UK NEQAS

International Quality Expertise

UK National External Quality Assessment Service

Organiser Shila Seaton

Bacteriology Scheme Manager

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History of UK NEQAS

UK NEQAS for Microbiology is one of a number of UK NEQASs which provide quality assessment in most disciplines of laboratory medicine.
The UK NEQASs began in 1969 and Microbiology was added in 1971.
Schemes were initiated by and continue to be overseen by the professions and learned societies. Up until March 1992, schemes were financially supported by central funding from the Department of Health (DH).
Since April 1992, schemes are funded by income derived from participants' subscriptions. Schemes are physically located with host authorities, usually health authorities and in the case of the microbiology schemes, Public Health England

Day to day management of the UK NEQASs is vested in the Organiser. The Organiser is responsible for local administrative matters to the host authority. The Organiser receives advice on the running of the scheme from a Steering Group on Quality Assessment, which comprises practising professionals specific to the discipline. Matters relating to participants' performance are dealt with by the relevant National Quality Assurance Advisory Panel which comprises nominees from the professional and learned societies. The Panel also advises the Organiser on matters relating to assessment of performance.

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Our host authority
Public Health England

Colindale site:

- Surveillance
- Microbiology (specialist and reference)
  - Reference microbiology
  - Outbreak investigation
  - FEW microbiology
  - Specialist advice and guidance
  - Research and development (R&D)
  - Assuring Quality

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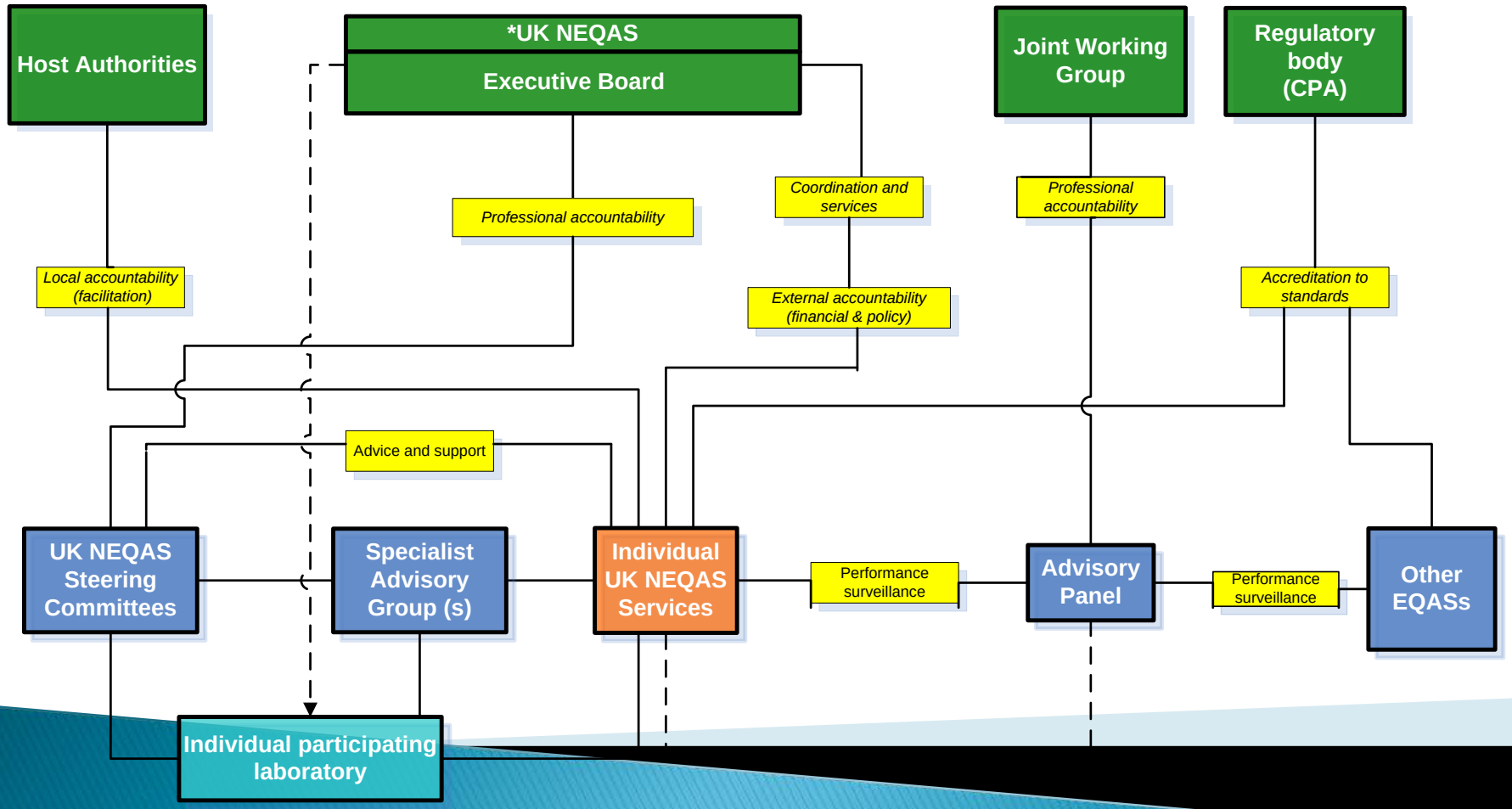
Structures for UK NEQAS Oversight



*UK National External Quality Assessment Services:
-A charitable company limited by guarantee
-Company membership (guarantor) open to those services entitled to use the name UK NEQAS
-Executive elected from and by the membership
Entitlement to UK NEQAS status is determined through compliance with the UK NEQAS Code of Practice.

UK NEQAS Divisions

website: ukneqas.org.uk

Andrology	male fertility investigations
Clinical Chemistry	blood chemical components: cardiac markers, drug assays, peptide hormones, trace elements
Genetics	cytogenetics and molecular genetic analysis
Haematology	blood cellular components, blood grouping, blood coagulation, haematinics, feto-maternal haemorrhage, leucocyte Immunophenotyping
Cellular pathology	structure and function of body tissues
Immunology and immunocytochemistry	components of the immune system in blood, histocompatibility and immunogenetics
Microbiology	infectious agents, parasites & antibiotics assays

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Microbiology

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European Countries

Non European Countries

Information correct as of September 2016

Published: 07/10/2016 Expires: N/A

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External Quality Assessment

- Challenge of laboratory procedures with specimens of known but undisclosed content
- EQA provides assessment of:
  - the overall standard of performance (state of the art; comparison with other participants)
  - the influence of analytical procedures (methods, reagents, instruments, calibration)
  - individual laboratory performance
  - proficiency of staff
  - the specimens distributed in the scheme
- Educational stimulus to improvement
- Provide an insight into the quality of the routine work of the laboratory
- Provide reassurance that all the components of the quality system are working

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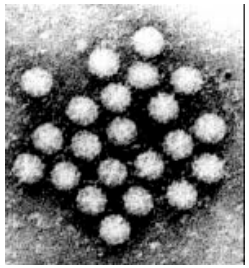
Schemes overview



Virology
•23 schemes

Mycology
•2 schemes

Bacteriology
•12 schemes

Parasitology
•8 schemes

45 SCHEMES

Identification
•Biochemistry
•Antigen (IF / agglutination…)
•Growth characteristics
•Molecular

Typing / subtyping
•Biochemistry
•Antigen
•Molecular

Quantification
•Microscopic
•Molecular

Susceptibility
•phenotype
•genotype

Serology
•EIA
•Agglutination
•Line assays
•IF

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WHO IB–VPD Pilot EQA Timeline

		2016
1	Design and preparation of EQA (isolates and simulated non-culture samples)	January-February
2	Receipt to UK NEQAS of organisms and non-culture materials for specimens	March -April
3	Freeze-drying of specimens Pre-despatch quality control checking by GRLs	April-May
4	Distribution of EQA panel	16th May
5	Deadline for receipt of results	11th July
6	Intended//Consensus of Results	23rd August
7	Analysis of returned reports	Sept-Oct
8	Draft report to WHO HQ & WHO ROs	October
9	Grading of Results to WHO HQ & WHO ROs	October
10	Individual laboratory reports released	November
11	Final report	November

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Specimen preparation

- Gram stain simulated CSF smear
- Lyophilised culture
- Lyophilised non culture
- Quality Control

WHO IB-VPD-net EQA

- 9 RRLs (two reference labs) 18 NL/SSL
- 29 panels
- 96.6% (28/29)
- 1 non return

- 112 SSLs
- 112 panels
- 82% (92/112)
- 20 labs non return

Distribution 4054

Distribution 4055

On-line web entry

UKNEQAS

United Kingdom National External Quality Assessment Schemes

UK NEQAS Birmingham Home Page | Results and Reports | Change ID | Help | PDF Help

Results Entry

Laboratory: **NM63**

Scheme: **WHO IBVPD**
Distribution: **4054 (CLOSED)**
Dispatch date: **16-05-2016**
Return results: **27-06-2016**

Results shown are your last ONLINE submission and may not reflect subsequent amendments.
If error(s) are shown then NONE of your results were accepted for this distribution.

Status: ✔ **Last submitted on 22-06-2016 12:41:09**

Page: Info | Spec:3651 | Spec:3652 | Spec:3653 | Spec:3654 | Spec:3655 | Spec:3656 | Spec:3657 | Spec:3658 | Spec:3659 | Spec:3660
Spec:3661 | Spec:3662 | Spec:3663 | Spec:3664 | Spec:3665 | Spec:3666 | Spec:3667 | Spec:3668 | Final Page | Print

This web form consists of 20 pages. It is recommended that you move sequentially through the pages to enter your results. As you move through the pages the information you have entered is automatically saved. Any error or omission on the page will be highlighted in red and a suitable error message provided. You may make changes to the saved data at any time until you have submitted. If you make an error when re entering data select **Reset** to take you back to the last saved information.
By re-accessing this form you can amend and resubmit your results at anytime before the close of the distribution. However, please note, if you make a change or click in any field the submission status will change to 'NOT submitted' highlighted in red. Please make sure you resubmit.

To enter results select the **Specimen** button, enter results/select results from the drop down menu and select **Save Results** to save the results. If you select other for any results please enter details in the general comments field.
The information you have entered is automatically saved. Any error or omission on the page will be highlighted in red and a suitable error message provided. You may make changes to the saved data at any time until you have submitted. If you make an error when re entering data select **Reset** to take you back to the last saved information. By re-accessing this form you can amend and resubmit your results at anytime before the close of the distribution.
The **Final Page** contains a text box for free text (comments) which are received at the closing date. Please provide an email address if you require a response to your comment. Select the **Submit** button on the Final Page to send your results. Once your results have been submitted print or save a copy of your results by selecting the **Print** button. If your submission was successful the status will change to 'Last submitted on [Date][Time]' highlighted in green.

If you have any problems entering your results please email us at WHOIBVPD@ukneqasmicro.org.uk

Organised jointly between WHO, UK NEQAS for Microbiology, and Public Health England on behalf of the WHO IBVPD surveillance network

Results Entry

Laboratory: **NM63**

Scheme: **WHO IBVPD**
Distribution: **4054 (CLOSED)**
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Invalid code or can't see predictive menus? Copy this address into your browser for help
http://ukneqasmicro.org.uk/images/pdf/W032.pdf

	Specimen : 3655
Organism [3655]	Streptococcus pneumoniae
Serotype/Serogroup [3655]	19F
Subtype/Biotype [3655]	○ II ○ IV ○ V ○ VIII ○ 19-1, 15-11, F1-7 ○ 19-1, 15-11, F11-7 ○ 2a: P1.5, P1.2 ○ 5,2, F1-146 ○ 7-2, 4, F1-146 ○ P19.1 ◉ Not applicable ○ Not examined ○ P1.19, P1.15

	Not applicable Not examined P1.19, P1.15 P1.5, P1.2
mments (phenotype) [3655]	
ganism (molecular) [3655]	
rget gene (organism) [3655]	Not Examined lytA ctrA crgA hpd sodC ompP2 other (specifiy in comments) ply
value (organism) [3655]	
psular type/Genogroup (molecular) [3655]	19F
rget gene (genogrp) [3655]	wzy
value (genogroup) [3655]	
mments (genotype) [3655]	conventional PCR

ideline	CLSI
ethod used routinely	>1 method used
gradient MIC please specify manufacturer	
gradient MIC please specify concentration range	
automated, specify instrument	

Example : Report

UK NEQAS Microbiology

WHO IBVPD

Distribution : **4054**

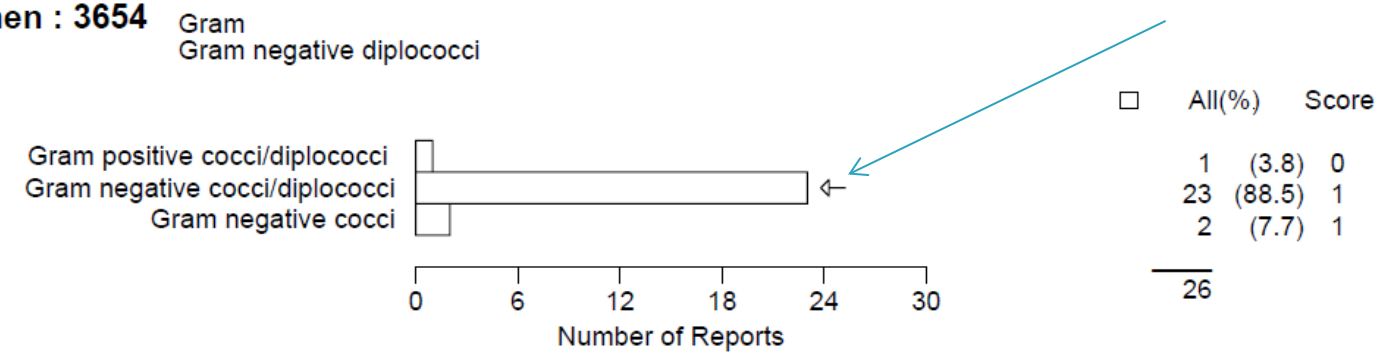
Dispatch Date : 16-May-2016

Laboratory :

Page 1 of 25

Intended Result		Your Report	Your Score
Specimen 3651			
Gram	Gram negative bacilli	Gram positive cocci/diplococci	0
Specimen 3652			
Gram	Gram negative bacilli/cocco-bacilli	Gram negative bacilli/cocco-bacilli	1
Specimen 3653			
Gram	Gram positive cocci	Gram positive cocci/diplococci	1
Specimen 3654			
Gram	Gram negative cocci/diplococci	Gram negative cocci/diplococci	1

Specimen : 3654 Gram
Gram negative diplococci



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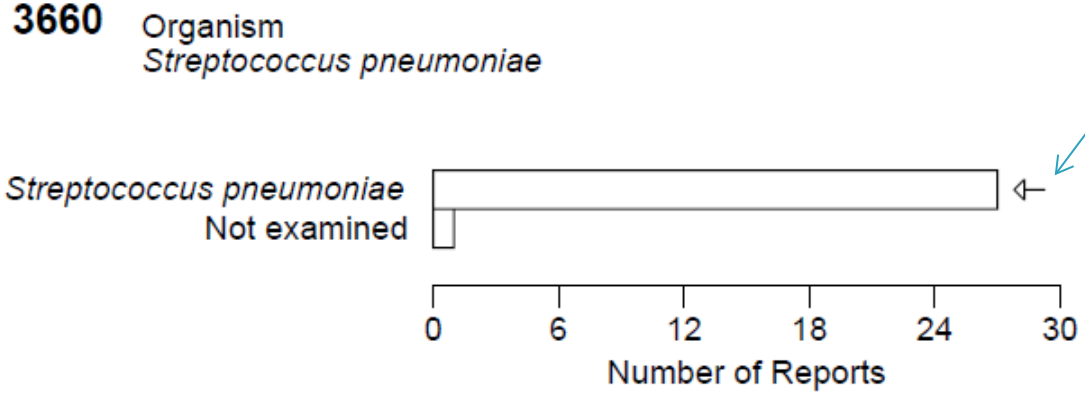
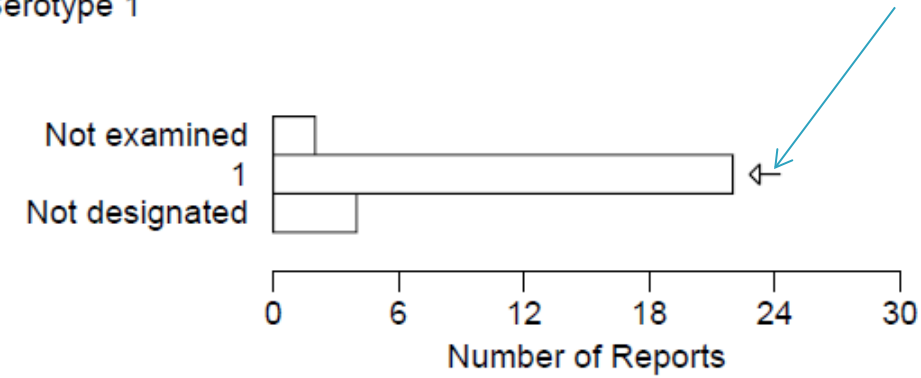
Reported Results Illustration

Specimen : 3660 Organism
Streptococcus pneumoniae



	All(%)	Score
Streptococcus pneumoniae	27 (96.4)	2
Not examined	1 (3.6)	
	28	

Specimen : 3660 Serotype/Serogroup
Serotype 1



	All(%)	Score
Not examined	2 (7.1)	
1	22 (78.6)	2
Not designated	4 (14.3)	0
	28	

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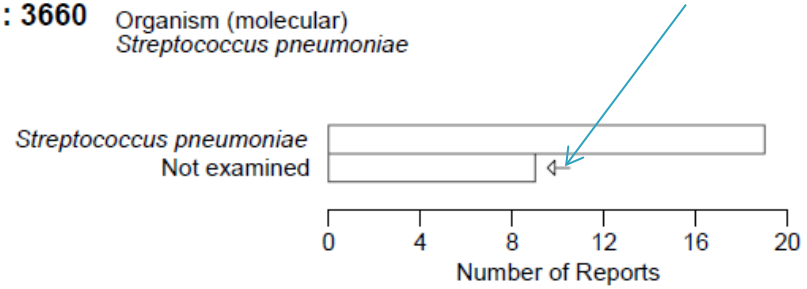
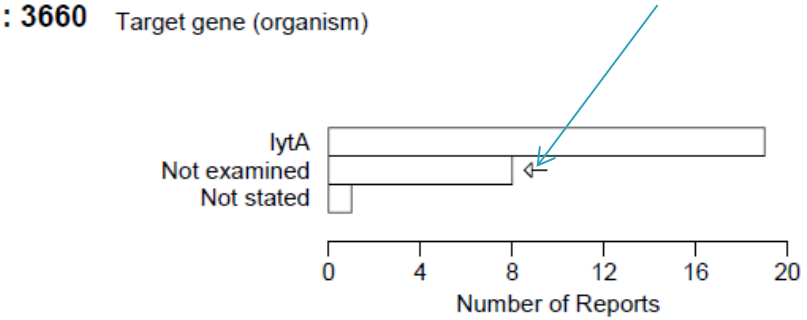
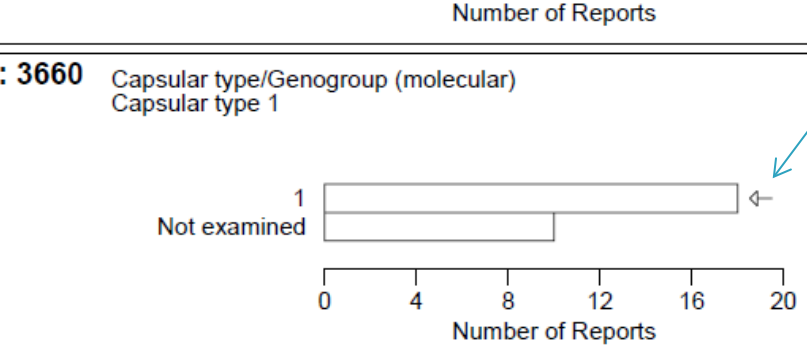
Specimen : 3660 Organism (molecular)
Streptococcus pneumoniae



Specimen : 3660 Target gene (organism)



Specimen : 3660 Capsular type/Genogroup (molecular)
Capsular type 1



Specimen : 3660 Target gene (genogrp)