UK NEQAS Immunology, Immunochemistry & Allergy

Schemes Available

Programmes in Autoimmunity

UK NEQAS for General Autoimmune Serology UK NEQAS for Antibodies to Nuclear and Related Antigens **UK NEQAS for Phospholipid Antibodies** UK NEQAS for Neutrophil Cytoplasmic and Glomerular Basement Membrane Antibodies **UK NEQAS for Acetylcholine Receptor Antibodies UK NEQAS for Bullous Dermatosis UK NEOAS for Coeliac Disease Antibodies** UK NEQAS for Interferon Gamma Release Assay (Mycobacterium Tuberculosis) **UK NEQAS for Paraneoplastic Antibodies UK NEOAS for Diabetic Markers UK NEQAS for Ganglioside Antibodies UK NEQAS for Myositis Associated Antibodies UK NEQAS for Phospholipase A2 Receptor Antibodies** UK NEQAS for Myelin Associated Glycoprotein IgM Associated Glycoproteins (MAG) UK NEQAS for SARS-CoV-2 / COVID-19 Antibodies **Pilot UK NEQAS for NMDAR**

Programmes in Allergy and Immunodeficiency

UK NEQAS for Antibody to Fungal and Avian Antigens UK NEQAS for IgG Subclasses UK NEQAS for Specific Microbial Antibodies UK NEQAS for Total IgE UK NEQAS for Allergen Specific IgE UK NEQAS for Allergen Component Testing UK NEQAS for Tryptase

Programmes in Immunochemistry

UK NEQAS for Alkaline Phosphatase Isoenzymes UK NEQAS for β2Microglobulin UK NEQAS for C1 Esterase Inhibitor and Functional Complement Assays UK NEQAS for C-Reactive Protein & Procalcitonin Pilot UK NEQAS for Point of Care CRP Testing UK NEQAS for Ultrasensitive C-Reactive Protein UK NEQAS for Ultrasensitive C-Reactive Protein UK NEQAS for CSF IgG Oligoclonal bands UK NEQAS for CSF IgG Oligoclonal bands UK NEQAS for CSF Haem Pigments UK NEQAS for CSF Proteins and Biochemistry UK NEQAS for CSF Proteins and Phenotype Identification UK NEQAS for CSF β2 Transferrin and β Trace Protein UK NEQAS for Interleukin-6 (IL6)

Programmes in Oncology

UK NEQAS for Monoclonal Protein Identification Pilot UK NEQAS for Cryoprotein (image based) UK NEQAS for Prostate Specific Antigen (PSA) UK NEQAS for Tumour Markers (CA Series) UK NEQAS for Ultrasensitive PSA (UPSA)

Digital Programmes (Image Based)

Digital ANA (dANA) – Image Based

New Pilot Programmes – Immunoglobulin D and Scleroderma

PROGRAMMES

FOR AUTOIMMUNITY

General Autoimmune Serology

Accreditation Status:	UKAS Schedule of Accreditation
Date Scheme started:	1982, reconfigured 2002
Clinical Applicability:	Diagnosis of autoimmune disease
Analytes:	Citrullinated Proteins (CP), Rheumatoid Factor IgM (RF), Thyroid Peroxidase Antibody (TPO), Anaemia Related Antibodies (GPC), Liver Disease Antibodies (LKM including AMA and SMA) and TSH Receptor Antibodies (TRAb). <i>Each</i> <i>analyte is available separately</i> <i>The sample analytes included will depend on their prevalence in the general</i> <i>population, therefore not all analytes may be covered during the year</i>
Units for Reporting:	U/mL in relation to the appropriate International Reference Preparations, or titre. Qualitative responses or interpretation of quantitative results are recorded as POSitive or NEGative
Samples Distributed:	Liquid format. Normal and pathological human serum
Number of Distributions per year:	6
Number of Samples per Distribution:	6 (1 x RF, 1 x TPO, 1 x CP, 1 x Liver, 1 x GPC and 1 x TRAb)
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics
Data Analysis:	Qualitative responses are recorded for each analyte and assessed in relation to the designated response. Reports show method or kit related statistics in terms of Method Laboratory Trimmed Mean (MLTM) and range of results reported
Performance Scoring:	MI scoring
Criteria of Performance:	Laboratory performance is classified in terms of OMIS derived from the qualitative responses for all analytes for which the laboratory is registered over a running analytical window of 6 Distributions (12 months)
	The categories of performance are:
	Total MIS Good Zero Adequate 1-2 Poor >2 A OMIS of >2 (out of a possible six in the defined time window) for any one analyte will also be classified as poor performance.
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive Distributions

Antibodies to Nuclear and Related Antigens

Accreditation Status:	UKAS Schedule of Accreditation	
Date Scheme started:	1987, reconfigured 2002	
Clinical Applicability:	Diagnosis of autoimmune disease	
Analytes:	Qualitative identification of antibody to nuclear antigens (ANA), dsDNA and to the saline-extractable nuclear antigens (ENAs) SSA(Ro), SSB(La), Sm, RNP, Sm/RNP, Scl70, Jo-1, ENA screen, and the pattern of antinuclear staining on immunofluorescence in the HEp-2 cell system including the identification of centromere antibody. The ICAP classification is followed. The sample analytes included will depend on their prevalence in the general population, therefore not all analytes may be covered during the year	
Units for Reporting:	Qualitative and quantitative responses for the ANA, DNA, Centromere and ENA antibodies in relation to relevant reference preparations	
Samples Distributed:	Liquid format. Normal and pathological human serum	
Number of Distributions per year:	6	
Number of Samples per Distribution:	2	
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule	
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics	
Data Analysis:	Qualitative responses are assessed in terms of MI scoring for each antibody specificity in relation to the Designated Response. Laboratories also submit the immunofluorescent staining pattern of antinuclear antibody. Reports show method or kit related statistics in terms of Method Laboratory Trimmed Mean (MLTM) and range of results reported	
Performance Scoring:	MI scoring	
Criteria of Performance:	Laboratory performance for each antibody specificity is classified in terms of MI scoring over a running analytical window of 6 Distributions (12 months)	
	The categories of performance are:	
	Total MISGoodzeroAdequate1-3Poor>3An OMIS of 3 or more for any one analyte will be classed as poor performance.	
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive Distributions	

Phospholipid Antibodies

Accreditation Status:	UKAS Schedule of Accreditation	
Date Scheme started:	1987	
Clinical Applicability:	Diagnosis of autoimmune disease	
Analytes:	Identification and quantitation of Cardiolipin antibody (IgG and IgM), and will survey performance in the assays for antibodies to $\beta2$ –Glycoprotein1 (both IgG and IgM) and Phosphatidylserine (IgG only). Other new generation phospholipid antibody assays will be considered for inclusion if clinical need dictates	
Units for Reporting:	Qualitative responses phospholipid antibodies; Quantitative responses in GPLU/mL and MPLU/mL	
Samples Distributed:	Liquid format. Normal and pathological human serum	
Number of Distributions per year:	6	
Number of Samples per Distribution:	2	
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule	
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics	
Data Analysis:	Laboratories are requested to give a qualitative interpretation of the cardiolipin, β 2GP1 and phosphatidylserine antibody results. This element of the programme is assessed by MI scoring. Reports show the quantitative responses returned for each analyte in relation to both All Laboratory and Method / Manufacturer specific data	
Performance Scoring:	MI scoring	
Criteria of Performance:	Laboratory performance is classified in terms of OMIS derived from the qualitative responses for all analytes for which the laboratory is registered during a time window encompassing 6 Distributions (12 months)	
	The categories of performance are:	
	<u>Iotal MIS</u>	
	Poor >3	
	An OMIS of 3 or more for any one analyte will be classed as poor performance.	
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive Distributions	

ANCA and GBM Antibodies

Accreditation Status:	UKAS Schedule of Accreditation	
Date Scheme started:	1987	
Clinical Applicability:	Diagnosis of autoimmune disease	
Analytes:	Identification of the Neutrophil Cytoplasmic Antibodies, C-ANCA, P-ANCA, and Glomerular Basement Membrane (GBM). Quantitative assessment is currently restricted to the Proteinase 3 (PR3) and Myeloperoxidase (MPO) antibodies and to GBM antibodies, but will be extended to include other ANCA specificities as required	
Units for Reporting:	Qualitative responses for the ANCA specificities; quantitative assessment of the specific antibodies in U/mL and IU/mL	
Samples Distributed:	Liquid format. Normal and pathological human serum	
Number of Distributions per year:	6	
Number of Samples per Distribution:	2	
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule	
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics	
Data Analysis:	Qualitative responses for ANCA (C-ANCA and P-ANCA), MPO, PR3 and GBM are assessed in relation to the Designated Response	
Performance Scoring:	MI scoring	
Criteria of Performance:	Laboratory performance for ANCA is assessed over a running analytical window of 6 Distributions (12 months). The categories of performance are:	
	Total MISGoodZeroAdequate1-2Poor>2	
	An OMIS of 3 or more for any one analyte will also be classified as poor performance.	
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive Distributions	

Acetylcholine Receptor Antibody

Accreditation Status:	UKAS Schedule of Accreditation
Date Scheme started:	1991
Clinical Applicability:	Diagnosis and monitoring of Myasthenia Gravis
Analytes:	ACR
Units for Reporting:	nmol/L
Samples Distributed:	Liquid format. Normal and pathological human serum Additional materials may be produced for specific recovery experiments by the addition of a reference serum to an analyte-free serum matrix
Number of Distributions per year:	4
Number of Samples per Distribution:	3
Frequency of Distributions:	Every three months as outlined in the Distribution Schedule
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics
Data Analysis:	Qualitative responses are recorded for each analyte and assessed in relation to the designated response. Reports show method or kit related statistics in terms of Method Laboratory Trimmed Mean (MLTM) and range of results reported
Performance Scoring:	MI scoring
Criteria of Performance:	Laboratory performance is assessed over a running analytical window of 4 Distributions (12 months)
Persistent Poor Performance:	The categories of performance are: <u>Total MIS</u> Good Zero Adequate 1 Poor >1 Defined as being in the Poor Performance category for two or more
	successive Distributions

Bullous Dermatosis Antibodies

Accreditation Status:	UKAS Schedule of Accreditation	
Date Scheme started:	1995	
Clinical Applicability:	Diagnosis of Bullous Dermatosis	
Analytes:	Dermatosis Basement Membrane and Desmosome antibodies, anti-DSG-1 antibodies, anti-DSG-3 antibodies, anti-BP-180 antibodies and anti-BP-230 antibodies	
Units for Reporting:	Positive or Negative, U/mL, Ratio, or Titre as appropriate	
Samples Distributed:	Liquid format. Normal and pathological human serum	
Number of Distributions per year:	6	
Number of Samples per Distribution:	1	
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule	
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics	
Data Analysis:	Qualitative responses are assessed by MI scoring in relation to the designated response	
Performance Scoring:	MI scoring and OMIS for all analytes for which the laboratory is registered	
Criteria of Performance:	Laboratory performance is assessed over a running analytical window of 6 Distributions (12 months)	
	The categories of performance are: Total MIS Good Zero Adequate 1 Poor >1	
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive Distributions	

Coeliac Disease Antibodies

Accreditation Status:	UKAS Schedule of Accreditation	
Date Scheme started:	1995	
Clinical Applicability:	Diagnosis of Coeliac Disease	
Analytes:	Gliadin, deamidated gliadin peptide (DGP), endomysial and tissue transglutaminase antibodies (TTG)	
Units for Reporting:	Positive or Negative, U/mL, or titre as appropriate	
Samples Distributed:	Liquid format. Normal and pathological human serum	
Number of Distributions per year:	6	
Number of Samples per Distribution:	1	
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule	
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics	
Data Analysis:	Qualitative responses are recorded for each analyte and assessed in relation to the designated response. Reports show method or kit related statistics in terms of Method Laboratory Trimmed Mean (MLTM) and range of results reported	
Performance Scoring:	MI scoring for all analytes for which the laboratory is registered	
Criteria of Performance:	Laboratory performance is assessed over a running analytical window of 6 Distributions (12 months)	
	The categories of performance are: Total MIS Good Zero Adequate 1-2 Poor >2 An OMIS of 2 or more for any one analyte will also be classified as poor performance	
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive Distributions	

Interferon Gamma Release Assays (Mycobacterium tuberculosis) IGRA TB

Accreditation Status:	UKAS Schedule of Acc	UKAS Schedule of Accreditation			
Date Scheme started:	2009	2009			
Clinical Applicability:	Test for latent tubercu M. tuberculosis compl	Test for latent tuberculosis infection and a useful aid for diagnosing M. tuberculosis complex infection			
Analytes:	IGRA TB	IGRA TB			
Units for Reporting:	Qualitative responses responses (IU/mL), nu	(Positive, Negati mber of T-spots,	ve and Inde Clinical and	terminate), Quantita I Technical Interpreta	itive ations
Samples Distributed:	Normal and pathologi Distributions are linke Immunochemistry & A	Normal and pathological human serum Distributions are linked to cases on the UK NEQAS for Immunology, Immunochemistry & Allergy Interpretative EQA Scheme (iEQA) website			
Number of Distributions per year:	6				
Number of Samples per Distribution:	2 sets of 4 (Nil, TB1 an microtiter strip consis	2 sets of 4 (Nil, TB1 antigen, TB2 antigen and Mitogen), or one pre-incubated microtiter strip consisting of two samples			
Frequency of Distributions:	Every two months as o	outlined in the Di	stribution S	Schedule	
Schedule of Analysis:	Data entry is via the w is commenced 21 days contribute to the labo	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics			
Data Analysis:	All Laboratory Trimme and CV%. Reports show performance is expres Chosen Coefficient of V Qualitative responses a	All Laboratory Trimmed Mean (ALTM) with truncation at 2SD, SD and CV%. Reports show method specific statistics. Individual laboratory performance is expressed in terms of MRBIS, SDBIS and MRVIS Chosen Coefficient of Variation for Interferon gamma is 20% Qualitative responses are assessed in relation to the designated response			
Performance Scoring:	MRVIS / MI scoring				
C riteria of Performance: OMIS for qualitative results ov Distributions (12 months)		esults over a run nonths)	ning analyti	cal window of 6	
	Good Adequate Poor	OMIS	Zero 1 >1		
	Individual laboratory p Distributions (12 mon expressed in terms of	Individual laboratory performance over a running analytical window of 6 Distributions (12 months) for Interferon Gamma Release Assay quantitation is expressed in terms of MRBIS, SDBIS and MRVIS			
	Ideal Good Adequate Poor	MI	RVIS	<50 50 – 100 101 – 200 >200 or SDBIS >20	00
Persistent Poor Performance:	Defined as being in the successive Distribution	e Poor Performa າs	nce categor	y for two or more	

Paraneoplastic Antibodies

Accreditation Status:	UKAS Schedule of Accreditation	
Date Scheme started:	2009	
Clinical Applicability:	Paraneoplastic autoantibodies are seen with a variety of neurological manifestations and can be associated with an underlying malignancy	
Analytes:	ANNA-1 (Hu), ANNA-2 (Ri), PCA-1 (Yo), CRMP5 (CV2), Amphiphysin, Ma-2 (Ta) and neurological GAD The sample analytes included will depend on their prevalence in the general population, therefore not all analytes may be covered during the year	
Units for Reporting:	Paraneoplastic Antibodies – present or absent Antibody identification – Analytes from list, ANNA-1 etc	
Samples Distributed:	Liquid format. Normal and pathological human serum	
Number of Distributions per year:	6	
Number of Samples per Distribution:	2	
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule	
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics	
Data Analysis:	Qualitative responses are assessed in relation to the designated response	
Performance Scoring:	MI scoring	
Criteria of Performance:	Laboratory performance is classified in terms of OMIS derived from the qualitative responses for all analytes for which the laboratory is registered over a running analytical window of 6 Distributions (12 months)	
	The categories of performance are: Total MIS Good Zero Adequate 1-2 Poor >2	
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more	

successive Distributions

Diabetic Markers

Accreditation Status:	UKAS Schedule of Accreditation	
Date Scheme started:	2011	
Clinical Applicability:	Aiding the clinical diagnosis of type I diabetes	
Analytes:	Islet cell (ICA), Glutamic Acid Decarboxylase (GAD) and Protein Tyrosine Phosphatase (IA2), Insulin antibody (IA), Zinc Transporter 8 Antibody (ZnT8), Diabetic Marker Autoantibody Screen The sample analytes included will depend on their prevalence in the general population, therefore not all analytes may be covered during the year	
Units for Reporting:	Islet cell: qualitative (titre) or U/mL GAD: U/mL IA2: U/mL IA: U/mL % Binding ZnT8: U/mL Diabetic Marker Autoantibody Screen: U/mL	
Samples Distributed:	Liquid format. Normal and pathological human serum	
Number of Distributions per year:	6	
Number of Samples per Distribution:	2	
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule	
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 28 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics	
Data Analysis:	Qualitative responses are recorded for each analyte and assessed in relation to the designated response. Reports show method or kit related statistics in terms of Method Laboratory Trimmed Mean (MLTM) and range of results reported	
Performance Scoring:	MI scoring	
Criteria of Performance:	Laboratory performance is classified in terms of OMIS over a running analytical window of 6 Distributions (12 months). Cumulative performance scores are based on qualitative response	
	The categories of performance are: Total MIS Good zero Adequate 1 - 3 Poor >3	
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive Distributions	

Ganglioside Antibody Markers

Accreditation Status:	UKAS Schedule of Accreditation	
Date Scheme started:	2014	
Clinical Applicability:	Diagnosis of neuropathy syndromes	
Analytes:	IgG, IgM, IgG/IgM: GM1, GM2, GD1a, GD1b and GQ1b The sample analytes included will depend on their prevalence in the general population, therefore not all analytes may be covered during the year	
Units for Reporting:	Results may be reported as Ratio, Titre, Other or N/A	
Samples Distributed:	Liquid format. Normal and pathological human serum	
Number of Distributions per year:	6	
Number of Samples per Distribution:	2	
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule	
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics	
Data Analysis:	Qualitative responses are recorded for each analyte and assessed in relation to the designated response. Reports also show the number of Positive or Negative responses for each method	
Performance Scoring:	MI scoring	
Criteria of Performance:	Laboratory performance is classified in terms of OMIS derived from the qualitative responses for all analytes for which the laboratory is registere over a running analytical window of 6 Distributions (12 months)	
	The categories of performance are: <u>Total MIS</u> Good zero Adequate 1 - 3 Poor >3	
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive	

Persistent Poor Performance

Defined as being in the Poor Performance category for two or more successive Distributions

Myositis Associated Antibodies

Accreditation Status:	UKAS Schedule of Accreditation	
Date Scheme started:	2017	
Clinical Applicability:	Diagnosis of autoimmune disease	
Analytes:	Jo-1, PL7, PL12, PM-SCL100, Mi-2, SRP and ANA The sample analytes included will depend on their prevalence in the general population, therefore not all analytes may be covered during the year	
Units for Reporting:	Qualitative and quantitative responses for Jo-1, PL7, PL12, PM-SCL100, Mi-2, SRP, and the pattern of antinuclear staining on immunofluorescence in the HEp-2 cell system	
Samples Distributed:	Liquid format. Normal and pathological human serum	
Number of Distributions per year:	6	
Number of Samples per Distribution:	2	
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule	
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics	
Data Analysis:	Qualitative responses are recorded for each analyte and assessed in relation to the designated response	
Performance Scoring:	MI scoring	
Criteria of Performance:	Laboratory performance is classified in terms of OMIS over a running analytical window of 6 distributions (12 months).	
	The categories of performance are: <u>Total MIS</u>	
	Good zero	
	Adequate 1 Poor >1	
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive	

Distributions.

Phospholipase A2 Receptor Antibodies (PLA2R)

Accreditation Status:	UKAS Schedule of Accreditation
Date scheme started:	2018
Clinical Application:	Primary (idiopathic) membranous nephropathy
Analytes:	PLA2R
Units for Reporting:	mg/L
Samples distributed:	Liquid format. Normal and pathological human serum
Number of distributions per year:	6
Number of samples per distribution:	2
Frequency of Distributions:	Every 2 months as outlined in the Distribution Schedule
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics
Data Analysis:	Qualitative responses are assessed by MI scoring in relation to the designated response
Performance Scoring:	MI scoring
Criteria of Performance:	Laboratory performance is classified in terms of OMIS over a running analytical window of 6 distributions (12 months)
	The categories of performance are: Total MIS Good zero Adequate 1 Poor >1
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive

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Defined as being in the Poor Performance category for two or more successive Distributions.

Myelin Associated Glycoprotein IgM Antibodies (MAG)

Accreditation Status:	UKAS Schedule of Accreditation
Date Scheme started:	2019
Clinical Applicability:	IgM anti – MAG found in sensory motor neuropathies and IgM paraprotein associated neuropathies
Analytes:	MAG
Units for Reporting:	Qualitative and quantitative responses for MAG
Samples Distributed:	Liquid format. Normal and pathological human serum
Number of Distributions per year:	6
Number of Samples per Distribution:	2
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and wil contribute to the laboratory's cumulative performance statistics
Data Analysis:	Qualitative responses are assessed in relation to the designated response
Performance Scoring:	MI scoring
Criteria of Performance:	Laboratory performance is classified in terms of OMIS over a running analytical window of 6 distributions (12 months)
	Categories of performance are: <u>Total MIS</u> Good zero
	Adequate1 - 3Poor>3
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive

Distributions.

SARS-CoV-2 / COVID-19 Antibodies

Accreditation Status:	UKAS Schedule of Accreditation		
Date Scheme started:	2020		
Clinical Applicability:	Detection of antibodies to SARS-CoV-2 / COVID-19 confirming previous infection		
Analytes:	Antibodies to SARS-CoV-2 as IgG, Ig	gM, IgA, Total Ig	
Units for Reporting:	Qualitative and quantitative respon	nses, method depe	endent
Samples Distributed:	Liquid format. Normal and patholo	gical human serun	n
Number of Distributions per year:	6		
Number of Samples per Distribution:	2		
Frequency of Distributions:	Every month as outlined in the Dist	ribution Schedule	
Schedule of Analysis:	Data entry is via the web for the su commenced 14 days after sample of will contribute to the laboratory's c	bmission of result dispatch. Late retu umulative perforn	 Data analysis is irns are accepted and nance statistics
Data Analysis:	Group Laboratory Trimmed Mean (GLTM) with truncation at 2SD, SD, and CV%. Reports also show method and manufacturer specific statistics. Individual laboratory performance is expressed in terms of MRBIS, SDBIS, and MRVIS. The Designated Value (DV) for calculation of VI is the Method Laboratory Trimmed Mean (MLTM) Chosen Coefficient of Variation for quantitative results is 20%		
Performance Scoring:	MI scoring and MRVIS		
Criteria of Performance:	Laboratory performance for the qualitative element of the Scheme is assessed over a running analytical window of 12 Distributions (12 months)		
	Good Adequate Poor Individual laboratory performance	OMIS = 0 OMIS = 1 -2 OMIS = >2 over a running and	lytical window of 12
	Distributions (12 months) quantitation is expressed in terms of MRBIS, SDBIS and MRVIS		
	ldeal Good Adequate Poor	MRVIS	<50 50 – 100 101 – 200 >200 or SDBIS >200
Persistent Poor Performance:	Defined as being in the Poor Perfor successive distributions	mance category fo	or two or more

Pilot UK NEQAS for N-methyl-D-aspartate receptor (NMDAR) antibodies

Accreditation Status:	currently not accredited to ISO 17043	
Date Scheme started:	2023	
Clinical Applicability:	Autoimmune encephalitis with no known common infectious cause	
Analytes:	NMDAR	
Units for Reporting:	Qualitative: Positive / Negative	
Samples Distributed:	Liquid format. Normal and pathological human serum	
Number of Distributions per year:	6	
Number of Samples per Distribution:	2	
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule	
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics	
Data Analysis:	Qualitative responses are assessed by MI scoring in relation to the designated response	
Performance Scoring:	MI scoring	
Criteria of Performance:	Laboratory performance is classified in terms of OMIS over a running analytical window of 6 distributions (12 months)	
	The categories of performance are:Total MISGoodzeroAdequate1 - 2Poor>2	
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive Distributions.	

PROGRAMMES FOR ALLERGY AND IMMUNODEFICIENCY

Antibody to Fungal & Related Antigens

Accreditation Status:	UKAS Schedule of Accreditation
Date Scheme started:	1991
Clinical Applicability:	Diagnosis and monitoring of Extrinsic Allergic Alveolitis and Type III hypersensitivity diseases including Aspergillus and Candida infections, Bird Fancier's and Farmer's Lung
Analytes:	Aspergillus fumigatus, Candida albicans, Pigeon Serum, Pigeon Feathers, Pigeon Droppings, Pigeon Mix, Budgerigar Serum, Budgerigar Feathers, Budgerigar Droppings, Budgerigar Mix and Micropolyspora faeni The sample analytes included will depend on their prevalence in the general population, therefore not all analytes may be covered during the year
Units for Reporting:	Qualitative and quantitative responses
Samples Distributed:	Liquid format. Normal and pathological human serum
Number of Distributions per year:	6
Number of Samples per Distribution:	2
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics
Data Analysis:	Qualitative results are assessed by Misclassification Index Scoring in relation to a Designated Response
Performance Scoring:	MI scoring
Criteria of Performance:	Laboratory performance is classified in terms of OMIS derived from the qualitative responses for all analytes for which the laboratory is registered during a running analytical window of 6 Distributions (12 months)
	The categories of performance are: Total MIS Good zero Adequate 1 - 2 Poor >2 An OMIS of 2 or more for any one analyte will be classed as poor performance
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive Distributions

IgG Subclasses

Accreditation Status:	UKAS Schedule of Accreditation	
Date Scheme started:	1991	
Clinical Applicability:	Diagnosis of antibody deficiency states and IgG4 Related Disease	
Analytes:	Total IgG, IgG1, IgG2, IgG3 and IgG4	
Units for Reporting:	g/L	
Samples Distributed:	Liquid format. Normal and pathological human serum	
Number of Distributions per year:	6	
Number of Samples per Distribution:	2	
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule	
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics	
Data Analysis:	All Laboratory Trimmed Mean (ALTM) with truncation at 2SD, SD and CV%. Reports also show method specific statistics. Individual laboratory performance is expressed in terms of MRBIS, SDBIS, and MRVIS. The Designated Value (DV) for the calculation of VI is the Group Laboratory Trimmed Mean (GLTM)	
	Chosen Coefficient of Variation is specific for each subclass; current values are	
	lgG1 6% lgG2 6% lgG3 6% lgG4 6%	
Performance Scoring:	MRVIS	
Criteria of Performance:	Laboratory performance is assessed in relation to each subclass over a running analytical window of 6 Distributions (12 months)	
	IdealMRVIS<50	
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive Distribution	

Specific Microbial Antibodies

Accreditation Status:	UKAS Schedule of Accreditation	
Date Scheme started:	1998	
Clinical Applicability:	Diagnosis and management of antibody deficiency syndromes	
Analytes:	Haemophilus Influenzae (HiB), Pneumococcus, Tetanus and Pneumococcal Serotype Specific antibodies. Each analyte is available separately	
Units for Reporting:	Tetanus IU/mL HiB mg/L Pneumococcal mg/L Serotypes μg/mL	
Samples Distributed:	Liquid format. Normal and pathological human serum	
Number of Distributions per year:	6	
Number of Samples per Distribution:	6 (2 x Tetanus, 2 x HiB, 2 x Pneumococcal)	
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule	
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 28 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics	
Data Analysis:	All Laboratory Trimmed Mean (ALTM) for Tetanus, Pneumococcal and <i>H. influenza</i> antibodies with truncation at 2SD, SD and CV%. Reports show method specific statistics. Individual laboratory performance is expressed in terms of MRBIS, SDBIS and MRVIS	
	Chosen Coefficient of Variation is specific for each analyte:	
	Tetanus antibody20%H. influenzae type B antibody20%Pneumococcal antibody20%	
Performance Scoring:	MRVIS	
Criteria of Performance:	Laboratory performance is assessed in relation to each antibody over a running analytical window of 6 Distributions (12 months)	
	IdealMRVIS<50	
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive Distributions	

Total IgE

Accreditation Status:	UKAS Schedule of Accreditation			
Date Scheme started:	1979			
Clinical Applicability:	Diagnosis and manageme	nt of allergic diseas	se	
Analytes:	Total IgE			
Units for Reporting:	kU/L			
Samples Distributed:	Liquid format. Normal an	d pathological hum	nan serum	
Number of Distributions per year:	6			
Number of Samples per Distribution:	2			
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule			
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics			
Data Analysis:	All Laboratory Trimmed Mean (ALTM) with truncation at 2SD, SD and CV%. Reports show method specific statistics. Individual laboratory performance is expressed in terms of MRBIS, SDBIS and MRVIS			
	Chosen Coefficient of Variation for Total IgE is 8%			
Performance Scoring:	MRVIS			
Criteria of Performance:	Laboratory performance is assessed over a running analytical window of 6 Distributions (12 months)			
	Ideal Good Adequate Poor	MRVIS	<50 50 - 100 101 - 200 >200 or SDBIS >200	
Persistent Poor Performance:	Defined as being in the Po successive Distributions	oor Performance ca	tegory for two or more	

Allergen Specific IgE

Accreditation Status:	UKAS Schedule o	of Accreditation
Date Scheme started:	1988	
Clinical Applicability:	Diagnosis and ma	anagement of allergic disease
Analytes:	The programme includes the assessment of common or clinically important, individual IgE specificities, for example:	
	D1 I	Dermatophagoides pteronyssinus E1 Cat epithelium
	E5 I	Dog dander
	F1 I	Egg white
	F2 (2eanut
	F17 I	Hazel nut
	G6 -	Fimothy grass
	l1 l	Bee venom
	13	Wasp venom
	K82 I	atex
	M3 /	Aspergillus tumigatus M6
	Alternaria T2	a alternata Birch
	W6 I	Mugwort
	Other allergen sp validated donor s	pecificities may be included, subject to the availability of clinically serum units
Units for Reporting:	Grade and kU/L (arbitrary)
Samples Distributed:	Liquid format.	Normal and pathological human
Number of Distributions per year:	6	
Number of Samples per Distribution:	2	
Frequency of Distributions:	Every two month specific IgE tests	as as outlined in the Distribution Schedule. Four allergen will be analysed on each specimen
Schedule of Analysis:	Data entry is via is commenced 22 contribute to the	the web for the submission of results. Data analysis 1 days after sample dispatch. Late returns are accepted and will e laboratory's cumulative performance statistics
Data Analysis:	Analysis by grade shows the overall response and the method specific responses. Analysis of the quantitative responses in Units shows the All Laboratory Trimmed Mean (ALTM) with truncation at 2SD, SD and CV%. Reports show method specific statistics. Individual laboratory performance is expressed in terms of MRBIS, SDBIS and MRVIS, the DV for calculation of VI being taken from the MLTM	
	Chosen Coefficie	nt of Variation for Allergen Specific IgE is 12%
Performance Scoring:	Cumulative perfo with MRVIS scori	ormance scores are based on the quantitative response ng over a running window of twelve samples or twelve months
Criteria of Performance:	Performance ass assessed for each containing that a	essment is allergen specific. Quantitative performance is n allergen, and is over a running period of 6 distributions Ilergen (12 months)

Ideal	MRVIS	<50
Good		50 - 100
Adequate		101 - 200
Poor		>200 or SDBIS >200

The overall quantitative performance is expressed as the OMRVIS, the mean of all the individual allergen specific MRVIS

The semiquantitative Grades are assessed by MI scoring in relation to the Consensus Designated Response (CONDR). (For this purpose, Grades 2-6 are considered as CLEAR POSITIVE)

Good	OMIS	Zero
Adequate		1 - 3
Poor		>4

Overall MIS (OMIS) greater than 4 will also be considered as poor performance

Persistent Poor Performance:

Defined as being in the Poor Performance category for two or more successive distributions

Allergen Component Testing

Accreditation Status:	UKAS Schedule of Accreditation
Date Scheme started:	2016
Clinical Application:	Diagnosis and management of allergic disease
Purpose of the programme:	Allergy and Immunodeficiency EQA scheme
Analytes:	The programme consists of two elements, Recombinant Allergens and Phadia ImmunoCAP ISAC 112, and includes the assessment of common or clinically important individual recombinant IgE specificities from the following allergen groups: Venom, Egg, Nuts, Latex, Birch, and Milk. Other allergen specificities may be included, subject to the availability of clinically validated donor serum units. The ISAC element of the scheme covers all allergens currently available for this method. Please contact UK NEQAS IIA for a concise list of allergens if required. <i>The sample analytes included will depend on their prevalence in the general</i> <i>population, therefore not all analytes may be covered during the year</i>
Units for Reporting:	Recombinant Allergens: Grade and kU/L (arbitrary) Phadia ISAC 112: ISU-E (ISAC standardized units)
Samples Distributed:	Liquid format. Normal and pathological human serum
Number of Distributions per Year:	6
Number of Samples per Distribution:	2 (only 1 to be tested on ISAC)
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule . A maximum of nine recombinant allergen specific IgE tests will be analysed on each specimen for the Recombinant Allergen element of the scheme. All 112 allergens currently available for the ISAC method are to be analysed for the ISAC element (only relevant to the first specimen).
Schedule of Analysis:	Data entry is via the web for the submission of results. ISAC results are submitted via the web in csv file format. Data analysis is commenced 21 days after sample dispatch. Late returns are only accepted for the Recombinant Allergen element of the scheme and will contribute to the laboratory's cumulative performance statistics. No late results for the ISAC element will be accepted.
Data Analysis:	Recombinant Allergens: Analysis by grade shows the overall response and the method specific responses.
	ISAC: Analysis by units shows the overall response and the method specific responses.
	Analysis of the quantitative responses for both elements in Units shows the All Laboratory Trimmed Mean (ALTM) with truncation at 2SD, SD and CV%. Reports show method specific statistics. Individual laboratory performance is expressed in terms of MRBIS, SDBIS and MRVIS, the DV for calculation of VI being taken from the ALTM.
	Chosen Coefficient of Variation for Recombinant Allergen Specific Components (IgE) is 15%
Performance Scoring:	Cumulative performance scores are based on the quantitative response with MRVIS scoring over a running window of twelve samples or twelve months
Criteria of Performance:	Performance assessment is allergen specific. Quantitative performance is

assessed for each allergen, and is over a running period of 6 distributions containing that allergen (12 months)

The overall quantitative performance is expressed as the OMRVIS, the mean of all the individual allergen specific MRVIS

The semiquantitative Grades are assessed by MI scoring in relation to the Consensus Designated Response (CONDR). (For this purpose, Grades 2-6 are considered as CLEAR POSITIVE)

Overall MIS (OMIS) greater than 3 will also be considered as poor performance

Persistent Poor Performance: Defined as being in the Poor Performance category for two or more successive distributions

Tryptase

Accreditation Status:	UKAS Schedule of Accreditation			
Date Scheme started:	2010			
Clinical Applicability:	The serum tryptase concentration reflects both the clinical severity of the allergic reaction and the reaction mechanisms. Serum tryptase can also be utilised for determining suspected mastocytosis and suspected acute allergic reactions			
Analytes:	Tryptase			
Units for Reporting:	Quantitative responses (µ	g/L)		
Samples Distributed:	Liquid format. Normal and	d pathological hum	nan serum	
Number of Distributions per year:	6			
Number of Samples per Distribution:	2			
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule			
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics			
Data Analysis:	All Laboratory Trimmed Mean (ALTM) with truncation at 2SD, SD and CV%. Reports show method specific statistics. Individual laboratory performance is expressed in terms of MRBIS, SDBIS and MRVIS			
	Chosen Coefficient of Vari	ation for Tryptase	is 8%	
Performance Scoring:	MRVIS			
Criteria of Performance:	Laboratory performance is classified in terms of the MRVIS over a running analytical window of 6 Distributions (12 months)			
	Ideal Good Adequate Poor	MRVIS	<50 50-100 101-200 >200 or SDBIS >200	
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive Distributions			

PROGRAMMES FOR

IMMUNOCHEMISTRY

Alkaline Phosphatase (ALP) Isoenzymes

Accreditation Status:	UKAS Schedule of Accreditation			
Date Scheme started:	2019			
Clinical Applicability:	Identification of the alkaline phosphatase (ALP) isoenzyme type, to determine the tissue source of the elevated ALP in serum.			
Analytes:	ALP Isoenzymes including liver, bone, intestinal and placental isoenzymes.			
Units for Reporting:	Qualitative and quantitative responses for the predominant and secondary ALP isoenzyme, together with interpretation of results using coded comments.			
Samples Distributed:	Liquid format. Normal and pathological human serum			
Number of Distributions per year:	6			
Number of Samples per Distribution:	2			
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule			
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 28 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics			
Data Analysis:	Qualitative responses are recorded for each analyte and assessed in relation to the designated response			
Performance Scoring:	MI scoring			
Criteria of Performance:	Laboratory performance is classified in terms of OMIS over a running analytical window of 6 distributions (12 months)			
	The categories of performance are: <u>Total MIS</u> Good zero Adequate 1 - 3 Poor >3			
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive Distributions.			

<u>**B2 Microglobulin**</u>

Accreditation Status:	UKAS Schedule of Accreditation			
Date Scheme started:	1987			
Clinical Applicability:	Diagnosis and monitoring of B-cell malignancies			
Analytes:	β2 Microglobulin			
Units for Reporting:	mg/L			
Samples Distributed:	Liquid format. Normal and pathologic	cal human serum	1	
Number of Distributions per year:	6			
Number of Samples per Distribution:	2			
Frequency of Distributions:	Every two months as outlined in the D	Distribution Sche	dule	
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics			
Data Analysis:	All Laboratory Trimmed Mean (ALTM) with truncation at 2SD, SD, and CV%. Reports also show method specific statistics. Individual laboratory performance is expressed in terms of MRBIS, SDBIS, and MRVIS.			
	Chosen Coefficient of Variation for $\beta 2$ Microglobulin is 7%			
Performance Scoring:	MRVIS			
Criteria of Performance:	Laboratory performance is classified in terms of the MRVIS over a running analytical window of 6 Distributions (12 months)			
	Ideal M Good Adequate Poor	IRVIS	<50 50 - 100 101 - 200 >200 or SDBIS >200	
Persistent Poor Performance:	Defined as being in the Poor Performa successive Distributions	ance category fo	r two or more	

<u>C1 Esterase Inhibitor and Functional Complement Assays</u>

Accreditation Status:	UKAS Schedule of Accreditation
Date Scheme started:	2002
Clinical Applicability:	Diagnosis of Hereditary Angioedema and monitoring of complement activation
Analytes:	Performance will be monitored in the antigenic and functional assays for C1 Esterase Inhibitor. Laboratories are required to return data on Complement C3 and C4 to permit the interpretation of the C1 Esterase Inhibitor levels
Units for Reporting:	g/L in relation to relevant international standards, functional activity (%)
Samples Distributed:	Liquid format. Normal and pathological human serum
	Additional materials may be produced by the addition of purified C1 Esterase Inhibitor, C3 or C4 to an analyte free serum matrix
Number of Distributions per year:	4
Number of Samples per Distribution:	2
Frequency of Distributions:	Every three months as outlined in the Distribution Schedule
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 28 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics
Data Analysis:	All Laboratory Trimmed Mean (ALTM) with truncation at 2SD, SD, and CV%. Reports also show method and manufacturer specific statistics. Individual laboratory performance is expressed in terms of MRBIS, SDBIS, and MRVIS. The Designated Value (DV) for calculation of VI is the All Laboratory Trimmed Mean (ALTM)
	Chosen Coefficient of Variation is 10%
Performance Scoring:	MI scoring and MRVIS

Criteria of Performance:

Laboratory performance for the qualitative element of the Scheme is assessed over a running analytical window of 4 Distributions (12 months)

Good	OMIS = 0
Adequate	OMIS = 1 -2
Poor	OMIS = >2

Individual laboratory performance over a running analytical window of 4 Distributions (12 months) quantitation is expressed in terms of MRBIS, SDBIS and MRVIS

Ideal	MRVIS	<50
Good		50 - 100
Adequate		101 - 200
Poor		>200 or SDBIS >200

Persistent Poor Performance:

Defined as being in the Poor Performance category for two or more successive distributions

C-Reactive Protein (CRP) & Procalcitonin (PCT)

Accreditation Status:	UKAS Schedule of Accreditation			
Date Scheme started:	1982			
Clinical Applicability:	Monitoring of the acute phase response			
Analytes:	C-Reactive Protein Procalcitonin			
Units for Reporting:	mg/L CRP, ng/mL PCT			
Samples Distributed:	Liquid format. Normal and pathologic	cal human serun	n	
	Additional materials may be produced addition of purified CRP to an analyted	d for specific rec e-free serum ma	overy experiments by the trix	
Number of Distributions per year:	12			
Number of Samples per Distribution:	2			
Frequency of Distributions:	Every month as outlined in the Distribution Schedule			
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 14 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics			
Data Analysis:	All Laboratory Trimmed Mean (ALTM) with truncation at 2SD, SD, and CV%. Reports also show method specific statistics. Individual laboratory performance is expressed in terms of MRBIS, SDBIS, and MRVIS			
	Chosen Coefficient of Variation for C- Chosen Coefficient of Variation for Pr	Reactive proteir ocalcitonin is 20	n is 8% 1%	
Performance Scoring:	MRVIS			
Criteria of Performance:	Laboratory performance is classified in terms of the MRVIS over a running analytical window of 12 Distributions (12 months)			
	Ideal M Good Adequate Poor	/IRVIS	<50 50 - 100 101 - 200 >200 or SDBIS >200	
reisistent roor reriormance:	successive Distributions	ance category fo	or two of more	

Pilot Point of Care C-Reactive Protein (CRP) Testing

Accreditation Status:	currently not accredited to ISO 17043:2010			
Date Scheme started:	2017			
Clinical Applicability:	Monitoring of the acute phase response			
Analytes:	C-Reactive Protein			
Units for Reporting:	mg/L			
Samples Distributed:	Liquid format. Normal and pathological	human serum		
	Additional materials may be produced for specific recovery experiments by the addition of purified CRP to an analyte-free serum matrix			
Number of Distributions per year:	4			
Number of Samples per Distribution:	2			
Frequency of Distributions:	Currently seasonal as outlined in the Distribution Schedule			
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 14 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics			
Data Analysis:	All Laboratory Trimmed Mean (ALTM) with truncation at 2SD, 3SD, and CV%. Reports also show method specific statistics. Individual laboratory performance is expressed in terms of MRBIS, SDBIS, and MRVIS Chosen Coefficient of Variation for C-Reactive protein is 8%			
Performance Scoring:	MRVIS			
Criteria of Performance:	Laboratory performance is classified in terms of the MRVIS over a running analytical window of 4 Distributions (12 months)			
	Ideal MR Good Adequate Poor	VIS	<50 50 - 100 101 - 200 >200 or SDBIS >200	
Persistent Poor Performance:	Defined as being in the Poor Performan successive Distributions	ce category for	r two or more	

Ultrasensitive C-Reactive Protein (uCRP)

Accreditation Status:	UKAS Schedule of Accreditation			
Date Scheme started:	1999			
Clinical Applicability:	Monitoring of the acute phase response in neonates. Prognostic indicator of cardiovascular disease and risk assessment for coronary artery disease			
Analytes:	Ultrasensitive C-Reactive Protein			
Units for Reporting:	mg/L			
Samples Distributed:	Liquid format. Normal and pathological hu	man serum		
	Additional materials may be produced for s addition of purified CRP to an analyte-free s	pecific recovery experiments by the serum matrix		
Number of Distributions per year:	12			
Number of Samples per Distribution:	2			
Frequency of Distributions:	Every month as outlined in the Distribution Schedule			
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 14 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics			
Data Analysis:	All Laboratory Trimmed Mean (ALTM) with truncation at 2SD, SD, and CV%. Reports also show method specific statistics. Individual laboratory performance is expressed in terms of MRBIS, SDBIS, and MRVIS			
	Chosen Coefficient of Variation for Ultraser	nsitive C-Reactive Protein is 8%		
Performance Scoring:	MRVIS			
Criteria of Performance:	Laboratory performance is classified in terms of the MRVIS over a running analytical window of 12 Distributions (12 months)			
	Ideal MRVIS	<50		
	Good	50 - 100		
	Adequate	101 - 200		
	Poor	>200 or SDBIS >200		
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive Distributions			

CSF IgG Oligoclonal Bands

Accreditation Status:	UKAS Schedule of Accreditation		
Date Scheme started:	1996		
Clinical Applicability:	Diagnosis of multiple sclerosis		
Analytes:	CSF IgG Oligoclonal Bands		
Units for Reporting:	Presence or absence of IgG oligoclonal banding in the CSF sample and the pattern type		
Samples Distributed:	Liquid format. Normal and pathological human cerebrospinal fluid, with a paired serum sample		
	The concentration of IgG in the CSF and serum sample will be predetermined and this information will be included with the distribution to allow the appropriate dilution of the samples		
Number of Distributions per year:	6		
Number of Samples per Distribution:	2 (1 x CSF and 1 x serum pair)		
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule		
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics		
Data Analysis:	Qualitative responses and pattern type are assessed by MI scoring in relation to the designated response		
Performance Scoring:	MI scoring		
Criteria of Performance:	Laboratory performance is assessed over a running analytical window of 6 Distributions (12 months)		
	The categories of performance are: Total MIS Good zero Adequate 1-2 Poor >2		
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive Distributions		

Cerebrospinal Fluid Haem Pigments

Accreditation St	creditation Status: UKAS Schedule of Accreditation					
Date Scheme started:			2000			
Clinical Applicability:			Diagnosis of subarachnoid haemorrhage			
Analytes:			The programme surveys performance in assays for the identification of haem pigments and the quantitation of bilirubin and oxyhaemoglobin			
Units for Reporting:			Presence or absence of haem pigments and their identification. Quantitation of CSF bilirubin and oxyhaemoglobin absorbance. Interpretation of results using coded comments			
Samples Distributed:			Liquid format. Normal or pathological CSF will be distributed whenever sufficient volumes can be obtained. The majority of samples will, however, be of an artificial matrix developed for use in the programme			
Number of Distributions per year:			6			
Number of Samples per Distribution:			2			
Frequency of Distributions:			Every two months as outlined in the Distribution Schedule			
Schedule of Analysis:			Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics			
Data Analysis:			Qualitative responses designated response. ⁻ calculation of VI is the	are assessed by MI scoring The Designated Value (DV) All Laboratory Trimmed M	; in relation to the for NOA and NBA for lean (ALTM)	
Performance Sco	oring:		MI scoring			
Criteria of Performance:			Laboratory performance is assessed over a running analytical window of 6 Distributions (12 months)			
		OMIS N Absorb	et Oxyhaemoglobin ance	OMIS Net Bilirubin Absorbance	Interpretation	
	Good	Zero		Zero	Zero	
	Adequate	1-2		1-2	1-4	
	Poor	> 2		> 2	> 4	
Persistent Poor	Performance:		Defined as being in the	e Poor Performance catego	ory for two or more	

successive Distributions

Samples should be tested as soon as possible upon receipt

National Guidelines for CSF analysis in suspected subarachnoid haemorrhage are available in the hyperlinks below:

National Guidelines for CSF analysis in suspected SAH

Revision of National Guidelines for CSF analysis in suspected SAH

Cerebrospinal Fluid Proteins and Biochemistry

Accreditation Status:	UKAS Schedule of Accreditation			
Date Scheme started:	2000			
Clinical Applicability:	Assessment of neurological disease			
Analytes:	CSF Total protein, albumin	n, IgG, glucose and	lactate	
Units for Reporting:	Total protein g/L, Albumir relation to the relevant In	n and IgG mg/L, Glu ternational Standa	icose and Lactate m rds	imol/L in
Samples Distributed:	Liquid format. Normal or pathological CSF will be distributed whenever sufficient volumes can be obtained. The majority of samples will, however, be of an artificial matrix developed for use in the programme			
Number of Distributions per year:	6			
Number of Samples per Distribution:	2			
Frequency of Distributions:	Every two months as outl	ined in the <mark>Distribu</mark>	ition Schedule	
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics			
Data Analysis:	All Laboratory Trimmed Mean (ALTM) with truncation at 2SD, SD, and CV%. Reports also show method and manufacturer specific statistics			
	Chosen Coefficient of Variation: Total protein 8% Albumin 9% IgG 6.5% Lactate 6% Glucose 4%			
Performance Scoring:	MRVIS			
Criteria of Performance:	Laboratory performance for the quantitative biochemistry element is classified in terms of the MRVIS over a running analytical window of 6 Distributions (12 months)			
	Ideal Good Adequate Poor	MRVIS	<50 50 - 100 101 - 200 >200 or SDBIS >200)
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive Distributions			

Alpha 1 Antitrypsin Phenotype Identification

Accreditation Status:	UKAS Schedule of Accreditation	
Date Scheme started:	2007	
Clinical Applicability:	The quantitation of AAT is indicated in the evaluation of chronic obstructive airway disease (COPD), emphysema and in neonatal and adult liver disease where low concentrations may have diagnostic importance	
	AAT genetic status (PI phenotyping) should be performed in all cases of deficiency when the quantitative assay gives results below the age related median concentration. The PI phenotyping should be determined in all children with liver disease irrespective of AAT concentration	
Analytes:	Alpha 1 Antitrypsin, PI Phenotyping The sample analytes included will depend on their prevalence in the general population, therefore not all analytes may be covered during the year	
Units for Reporting:	g/L	
Samples Distributed:	Liquid format. Normal and pathological human serum	
Number of Distributions per year:	4	
Number of Samples per Distribution:	2	
Frequency of Distributions:	Every three months as outlined in the Distribution Schedule Schedule of	
Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 28 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics	
Data Analysis:	Phenotype Identification responses are assessed by MI scoring in relation to the designated response	
Performance Scoring:	MI scoring	
Criteria of Performance:	Laboratory performance is assessed over a running analytical window of 4 Distributions (12 months)	
	The categories of performance for Phenotype Identification are: <u>Total MIS</u> Good Zero Adequate 1-3 Poor >3	
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive Distributions	

CSF β2 Transferrin and β Trace Protein

Accreditation Status:	UKAS Schedule of Accreditation	
Date Scheme started:	2011	
Clinical Applicability:	The diagnosis of cerebrospinal fluid (CSF) rhinorrhea or otorrhea (leakage of CSF into the nose or ear canal, usually as a result of head trauma, tumour, congenital malformation, or surgery) is often difficult to confirm. CSF B2 Transferrin testing is used to determine the presence or absence of CSF (in serum) in such cases. Beta 2 Transferrin is only found in CSF, ocular fluids and perilymph, therefore it can be used as a marker to determine the presence of CSF in various secretions (typically from the nose and ear)	
Analytes:	CSF β2 Transferrin, β Trace Protein	
Units for Reporting:	Qualitative: Positive /Negative Quantitative: mg/L	
Samples Distributed:	Normal and pathological human serum. Serum based or CSF samples	
Number of Distributions per year:	6	
Number of Samples per Distribution:	2	
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule	
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 28 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics	
Data Analysis:	Qualitative responses are assessed by MI scoring in relation to the designated response	
Performance Scoring:	MI scoring	
Criteria of Performance:	Laboratory performance is assessed over a running analytical window of 6 Distributions (12 months)	
	The categories of performance are: <u>Total MIS</u> Good zero Adequate 1 Poor >1	
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive Distributions	

Interleukin-6 (IL6)

Accreditation Status:	UKAS Schedule of Accreditation			
Date Scheme started:	2020	2020		
Clinical Applicability:	Monitoring of inflam	Monitoring of inflammatory responses		
Analytes:	Interleukin-6	Interleukin-6		
Units for Reporting:	pg/mL	pg/mL		
Samples Distributed:	Liquid format. Norma	Liquid format. Normal and pathological human serum		
Number of Distributions per year:	6	6		
Number of Samples per Distribution:	2			
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule			
Schedule of Analysis:	Data entry is via the v commenced 21 days contribute to the labo	web for the submiss after sample dispate pratory's cumulative	ion of results. Data analysis is ch. Late returns are accepted and will performance statistics	
Data Analysis:	All Laboratory Trimmed Mean (ALTM) with truncation at 2SD, SD, and CV%. Reports also show method specific statistics. Individual laboratory performance is expressed in terms of MRBIS, SDBIS, and MRVIS			
	Chosen Coefficient of	Variation is 22%		
Performance Scoring:	MRVIS			
Criteria of Performance:	Laboratory performance is classified in terms of the MRVIS over a running analytical window of 6 Distributions (12 months)			
Persistent Poor Performance:	Ideal Good Adequate Poor Defined as being in th	MRVIS	<50 50 - 100 101 - 200 >200 or SDBIS >200	
rensistent room enormance.	successive Distributio	ins		

PROGRAMMES

FOR ONCOLOGY

Monoclonal Protein Identification

Accreditation Status:	UKAS Schedule of Accredit	ation	
Date Scheme started:	1993		
Clinical Applicability:	Diagnosis of monoclonal ga	mmopathy in serum	and urine
Analytes:	Total serum protein, Album Lambda and ratio), urine to identification and Quantita	iin, IgG, IgA, IgM, frea tal protein & Monoc tion	e light chains (Kappa, Ional Component
Units for Reporting:	Isotype of heavy and light c monoclonal protein in g/L.	hain together with th Serum free light cha	ne concentration of ins in mg/L
Samples Distributed:	Liquid format. Normal and	pathological human	serum and urine
	Each distribution will conta should be considered as sep It should NOT BE ASSUME	in a serum sample ar parate requests for ir D that they emanate	nd a urine sample, they nvestigation. from the same patient
Number of Distributions per year:	6		
Number of Samples per Distribution:	2 (1 urine and 1 serum)		
Frequency of Distributions:	Every two months as outlined in the Distribution Schedule		
Schedule of Analysis:	Data entry is via the web for is commenced 21 days afte contribute to the laborator	or the submission of r r sample dispatch. L y's cumulative perfor	results. Data analysis ate returns are accepted and wil rmance statistics
Data Analysis:	Whilst the programme will analyse participant's isotype identification as monoclone quantitation, the returns will require data on total serum pr albumin, IgG, IgA, IgM (and urine total protein). This latter information be formally analysed as it is covered in other EQA programmes but will be of value in the recognition of analytical or isotype identification problems		i isotype identification and e data on total serum protein, This latter information will not ognition of analytical or
	Chosen Coefficient of Varia Chosen Coefficient of Varia	tion: 29% for FLC tion: 14% for Monoc	clonal Component Quantitation
Performance Scoring:	MI Scoring - The qualitative elements of electrophoresis and isotype identification MRVIS - Assessment of the monoclone quantitation and free light chains		
Criteria of Performance:	The qualitative elements of electrophoresis and isotype identification are assessed by MI scoring over a running analytical window of 6 Distributions (12 months)		isotype identification tical window of 6
	Good Adequate	OMIS	Zero 1 - 2

Poor

>2

Poor Performance

For the monoclonal component and serum Free Light Chain quantitation, laboratory performance is assessed in relation to the MRVIS over a running analytical window of 6 Distributions.

MRVIS	<50
	50 - 100
	101 - 200
	>200 or SDBIS >200
	MRVIS

Persistent Poor Performance:

Defined as being in the Poor Performance category for two or more successive Distributions

Pilot Cryoprotein (image based)

Accreditation Status:	currently not accredited to ISO 17043	
Date Scheme started:	2017	
Clinical Applicability:	Diagnosis of cryoglobulinaemia	
Analytes:	A virtual case study containing sample images, clinical scenario, laboratory results and testing protocols. With the information and images provided each participant decides their own pathway according to their laboratory protocols. Includes identifying the presence and typing of a cryoprotein	
Units for Reporting:	N/A	
Samples Distributed:	1 virtual case study	
Number of Distributions per Year:	4	
Number of Samples per Distribution:	1 case study per distribution	
Frequency of Distributions:	Every 12 weeks as outlined in the Distribution Schedule	
Schedule of Analysis:	Access to the virtual case study is via the web and includes the submission of interpretations. Data analysis is commenced 21 days after release of case. Late returns cannot be accepted.	
Data Analysis:	Qualitative responses are assessed in terms of MI scoring for each scoring element in relation to the Designated Response.	
Performance Scoring:	MI scoring	
Criteria of Performance:	 Laboratory performance is classified in terms of OMIS derived from the qualitative responses for: Further analysis of sample required Immunofixation Gel Presence of a Cryoprotein Cryoprotein type over a running analytical window of 4 Distributions (12 months) 	
	The categories of performance are: Total MIS Good zero Adequate 1 - 2 Poor >2 An OMIS of 2 or more for any one analyte will be classed as poor performance	
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive Distributions	

Prostate Specific Antigen (PSA)

Accreditation Status:	UKAS Schedule of Accreditation	
Date Scheme started:	1990	
Clinical Applicability:	Diagnosis and management of prostate	carcinoma
Analytes:	Total PSA, Free PSA Each analyte is ava	ilable separately
Units for Reporting:	$\mu\text{g/L}$ (total and free PSA) in relation to the transformation of transformation of the transformation of transformation of the transformation of transformation	he WHO International Standard
Samples Distributed:	Liquid format. Normal and pathological	human serum.
Number of Distributions per year:	12	
Number of Samples per Distribution:	2	
Frequency of Distributions:	Every month as outlined in the Distribut	tion Schedule
Schedule of Analysis:	Data entry is via the web for the submis is commenced 14 days after sample disp will contribute to the laboratory's cumu	sion of results. Data analysis batch. Late returns are accepted and lative performance statistics
Data Analysis:	All Laboratory Trimmed Mean (ALTM) w Reports also show method specific stati: performance is expressed in terms of M	vith truncation at 2SD, SD, and CV%. stics. Individual laboratory RBIS, SDBIS, and MRVIS
	Chosen Coefficient of Variation for Pros Coefficient of Variation for Free Prostat	tate Specific Antigen is 6% Chosen e Specific Antigen is 6%
Performance Scoring:	MRVIS	
Criteria of Performance:	Laboratory performance for Total PSA and Free PSA is classified in terms of the MRVIS over a running analytical window of 12 Distributions (12 months)	
	Ideal MR' Good Adequate Poor	VIS <50 50 - 100 101 - 200 >200 or SDBIS >200
Persistent Poor Performance:	Defined as being in the Poor Performan	ce category for two or more

successive Distributions

Tumour Markers (CA Series)

Accreditation Status:	UKAS Schedule of Accreditation		
Date Scheme started:	1988		
Clinical Applicability:	Diagnosis and management of malignant disease		
Analytes:	CA125, CA15-3, CA19-9 and their notional equivalents, Neuron Specific Enolase (NSE) and Chromogranin A (pilot analyte). All analytes are available separately		
Units for Reporting:	kU/L (CA series markers), μg/L (NSE), ng/n	kU/L (CA series markers), $\mu g/L$ (NSE), ng/mL and <code>nmol/L</code> (Chromogranin A)	
Samples Distributed:	Liquid format. Normal and pathological h	Liquid format. Normal and pathological human serum	
Number of Distributions per year:	6		
Number of Samples per Distribution:	10 (2 x CA125, 2 x CA15-3, 2 x CA19-9, 2 x NSE, 2 x Chromogranin A)		
Frequency of Distributions:	Every two months as outlined in the Distri	ibution Schedule	
Schedule of Analysis:	Data entry is via the web for the submission of results. Data analysis is commenced 21 days after sample dispatch. Late returns are accepted and will contribute to the laboratory's cumulative performance statistics		
Data Analysis:	All Laboratory Trimmed Mean (ALTM) with truncation at 2SD, SD, and CV%. Reports also show method and manufacturer specific statistics. Individual laboratory performance is expressed in terms of MRBIS, SDBIS, and MRVIS. Because of marked differences in antigenic potency of some commercial kits, the Designated Value (DV) for calculation of VI is the Method Laboratory Trimmed Mean (MLTM).		
	Chosen Coefficient of Variation:		
	CA125 and Ovarian markers CA15-3 and Breast markers CA19-9 and GI markers NSE and Lung markers Chromogranin A (pilot analyte)	7% 10% 10% 12.5% 30.0%	
Performance Scoring: Criteria of Performance:	MRVIS Laboratory performance is classified in ter analytical window of 6 Distributions (12 m	rms of the MRVIS over a running nonths)	
	Ideal MRVIS Good Adequate Poor	<50 50 - 100 101 - 200 >200 or SDBIS >200	
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive Distributions		
Cancer Treatment Trials:	Participation in these EQA programmes is often a requirement for laboratories providing analytical services to clinicians wishing to enter patients. Such laboratories will be required to agree to the organiser releasing their performance data to the relevant Trials Office		

Ultrasensitive PSA (UPSA)

Accreditation Status	UKAS Schedule of Accreditation		
Date Scheme started:	2019		
Clinical Applicability:	A marker of recurrence for post radical pro	ostatectomy patients	
Analytes:	UPSA		
Units for Reporting:	$\mu\text{g/L}$ in relation to the WHO International	Standard	
Samples Distributed:	Liquid format. Normal and pathological h	Liquid format. Normal and pathological human serum	
Number of Distributions per year:	12		
Number of Samples per Distribution:	2		
Frequency of Distributions:	Every month as outlined in the Distributio	n Schedule	
Schedule of Analysis:	Data entry is via the web for the submission is commenced 14 days after sample dispar will contribute to the laboratory's cumulat	on of results. Data analysis tch. Late returns are accepted and tive performance statistics	
Data Analysis:	All Laboratory Trimmed Mean (ALTM) with truncation at 2SD, SD, and CV%. Reports also show method specific statistics. Individual laboratory performance is expressed in terms of MRBIS, SDBIS, and MRVIS		
	Chosen Coefficient of Variation for ultrase 12.5%	nsitive Prostate Specific Antigen is	
Performance Scoring:	MRVIS		
Criteria of Performance:	Laboratory performance for ultrasensitive MRVIS over a running analytical window c	PSA is classified in terms of the f12 Distributions (12 months)	
	Ideal MRVIS Good Adequate Poor	5 <50 50 - 100 101 - 200 >200 or SDBIS >200	
Persistent Poor Performance:	Defined as being in the Poor Performance successive Distributions	category for two or more	

DIGITAL PROGRAMMES

(Image Based)

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Digital ANA (dANA) - image based

Accreditation Status:	accreditation to ISO 17043 pending	
Date Scheme started:	2021	
Clinical Applicability:	Recognition of HEp-2 patterns seen in autoimmune disease in accordance with International Consensus on Antinuclear Antibody (ANA) Patterns (ICAP).	
Analytes:	A digital based image programme. Includes identifying the presence and identification of staining patterns in HEp-2 cell lines usings the ICAP system. Multiple digital users can be registered.	
Units for Reporting:	N/A	
Samples Distributed:	A set of 3 digital images (magnification 1x100, 1x200, 1x400) from healthy donors or patients with autoimmune connective tissue disease.	
Number of Distributions per Year: 4		
Number of Samples per Distribution:	2 digital samples per distribution	
Frequency of Distributions:	Every 12 weeks as outlined in the Distribution Schedule	
Schedule of Analysis:	Access to the digital images is via the web and includes the submission of interpretations. Data analysis is commenced 21 days after release of case. Late returns cannot be accepted.	
Data Analysis:	Qualitative responses are assessed in terms of MI scoring for each scoring element in relation to the Designated Response.	
Performance Scoring:	MI scoring	
Criteria of Performance:	Laboratory performance is classified in terms of OMIS derived from the qualitative responses for: HEp-2 Cell Staining Cell location of staining Description of Nuclear staining pattern (Level 1) Description of Nuclear staining pattern (Level 2) over a running analytical window of 4 Distributions (12 months) The categories of performance are: Total MIS Good Zero Adequate 1 - 2 Poor >2 An OMIS of 2 or more for any one analyte will be classed as poor performance	
Persistent Poor Performance:	Defined as being in the Poor Performance category for two or more successive	
	Distributions	

NEW PILOT PROGRAMMES

UK NEQAS

Sheffield Teaching Hospitals NHS

Ileray NHS Foundation Trust

Immunology, Immunochemistry & Allergy

Pilot EQA Scheme for

Immunoglobulin D (IgD)

Registration now open

An EQA programme that provides you with the confidence that the right result from the right test is produced at the right time

Why Choose UK NEQAS?

- Helpful & polite staff on hand to help with troubleshooting & training
- Frequent distributions of EQA samples to identify performance issues promptly
- Continuous education and support linked to clinical best practice
- Value for money Not for profit organisation



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UK NEQAS

Sheffield Teaching Hospitals NHS

NHS Foundation Trust

Immunology, Immunochemistry & Allergy

Pilot EQA Scheme for

Scleroderma associated Antibodies

(comprising ScI-70, CENP A, CENP B, RP 11, RP 155, Fibrillarin, NOR 90, Th/To, PM ScI 100, PM ScI 75, Ku, PDGFR, Ro 52 antibodies)

An EQA programme that provides you with the confidence that the right result from the right test is produced at the right time

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