVI		Monthly	KB/JD	NNS	-	-		-	-	-	-	-				
C8/C10 ratio		RVI		Monthly	KB/JD	NNS	+	+	+	+	+	+		+				
Quantitative Phenylalanine		RVI		Monthly	кв/мн	Paediatrics												
Phenylalanine		RVI		Monthly	кв/мн	Paediatrics		-	+	-	-		-	-				
Tyrosine		RVI		Monthly	кв/мн	Paediatrics		-	-	-	-		-	-				
Specific Proteins		RVI		Monthly	EH/GM/RM	Core Bio												
IgG		RVI	Line 2	Monthly	EH/GM	Core Bio	-	-	-	-	1	Mus	aroveL		<u> </u>			<i>111</i> 2
IgA		RVI	Line 2	Monthly	EH/GM	Core Bio		-			-				e to Ro	oche N	/lodula	ır 💹
IgM		RVI	Line 2	Monthly	EH/GM	Core Bio	+	Method Change to Roche Modula										
C3		RVI	Line 2	Monthly	EH/GM	Core Bio	+	+ + + /										
C4		RVI	Line 2	Monthly	EH/GM	Core Bio	-		-		-/	[©] uun			///.•/////	mmm	mmm.	<i>777</i> 15
AAT		RVI	Line 2	Monthly	EH/GM	Core Bio	-	-	-	-		-	-	-	-			
Transferrin		RVI	FRH Line 1	Monthly	EH/GM	Core Bio	+	+	+	-	+				+			
Caeruloplasmin		RVI	Line 2	Monthly	EH/GM	Core Bio	-	-	-		/-	-			+			
Steroid Hormones		RVI		Monthly	AB/LH/GM	Core/SAS												
Cortisol (Serum)		RVI	Line 1	Monthly	AB/GM	Core Bio	+	+	+	+	+	+	+	+				
Cortisol (Urine)		RVI	Line 1	Monthly	AB/LH/GM	Core Bio	+	+	+		+	+						
Progesterone		RVI	Line 2	Monthly	AB/GM	Core Bio	-							+				i
Oestradiol		RVI	Line 2	Monthly	AB/GM	Core Bio			+			+	+	+				
High Oestradiol		RVI	Line 2	Monthly	AB/GM	Core Bio				-								
Testo Female		RVI	Line 2	Monthly	AB/GM	Core Bio	-	-	-	-	-	-		+				
Testo Male		RVI	Line 2	Monthly	AB/GM	Core Bio			+	+	+	+	+	+				
SHBG		RVI	Line 2	Monthly	AB/GM	Core Bio		+			-		+	+				
Androstenedione		RVI	Immulite	Monthly	AB/GM	Core Bio	+			+	+	+		+				<u> </u>
Dheas		RVI	Line 2	Monthly	AB/GM	Core Bio	+	+	+	+	+	+	+	+				<u> </u>
Aldosterone		RVI	Line 2	Monthly	AB/LH	SAS		-			-	-						
Sweat Testing		RVI		Monthly	KB/CJ/MH	Paediatrics			+	+	+			+				

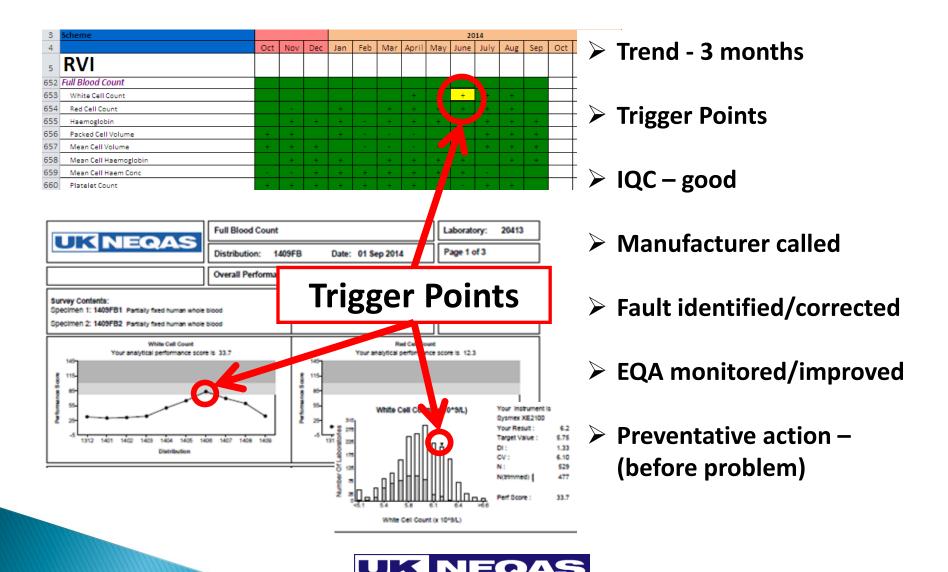


EQA Distribution Blood Sciences





Trend Monitor Example - WBC



Challenges to Laboratories

- Trend recognition-Investigation and root cause
- Pre-emptive alerts and actions
- Joining the dots (EQA,IQC, Complaints, incidents, system, equipment failure etc.)
- Corrective and remedial actions

Monitoring effectiveness



Veni, Vidi, Vici



Achieve The Objectives (Hopefully)

