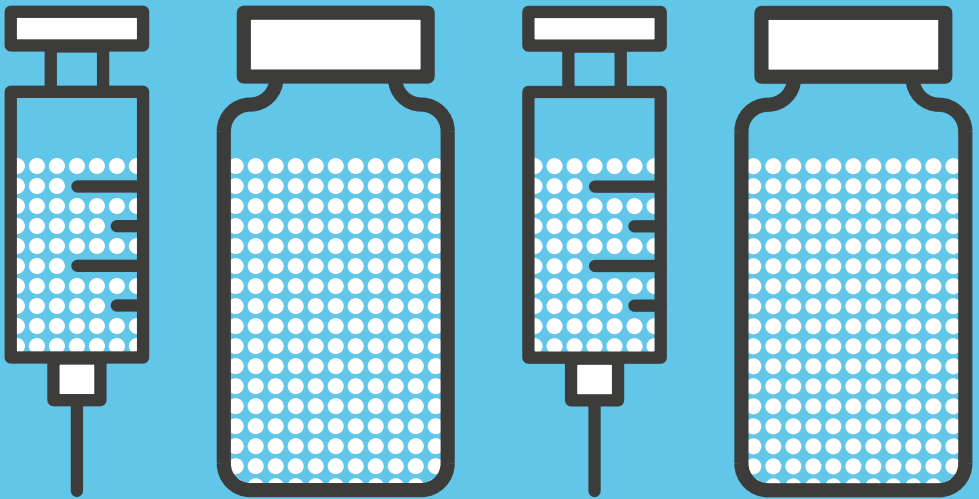


2019/20

Services Available List

United Kingdom National External Quality Assessment Service



UK NEQAS
International Quality Expertise

50 Years as World
Leaders in EQA
1969–2019

What is UK NEQAS?

Since 1969 the members of the UK National External Quality Assessment Service (UK NEQAS) consortium have provided External Quality Assessment (EQA) to laboratories within the UK and overseas. The findings from UK NEQAS programmes ensure that clinical laboratory tests on patients are robust, accurate, precise and therefore clinically of value, regardless of the location they are performed; contribute towards the production of international and national guidelines and underpin the generation of local clinical laboratory results for use in the diagnosis and monitoring of patients throughout their treatment journeys. Participation in EQA from accredited organisations such as UK NEQAS is also a requirement for laboratories seeking accreditation to ISO standards.

The range of EQA services offered by the UK NEQAS consortium has grown significantly as clinical laboratory science has evolved. When UK NEQAS was initiated 50 years ago there were only 2 centres providing such a service (Haematology and Clinical Chemistry). Now there are over 20 centres, covering areas of expertise such as reproductive science, cellular pathology, clinical chemistry, genetics, haematology, immunology and microbiology. The EQA programmes operated by UK NEQAS are a mixture of qualitative, quantitative and interpretative programmes but all are operated on a not-for-profit basis and are designed to educate participants rather than be punitive. In addition, the programmes are open to all laboratory types: clinical, research and industrial, and they are available worldwide producing what is probably the biggest EQA network in the world.

The UK NEQAS Consortium is a not-for-profit company limited by guarantee and a UK Registered Charity. At UK NEQAS we believe that the services we provide, whilst tested in the laboratory, are to improve patient care.

Consequently, we believe that we have an obligation not just to our participants but to patients, to ensure that our services are of the highest quality and are fit for purpose. Therefore, all members of the UK NEQAS consortium are committed to:

- provide EQA services that are:
 - Appropriate to clinical practice
 - Responsive to laboratory needs
 - ISO 17043 accredited
- support education of clinical laboratory scientists and related staff
- provide laboratories with information on the relative performance of different methods
- assist laboratories to achieve good EQA performance
- support laboratories in attaining ISO 15189 accreditation
- present findings of EQA programmes at national and international conferences
- publish findings from EQA programmes in international peer reviewed journals
- collaborate with international bodies and groups

We are proud of the EQA programmes we operate and of how our organisation has grown since its inception 50 years ago. We are excited about continuing to work closely with laboratories over the next 50 years to develop the next generation of innovative and responsive EQA programmes that will be needed as medicine and clinical laboratory science advance.

Thank you for your support of UK NEQAS and we look forward to working with you in the future.



Liam Whitby, President

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Cellular Pathology

Cellular Pathology Technique	
Tel	+44 (0) 191 445 2719
Email	cpt@ukneqas.org.uk
Legal entity:	
LabXCell LTD	
Services available:	
General Cellular Pathology (Routine Histopathology)	
Bone Marrow Trepchine Biopsy	
Companion Schemes (Frozen Sections and Mega Blocks)	
Diagnostic Non Gynaecological Cytology	
Direct Immunofluorescence (DIF)*	
Interpretative Non Gynaecological Cytology*	
Mohs' Procedure	
Muscle Histochemistry	
Neuropathology	
Renal Biopsy Pathology	
Transmission Electron Microscopy (TEM)	
Head & Neck Pathology	
Tel	+44 (0) 121 371 5723
Email	neckpath@ukneqas.org.uk
Immunocytochemistry & In-Situ Hybridisation	
Tel	+44 (0) 207 415 7065
Email	info@ukneqasiccish.org
Legal entity:	
External Quality Assessment Services for Cancer Diagnostics CIC	
Services available:	
Immunocytochemistry Modules	
General Pathology	
Breast Pathology - Hormonal Receptors	
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*	
In-Situ Hybridisation Modules:	
Breast (HER2 ISH - Interpretive)	
Breast (HER2 ISH - Technical)	
NSCLC/ROS1 ISH*	

*Pilot Schemes

Cellular Pathology

UK National Breast Pathology Interpretive External Assurance Scheme	
Tel	+44 (0) 115 969 1169 (ext 56875)
Email	breastscreen@ukneqas.org.uk
Legal entity:	
Nottingham University Hospitals NHS Trust	
UK National BNS Neuropathology Interpretive EQA Scheme	
Tel	+44 (0) 1865 234 904
Email	neuropath@ukneqas.org.uk
Legal entity:	
Oxford University Hospitals NHS Foundation Trust	

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 Panel	
Clinical Chemistry	
Colorectal Cancer Screening	
Erythropoietin	
Faecal Pancreatic Elastase	
Faecal Haemoglobin	
Faecal Markers	
FOB Test for Colorectal Cancer Screening	
Fructosamine	
GFR Estimations	
Glycated Haemoglobins	
Haematinic Assays	

For accreditation status please refer to www.ukas.com

Clinical Chemistry

Birmingham Quality (contd)	
Holotranscobalamin	
Immunosuppressants	
Interpretative Comments in Clinical Chemistry	
Intrinsic Factor Antibodies	
Lipid Investigations	
Monthly Clinical Chemistry #	
Newborn Screening	
Paediatric Bilirubin	
PREPQ - Pre and Post Analytical Quality Monitoring: a pan-UK NEQAS Scheme	
Quantitative Amino Acids	
Serum Indices (HIL)	
Specific Proteins	
Steroid Hormones	
Sweat Testing	
Thyroglobulin	
Thyroid Hormones	
Toxicology and Therapeutic Drug Monitoring	
Urinary Catecholamines & Metabolites	
Urine Chemistries	
Urine Dipsticks	
Vitamin Assays	
Vitamin D	
Cardiac Markers	
Tel	+44 (0) 141 354 9039
Email	cardiac@ukneqas.org.uk
Legal entity:	
NHS Greater Glasgow & Clyde	
Services Available:	
Laboratory and Point of Care	
BNP	
Cardiac Troponin I (including high sensitivity methods)	
Cardiac Troponin T	
CKMB	
Myoglobin	
NT-proBNP	
Edinburgh Peptide Hormones	
Tel	+44 (0) 131 242 6885
Email	ukneqas@ed.ac.uk
Legal entity:	
NHS Lothian	
Services available:	
Maternal Serum Screening Schemes	
1st Trimester (Down's syndrome and Trisomies T13 and T18)	

*Pilot Schemes

For accreditation status please refer to www.ukas.com

Clinical Chemistry

Edinburgh Peptide Hormones (contd)	
1st Trimester (Down's syndrome screening in dried blood spots)*	
2nd Trimester (Down's syndrome)	
2nd Trimester (Neural tube defects)	
Placental Growth Factor (PLGF) (Down's syndrome and pre-eclampsia)*	
Peptide I Schemes	
FSH, LH, AMH, Prolactin and Growth Hormone	
Peptide II Schemes	
PTH, ACTH and Calcitonin	
Pregnancy Testing Scheme	
Urinary hCG (Qualitative and Quantitative)	
Tumour Marker Schemes	
AFP, CEA and hCG	
Liver Fibrosis Markers*	
Type III Procollagen Peptide (PIIINP) Hyaluronic acid	
Tissue inhibitor of metalloproteinase I (TIMP-I)	
Enhanced Liver Fibrosis Score (ELF)	
Guildford Peptide Hormones	
Tel	+44 (0) 1483 689 022
Email	insulin@ukneqas.org.uk
Legal entity:	
Frimley Health NHS Foundation Trust	
Services available:	
C-Peptide	
Gastrin	
Insulin	
Insulin-like Growth Factor Binding Protein-3	
Insulin-like Growth Factor-1	
Trace Elements	
Tel	+44 (0) 1483 689 022
Email	trace@ukneqas.org.uk
Legal entity:	
Frimley Health NHS Foundation Trust	
Services available:	
Aluminium in Water (Educational)	
Serum Trace Elements	
Solid Matrix (Educational)	
Whole Blood Trace Elements	
Urine Trace Elements	

#Non-UK only

Haematology

Blood Coagulation	
Tel	+44 (0) 114 267 3300
Email	coag@ukneqas.org.uk
Legal entity:	
Sheffield Teaching Hospitals NHS Foundation Trust	
Services available:	
Blood Coagulation	
Screening Tests (Level 1)	
Activated Partial Thromboplastin Time (APTT)	
D-Dimer Assay	
Fibrinogen (Clauss method)	
Heparin Assay (HA)	
Heparin Dosage Assessment (HDA)	
Lupus Anticoagulant	
Prothrombin Time (PT)/INR (Quick/capillary methods)	
Prothrombin Time for diagnosis	
Thrombin Time (TT)	
Assays (Level 2)	
Activated Protein C resistance Assay	
Antithrombin Antigen and Activity Assays	
Factor II, V, VII, VIII, IX, X, XI, XII Assays	
Factor XIII Screen/Assay	
Plasminogen Assay	
Protein C Antigen and Activity Assays	
Protein S Activity Assay	
Protein S Total and Free Antigen Assay	
Quantitative Factor VIII Inhibitor	
Von Willebrand factor antigen Assay	
VWF:CB (collagen-binding) Assay	
VWF:RCO (activity) Assay	
Other Tests	
ADAMTS13 Assays*	
Direct Oral Anticoagulant (DOAC) Assay	
Factor V Leiden/Molecular Genetics of Thrombophilia Testing	
Genetics of Heritable Bleeding Disorders EQA Programme	
Plasma Homocysteine	
Point of Care/Near Patient Testing	
Activated Clotting Time (ACT)	
CoaguChek XS, CoaguChek XS Plus, CoaguChek XS Pro & Pro II	
Hemochron Junior Signature - (INR for non-citrated test cuvettes)	
i-STAT (PT/INR)	
POCT D-dimer	
Thromboelastometry and Thromboelastography	
Xprecia Stride (PT/INR)	

*Pilot Schemes

Haematology

Blood Transfusion Laboratory Practice (BTLP)	
Tel	+44 (0) 1923 217 933
Email	btlp@ukneqas.org.uk
Legal entity:	
West Hertfordshire Hospitals NHS Trust	
Services available:	
Pre-Transfusion Testing (PTT)	
Blood Grouping (ABO/D)	
Red Cell Antibody Screening	
Crossmatching	
Identification of Red Cell Antibodies	
Red Cell Phenotyping	
Fetomaternal Haemorrhage (FMH)	
FMH Screening and/or Quantification	
Other Schemes	
ABO Titration	
Red Cell Genotyping*	
Extended Red Cell Phenotyping*	
Antenatal Antibody Titration*	
Direct Antiglobulin Test (DAT)*	
Other Services (Supplementary to EQA)	
Training, Assessment and Competency Tool (TACT) Transfusion	
Haematology	
Tel	+44 (0) 1923 217 878
Email	haem@ukneqas.org.uk
Legal entity	
West Hertfordshire Hospitals NHS Trust	
Services available:	
Automated Counting & Related Schemes	
Automated Differential Leucocyte Count	
ESR	
Full Blood Count	
Hb only	
NRBC Count (Sysmex analysers) (Not accredited)	
Plasma Viscosity	
Reticulocyte Count	
Glandular Fever Screen*	
Morphology Related Schemes	
Blood Films for Morphology, Manual Differential and Parasite Identification	
Cytochemistry	
Digital Morphology for CPD	
Malaria Rapid Diagnostic Testing (Haematology)	

For accreditation status please refer to www.ukas.com

Haematology

Haematology (contd)	
Haemoglobinopathy Schemes	
Abnormal Haemoglobins Hb A2/Hb F & Hb S	
DNA Diagnostics for Haemoglobinopathies	
Newborn Haemoglobinopathy Screening (liquid blood)	
Newborn Sickle Screening (dried blood spot)	
Sickle Solubility Screening	
Red Cell Enzyme Schemes	
G6PD screen and assay	
PK assay*	
Leucocyte Immunophenotyping	
Tel	+44 (0) 114 267 3600
Email	lip@ukneqas.org.uk
Legal entity	
Sheffield Teaching Hospitals NHS Foundation Trust	
Services available:	
Flow Cytometry Programmes	
CD34+ Stem Cell Enumeration	
Cerebrospinal Fluid (CSF) Immunophenotyping (Not accredited)	
Haematological Malignancy Bone Marrow Aspirate Assessment (Not accredited)	
Immune Monitoring	
Immune Monitoring (Alternative Technologies)	
Leukaemia Immunophenotyping and Diagnostic Interpretation	
Leukaemia Diagnostic Interpretation - Institute (Not accredited)	
Leukaemia Diagnostic Interpretation - Individual (Not accredited)	
Low Level Leucocyte Enumeration	
Minimal Residual Disease for ALL by Flow Cytometry (Not accredited)	
Minimal Residual Disease for AML by Flow Cytometry (Not accredited)	
Minimal Residual Disease for CLL by Flow Cytometry (Not accredited)	
Minimal Residual Disease for Plasma Cell Myeloma by Flow Cytometry (Not accredited)	
Paroxysmal Nocturnal Haemoglobinuria	

*Pilot Schemes

For accreditation status please refer to www.ukas.com

Haematology

Leucocyte Immunophenotyping (contd)	
Molecular Programmes	
Acute Myeloid Leukaemia and Myelodysplastic Syndrome Gene Panels (Not accredited)	
BCR-ABL1 Kinase Domain Mutation Status (Not accredited)	
BCR-ABL1 Major Quantification	
BCR-ABL1 Minor Quantification (Not accredited)	
BCR-ABL1 and AML Translocation Identification	
BRAF p.Val600Glu (V600E) Mutation Status for Hairy Cell Leukaemia	
Chronic Lymphocytic Leukaemia Gene Panels (Not accredited)	
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 (Not accredited)	
Myeloproliferative Neoplasms Gene Panels (Not accredited)	
NPM1 Mutation Status	
Paediatric Acute Leukaemia Translocations	
Post-Stem Cell Transplant Chimerism Monitoring	
Vitamin K	
Tel	+44 (0) 207 188 6815
Email	keqas@ukneqas.org.uk
Legal entity	
Viapath Services LLP	
Services available:	
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*	

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 and Haemochromatosis	
Interpretative HLA Genotype	
KIR Genotyping	
HPA Antibody Detection/Specification	
Immunology, Immunochemistry & Allergy	
Tel	+44 (0) 114 271 5715
Email	immunology@ukneqas.org.uk
Legal entity:	
Sheffield Teaching Hospitals NHS Foundation Trust	
Services available:	
Autoimmunity	
Acetylcholine Receptor Antibodies	
Anaemia Related Antibodies	
ANCA/GBM Antibodies	
Bullous Dermatitis Antibodies	
Citruillinated Proteins	
Coeliac Disease Antibodies	
Diabetic Markers	
Ganglioside Antibody	
Interferon Gamma Release Assays	
Liver Antibodies	
Myositis Associated Antibodies*	
Nuclear Antibodies DNA/ANA	

*Pilot Schemes

Immunology

Immunology, Immunochemistry & Allergy (contd)	
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)	
Allergy and Immunodeficiency	
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	
Immunochemistry	
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	
CSF Proteins and Biochemistry	
Oncology	
Breast markers – CA153	
Chromogranin A	
Gut markers – CA199	
Lung markers – NSE	
Monoclonal Protein Identification	
Ovarian markers – CA125	
PSA free	
PSA total	
Point of Care Testing	
C-Reactive Protein	
Digital EQA	
Cryoglobulins (image based)	
Interpretative EQA (iEQA)	

For accreditation status please refer to www.ukas.com

Medical Microbiology

Microbiology	
Tel	+44 (0) 208 905 9890
Email	organiser@ukneqasmicro.org.uk
Legal entity:	
Public Health England	
Services available:	
Bacteriology Schemes	
AAFB Microscopy	
Antimicrobial Susceptibility	
Bacterial Identification	
Clostridium Difficile	
Community Medicine	
Faecal Pathogens	
General Bacteriology incl. Antimicrobial Susceptibility	
General Bacteriology Identification	
Genital Pathogens	
MRSA Screening	
Mycobacteria Culture	
Urinary Antigens	
Molecular Schemes	
<i>C. trachomatis</i> and <i>N. gonorrhoeae</i>	
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	
Viral Gastroenteritis – suitable for antigen testing too.	
Virus Identification – suitable for conventional methodologies too.	
Mycology Schemes	
Antifungal Susceptibility	
Mycology	
Cryptococcal Antigen Detection	
Fungal Biomarkers	
Mycology Teaching Workshop (one day)	

*Pilot Schemes

For accreditation status please refer to www.ukas.com

Medical Microbiology

Microbiology (contd)	
Virus Serology Schemes	
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	
Syphilis Serology	
Interpretative Comments	
Parasitology	
Tel	+44 (0) 203 908 1371
Email	parasite@ukneqas.org.uk
Legal entity:	
Public Health England	
Services available:	
Malaria Rapid	
Molecular Detection of Malaria	
Parasite Serology	
Toxoplasma IgG, IgM and Avidity Serology	
Faecal Molecular*	
Toxoplasma Molecular*	
Other Services (Supplementary to EQA)	
Blood and Faecal Parasitology Teaching Courses	

Other Specialities

Genomics	
Tel	Oxford Office: +44 (0) 186 585 7644 Edinburgh Office: +44 (0)131 242 6898
Email	info@genqa.org
Legal entity:	
Oxford University Hospitals NHS Foundation Trust/ NHS Lothian	
Services available:	
Core Molecular Testing	
Achondroplasia (Skeletal Dysplasias)	
Angelman Syndrome (Imprinting Disorders)	
Arrhythmias	
Ataxias and Spastic Paraplegia	
Becker Muscular Dystrophy (BMD)	
Beckwith Wiedemann Syndrome (BWS) (Imprinting Disorders)	
Breast & Ovarian Cancer syndromes (Hereditary inc.Cowden, Li-Fraumeni, Peutz-Jungner syndromes)	
Cardiomyopathies	
Charcot-Marie-Tooth – neuropathy type 1A & Hereditary neuropathy with liability to pressure palsies (CMT1A & HNPP)	
Cystic Fibrosis	
Dementia/Amyotrophic lateral sclerosis	
Duchenne Muscular Dystrophy (DMD)	
Fabry Disease	
Familial Adenomatous polyposis (FAP)	
Familial Hypercholesterolaemia (FH)	
Fragile X Syndrome and <i>FMR1</i> related disorders	
Friedreich Ataxia (Ataxia)	
Frontotemporal Dementia (Dementia/ALS)	
Huntington Disease (HD)	
Long QT Syndrome (Arrhythmia & Cardiomyopathies)	
Lynch Syndrome	
Medium Chain acyl-CoA Dehydrogenase Deficiency (MCADD)	
Mitochondrial Diseases	
Multiple Endocrine Neoplasia (Pheochromocytoma and Paranglioma Disorders)	
MUYTH-associated polyposis (MAP)	
Myotonic Dystrophy type 1 (Hypotonic Infant)	
Neurofibromatosis types 1 and 2	
Osteogenesis Imperfecta	
Pathogenicity of sequence variants	
Pheochromocytoma and Paranglioma Disorders	
POLG	
Polyposis syndromes (FAP and MAP)	
Prader-Willi Syndrome (Hypotonic Infant)	

Other Specialities

Genomics (contd)
Retinal Disorders
Schwannomatosis
Skeletal Dysplasias
Spastic Paraplegia, Hereditary (Ataxia)
Spinal Muscular Atrophy (Hypotonic Infant)
Spinocerebellar Ataxias (Ataxia)
Thanatophoric Dysplasia (Skeletal Dysplasias)
Variant Validation
Von Hippel-Lindau Disease (Pheochromocytoma and Paranglioma Disorders)
X-inactivation
Clinical Genetics
Cardiovascular Genetics
Dysmorphology
Monogenic Disorders
Oncogenetics
Constitutional Postnatal
Blood – Postnatal
Chromosome Breakage Syndromes*
IPS stem cells exploratory*
Postnatal constitutional CNV detection (previously Constitutional microarray analysis – postnatal sample) (provided in collaboration with EMQN)
Severe developmental delay case scenario*
Haematology
Acquired Array (CLL/MDS)
Acute Leukaemia FISH*
Acute Lymphoblastic Leukaemia (ALL)
Hereditary Leukaemia*
Lymphoma (FFPE)
Mature B&T Cell Neoplasms (G-banded)
Mature B&T Cell Neoplasms (FISH for CLL and Lymphoma)
Myeloid – (AML/MDS/CML)
Myeloma (sample plus online)
Sex Chimerism (FISH)*

Other Specialities

Genomics (contd)
Molecular Pathology
Additional Lung Cancer biomarkers
BRAF/MLH1 promotor methylation analysis for mismatch repair analysis
BRCA germline testing in ovarian cancer (provided in collaboration with EMQN)
BRCA somatic testing in ovarian cancer (provided in collaboration with EMQN)
CNS Tumours (central nervous system) –Molecular analysis for 1p/19q co-deletion, MGMT promoter methylation and IDH1 and IDH2 testing
Sarcoma testing
Testing of circulating free DNA in plasma for lung cancer
Microsatellite Instability testing
Molecular Analysis in Colorectal Cancer (2 distributions)
Molecular Analysis in Lung Cancer (2 distributions)
Molecular Analysis in Melanoma (2 distributions)
Molecular Analysis of Gastro-Intestinal Stromal Tumours
Molecular Testing for Tissue Identification
Neuroblastoma* (array and FISH)
Molecular Testing of Blood Spot Cards
Newborn Screening: Molecular testing for Cystic Fibrosis on Blood Spots
Newborn Screening: Molecular testing for MCADD on Blood Spots
Prenatal Testing
Amniotic Fluid
Chorionic Villus – CVS
Maternal Cell Contamination & Sexing
Molecular Rapid Aneuploidy (MRA)
Non-invasive Prenatal testing for common aneuploidies* (provided in collaboration with EMQN)
Non-invasive Prenatal testing for common microdeletions*
Non-invasive Prenatal testing for sex determination* (provided in collaboration with EMQN)
Prenatal constitutional CNV detection (previously Prenatal microarray)
Products of Conception/Fetal tissue (G-banded)
Products of Conception/Fetal tissue (Molecular methods)
Rapid Prenatal Aneuploidy FISH

Other Specialities

Genomics (contd)	
Preimplantation Genetic Testing	
Preimplantation Genetic Testing for Blastomere FISH (PGT-SR) (Stage 1 & 2)	
Preimplantation Genetic Testing of Polar Bodies (PGT-A & SR) by NGS and/or array	
Preimplantation Genetic Testing (PGT-A) of Sperm for aneuploidy by FISH	
Preimplantation Genetic Testing (PGT-A) of Trophectoderm and/or Blastomere for aneuploidies by NGS and/or arrays	
Preimplantation Genetic Testing (PGT-M) Trophectoderm and/or Blastomere testing for monogenic disorders (Stages 1 & 2)	
Preimplantation Genetic Testing (PGT-SR) of Blastomere/Trophectoderm for chromosomal rearrangements by NGS and/or arrays	
Technical	
DNA extraction from blood samples	
DNA extraction from FFPE tissue samples	
DNA extraction from fresh/frozen tissue samples	
DNA extraction from saliva samples EQA scheme	
DNA quantification	
Next Generation Sequencing for inherited disorders*	
Next Generation Sequencing for somatic testing*	
Individual Competency Assessment	
BRCA variant interpretation (provided in collaboration with EMQN)	
Copy Number Variant (CNV) classification*	
Genetics-Training and Competency Tool (G-TACT)	
Haematology Malignancies variant classification*	
Single nucleotide variant (SNV) interpretation*	
Tissue-I –online tissue assessment EQA module	
Reproductive Science	
Tel	+44 (0) 161 276 6437
Email	repscience@ukneqas.org.uk
Legal entity:	
Manchester University NHS Foundation Trust	
Services available:	
Andrology	
Sperm concentration and sperm morphology (practical)	
Sperm motility and interpretive sperm morphology (online)	
Embryology	
Embryo Morphology (online)	

*Pilot Schemes

*Pilot Schemes

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Allergy	8
Alpha 1 Antitrypsin and Phenotype Identification	8
Aluminium in Water (Educational)	5
AMH	5
Amniotic Fluid	11
Anaemia Related Antibodies	8
ANCA/GBM Antibodies	8
Angelman Syndrome (Imprinting Disorders)	10
Antenatal antibody titration*	6
Anti-HBs Detection	9
Antibiotic Assays	4
Antifungal Panel	4
Antifungal Susceptibility	9
Antimicrobial Susceptibility	9
Antithrombin Antigen and Activity Assays	6
Arrhythmias	10
Ataxias and Spastic Paraplegia	10
Autoimmunity	8
Automated Counting and Related Schemes	6

Automated Differential Leucocyte Count	6
Avian Antibodies	8
B	
B2 Microglobulin	8
Bacterial Identification	9
Bacteriology Schemes	9
BCR-ABL1 and AML Translocation Identification	7
BCR-ABL1 Kinase Domain Mutation Status (Not accredited)	7
BCR-ABL1 Major Quantification	7
BCR-ABL1 Minor Quantification (Not accredited)	7
Becker Muscular Dystrophy (BMD)	10
Beckwith Wiedemann Syndrome (BWS) (Imprinting Disorders)	10
Blood Borne viruses	9
Blood Coagulation	6
Blood Donor Screen	9
Blood Films for Morphology, Manual Differential and Parasite Identification	6
Blood grouping (ABO/D)	6
Blood and Faecal Parasitology Teaching Courses	9
Blood - Postnatal	10
BNP	5
Bone Marrow Trepchine Biopsy	4
BRAF p.Val600Glu (V600E) Mutation Status for Hairy Cell Leukaemia	7
BRAF/MLH1 promotor methylation analysis for mismatch repair analysis	11
BRCA germline testing in ovarian cancer (provided in collaboration with EMQN)	11
BRCA somatic testing in ovarian cancer (provided in collaboration with EMQN)	11
BRCA variant interpretation (provided in collaboration with EMQN)	11
Breast & Ovarian Cancer Syndromes (Hereditary inc.Cowden, Li-Fraumeni, Peutz-Junger syndromes)	10
Breast (HER2 ISH - Interpretive)	4
Breast (HER2 ISH - Technical)	4
Breast Markers - CA153	8
Breast Pathology - HER2 IHC	4
Breast Pathology - Hormonal Receptors	4
Bullous Dermatitis Antibodies	8
C	
C-Peptide	5
C-Reactive Protein	8
C. trachomatis and N. gonorrhoeae	9
C1 Inhibitor & Functional Complement	8
Calcitonin	5
Cardiac Troponin I (including high sensitivity methods)	5
Cardiac Troponin T	5
Cardiovascular Genetics	10

Cardiomyopathies	10
CD34+ Stem Cell Enumeration	7
CEA	5
Cerebrospinal Fluid (CSF) Immunophenotyping (Not accredited)	7
Charcot-Marie-Tooth – neuropathy type 1A & Hereditary neuropathy with liability to pressure palsies (CMT1A & HNPP)	10
Chorionic Villus – CVS	11
Chromogranin A	8
Chromosome Breakage Syndromes*	10
Chronic Lymphocytic Leukaemia Gene Panels (Not accredited)	7
Citrullinated Proteins	8
CKMB	5
Clinical Chemistry	4-5
Clostridium Difficile	9
CMV DNA quantification	9
CNS Tumours (central nervous system) – Molecular analysis for 1p/19q co-deletion, MGMT promoter methylation and IDH1 and IDH2 testing	11
CoaguChek XS, CoaguChek XS Plus, CoaguChek XS Pro & Pro II	6
Celiac Disease Antibodies	8
Colorectal Cancer Screening	4
Community Medicine	9
Companion Schemes (Frozen Sections and Mega Blocks)	4
Copy Number Variant (CNV) classification*	11
Crossmatching	6
Crossmatching by Flow Cytometry	8
CRP Ultrasensitive Assays	8
Cryoglobulins (image based)	8
Cryptococcal Antigen Detection	9
CSF Haem Pigments	8
CSF IgG Oligoclonal Bands	8
CSF Proteins and Biochemistry	8
CSF β2 Trace Protein	8
CSF β2 Transferrin	8
Cystic Fibrosis	10
Cytochemistry	6
Cytopathology	4
Cytotoxic Crossmatching	8
D	
D-Dimer Assay	6
Dementia/Amyotrophic lateral sclerosis	10
Diabetic Markers	8
Diagnostic Non Gynaecological Cytology	4
Diagnostic Serology: Hepatitis Screen	9
Digital EQA	8

Digital Morphology for CPD	6
Direct Antiglobulin Test (DAT)*	6
Direct Immunofluorescence (DIF)*	4
Direct Oral Anticoagulant (DOAC) Assay	6
DNA Diagnostics for Haemoglobinopathies	7
DNA extraction from blood samples	11
DNA extraction from FFPE tissue samples	11
DNA extraction from fresh/frozen tissue samples	11
DNA extraction from saliva samples EQA scheme	11
Duchenne Muscular Dystrophy (DMD)	10
Dysmorphology	10
E	
EBV DNA quantification	9
Educational Crossmatch (EDXM) – Combined Crossmatch/HLA Type/Antibody Analysis	8
Educational (ED) - HLA Typing	8
Educational (IED) - Interpretive clinical scenarios	8
Embryo Morphology (online)	11
Enhanced Liver Fibrosis Score (ELF)	5
Erythropoietin	4
ESR	6
Extended Red Cell Phenotyping*	6
F	
Fabry Disease	10
Factor II, V, VII, VIII, IX, X, XI, XII Assays	6
Factor V Leiden/Molecular Genetics of Thrombophilia Testing	6
Factor XIII Screen/Assay	6
Faecal Haemoglobin	4
Faecal Markers	4
Faecal Molecular*	9
Faecal Pancreatic Elastase	4
Faecal Pathogens	9
Familial Adenomatous Polyposis (FAP)	10
Familial Hypercholesterolaemia (FH)	10
Fetomaternal Haemorrhage (FMH)	6
Fibrinogen (Clauss method)	6
Flow Cytometry Programmes	7
FLT3 Mutation Status	7
FMH Screening and/or Quantification	6
FOB Test for Colorectal Cancer Screening	4
Fragile X Syndrome and <i>FMRT1</i> related disorders	10
Friedreich Ataxia (Ataxia)	10
Frontotemporal Dementia (Dementia/ALS)	10
Fructosamine	4
FSH, LH, AMH Prolactin Growth Hormone	5
Full Blood Count	6

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Fungal Antibodies	8
Fungal Biomarkers	9
G	
G6PD screen and assay	7
Ganglioside Antibody	8
Gastric HER2 IHC	4
Gastrin	5
General Bacteriology Identification	9
General Bacteriology incl. Antimicrobial Susceptibility	9
General Cellular Pathology (Routine Histopathology)	4
General Pathology	4
Genetics of Heritable Bleeding Disorders EQA Programme	6
Genetics-Training and Competency Tool (G-TACT)	11
Genital Pathogens	9
GFR Estimations	4
Glandular Fever Screen*	6
Glycated Haemoglobins	4
Growth Hormone	5
Gut markers - CA199	8
H	
H. Influenzae Antibodies	8
Haematinic Assays	4
Haematological Malignancy Bone Marrow Aspirate Assessment (Not accredited)	7
Haematology Malignancies variant classification*	11
Haemoglobinopathy Schemes	7
Hb only	6
HBV DNA quantification	9
hCG	5
Hemochron Junior Signature - (INR for non-citrated test cuvettes)	6
Heparin Assay (HA)	6
Heparin Dosage Assessment (HDA)	6
Hepatitis B Serology	9
Hepatitis C RNA Detection	9
Hepatitis C Serology	9
Hepatitis E Serology	9
Hereditary Leukaemia*	10
HFE Typing	8
HIV Point of Care	9
HIV Serology	9
HIV1 RNA quantification	9
HLA Antibody Detection	8
HLA Antibody Specificity Analysis	8
HLA Phenotyping	8
HLA Typing at 1st Field Resolution	8
HLA Typing for Coeliac and other HLA Associated Diseases	8

HLA Typing to 2nd or 3rd Field Resolution	8
HLA-B*57:01 Typing for Drug Hypersensitivity	8
HLA-B27 Testing	8
Holotranscobalamin	5
HPA Antibody Detection/Specification	8
HPA Genotyping	8
Huntington Disease	10
I	
i-STAT (PT/INR)	6
Identification of red cell antibodies	6
IgG Subclasses	8
IgH/TCR Clonality Status	7
Immune Monitoring	7
Immune Monitoring (Alternative Technologies)	7
Immunity screen	9
Immunochemistry	8
Immunosuppressants	5
Insulin	5
Insulin-like Growth Factor Binding Protein-3	5
Insulin-like Growth Factor-1	5
Interferon Gamma Release Assays	8
Interpretative Comments	9
Interpretative Comments in Clinical Chemistry	5
Interpretative EQA (IEQA)	8
Interpretative HLA Genotype	8
Interpretative: HFE Genotype and Hereditary and Haemochromatosis	8
Interpretive Non Gynaecological Cytology*	4
Interpretive sperm morphology (online)	11
Intrinsic Factor Antibodies	5
IPS stem cells exploratory*	10
J	
JAK2 p.Val617Phe (V617F) Mutation Status	7
K	
KIR Genotyping	8
KIT p.Asp816Val (D816V) Mutation Status for Mast Cell Disease	7
L	
Laboratory and Point of Care	5
Leukaemia Diagnostic Interpretation - Individual (Not accredited)	7
Leukaemia Diagnostic Interpretation - Institute (Not accredited)	7
Leukaemia Immunophenotyping and Diagnostic Interpretation	7
LH	5
Lipid Investigations	5
Liver Antibodies	8

Liver Fibrosis Markers*	5
Long QT Syndrome (Arrhythmia & Cardiomyopathies)	10
Low Level Leucocyte Enumeration	7
Lung markers - NSE	8
Lupus Anticoagulant	6
Lymphoid Pathology	4
Lymphoma (FFPE)	10
Lymphoplasmacytic Lymphoma/Waldenström Macroglobulinaemia (Not accredited)	7
Lynch Syndrome	10
M	
Malaria Rapid	9
Malaria Rapid Diagnostic Testing (Haematology)	6
Maternal Cell Contamination & Sexing	11
Maternal Serum Screening Schemes	5
Mature B&T Cell Neoplasms (FISH for CLL and Lymphoma)	10
Mature B&T Cell Neoplasms (G-banded)	10
Measles and Mumps IgG Serology	9
Medium Chain acyl-CoA Dehydrogenase Deficiency (MCADD)	10
Microsatellite Instability testing	11
Minimal Residual Disease for ALL by Flow Cytometry	7
Minimal Residual Disease for AML by Flow Cytometry (Not accredited)	7
Minimal Residual Disease for CLL by Flow Cytometry (Not accredited)	7
Minimal Residual Disease for Plasma Cell Myeloma by Flow Cytometry (Not accredited)	7
Mismatch Repair (MMR) Proteins	4
Mitochondrial Diseases	10
Mk-4 at endogenous concentrations in human serum*	7
Mk-7 at endogenous concentrations in human serum*	7
Mohs' Procedure	4
Molecular Analysis in Colorectal Cancer (2 distributions)	11
Molecular Analysis in Lung Cancer (2 distributions)	11
Molecular Analysis in Melanoma (2 distributions)	11
Molecular Analysis of Gastro-Intestinal Stromal Tumours	11
Molecular Detection of Mycobacteria	9
Molecular Detection of HPV	9
Molecular Detection of HEV RNA	9
Molecular Detection of Malaria	9
Molecular Detection of Respiratory Viruses	9
Molecular Detection of Viruses in CSF	9
Molecular Programmes	7
Molecular Rapid Aneuploidy (MRA)	11
Molecular Schemes	9
Molecular Testing for Tissue Identification	11
Molecular Testing of Blood spot cards	11

Monoclonal Protein Identification	8
Monogenic Disorders	10
Monthly Clinical Chemistry #	5
Morphology Related Schemes	6
MRSA Screening	9
Multiple Endocrine Neoplasia (Pheochromocytoma and Paraganglioma Disorders)	10
Muscle Histochemistry	4
MUYTH-associated polyposis (MAP)	10
Myeloproliferative Neoplasms Gene Panels (Not accredited)	7
Mycobacteria Culture	9
Mycology	9
Mycology Schemes	9
Mycology Teaching Workshop (one day)	9
Myeloid - (AML/MDS/CML)	10
Myeloma (sample plus online)	10
Myoglobin	5
Myositis Associated Antibodies*	8
Myotonic Dystrophy type 1 (Hypotonic Infant)	10
N	
Neuroblastoma* (array and FISH)	11
Neurofibromatosis types 1 and 2	10
Neuropathology	4
Newborn Haemoglobinopathy Screening (liquid blood)	7
Newborn Screening	5
Newborn Screening: Molecular Testing for Cystic Fibrosis on Blood Spots	11
Newborn Screening: Molecular Testing for MCADD on Blood Spots	11
Newborn Sickle Screening (dried blood spot)	7
Next Generation Sequencing for inherited disorders*	11
Next Generation Sequencing for somatic testing*	11
Non-invasive Prenatal testing for common aneuploidies* (provided in collaboration with EMQN)	11
Non-invasive Prenatal testing for common microdeletions*	11
Non-invasive Prenatal testing for sex determination* (provided in collaboration with EMQN)	11
NFPM1 Mutation Status	7
NRBC Count (Sysmex analysers) (Not accredited)	6
NSCLC ALK IHC	4
NSCLC PD-L1-IHC*	4
NSCLC/ROS1 ISH*	4
NT-proBNP	5
Nuclear Antibodies DNA/ANA	8
Nuclear Antibodies DNA/ANA/ENA	8
O	
Oncogenetics	10
Oncology	8

*Pilot Schemes

*Pilot Schemes

#Non-UK only

Osteogenesis Imperfecta	10
Ovarian markers - CA125	8
P	
Paediatric Acute Leukaemia Translocations	7
Paediatric Bilirubin	5
Paraneoplastic Antibodies	8
Parasite Serology	9
Paroxysmal Nocturnal Haemoglobinuria	7
Parvovirus B19 and Rubella Serology	9
Pathogenicity of sequence variants	10
Peptide I Schemes	5
Peptide II Schemes	5
Phaeochromocytoma and Paraganglioma Disorders	10
Phospholipase A2 Receptor Antibodies (PLA2R) *	
Phospholipid Antibodies	8
PK assay*	7
Placental Growth Factor (PLGF) (Down's syndrome and pre-eclampsia)*	5
Plasma Homocysteine	6
Plasma Viscosity	6
Plasminogen Assay	6
Pneumococcal Antibodies	8
POCT D-dimer	6
Point of Care/Near Patient Testing	6,8
POLG	10
Polyposis syndromes (FAP and MAP)	10
Post-Stem Cell Transplant Chimerism Monitoring	7
Postnatal constitutional CNV detection (previously Constitutional microarray analysis – postnatal sample) (provided in collaboration with EMQN)	10
Prader-Willi Syndrome (Hypotonic Infant)	10
Pre-Transfusion Testing (PTT)	6
Pregnancy Testing scheme	5
Preimplantation Genetic Testing for Blastomere FISH (PGT-SR) (Stage 1 & 2)	11
Preimplantation Genetic Testing of Polar Bodies (PGT-A & SR) by NGS and/or array	11
Preimplantation Genetic Testing (PGT-A) of Sperm for aneuploidy by FISH	11
Preimplantation Genetic Testing (PGT-A) of Trophoctoderm and/or Blastomere for aneuploidies by NGS and/or arrays	11
Preimplantation Genetic Testing (PGT-M) Trophoctoderm and/or Blastomere testing for monogenic disorders (Stages 1 & 2)	11
Preimplantation Genetic Testing (PGT-SR) of Blastomere/ Trophoctoderm for chromosomal rearrangements by NGS and/or arrays	11
Prenatal constitutional CNV detection (previously Prenatal microarray)	11
PREPQ – Pre and Post Analytical Quality Monitoring: a pan-UK NEQAS Scheme	5
Products of Conception/Fetal Tissue (G-banded)	11

Products of Conception/Fetal Tissue (Molecular methods)	11
Prolactin	5
Protein C Antigen and Activity Assays	6
Protein S Activity Assay	6
Protein S Total and Free Antigen Assay	6
Prothrombin Time (PT)/INR (Quick/capillary methods)	6
Prothrombin Time for diagnosis	6
PSA free	8
PSA total	8
Q	
Quantitative Amino Acids	5
Quantitative Factor VIII Inhibitor	6
R	
Rapid Prenatal Aneuploidy FISH	11
Red cell antibody screening	6
Red Cell Enzyme Schemes	7
Red cell genotyping*	6
Red cell phenotyping	6
Renal Biopsy Pathology	4
Respiratory Rapid: RSV	9
Reticulocyte Count	6
Retinal Disorders	10
Rheumatoid Factor	8
Rubella IgG Serology	9
S	
Salmonella ser. Typhi (S. Typhi) Antibodies*	8
Sarcoma testing	11
Schwannomatosis	10
Serum Indices (HIL)	5
Serum Trace Elements	5
Severe developmental delay case scenario*	10
Sex Chimerism (FISH) *	10
Sickle Solubility Screening	7
Single nucleotide variant (SNV) interpretation*	11
Skeletal Dysplasias	10
Solid Matrix (Educational)	5
Spastic Paraplegia, Hereditary (Ataxia)	10
Specific Proteins	5
Sperm concentration and sperm morphology (practical)	11
Sperm motility and interpretive sperm morphology (online)	11
Spinal Muscular Atrophy (Hypotonic Infant)	10
Spinocerebellar Ataxias (Ataxia)	10
Steroid Hormones	5
Sweat Testing	5
Syphilis Serology	9

T	
Testing of circulating free DNA in plasma for lung cancer	11
Tetanus Antibodies	8
Thanatophoric Dysplasia (Skeletal Dysplasias)	10
Thrombin Time (TT)	6
Thromboelastometry and Thromboelastography	6
Thyroglobulin	5
Thyroid Hormones	5
Thyroid Peroxidase antibodies	8
Thyroid Stimulating Hormone Receptor Ab (TRAb)	8
Tissue inhibitor of metalloproteinase I (TIMP-I)	5
Tissue-I - online tissue assessment EQA module	11
Total Serum IgE	8
Toxicology and Therapeutic Drug Monitoring	5
Toxoplasma IgG, IgM and Avidity Serology	9
Toxoplasma Molecular*	9
Training, Assessment and Competency Tool (TACT) Transfusion	6
Transmission Electron Microscopy (TEM)	4
Tryptase	8
Tumour Marker Schemes	5
Type III Procollagen Peptide (PIIINP) Hyaluronic acid	5
U	
Urinary Antigens	9
Urinary Catecholamines & Metabolites	5

Urinary hCG (Qualitative and Quantitative)	5
Urine Chemistries	5
Urine Dipsticks	5
Urine Trace Elements	5
V	
Variant Validation	10
Viral Gastroenteritis	9
Virus Identification	9
Virus Serology Schemes	9
Vitamin Assays	5
Vitamin D	5
Vitamin K1 2, 3-epoxide at endogenous concentrations in human serum*	7
Vitamin K1 at endogenous concentrations in human serum	7
Von Hippel-Lindau Disease (Phaeochromocytoma and Paraganglioma Disorders)	10
Von Willebrand factor antigen Assay	6
VWF:CB (collagen-binding) Assay	6
VWF:RCo (activity) Assay	6
W	
Whole Blood Trace Elements	5
X	
X-Inactivation	10
Xprecia Stride (PT/INR)	6

Notes

*Pilot Schemes

*Pilot Schemes

There are UK NEQAS Participants in:

Albania	of Congo	Korea	Reunion Island
Algeria	Ecuador	Kuwait	Romania
Andorra	Egypt	Laos	Russia
Anguilla	El Salvador	Latvia	Saint Martin
Antigua	Eritrea	Lebanon	Saudi Arabia
Angola	Estonia	Libya	Senegal
Argentina	Ethiopia	Liechtenstein	Serbia
Armenia	Falkland Islands	Lithuania	Sierra Leone
Aruba	Faroe Islands	Luxembourg	Singapore
Australia	Finland	Malawi	Slovakia
Austria	France	Malaysia	Slovenia
Azores	French Guiana	Mali	South Africa
Bahamas	French Polynesia (Tahiti)	Malta	Spain
Bahrain	French West Indies	Martinique	Sri Lanka
Bangladesh	(Guadeloupe)	Mauritius	St Kitts & Nevis
Barbados	Gabon	Mexico	St Lucia
Belarus	Gambia	Monaco	St Vincent & the
Belgium	Georgia	Mongolia	Grenadines
Belize	Germany	Montserrat	Sudan
Bolivia	Ghana	Morocco	Suriname
Bosnia and	Gibraltar	Mozambique	Sweden
Herzegovina	Greece	Myanmar	Switzerland
Botswana	Greenland	Nepal	Syria
Brazil	Grenada	Netherlands Antilles	Taiwan
British Virgin Islands	Guatemala	Netherlands (the)	Tanzania
Bulgaria	Guyana	New Caledonia	Thailand
Burkina Faso	Haiti	New Zealand	Trinidad
Cambodia	Honduras	Nicaragua	Tunisia
Canada	Hong Kong	Nigeria	Turkey
Caymen Islands	Hungary	North Macedonia	Turks & Caicos Islands
Chile	Iceland	Norway	Uganda
China	India	Oman	Ukraine
Colombia	Indonesia	Pakistan	United Arab Emirates
Costa Rica	Iran	Panama	United Kingdom of GB & NI
Cote D'Ivoire	Iraq	Paraguay	United States of America
Croatia	Ireland	Peru	Uruguay
Curacao	Israel	Philippines (the)	Uzbekistan
Cyprus	Italy	Poland	Venezuela
Czech Republic	Jamaica	Portugal	Vietnam
Denmark	Japan	Qatar	Zambia
Dominica	Jordan	Republic of Chad	Zimbabwe
Dominican Republic	Kazakhstan	Republic of Macedonia	
Democratic Republic	Kenya	Republic of Sudan	

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