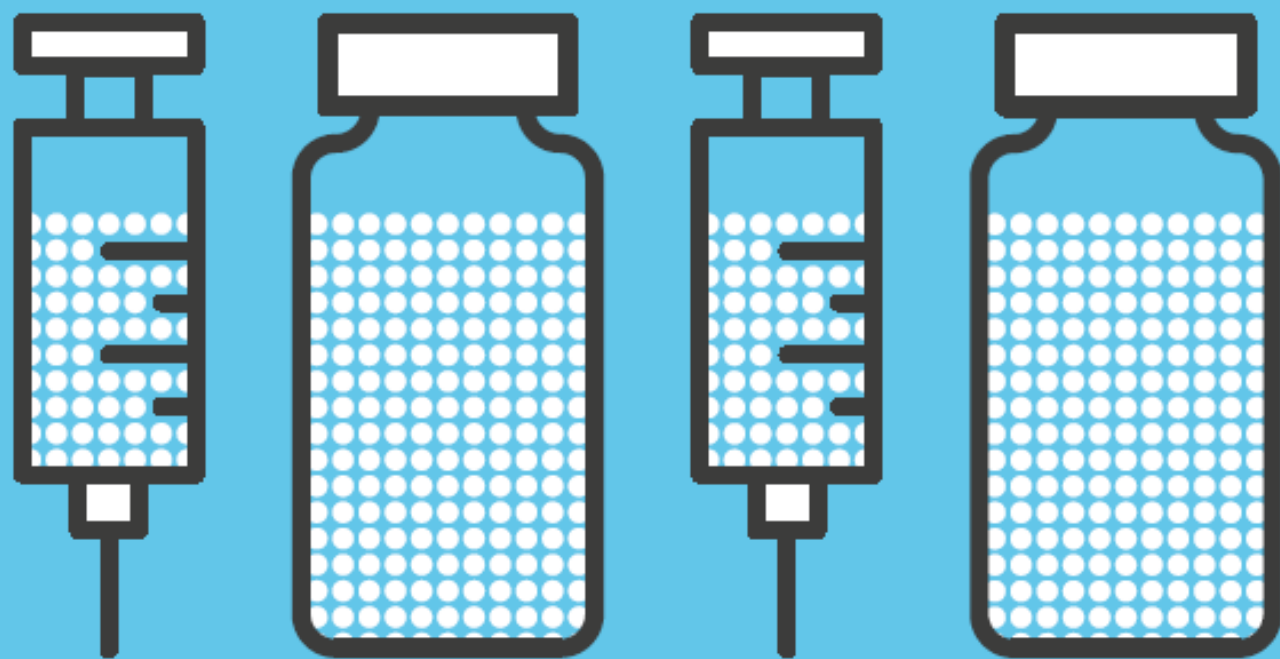


# Services Available List

## United Kingdom National External Quality Assessment Service



**UK NEQAS**  
International Quality Expertise

To find out more about our services  
visit our website: [www.ukneqas.org.uk](http://www.ukneqas.org.uk)  
or our twitter page: [@UKNEQAS](https://twitter.com/UKNEQAS)

# Who are UK NEQAS?

For over 50 years members of UK National External Quality Assessment Service (UK NEQAS) Consortium 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 laboratory testing worldwide. As such, our 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 are often used to produce national and international guidelines, and support the identification of best practice amongst service users. This promotes the implementation of best practice procedures worldwide and benefits patient care on a global scale.

The ranges of 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. Our EQA/PT services have always included quality 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 now supported by our Pre and Post Analytical Quality Monitoring service (known as PrepQ), in which we have established a true end-to-end quality monitoring 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 centres in 11 cities which each cover a specific areas of expertise. 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 partnership between UK NEQAS and laboratories worldwide is for the benefit of patients. We are proud to support high quality healthcare through this relationship. We realise that there is still a significant amount of work required to further develop EQA/PT systems and we are keen to undertake this in partnership with our participants. We always welcome feedback and suggestions on how we can improve our services.

Thank you for your continuing support of UK NEQAS.



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## Cellular Pathology

Cellular Pathology Technique	
<b>Tel:</b> +44 (0) 191 445 2719	
<b>Email:</b> cpt@ukneqas.org.uk	
<b>Legal entity:</b> LabXCell LTD	
Services Available	
General Cellular Pathology (Routine Histopathology)	
Bone Marrow Tephine Biopsy	
Diagnostics Cytopathology	
Mohs' Procedure	
Muscle Histochemistry	
Neuropathology	
Renal Biopsy Pathology	
Transmission Electron Microscopy (TEM)	
Companion Schemes	Frozen Sections
	Mega Blocks
	Tissue Evaluation*
Digital Interpretative Diagnostic Cytopathology*	
Digital Pathology Imaging*	
Direct Immunofluorescence (DIF)*	

Immunocytochemistry & In-Situ Hybridisation	
<b>Tel:</b> +44 (0) 207 415 7065	
<b>Email:</b> info@ukneqasiccish.org	
<b>Legal entity:</b> External Quality Assessment Services for Cancer Diagnostics CIC	
Services Available	
Immunocytochemistry Modules	General Pathology
	Breast Pathology - Hormonal Receptors - ER
	Breast Pathology - Hormonal Receptors - ER and PR
	Breast Pathology - HER2 IHC
	Lymphoid Pathology
	Neuropathology
	Cytopathology
	Alimentary Tract Pathology (GIST)
	Mismatch Repair (MMR) Proteins
	Gastric HER2 IHC
	NSCLC ALK IHC
	NSCLC PD-L1 IHC*
	NSCLC ROS1 IHC*
	TNBC PD-L1 IHC*
In-Situ Hybridisation Modules	Breast (HER2 ISH - Interpretative)
	Breast (HER2 ISH - Technical)
	NSCLC ALK ISH*
	NSCLC ROS1 ISH*

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 & Neck Pathology (Oral, ENT & Combined)	
UK National BNS Neuropathology Interpretative EQA Scheme	
<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	

## Clinical Chemistry

Cardiac Markers	
<b>Tel:</b> +44 (0) 141 440 2888	
<b>Email:</b> info@ukneqas-cm.org.uk	
<b>Legal entity:</b> NHS Greater Glasgow & Clyde	
Services Available	
BNP	
Cardiac Troponin I (including high sensitivity methods)	
Cardiac Troponin T (including high sensitivity methods)	
CKMB	
Myoglobin	
NT-proBNP	
Trace Elements	
<b>Tel:</b> +44 (0) 1483 689 022	
<b>Email:</b> rsc-tr.Guildford-EQA@nhs.net	
<b>Legal entity:</b> Frimley Health NHS Foundation Trust	
Services Available	
Aluminium in Water (Educational)	
Serum Trace Elements (Zn, Cu, Al, Se, Cr & Co)	
Solid Matrix (Elements) (Cu & Fe)	
Urine Trace Elements (Hg, Cu, Fe, Zn, Cr, Co, As, Cd, Pb, Mn, Ni, Tl, & Se)	
Whole Blood Trace Elements (Pb, Mn, Cr, Co, As, Cd, Mg, Hg, Zn, Se & Tl)	

## Clinical Chemistry

Birmingham Quality	Edinburgh Peptide Hormones
<b>Tel:</b> +44 (0) 121 414 7300	<b>Tel:</b> +44 (0) 131 242 6885
<b>Email:</b> birminghamquality@uhb.nhs.uk	<b>Email:</b> ukneqas@ed.ac.uk
<b>Legal entity:</b> University Hospitals Birmingham NHS Foundation Trust	<b>Legal entity:</b> NHS Lothian
Services Available	Services Available
Antibiotic Assays	<b>Maternal Serum Screening</b>
Antifungal Panel	
Clinical Chemistry	1st Trimester (Down's syndrome and Trisomies T13 and T18)
Erythropoietin	1st Trimester (Down's syndrome in dried blood spots)*screening
Faecal Haemoglobin	2nd Trimester (Down's syndrome)
Faecal Markers	2nd Trimester (Neural tube defects)
Faecal Pancreatic Elastase	<b>Pre-eclampsia Markers*</b>
Fluids*	
Fructosamine	Placental Growth Factor (PLGF)
GFR Estimations	SFlt-1
Glycated Haemoglobins	SFlt-1: PLGF ratio
Haematinic Assays	<b>Peptide I</b>
Holotranscobalamin	
Immunosuppressants	FSH, LH, AMH, Prolactin and Growth Hormone
Interpretative Comments in Clinical Chemistry	<b>Peptide II</b>
Intrinsic Factor Antibodies	
Lipid Investigations	PTH, ACTH and Calcitonin
Monthly Clinical Chemistry #	<b>Pregnancy Testing</b>
Newborn Screening	
Paediatric Bilirubin	Urinary hCG (Qualitative and Quantitative)
PREPQ – Pre and Post Analytical Quality Monitoring: a pan-UK NEQAS Scheme	<b>Tumour Markers</b>
Quantitative Amino Acids	
Serum Indices (HIL)	AFP, CEA and hCG
Specific Proteins	<b>Liver Fibrosis Markers*</b>
Steroid Hormones	
Sweat Testing	
Thyroglobulin	
Thyroid Hormones	Type III Procollagen Peptide (PIIINP) Hyaluronic acid
Toxicology and Therapeutic Drug Monitoring	Tissue inhibitor of metalloproteinase I (TIMP-I)
Urinary Catecholamines & Metabolites	Enhanced Liver Fibrosis Score (ELF)
Urine Chemistries	FIB-4 Score
Urine Dipsticks	
Vitamin Assays	
Vitamin D	
Guildford Peptide Hormones	Haematology
<b>Tel:</b> +44 (0) 1483 689 022	<b>Blood Transfusion Laboratory Practice (BTLF)</b>
<b>Email:</b> insulin@ukneqas.org.uk	<b>Tel:</b> +44 (0) 1923 217 933
<b>Legal entity:</b> Frimley Health NHS Foundation Trust	<b>Email:</b> btlf@ukneqas.org.uk
Services Available	<b>Legal entity:</b> West Hertfordshire Hospitals NHS Trust
C-Peptide	Services Available
Gastrin	<b>Pre-Transfusion Testing (PTT)</b>
Insulin	
Insulin-like Growth Factor Binding Protein-3	
Insulin-like Growth Factor-1	
	Blood Grouping (ABO/D)
	Red Cell Antibody Screening
	Crossmatching
	Identification of Red Cell Antibodies
	Red Cell Phenotyping
	<b>Fetomaternal Haemorrhage (FMH)</b>
	FMH Screening and/or Quantification
	<b>Other Tests</b>
	ABO Titration
	Red Cell Genotyping
	Extended Red Cell Phenotyping*
	Antenatal Antibody Titration*
	Direct Antiglobulin Test (DAT)
	<b>Other Services (supplementary to EQA)</b>
	Training, Assessment & Competency Tool (TACT)
	Transfusion

## Haematology

Blood Coagulation		Haematology	
Tel: +44 (0) 114 267 3300		Tel: +44 (0) 1923 217 878	
Email: neqas@coageqa.org.uk		Email: haem@ukneqas.org.uk	
Legal entity: Sheffield Teaching Hospitals NHS Foundation Trust		Legal entity: West Hertfordshire Hospitals NHS Trust	
<b>Services Available</b>		<b>Services Available</b>	
Blood Coagulation		<b>Automated Counting &amp; Related</b>	Automated Differential Leucocyte Count
<b>Screening Tests (Level 1)</b>	Activated Partial Thromboplastin Time (APTT)		ESR
	D-Dimer Assay		Full Blood Count
	Fibrinogen (Clauss method)		Hb only
	Heparin Assay (HA)		Infectious Mononucleosis Screen*
	Heparin Dosage Assessment (HDA)		NRBC (Sysmex analysers)*
	Prothrombin Time (PT)/INR (Quick / capillary methods)		Plasma Viscosity
	Prothrombin Time for diagnosis		Reticulocyte Count
	Thrombin Time (TT)		Blood Films for Morphology, Manual Differential and Parasite Identification
<b>Assays (Level 2)</b>	Activated Protein C resistance Assay		<b>Morphology Related</b>
	Antithrombin Antigen and Activity Assays	Digital Morphology for CPD*	
	Factor II, V, VII, VIII, IX, X, XI, XII Assays	Malaria Rapid Diagnostic Testing (Haematology)	
	Factor XIII Screen/Assay	Abnormal Haemoglobins Hb A2/Hb F & Hb S	
	Plasminogen Assay	<b>Haemoglobinopathy</b>	DNA Diagnostics for Haemoglobinopathies
	Protein C Antigen and Activity Assays		Newborn Haemoglobinopathy Screen (liquid blood)
	Protein S Activity Assay		Newborn Sickle Screening (dried blood spot)
	Protein S Total and Free Antigen Assay		Sickle Solubility Screening
	Quantitative Factor VIII Inhibitor		G6PD Screen and Assay
	Von Willebrand factor Antigen Assay		Pyruvate Kinase Assay*
	VWF:CB (collagen-binding)		
	VWF:RCo (activity) Assay		
<b>Other Tests</b>	ADAMTS13	<b>Vitamin K</b>	
	Direct Oral Anticoagulant (DOAC) Assay	Tel: +44 (0) 207 188 6815	
	Factor V Leiden/Molecular Genetics of Thrombophilia Testing	Email: keqas@ukneqas.org.uk	
	Genetics of Heritable Bleeding & Thrombotic Disorders EQA Programme	Legal entity: Viapath Analytics	
	Heparin Induced Thrombocytopaenia (HIT) Assays	<b>Services Available</b>	
	Lupus Anticoagulant	Vitamin K <sub>1</sub> at endogenous concentrations in human serum	
	Plasma Homocysteine	Mk-4 at endogenous concentrations in human serum*	
		Mk-7 at endogenous concentrations in human serum*	
	Undercarboxylate Prothrombin (PIVKA-II) in human serum*		
	Vitamin K <sub>1</sub> 2, 3-epoxide at endogenous concentrations in human serum*		

## Haematology

### Leucocyte Immunophenotyping

**Tel:** +44 (0) 114 267 3600

**Email:** admin@ukneqasli.co.uk

**Legal entity:** Sheffield Teaching Hospitals  
NHS Foundation Trust

#### Services Available

<b>Flow Cytometry</b>	CD34+ Stem Cell Enumeration	
	Cerebrospinal Fluid (CSF) Immunophenotyping*	
	Haematological Malignancy Bone Marrow Aspirate Assessment* (Individual)	
	Haematological Malignancy Bone Marrow Aspirate Assessment* (Group Licence 1-5 Registrations)	
	Haematological Malignancy Bone Marrow Aspirate Assessment* (Group Licence 6-10 Registrations)	
	Haematological Malignancy Bone Marrow Aspirate Assessment* (Group Licence 11-20 Registrations)	
	Immune Monitoring	
	Immune Monitoring (Alternative Technologies)	
	Leukaemia Immunophenotyping and Diagnostic Interpretation	
	Leukaemia Diagnostic Interpretation-Institute*	
	Leukaemia Diagnostic Interpretation-Individual*	
	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*	
	Paroxysmal Nocturnal Haemoglobinuria	
	<b>Molecular</b>	Acute Myeloid Leukaemia and Myelodysplastic Syndrome Gene Panels*
		BCR-ABL1 Kinase Domain Mutation Status*
BCR-ABL1 Major Quantification		
BCR-ABL1 Minor Quantification*		
BCR-ABL1 and AML Translocation Identification		
BRAF p.Val600Glu (V600E) Mutation Status for Hairy Cell Leukaemia		

### Leucocyte Immunophenotyping continued

<b>Molecular</b>	Chronic Lymphocytic Leukaemia Gene Panels*
	FLT3 Mutation Status
	IgH/TCR Clonality Status
	JAK2 p.Val617Phe (V617F) Mutation Status
	KIT p.Asp816Val (D816V) Mutation Status for Mast Cell Disease
	Lymphoplasmacytic Lymphoma/Waldenström Macroglobulinaemia*
	Myeloproliferative Neoplasms Gene Panels*
	NPM1 Mutation Status
	Paediatric Acute Leukaemia Translocations
	Post-Stem Cell Transplant Chimerism

## Immunology

### Histocompatibility & 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
HLA Typing at 1st Field Resolution
HLA Typing to 2nd or 3rd Field Resolution
Educational (IED) – Interpretive clinical scenarios
Educational (ED) – HLA Typing
Educational Crossmatch (EDXM) – Combined Crossmatch/HLA Type/Antibody Analysis
HFE Typing
HLA Antibody Detection
HLA Antibody Specificity Analysis
HLA-B27 Testing
HLA-B*57:01 Typing for Drug Hypersensitivity
HLA Typing for Coeliac and other HLA Associated Diseases
HLA Phenotyping
HPA Genotyping
Interpretative: HFE Genotype and Hereditary Haemochromatosis
Interpretative HLA Genotype
KIR Genotyping
HPA Antibody Detection/Specification

## Immunology

Immunology, Immunochemistry & Allergy	
<b>Tel:</b> +44 (0) 114 271 5715	
<b>Email:</b> immunology@ukneqas.org.uk	
<b>Legal entity:</b> Sheffield Teaching Hospitals NHS Foundation Trust	
Services Available	
<b>Autoimmunity</b>	Acetylcholine Receptor Antibodies
	Anaemia Related Antibodies
	ANCA/GBM Antibodies
	Bullous dermatosis Antibodies
	Citrullinated Proteins
	Coeliac Disease Antibodies
	Diabetic Markers
	Ganglioside Antibody
	Interferon Gamma Release Assays
	Liver Antibodies
	Myelin Associated Glycoprotein Antibodies*
	Myositis Associated Antibodies*
	Nuclear Antibodies DNA/ANA
	Nuclear Antibodies DNA/ANA/ENA
	Paraneoplastic Antibodies
	Phospholipase A2 Receptor Antibodies (PLA2R)*
	Phospholipid Antibodies
	Rheumatoid Factor
	Thyroid Peroxidase Antibodies
	Thyroid Stimulating Hormone Receptor Ab (TRAb)
<b>Allergy &amp; Immunodeficiency</b>	Allergen Component Testing*
	Allergen Specific IgE
	Avian Antibodies
	Fungal Antibodies
	H. Influenzae Antibodies
	IgG Subclasses
	Pneumococcal Antibodies
	Salmonella ser. Typhi (S. Typhi) Antibodies*
	Tetanus Antibodies
	Total Serum IgE
Tryptase	

Immunology, Immunochemistry & Allergy (continued)	
<b>Immunochemistry</b>	Alkaline Phosphatase (ALP) Isoenzymes*
	Alpha 1 Antitrypsin and Phenotype Identification
	β2 Microglobulin
	C1 Inhibitor & Functional Complement
	C-Reactive Protein
	CRP Ultrasensitive Assays
	CSF β2 Transferrin
	CSF β2 Trace Protein
	CSF Haem Pigments
	CSF IgG Oligoclonal Bands
<b>Oncology</b>	CSF Proteins and Biochemistry
	Breast markers – CA153
	Chromogranin A
	Gut markers – CA199
	Lung markers – NSE
	Monoclonal Protein Identification
	Ovarian markers - CA125
	PSA free
	PSA total
	Ultrasensitive PSA*
<b>Digital EQA</b>	Cryoproteins (image based)
	Interpretative EQA (iEQA)

## Microbiology

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 Molecular	
Faecal Parasitology	
Malaria Rapid	
Molecular Detection of Malaria	
Parasite Serology	
Toxoplasma IgG, IgM and Avidity Serology	
Toxoplasma Molecular*	
<b>Other (supplementary to EQA)</b>	Blood and Faecal Parasitology Teaching Courses



## Microbiology

Microbiology	
Tel: +44 (0) 208 905 9890	
Email: <a href="mailto:organiser@ukneqasmicro.org.uk">organiser@ukneqasmicro.org.uk</a>	
Legal entity: Public Health England	
Services Available	
<b>Bacteriology</b>	AAFB Microscopy
	Antimicrobial Susceptibility
	Bacterial Identification
	Carbapenemase-producing Organisms (CPO)*
	Clostridium Difficile
	Community Medicine
	Faecal Pathogens
	General Bacteriology incl. Antimicrobial Susceptibility
	General Bacteriology Identification
	Genital Pathogens
	MRSA Screening
	Mycobacteria Culture
	Urinary Antigens
	<b>Molecular</b>
CMV DNA Quantification	
EBV DNA Quantification	
HBV DNA Quantification	
Hepatitis C RNA Detection	
HIV1 RNA Quantification	
Molecular Detection of HPV	
Molecular Detection of Mycobacteria	
Molecular Detection of Viruses in CSF	
Molecular Detection of Respiratory Viruses	
Molecular Detection of HEV RNA	
<b>Mycology</b>	Viral Gastroenteritis – suitable for antigen testing too.
	Virus Identification – suitable for conventional methodologies
	Antifungal Susceptibility
	Mycology
	Cryptococcal Antigen Detection
Fungal Biomarkers	
Mycology Teaching Workshop (one day)	

Microbiology (continued)	
<b>Virus Serology</b>	Anti-HBs Detection
	Blood Borne Viruses
	Blood Donor Screen
	Diagnostic Serology: Hepatitis Screen
	Hepatitis B Serology
	Hepatitis C Serology
	Hepatitis E Serology
	HIV Serology
	Immunity Screen
	Measles and Mumps IgG Serology
	Serology
Rubella IgG Serology	
Syphilis Serology	
Interpretative Comments	

## Genomics & Reproductive Science

Reproductive Science	
Tel: +44 (0) 161 276 6437	
Email: <a href="mailto:repsscience@ukneqas.org.uk">repsscience@ukneqas.org.uk</a>	
Legal entity: Manchester University NHS Foundation Trust	
Services Available	
<b>Andrology</b>	Sperm Concentration (practical)
	Sperm Morphology (practical)
	Sperm Motility (online)
	Interpretative Sperm Morphology (online)
<b>Embryology</b>	Embryo Morphology (online)
	Time Lapse Annotation (online)

## Genomics & Reproductive Science

Genomics/Molecular Genetics		Molecular Genetic Disorders continued	
<b>Tel:</b> Oxford Office: +44 (0) 1865 857 644 Edinburgh Office: +44 (0) 131 242 6898		<b>Familial Endocrine Tumour Predispositions disorders</b>  Multiple endocrine neoplasia type 1 (MEN1)  Multiple endocrine neoplasia type 2 (MEN2)  Familial medullary thyroid carcinoma (FMTC)  Familial paraganglioma and pheochromocytoma  Von Hippel-Lindau Disease (VHL)	
<b>Email:</b> info@genqa.org			
<b>Legal entity:</b> Oxford University Hospitals NHS Foundation Trust/ NHS Lothian			
<b>Services Available</b>			
<b>Molecular Genetic Disorders</b>		Familial Hypercholesterolaemia (FM)	
<b>Ataxia &amp; Hereditary Spastic Paraplegia</b>	Friedreich ataxia	<b>Fragile X Syndrome &amp; FMR1-related disorders</b>	Fragile X Associated Tremor Ataxia (FXTAS)
	Spastic Paraplegia, Hereditary (HSP)		Premature ovarian failure (POF)
	Spinocerebellar ataxias	<b>Hereditary Breast and Ovarian Cancer (HBOC) disorders</b>	Familial Breast and Ovarian Cancer - BRCA1/BRCA2
<b>Cardiac disorders (previously Cardiomyopathies &amp; Arrhythmias)</b>	Brugada syndrome		Cowden Disease
	Cardiomyopathies		Li-Fraumeni Disease
	Catecholaminergic polymorphic ventricular tachycardia (CPVT)		Peutz-Jegher Syndrome
	General arrhythmias		Huntington Disease (HD)
	Long QT Syndrome	<b>Hypotonic Infant</b>	Myotonic Dystrophy
Marfan Syndrome	Prader-Willi Syndrome		
<b>Charcot-Marie-Tooth-Disease (CMT) &amp; related sensory &amp; motor neuropathies</b>	Charcot Marie Tooth disease (CMT)		Spinal Muscular Atrophy (SMA)
	Hereditary Liability to Pressure Palsies (HNPP)	<b>Imprinting disorders</b>	Angelman Syndrome
	Hereditary Motor and Sensory Neuropathy (HMSN)		Beckwith Wiedemann Syndrome (BWS)
Cystic Fibrosis (CF) and CFTR-related disorders	<b>Epilepsy disorders (previously Rett syndrome only)</b>		Tuberous Sclerosis
		Dravet Syndrome	Silver-Russell Syndrome (SRS)
Rett Syndrome		<b>Inborn Errors of Metabolism</b>	Fabry Disease
Albinism	Gaucher Disease		
Coloboma	Medium Chain acyl-CoA Dehydrogenase Deficiency (MCADD)		
Cone/Cone-rod dystrophies	Tay-Sachs Disease		
Leber congenital amaurosis	Linkage Analysis*		
Microphthalmia			
Retinitis pigmentosa			
Structural eye abnormalities			
<b>Familial Colorectal Cancer &amp; Polyposis disorders (previously separate EQA)</b>	Familial adenomatous polyposis (FAP)		
	Lynch Syndrome		
	MUYTH-associated polyposis (MAP)		

## Genomics & Reproductive Science

Molecular Genetic Disorders continued		Molecular Genetic Disorders continued	
<b>Mitochondrial and POLG-related disorders (previously separate EQA)</b>	m.3243A>G related disorders	<b>Skeletal Dysplasias</b>	Achondroplasia
	Myoclonic epilepsy with ragged red fibers (MERRF) Syndrome		Achondrogenesis
	Leber's Hereditary Optic Neuropathy (LHON)		Apert Syndrome
	Leigh Syndrome		Crouzon Syndrome
	Neuropathy, Ataxia, and Retinitis Pigmentosa (NARP) Syndrome		FGFR2-related disorders
	POLG-related disorders		FGFR3-related disorders
			Hypochondroplasia
	Pfeiffer Syndrome		
	Thanatophoric Dysplasia	<b>Combined Molecular and Cytogenomic EQA</b>	
<b>Muscular Dystrophies (previously BMD/DMD only)</b>	Congenital Muscular Dystrophy (CMD)	<b>Infertility*</b>	Congenital Bilateral Absence of the Vas Deference (CBAVD)
	Becker Muscular Dystrophy (BMD)		FMRI-related disorders
	Duchenne Muscular Dystrophy (DMD)		Y Chromosome Deletion
	Emery-Dreifuss Muscular Dystrophy (EDMD)		Karyotyping
	Limb girdle Muscular Dystrophy (LGMD)	Severe Developmental Delay*	<b>Disorders of Sexual Development (DSD)*</b>
		Congenital Adrenal Hyperplasia (CAH)	
		SHOX Deficiency	
<b>Neurodegenerative disorders (previously Dementia and ALS only)</b>	Alzheimer Disease	<b>Clinical Genetics</b>	
	Amyotrophic Lateral Sclerosis (ALS)	Cardiovascular Genetics	
	Frontotemporal Dementia	Dysmorphology	
	Parkinson Disease	Monogenic disorders	
<b>Neurofibromatosis Type 1 and Rasopathies</b>	Neurofibromatosis Type 1	Oncogenetics	
	Neurofibromatosis Type 2	<b>Postnatal EQA</b>	
	Noonan Syndrome	Blood	
Osteogenesis Imperfecta		Chromosome Breakage syndromes*	
<b>Respiratory disorders</b>	Birt-Hogg Dube Syndrome	Induces Pluripotent Stem (IPS) Cells*	
	FLCN-related disorders	Microdeletion syndromes (FISH)*	
	Pulmonary Arterial Hypertension	Postnatal Constitutional CNV Detection (provided in collaboration with EMQN)	
<b>Renal disorders</b>	Alport Syndrome	<b>Individual Competency Assessment</b>	
	Haematuria	Genomics Training and Competency Tool (G-TACT)	
	Polycystic Kidney Disease	BRCA variant classification (provided in collaboration with EMQN)	
		Copy Number Variant (CNV) classification	
		Single nucleotide variant (SNV) classification	
		Somatic variant classification	
		Tissue-i – online tissue assessment module	

## Genomics & Reproductive Science

Molecular Genetic Disorders continued	Molecular Genetic Disorders continued
<b>Prenatal Testing</b>	<b>Haematological Neoplasms</b>
Amniotic Fluid	Acquired Array (CLL/MDS)
Chorionic Villus (CVS)	Acute Lymphoblastic Leukaemia (ALL) (G-Banded)
Maternal Cell Contamination (MCC) & Sexing	Chronic Lymphocytic Leukaemia (CLL) IGHV Mutations Status* (provided in collaboration with UKNEQAS LI)
Molecular Rapid Aneuploidy (MRA)	Chronic Lymphocytic Leukaemia (CLL) TP53 Analysis* (provided in collaboration with UKNEQAS LI)
Non-invasive prenatal testing (NIPT) for common aneuploidies* (provided in collaboration with EMQN)	Lymphoma (FFPE FISH)
Non-invasive prenatal testing (NIPT) for common microdeletions*	Mature B&T Cell Neoplasms (G-Banded)
Non-invasive prenatal testing (NIPT) for sex determination* (provided in collaboration with EMQN)	Mature B&T Cell Neoplasms (Fixed cells FISH for CLL and Lymphoma)
Pregnancy Loss – G-banding only (formerly Products of conception/Fetal tissue)	Myeloid disorders (G-Banded)
Pregnancy Loss – molecular methods (formerly Products of Conception/Fetal tissue)	Myeloma (FISH/Array/NGS)
Prenatal constitutional Copy Number Variation (CNV) detection (previously Prenatal microarray)	Technical FISH (formerly Acute Leukaemia FISH)
Rapid Prenatal Aneuploidy FISH	<b>Molecular Pathology</b>
<b>Preimplantation Genetic Testing</b>	BRCA germline testing in ovarian cancer (provided in collaboration with EMQN)
Blastomere FISH (Stages 1 & 2)	BRCA somatic testing in ovarian cancer (provided in collaboration with EMQN)
Polar Bodies	Central Nervous System (CNS) Tumours
Trophectoderm/Blastomere for aneuploidies	Circulating free DNA (cfDNA) for lung cancer* (provided in collaboration with EMQN)
Trophectoderm/Blastomere for chromosomal rearrangements	Colorectal Cancer (core/extended MMR or MMR)
Trophectoderm/Blastomere for monogenic disorders (Stages 1 & 2)	Endocrine Tumours*
<b>Technical</b>	Gastrointestinal Stromal Tumours (GIST)
DNA extraction from blood	HRR Gene Testing in Prostate Cancer* (provided in collaboration with EMQN)
DNA extraction from formalin-fixed paraffin embedded (FFPE) tissue	Lung cancer (core/comprehensive, EGFR only or fusions)
DNA extraction from fresh/frozen (FF) tissue*	Melanoma
DNA extraction from saliva*	Microsatellite Instability (MSI)
DNA quantification*	Molecular Tissue Identification
Next Generation Sequencing (NGS) germline testing* (in collaboration with EMQN)	Neuroblastoma*
Next Generation Sequencing (NGS) somatic testing* (in collaboration with EMQN)	NTRK fusions*
<b>Variant Classification</b>	Sarcoma
Pathogenicity of germline sequence variants (Classification & Interpretation)	Tumour expression profiling*
Pathogenicity of germline sequence variants (Classification only)	<b>Molecular Newborn Screening</b>
Pathogenicity of somatic sequence variants (Classification only)	Molecular testing of blood spots for Cystic Fibrosis
Variant Validation	Molecular testing of blood spots for MCADD
	Molecular testing of blood spots for Severe Combined Immunodeficiency (SCID)

## Point of Care Testing

All contact information for UK NEQAS Centres can be found on page 22.

Scheme	Centre	Point of Care (POCT)/ Laboratory
Activated Clotting Time (ACT+ and ACT LR)	Blood Coagulation	POCT
BNP	Cardiac Markers	POCT & Laboratory
Cardiac Troponin I (including high sensitivity methods)	Cardiac Markers	POCT & Laboratory
Cardiac Troponin T	Cardiac Markers	POCT
CKMB	Cardiac Markers	POCT & Laboratory
Clinical Chemistry	Birmingham Quality	POCT & Laboratory
CoaguChek XS, CoaguChek XS Plus, CoaguChek XS Pro & Pro II	Blood Coagulation	POCT
CRP Ultrasensitive Assays	Immunology, Immunochemistry & Allergy	POCT & Laboratory
Cryptococcal Antigen Detection	Microbiology	POCT & Laboratory
D-Dimer	Blood Coagulation	POCT
D-Typing	Blood Transfusion Laboratory Practice	POCT
Fungal Biomarkers	Microbiology	POCT & Laboratory
Glycated Haemoglobins	Birmingham Quality	POCT & Laboratory
Hb Only	Haematology	POCT & Laboratory
HIV	Microbiology	POCT
i-STAT (PT/INR)	Blood Coagulation	POCT
Malaria Rapid	Parasitology	POCT & Laboratory
Molecular Detection of Respiratory Viruses	Microbiology	POCT & Laboratory
Myoglobin	Cardiac Markers	POCT & Laboratory
NT-proBNP	Cardiac Markers	POCT & Laboratory
Pregnancy Testing	Edinburgh Peptide Hormones	POCT & Laboratory
Respiratory Rapid: RSV	Microbiology	POCT
Thromboelastometry and Thromboelastography	Blood Coagulation	POCT
Urinary Antigen	Microbiology	POCT & Laboratory
Urine Dipsticks	Birmingham Quality	POCT & Laboratory
Viral Gastroenteritis	Microbiology	POCT & Laboratory
Xprecia Stride (PT/INR)	Blood Coagulation	POCT

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<b>T</b>		Viral Gastroenteritis – suitable for antigen testing too.	9, 13
Tay-Sachs Disease	10		
Technical	12		
Technical FISH (formerly Acute Leukaemia FISH)	12		



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