

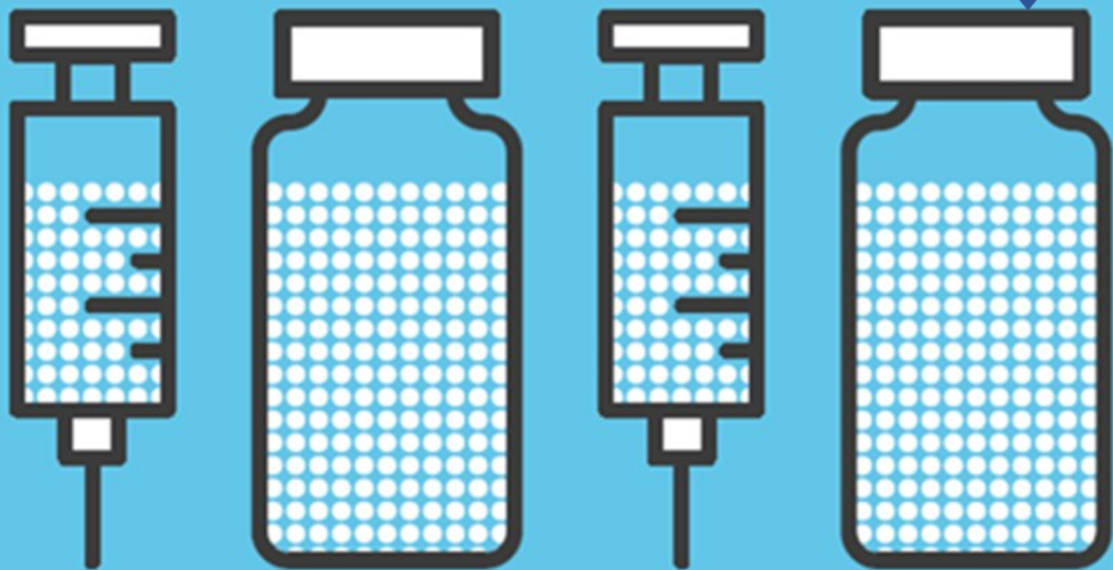
Services Available List  
2021-2022

**United Kingdom**

**National External**

**Quality Assessment Service**

COVID-19  
Programmes  
**INCLUDED**



# Who are UK NEQAS?

Our Mission:

**Improving global diagnostic testing for the benefit of patients through quality assessment and education**

For over 50 years members of UK National External Quality Assessment Service (UK NEQAS) have been the world leading providers of Clinical Laboratory External Quality Assessment (EQA)/Proficiency Testing (PT) programmes. At present UK NEQAS offers over 500 different EQA/PT programmes covering over 5000 unique analytes, ensuring full coverage of all aspects of clinical laboratory testing worldwide. These programmes support the delivery of accurate and precise clinical laboratory tests on patients regardless of where they are performed. Additionally, findings from UK NEQAS programmes support the identification of best practice amongst service users and are often used to produce national and international guidelines. This promotes the implementation of best practice procedures worldwide and benefits patient care on a global scale.

The EQA/PT services offered by UK NEQAS are continually developing in response to changes in clinical laboratory requirements, and innovation is an area in which UK NEQAS has always led. This has been highlighted recently with the COVID-19 pandemic, where the UK NEQAS consortium has developed several EQA/PT programmes. UK NEQAS rapidly deployed EQA/PT programmes with some achieving accreditations to ISO 17043:2021 in just 12 weeks from conceptual development. We now have a number of programmes which cover the detection and monitoring of COVID-19 along with several educational competency programmes for staff undertaking swabbing and sample handling. These programmes are listed in this brochure on a specific COVID-19 page for ease of identification.

Our EQA/PT services have always included assessment of the 'end-to-end' process of patient investigation, including interpretation of results, either in stand-alone programmes or integrated into standard exercises. These traditional EQA/PT services are enhanced by our Pre and Post Analytical Quality Monitoring service (known as PrepQ), in which we have established a true end-to-end system, allowing laboratories to monitor pre and post analytical issues to support the requirements of ISO 15189.

UK NEQAS EQA/PT services are provided by expert centres in 11 cities around the UK, with each covering a specific area of clinical laboratory EQA/PT. These centres form the UK NEQAS Consortium, a not-for-profit company limited by guarantee and a UK Registered Charity (no: 1044013). To ensure the provision of high quality and independent EQA/PT services every UK NEQAS member centre has no commercial interests, is staffed by a dedicated team of EQA/PT specialists, operates on a strict not-for-profit basis, is accredited to ISO 17043, and operates programmes specifically designed to improve patient care.

At UK NEQAS we are committed to the provision of EQA/PT services that support the continual improvement of healthcare services by

- providing education
- facilitating clinical audit
- monitoring clinical effectiveness
- assisting in the management of risk
- generating information used for research and development

By providing EQA/PT that fulfil these requirements, members of the UK NEQAS Consortium support laboratories in the accurate and precise delivery of their services ensuring patients receive the highest quality diagnostic testing wherever in the world they may be.

The worldwide partnerships between UK NEQAS and laboratories are ultimately for the benefit of patients and we are proud to support high quality healthcare through these relationships. We realise that there is always work required to develop EQA/PT systems, we are committed to undertake this process and always welcome feedback and suggestions on how we can improve our services.

Thank you for your continuing support of UK NEQAS.

A handwritten signature in black ink, appearing to read 'L. Whitley', written in a cursive style.

UK NEQAS President

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# Cellular Pathology

Cellular Pathology Technique
<b>Tel:</b> +44 (0) 191 816 1030
<b>Email:</b> cpt@ukneqas.org.uk
<b>Legal Entity:</b> LabXCell LTD
Services Available
Tissue Diagnostics
Specialist Techniques
Bone Marrow Trephine Biopsy (BMT)
Diagnostic Cytopathology
Direct Immunofluorescence (DIF)
Mohs' Procedure
Muscle Histochemistry
Neuropathology
Renal Biopsy Pathology
Transmission Electron Microscopy (TEM)
Frozen Section (Companion Scheme to Specialist Techniques and Neuropathology )
Mega Block (Companion Scheme to Specialist Techniques and Neuropathology)
Digital Interpretative Diagnostic Cytopathology
Digital Diagnostic Ultrastructural Pathology*
Digital Pathology Imaging*

Head and Neck Pathology
<b>Tel:</b> +44 (0) 121 371 5723
<b>Email:</b> neckpath@ukneqas.org.uk
<b>Legal Entity:</b> British Society for Oral & Maxillofacial
Services Available
Head and Neck Pathology (Oral, ENT & Combined)

Neuropathology
<b>Tel:</b> +44 (0) 1865 234 904
<b>Email:</b> neuropath@ukneqas.org.uk
<b>Legal Entity:</b> Oxford University Hospitals NHS Foundation Trust
Services Available
Neuropathology Interpretative EQA Scheme

Immunocytochemistry & In-Situ Hybridisation	
<b>Tel:</b> +44 (0) 208 187 9174	
<b>Email:</b> info@ukneqasiccish.org	
<b>Legal Entity:</b> External Quality Assessment Services for Cancer Diagnostics CIC	
Services Available	
<b>Immunocytochemistry</b>	Alimentary Tract Pathology (GIST)
	Breast Pathology (HER2 IHC)
	Breast Pathology (Hormonal Receptors ER & PR)
	Breast Pathology (Hormonal Receptors ER only)
	Cytopathology
	Gastric HER2 IHC
	General Pathology
	Lymphoid Pathology
	Mismatch Repair (MMR) Proteins
	Neuropathology
	Non-Small Cell Lung Cancer (NSCLC) ALK IHC
	Non-Small Cell Lung Cancer (NSCLC) PD-L1 IHC*
	Non-Small Cell Lung Cancer (NSCLC) ROS1 IHC*
Triple Negative Breast Cancer (TNBC) PD-L1 IHC*	
<b>In-Situ Hybridisation</b>	Breast HER2 ISH (Interpretive and Technical)
	Non-Small Cell Lung Cancer (NSCLC) ALK ISH*
	Non-Small Cell Lung Cancer (NSCLC) ROS1 FISH*

# Clinical Chemistry

## Birmingham Quality

**Tel:** +44 (0) 121 414 7300

**Email:** birminghamquality@uhb.nhs.uk

**Legal Entity:** University Hospitals Birmingham NHS Foundation Trust

### Services Available

Antibiotic Assays
Antifungal Assays
Clinical Chemistry
Colorectal Cancer Screening
Erythropoietin
Faecal Haemoglobin
Faecal Markers
Faecal Pancreatic Elastase
Fluids
Fructosamine
GFR Estimations (Creatinine, Cystatin C & eGFR)
Glycated Haemoglobins
Haematinics
Holotranscobalamin
Immunosuppressants
Interpretative Comments in Clinical Chemistry
Intrinsic Factor Antibodies
Lipid Investigations
Newborn Screening
Paediatric Bilirubin
Quantitative Amino Acids
Serum Indices (HIL)
Specific Proteins
Steroid Hormones
Sweat Testing
Thyroglobulin
Thyroid Hormones
Toxicology (TOX) and Therapeutic Drug Monitoring (TDM)
Urinary Catecholamines & Metabolites
Urine Chemistries
Urine Dipsticks
Vitamin Assays (Carotene, Vitamin A & E)
Vitamin D

## Cardiac Markers

**Tel:** +44 (0) 141 440 2888

**Email:** info@ukneqas-cm.org.uk

**Legal Entity:** NHS Greater Glasgow & Clyde

### Services Available

Cardiac Markers Schemes (Laboratory)
Cardiac Markers Schemes (Point of Care)
B-Type Natriuretic Peptide (BNP)
Cardiac Troponin I
Cardiac Troponin T
CKMB
Myoglobin
NT-proBNP

## Trace Elements

**Tel:** +44 (0) 1483 571 122 ext. 3611

**Email:** rsc-tr.Guildford-EQA@nhs.net

**Legal Entity:** Frimley Health NHS Foundation Trust

### Services Available

Lead, Cadmium, Manganese, Arsenic, Magnesium, Mercury, Zinc, Selenium, Thallium, Chromium and Cobalt in Blood
Mercury, Cadmium, Copper, Iron, Zinc, Chromium, Cobalt, Arsenic, Lead, Manganese, Nickel, Thallium and Selenium in Urine
Zinc, Copper, Aluminium, Selenium, Chromium and Cobalt in Serum
Aluminium in Water/Dialysis Fluid (Educational)
Copper and Iron in Solid Matrices e.g. Liver (Educational)

## Guildford Peptide Hormones

**Tel:** +44 (0) 1483 571 122 ext. 3611

**Email:** rsch.peptideeqa@nhs.net

**Legal Entity:** Frimley Health NHS Foundation Trust

### Services Available

C-Peptide
Gastrin
Insulin
Insulin-like Growth Factor 1
Insulin-like Growth Factor Binding Protein-3



# Clinical Chemistry

<b>Edinburgh Peptide Hormones</b>	
<b>Tel:</b> +44 (0) 131 242 6885	
<b>Email:</b> ukneqas@ed.ac.uk	
<b>Legal Entity:</b> NHS Lothian	
<b>Services Available</b>	
<b>Maternal Serum Screening</b>	1st Trimester (Down's syndrome and Trisomies T13 and T18)
	2nd Trimester (Down's syndrome)
	2nd Trimester (Neural tube defects)
	1st Trimester (Down's syndrome using dried blood spots)
<b>Pre-eclampsia Markers*</b>	Placental Growth Factor (PLGF)
	SFlt-1
	SFlt-1: PLGF ratio
<b>Peptide I</b>	FSH, LH, AMH, Prolactin and Growth Hormone
<b>Peptide II</b>	PTH, ACTH and Calcitonin
<b>Tumour Markers</b>	AFP, CEA and hCG
<b>Pregnancy Testing</b>	Urinary hCG (Qualitative and Quantitative)
<b>Liver Fibrosis Markers*</b>	Type III Procollagen Peptide (PIIINP)
	Hyaluronic acid
	Tissue inhibitor of metalloproteinase I (TIMP-I)
	Enhanced Liver Fibrosis (ELF) Score
	FIB-4 Score

# Haematology

Blood Coagulation	
Tel: +44 (0) 114 267 3300	
Email: neqas@coageqa.org.uk	
Legal Entity: Sheffield Teaching Hospitals NHS Foundation Trust	
Services Available	
Screening tests	Activated Partial Thromboplastin Time (APTT)
	D-Dimer
	Fibrinogen Evaluation (Clauss method)
	Heparin Assay (HA) - anti-Xa
	Heparin Dosage Assessment (HDA) by APTT
	Prothrombin Time (PT)/INR (Venous/Capillary methods)
	Prothrombin Time for Diagnosis (PT/Diagnostic) (PTD)
	Thrombin Time (TT)
	Factor II, V, VII VIII, IX, X, XI, XII Assays
Assays	Direct Oral Anticoagulant (DOAC) Assay*
	Von Willebrand Factor Antigen: Assay
	VWF:RCo (activity) Assay
	VWF:CB (collagen-binding) Assay
	Antithrombin Antigen and Activity Assays
	Protein C Antigen and Activity Assay
	Protein S Total and Free Antigen Assay

Blood Coagulation Continued	
Assays	Protein S Activity Assay
	Activated Protein C Resistance Assay
	Plasminogen Assay
Other programmes	DOAC assays
	FXIII assays
	Homocysteine assays
	Quantitative Factor VIII Inhibitor
	ADAMTS13 assays
	Lupus anticoagulant screening/assay
	FVIII treatment monitoring
	FIX treatment monitoring
	Emicizumab assays
	HIT screening/assays
	Molecular Genetics of Thrombophilia Testing (Factor V Leiden)
Genetics of Heritable Bleeding and Thrombotic disorders	
POCT	Activated Clotting Time (ACT)
	POCT D-dimer
	CoaguChek XS, CoaguChek XS Plus, CoaguChek XS Pro & Pro II (PT/INR)
	Thromboelastometry and Thromboelastography



# Haematology

<b>Blood Transfusion Laboratory Practice (BTLP)</b>	
<b>Tel:</b> +44 (0) 1923 217 933	
<b>Email:</b> btlp@ukneqas.org.uk	
<b>Legal Entity:</b> West Hertfordshire Hospitals NHS Trust	
<b>Services Available</b>	
<b>Pre-Transfusion Testing (PTT)</b>	ABO & D Grouping
	Antibody Screening
	Antibody Identification
	Crossmatching
	Rh and K Phenotyping
<b>Fetomaternal Haemorrhage (FMH)</b>	FMH Screening
	FMH Quantification
<b>ABO Titration (ABOT)</b>	ABO Titration
	A <sub>1</sub> typing
<b>Direct Antiglobulin Testing (DAT)</b>	Detection of cells coated with IgG
	Detection of cells coated with C3d
<b>Point of Care D typing (POCTD)</b>	RhD typing
<b>Pilot schemes</b>	Red Cell Genotyping (RCG)*
	Antenatal Antibody Titration (ANT)*
	Extended Red Cell Phenotyping (ERP)*
<b>Other services (supplementary to EQA)</b>	Training, Assessment and Competency Tool (TACT)

<b>Vitamin K</b>	
<b>Tel:</b> +44 (0) 207 188 6815	
<b>Email:</b> keqas@ukneqas.org.uk	
<b>Legal Entity:</b> Viapath Analytics	
<b>Services Available</b>	
Vitamin K1 at endogenous concentrations in human serum	
MK-4 at endogenous concentrations in human serum	
MK-7 at endogenous concentrations in human serum	
Vitamin K1, 2, 3-epoxide at endogenous concentrations in human serum	
PIVKA-II (undercarboxylated prothrombin) at endogenous concentrations in human serum	

<b>Haematology</b>	
<b>Tel:</b> +44 (0) 1923 217 878	
<b>Email:</b> haem@ukneqas.org.uk	
<b>Legal Entity:</b> West Hertfordshire Hospitals NHS Trust	
<b>Services Available</b>	
<b>Automated Counting &amp; Related</b>	Automated Differential Leucocyte Count
	ESR
	Full Blood Count (FBC)
	Haemoglobin only
	Plasma Viscosity
	Infectious Mononucleosis*
<b>Haemoglobinopathy</b>	Reticulocyte Count
	Abnormal Haemoglobins
	DNA Diagnostics for Haemoglobinopathies
	Liquid Newborn Haemoglobinopathy Screening
	Newborn Sickle Screening
	Sickle Screening only
<b>Morphology Related</b>	Blood Films for Morphology
	Blood Parasite Screening and Identification (Haematology)
	Cytochemistry: Haemosiderin staining
	Digital Blood Film Morphology for CPD
	Malaria Rapid Diagnostic Test (Haematology)
	Manual WBC Differential Count
<b>Red Cell Enzyme</b>	G6PD Screen and Assay

\*Pilot/Non Accredited

For accreditation status please refer to [www.ukas.com](http://www.ukas.com)

# Haematology

Leucocyte Immunophenotyping	
Tel: +44 (0) 114 267 3600	
Email: admin@uknegasli.co.uk	
Legal Entity: Sheffield Teaching Hospitals NHS Foundation Trust	
Services Available	
Flow Cytometry	CD34+ Stem Cell Enumeration
	Immune Monitoring
	Leukaemia Immunophenotyping (Part 1)
	Leukaemia Diagnostic Interpretation (Part 2)
	Low Level Leucocyte Enumeration
	Minimal Residual Disease for ALL by Flow Cytometry
	Minimal Residual Disease for AML by Flow Cytometry*
	Minimal Residual Disease for CLL by Flow Cytometry*
	Minimal Residual Disease for Plasma Cell Myeloma by Flow Cytometry*
	Haematological Malignancy Bone Marrow Aspirate Assessment*
	Cerebrospinal Fluid (CSF) Immunophenotyping*
	Paroxysmal Nocturnal Haemoglobinuria
Molecular	BCR-ABL1 and AML Translocation Identification
	BCR-ABL1 Kinase Domain Variant (Mutation) Status
	BCR-ABL1 Major Quantification

Leucocyte Immunophenotyping Continued	
Molecular	BCR-ABL1 Minor Quantification*
	BRAF p.Val600Glu (V600E) Mutation Status for Hairy Cell Leukaemia
	FLT3 Mutation Status
	IgH/TCR Clonality Status
	JAK2 p.Val617Phe (V617F) Mutation Status
	KIT p.Asp816Val (D816V) Mutation Status for Mast Cell Disease
	NPM1 Mutation Status
	Paediatric Acute Leukaemia Translocations
	Post-Stem Cell Transplant Chimerism Monitoring
	Acute Myeloid Leukaemia and Myelodysplastic Syndrome Gene Panels*
	Chronic Lymphocytic Leukaemia Gene Panels*
	Lymphoplasmacytic Lymphoma/ Waldenström Macroglobulinemia*
	Myeloproliferative Neoplasm Gene Panels*

\*Pilot/Non Accredited

For accreditation status please refer to [www.ukas.com](http://www.ukas.com)

# Immunology

Immunology, Immunochemistry & Allergy	
Tel: +44 (0) 114 271 5715	
Email: immunology@ukneqas.org.uk	
Legal Entity: Sheffield Teaching Hospitals NHS Foundation Trust	
Services Available	
<b>Allergy and Immunodeficiency</b>	Allergen Component Testing
	Allergen Specific IgE
	Antibody to Fungal & Related Antigens
	IgG Subclasses
	Specific Microbial Antibodies
	Total IgE
	Tryptase
<b>Autoimmunity</b>	Acetylcholine Receptor Antibodies
	ANCA/GBM Antibodies
	Antibodies to Nuclear and Related Antigens
	Bullous Dermatitis Antibodies
	Coeliac Disease Antibodies
	Diabetic Markers
	Ganglioside Antibodies
	General Autoimmune Serology
	Interferon Gamma Release Assays (Mycobacterium tuberculosis) IGRA TB
	Myelin Associated Glycoprotein IgM Antibodies (MAG)
	Myositis Associated Antibodies
	Paraneoplastic Antibodies

IIA continued		
<b>Autoimmunity</b>	Phospholipase A2 Receptor Antibodies (PLA2R)	
	Phospholipid Antibodies	
	SARS-CoV-2 Antibody Detection	
<b>Immunochemistry</b>	Alkaline Phosphatase (ALP) Isoenzymes	
	Alpha 1 Antitrypsin and Phenotype Identification	
	C-Reactive Protein (CRP)	
	C1 Esterase Inhibitor and Functional Complement Assays	
	CSF Haem Pigments	
	CSF IgG Oligoclonal Bands	
	CSF Proteins and Biochemistry	
	CSF $\beta$ 2 Transferrin/Beta Trace Protein	
	Interleukin-6 (IL-6)*	
	Point of Care CRP	
	Procalcitonin	
	Ultrasensitive C-Reactive Protein	
	$\beta$ 2 Microglobulin	
	<b>Oncology</b>	Cryoproteins (image based)
		Monoclonal Protein Identification
Prostate Specific Antigen (PSA)		
Ultrasensitive PSA		
Tumour Markers (CA Series)		

# Immunology

## Histocompatibility and Immunogenetics

**Tel:** +44 (0) 1443 622 185

**Email:** handi@ukneqas.org.uk

**Legal Entity:** Velindre University NHS Trust

### Services Available

Crossmatching by Flow Cytometry

Cytotoxic Crossmatching

DNA HLA Typing at 1st Field Resolution

DNA HLA Typing to 2nd or 3rd Field Resolution

Educational Cross Match

Educational Interpretive Clinical Scenarios

Educational Scheme

HFE Typing

HLA Antibody Detection

HLA Antibody Specificity Analysis

HLA Genotyping for Coeliac and other HLA associated diseases

HLA Phenotyping

HLA-B\*57:01 Typing for Drug Hypersensitivity

HLA-B27 Testing

HPA Antibody Detection/Specification

HPA Genotyping

Interpretative: HFE Genotype and Hereditary Haemochromatosis

Interpretive HLA Genotype

KIR Genotyping

# Medical Microbiology

Microbiology	
<b>Tel:</b> +44 (0) 208 905 9890	
<b>Email:</b> organiser@ukneqasmicro.org.uk	
<b>Legal Entity:</b> Public Health England	
Services Available	
<b>Bacteriology</b>	AAFB Microscopy
	Antimicrobial Susceptibility
	Clostridioides Difficile (prev. Clostridium Difficile)
	Community Medicine
	Faecal Pathogens
	General Bacteriology
	Genital pathogens
	MRSA Screening
	Mycobacteria Culture
	Syphilis Serology
	Urinary Antigens
	<b>Molecular</b>
CMV DNA Quantification	
EBV DNA Quantification	
HBV DNA Quantification	
Hepatitis C RNA Detection	
HIV 1 RNA Quantification	
Molecular Detection Mycobacteria	
Molecular detection of HEV RNA	
Molecular Detection of HPV	
Molecular Detection of Respiratory Viruses	
Molecular Detection of SARS-CoV-2	
Molecular Detection of Viruses in CSF	
Viral Gastroenteritis (also suitable for antigen testing)	

Microbiology continued	
<b>Mycology</b>	Antifungal Susceptibility
	Cryptococcal antigen detection
	Fungal Biomarkers
	Mycology
<b>Virology</b>	Anti-HBs detection
	Blood Borne Viruses
	Blood Donor Screen
	Diagnostic Serology: hepatitis screen
	Hepatitis B Serology
	Hepatitis C Serology
	Hepatitis E Serology
	HIV Point of Care
	HIV Serology
	Immunity Screen
	Measles and Mumps IgG Serology
	Parvovirus B19 and Rubella Serology
	Respiratory Rapid: RSV
Rubella IgG Serology	
Virus identification	

Parasitology	
<b>Tel:</b> +44 (0) 203 908 1371	
<b>Email:</b> parasite@ukneqas.org.uk	
<b>Legal Entity:</b> Public Health England	
Services Available	
Blood Parasitology	
Faecal Parasitology	
Malaria Rapid	
Molecular Diagnosis of Malaria	
Parasite Serology	
Toxoplasma Serology	
Molecular detection of Faecal Parasites	
Teaching for Blood and Faecal Parasites	

# Genomics and Reproductive Science

Reproductive Science	
<b>Tel:</b> +44 (0) 161 276 6437	
<b>Email:</b> repscience@ukneqas.org.uk	
<b>Legal Entity:</b> Manchester University NHS Foundation Trust	
Services Available	
Andrology: Semen Analysis (Sperm Motility, Concentration & Morphology)	
Embryology: Embryo Morphology, Time Lapse Annotation	

Genomics (GenQA)	
<b>Tel:</b>	
Oxford Office: +44 (0) 1865 857 644	
Edinburgh Office: +44 (0) 131 242 6898	
<b>Email:</b> info@genqa.org	
<b>Legal Entity:</b> Oxford University Hospitals NHS Foundation Trust/ NHS Lothian	
Services Available	
<b>Clinical Genetics</b>	Cardiovascular Disorders
	Dysmorphology
	Monogenic Disorders
	Oncogenetics
	Genetic Counselling*
<b>Constitutional - Postnatal</b>	Chromosome Breakage syndromes
	Disorders of Sexual Development*
	Induced Pluripotent stem (IPS) cells
	Infertility*
	Microdeletion syndromes*
	Postnatal constitutional Copy Number Variant (CNV) detection
	Recurrent miscarriage karyotyping
	Severe Developmental Delay*
	Sex chromosome disorders karyotyping

Genomics continued	
<b>Haematological Neoplasms</b>	Acquired array (CLL and MDS)
	Acute Lymphoblastic Leukaemia (ALL)
	Chronic Lymphocytic Leukaemia (CLL)
	Chronic Lymphocytic Leukaemia (CLL) IGHV mutation status*
	Chronic Lymphocytic Leukaemia (CLL) TP53 mutation analysis*
	Haematological Technical FISH
	Haematological Translocations*
	Lymphoma
	Lymphoma Technical NGS*
	Myeloid Disorders
Myeloma	
<b>Individual Competency Assessment</b>	Tissue-i
	BRCA and HRR variant classification
	COVID-19 Care Home Swabbing
	COVID-19 Laboratory Testing
	COVID-19 Direct LAMP assay
	COVID-19 LamPORE assay
<b>Molecular Genetic Disorders</b>	COVID-19 High throughput Direct RT-LAMP assay
	Aminoglycoside-Induced deafness*
	Ataxia & Hereditary Spastic Paraplegia (HSP)
	Cardiac Disorders
	Charcot Marie Tooth disease (CMT) and related sensory and motor neuropathies

\* Pilot/Non Accredited

For accreditation status please refer to [www.ukas.com](http://www.ukas.com)

# Genomics and Reproductive Science

Genomics continued	
<b>Molecular Genetic Disorders</b>	Cystic Fibrosis (CF) and CFTR-related disorders
	Epilepsy Disorders
	Eye Disorders
	Familial Colorectal Cancer and Polyposis
	Familial Hypercholesterolaemia (FH)
	Familial endocrine tumour predisposition disorders
	Fragile X syndrome and FMR1-related disorders
	Gastrohepatology disorders*
	Hereditary Breast and Ovarian Cancer (HBOC) disorders
	Huntington disease (HD)
	Hypotonic Infant
	Imprinting disorders
	Inborn Errors of Metabolism (IEM)
	Linkage analysis
	Mitochondrial and POLG-related disorders
	Muscular Dystrophies
	Neurodegenerative Disorders
	Neurofibromatosis type 1 and Rasopathies
	Osteogenesis Imperfecta (OI)
	Prediction of 5-Fluorouracil Toxicity (DPYD)*
	Primary Immunodeficiency disorders (PID)

Genomics continued	
<b>Molecular Genetic Disorders</b>	Renal Disorders
	Respiratory disorders
	Skeletal Dysplasias
	X-Inactivation
<b>Molecular Newborn Screening</b>	Cystic Fibrosis (CF) Molecular Newborn screening (bloodspots)
	MCADD Molecular Newborn Screening (bloodspots)
	SCID Molecular Newborn Screening (bloodspots)*
<b>Molecular Pathology</b>	BRCA testing for ovarian cancer - somatic
	BRCA testing for ovarian, breast, prostate and pancreatic cancer - germline
	Breast cancer (PIK3CA testing)*
	Breast cancer - Tumour Expression profiling*
	Central Nervous System (CNS) Tumours
	Circulating free (cf) DNA testing in lung cancer
	Gastrointestinal stromal tumours (GIST)
	Microsatellite instability testing (MSI)
	Molecular Tissue Identification
	NTRK fusions*
	Neuroblastoma*



# Genomics and Reproductive Science

Genomics continued	
<b>Molecular Pathology</b>	Prostate cancer (HRR testing)*
	Renal Tumours*
	Sarcoma
	Thyroid Cancer*
	Colorectal cancer - Extended MMR
	Colorectal cancer - MMR
	Colorectal cancer - core
	Lung cancer - EGFR only
	Lung cancer - comprehensive
	Lung cancer - core
	Lung cancer - fusions
Melanoma	
<b>Preimplantation Genetic Testing (PGT)</b>	Preimplantation genetic testing (PGT) for aneuploidy
	Preimplantation genetic testing (PGT) for chromosomal rearrangements
	Preimplantation genetic testing (PGT) of Blastomere (FISH)
	Preimplantation genetic testing (PGT) of Polar Body
	Preimplantation Genetic Testing (PGT) for monogenic disorders
<b>Prenatal Testing</b>	Maternal cell contamination (MCC) & sexing
	Non-invasive prenatal testing (NIPT) for aneuploidies

Genomics continued		
<b>Prenatal Testing</b>	Non-invasive prenatal testing (NIPT) for common microdeletions*	
	Non-invasive prenatal testing (NIPT) for sexing	
	Pregnancy loss (G-banding)	
	Pregnancy loss (Molecular methods)	
	Prenatal constitutional Copy Number Variant (CNV) detection	
	Prenatal karyotyping	
	Rapid Prenatal Testing for common aneuploidies	
	<b>Sample Handling</b>	DNA Quantification*
		DNA extraction from formalin-fixed paraffin-embedded (FFPE) tissue
		DNA extraction from fresh frozen (FF) tissue*
DNA extraction from saliva*		
DNA extraction from venous blood		
<b>Technical (Next Generation Sequencing)</b>	Next Generation Sequencing (NGS) germline	
	Next Generation Sequencing (NGS) somatic WES/WGS*	
	Next Generation Sequencing (NGS) somatic panel	

# Genomics and Reproductive Science

Genomics continued	
<b>Variant Classification</b>	Exome Sequencing Data Interpretation*
	ISCN (International System for Human Cytogenomic Nomenclature) (Classification Only)*
	Pathogenicity of germline postnatal copy number variants (CNV) (Classification Only)*
	Pathogenicity of germline sequence variants (Classification & Interpretation)
	Pathogenicity of germline sequence variants (Classification only)
	Pathogenicity of prenatal copy number variants (Classification only)*
	Pathogenicity of somatic sequence variants (Classification only)*
	Variant Validation

# Covid-19 Programmes

Purpose	Services Available	UK NEQAS Provider
<b>Diagnostic Programmes</b>	Molecular Detection of Respiratory Viruses	UK NEQAS Microbiology
	Molecular Detection of SARS-CoV-2	UK NEQAS Microbiology
	SARS-CoV-2 Antibody Detection	UK NEQAS Immunology, Immunochemistry & Allergy
	SARS-CoV-2 Antigen*	UK NEQAS Microbiology
<b>Treatment &amp; Monitoring Programmes</b>	Activated Partial Thromboplastin Time (APTT)	UK NEQAS Blood Coagulation
	B-Type Natriuretic Peptide (BNP)	UK NEQAS Cardiac Markers
	C-Reactive Protein	UK NEQAS Immunology, Immunochemistry & Allergy
	Point of Care CRP*	UK NEQAS Immunology, Immunochemistry & Allergy
	D-Dimer Assay (within Screening Tests)	UK NEQAS Blood Coagulation
	Ferritin (within Haematinics EQA Programme)	UK NEQAS Birmingham Quality
	Full Blood Count (FBC)	UK NEQAS Haematology
	Heparin Induced Thrombophilia (HIT) Screening (within Screening Tests)	UK NEQAS Blood Coagulation
	Interleukin-6 (IL-6)*	UK NEQAS Immunology, Immunochemistry & Allergy
	Monitoring Anticoagulation with Low Molecular Weight Heparin (UFH) (within Screening Tests)	UK NEQAS Blood Coagulation
	NT-pro BNP	UK NEQAS Cardiac Markers
	Plasma Viscosity	UK NEQAS Haematology
	Procalcitonin	UK NEQAS Immunology, Immunochemistry & Allergy
	Prothrombin Time for Diagnosis (PT/Diagnostic) (PTD)	UK NEQAS Blood Coagulation
	Routine Biochemistry	UK NEQAS Birmingham Quality
	Cardiac Troponin I	UK NEQAS Cardiac Markers
	Cardiac Troponin T	UK NEQAS Cardiac Markers
<b>Educational Modules</b>	Covid-19 Care Home Swabbing	UK NEQAS Genomics
	Covid-19 Laboratory Testing	UK NEQAS Genomics
	Covid-19 LAMP Assay	UK NEQAS Genomics
	Covid-19 LamPORE Assay	UK NEQAS Genomics
	Covid-19 High Throughput Direct RT-LAMP Assay	UK NEQAS Genomics

# Point of Care Testing

Services Available	UK NEQAS Provider
Activated Clotting Time (ACT)	UK NEQAS Blood Coagulation
B-Type Natriuretic Peptide (BNP)	UK NEQAS Cardiac Markers
Cardiac Troponin I	UK NEQAS Cardiac Markers
Cardiac Troponin T	UK NEQAS Cardiac Markers
CKMB	UK NEQAS Cardiac Markers
Clinical Chemistry	UK NEQAS Birmingham Quality
CoaguChek XS, CoaguChek XS Plus, CoaguChek XS Pro & Pro II (PT/INR)	UK NEQAS Blood Coagulation
C-Reactive Protein (CRP)*	UK NEQAS Immunology, Immunochemistry & Allergy
D-Dimer	UK NEQAS Blood Coagulation
D-Typing	UK NEQAS BTLP
Fungal Biomarkers	UK NEQAS Microbiology
Glycated Haemoglobins	UK NEQAS Birmingham Quality
Haemoglobin only	UK NEQAS Haematology
HIV	UK NEQAS Microbiology
Malaria Rapid	UK NEQAS Parasitology
Molecular Detection of Respiratory Viruses	UK NEQAS Microbiology
Myoglobin	UK NEQAS Cardiac Markers
NT-pro BNP	UK NEQAS Cardiac Markers
Pregnancy Testing	UK NEQAS Edinburgh
Respiratory Rapid: RSV	UK NEQAS Microbiology
Thromboelastometry and Thromboelastography	UK NEQAS Blood Coagulation
Urinary Antigens	UK NEQAS Microbiology
Urine Dipsticks	UK NEQAS Birmingham Quality
Viral Gastroenteritis (also suitable for antigen testing)	UK NEQAS Microbiology

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# Current Participating Countries

Afghanistan	Falkland Islands	Lesotho	Reunion
Albania	Fiji	Liechtenstein	Romania
Angola	Finland	Lithuania	Russia
Argentina	France	Luxembourg	Rwanda
Armenia	French Polynesia	Macau	Saudi Arabia
Aruba	French Guiana	Madagascar	Senegal
Australia	Gambia	Malawi	Serbia
Austria	Georgia	Malaysia	Sierra Leone
Azerbaijan	Germany	Martinique	Singapore
Bangladesh	Ghana	Mali	Sint Maarten
Belarus	Gibraltar	Malta	Slovak Republic
Belgium	Greece	Mauritius	Slovenia
Benin	Greenland	Mexico	South Africa
Bolivia	Guadeloupe	Monaco	Spain
Bosnia and Herzegovina	Guatemala	Mongolia	Sri Lanka
Botswana	Guinea	Montenegro	Sudan
Brazil	Haiti	Morocco	Swaziland
Bulgaria	Honduras	Mozambique	Sweden
Burkina Faso	Hong Kong	Namibia	Switzerland
Cambodia	Hungary	Nepal	Taiwan
Cameroon	Iceland	Netherlands	Tajikistan
Canada	India	New Caledonia	Tanzania
Central Africa Republic	Indonesia	New Zealand	TCHAD
Chile	Iran	Nicaragua	Thailand
China	Iraq	Niger	Togo
Colombia	Ireland	Nigeria	Tunisia
Congo, Democratic Republic	Israel	Norway	Turkey
Costa Rica	Italy	Oman	Turkmenistan
Cote d'Ivoire	Jamaica	Pakistan	Uganda
Croatia	Japan	Panama	UK
Curacao	Jordan	Papua New Guinea	Ukraine
Cyprus	Kazakhstan	Paraguay	United Arab Emirates
Czech Republic	Kenya	Peru	Uruguay
Denmark	Kingdom of Bahrain	Philippines	USA
Dominican Republic	Kosovo	Poland	Uzbekistan
Ecuador	Kuwait	Portugal	Venezuela
Egypt	Kyrgyzstan	Qatar	Vietnam
El Salvador	Lao PDR	Republic of Korea	Yemen
Estonia	Latvia	Republic of Macedonia	Zambia
Ethiopia	Lebanon	Republic of Moldova	Zimbabwe

# UK NEQAS

## Contact Information

Centre	Telephone	Email
Birmingham Quality	+44 (0) 121 414 7300	birminghamquality@uhb.nhs.uk
Blood Coagulation	+44 (0) 114 267 3300	neqas@coageqa.org.uk
Blood Transfusion Laboratory Practice (BTLP)	+44 (0) 1923 217 933	btlp@ukneqas.org.uk
Cardiac Markers	+44 (0) 141 440 2888	info@ukneqas-cm.org.uk
Cellular Pathology Technique	+44 (0) 191 816 1030	cpt@ukneqas.org.uk
Edinburgh Peptide Hormones	+44 (0) 131 242 6885	ukneqas@ed.ac.uk
Genomics	Oxford: +44 (0) 1865 857 644 Edinburgh: +44 (0) 131 242 6898	info@genqa.org
Guildford Peptide Hormones	+44 (0) 1483 571 122 ext. 3611	rsch.peptideeqa@nhs.net
Haematology	+44 (0) 1923 217 878	haem@ukneqas.org.uk
Head and Neck Pathology	+44 (0) 121 371 5723	neckpath@ukneqas.org.uk
Histocompatibility and Immunogenetics	+44 (0) 1443 622 185	handi@ukneqas.org.uk
Immunocytochemistry & In-Situ Hybridisation	+44 (0) 208 187 9174	info@ukneqasiccish.org
Immunology, Immunochemistry & Allergy	+44 (0) 114 271 5715	immunology@ukneqas.org.uk
Leucocyte Immunophenotyping	+44 (0) 114 267 3600	admin@ukneqasli.co.uk
Microbiology	+44 (0) 208 905 9890	organiser@ukneqasmicro.org.uk
Neuropathology	+44 (0) 1865 234 904	neuropath@ukneqas.org.uk
Parasitology	+44 (0) 203 908 1371	parasite@ukneqas.org.uk
Reproductive Science	+44 (0) 161 276 6437	repscience@ukneqas.org.uk
Trace Elements	+44 (0) 1483 571 122 ext. 3611	rsc-tr.Guildford-EQA@nhs.net
Vitamin K	+44 (0) 207 188 6815	keqas@ukneqas.org.uk

# UK NEQAS

International Quality Expertise

UK NEQAS Central Office  
PO BOX 401  
Sheffield S5 7YZ

Tel : +44 (0) 114 261 1689

[centraloffice@ukneqas.org](mailto:centraloffice@ukneqas.org)  
[www.ukneqas.org.uk](http://www.ukneqas.org.uk)

