**Pathology External Quality Assessment Participation**

**Haematology/Immunology & Transfusion External Quality Assessment Participation**

**(Source: Pathology document HAEQA 001)**

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| **Organiser** | **Scheme / Test** |
| UKNEQAS | Abnormal Haemoglobins scheme for Sickle Cell Screening |
| Abnormal Haemoglobins scheme for Liquid Newborns |
| Automated Differential Leucocyte Count |
| Blood Film Manual Differential Leucocyte Count |
| Blood Film for Morphology |
| Blood Transfusion Laboratory Practice (BTLP) Pre- Transfusion Testing |
| Blood Transfusion Laboratory Practice (BTLP) Feto Maternal Haemorrhage |
| Blood Transfusion Laboratory Practice (BTLP) Antenatal Antibody Titration Pilot |
| Blood Transfusion Laboratory Practice (BTLP) Direct Antiglobulin Testing |
| Blood Transfusion Laboratory Practice (BTLP) Extended Red Cell Phenotyping Pilot |
| Coagulation: Thrombophilia (ATIII, ProtC, ProtS) |
| Coagulation: PT, INR, APTT, Fibrinogen, D-dimer |
| Coagulation: Factor Assays FVIIIc, FIXc, FXIc, FXIIc |
| Coagulation: Factor V Leiden |
| Cytochemistry: Iron Stain |
| Erythrocyte Sedimentation Rate (ESR) |
| Full Blood Count (FBC) |
| Haemoglobin only (HB) |
| Haematinics: B12, Folate, Ferritin |
| Intrinsic Factor Antibodies |
| Immunology: Coeliac Disease |
| Immunology: General Autoimmune Serology |
| Immunology: Monoclonal Protein Identification |
| Immunology: Antibodies to Nuclear and Related Antigens |
| Immunology: Cardiolipin antibodies |
| Immunology: Specific IgE |
| Immunology: Specific Proteins |
| Immunology: Total IgE |
| Infectious Mononucleosis (IM) Latex Test Pilot Scheme |
| Plasma viscosity |
| Rapid Diagnostic Techniques for Malaria |
| Reticulocyte Count |
| NBS | IPEX Blood Transfusion |

**Cellular Pathology** **External Quality Assessment Participation**

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| **Organiser** | **Scheme / Test *(Laboratory Scheme)*** |
| UKNEQAS CPT (LabXcell) | Tissue Diagnostics |
| Specialist Techniques (including Special Stains and Frozen Section/Mega Block Companion Scheme) |
| Renal Pathology |
| Bone Marrow Trephine |
| Diagnostic Non Gynae Cytology |
| UKNEQAS ICC | Immunocytochemistry |
| **Organiser** | **Scheme / Test (*Consultant Scheme*)** |
| Cellular Pathology Department, John Radcliffe Hospital, Oxford | UK National Renal Pathology EQA Scheme |
| Cellular Pathology Department, Royal United Hospital, Bath | Wessex And South West England General EQA Scheme |
| Cellular Pathology Department, Nottingham University Hospitals Trust, Nottingham | National Breast Screening Histopathology EQA Scheme |
| Cellular Pathology Department, Leicester Royal Infirmary, Leicester | National Uropathology EQA Scheme |
| Cellular Pathology Department, Leicester Royal Infirmary, Leicester | National Gynaecological Pathology EQA Scheme |
| Cellular Pathology Department, Leicester Royal Infirmary, Leicester | National Specialist Dermatopathology EQA Scheme |
| Department of Pathology, University Hospital of Wales, Cardiff | British Lymphoma Pathology Group |
| British Society of Oral & Maxillofacial Pathology | Head And Neck EQA Scheme |
| Leeds Teaching Hospital, Leeds | UK National EQA Scheme |

**Chemical Pathology External Quality Assessment Participation**

**(Source: Pathology document CHPOL-2)**

**Diagnostic tests carried out at Cheltenham Site only**

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| **Organiser** | **Scheme Name** | **Tests Covered** |
| UKNEQAS (Sheffield) | Tumour Markers | CA125, CA 19.9 & CA15.3 |
| UKNEQAS | Thyroglobulin | Thyroglobulin & Anti-thyroglobulin Antibodies |

**Diagnostic tests carried out at Gloucester Site only**

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| **Organiser** | **Scheme Name** | **Tests Covered** |
| UKNEQAS | Thyroid Hormones | TSH, Free T4 & Free T3 |
| UKNEQAS | PTH, ACTH and hCT | PTH |
| UKNEQAS | Sweat Testing | Sweat – Chloride and Interpretation |
| UKNEQAS | Glycated Haemoglobins | HbA1c |
| UKNEQAS | Faecal Markers of Inflammation | Faecal Calprotectin |
| UKNEQAS | Vitamin D | 25 Hydroxyvitamin D |
| UKNEQAS | Cardiac Markers (NT-proBNP) | NT-proBNP |
| UKNEQAS (Sheffield) | CSF Proteins and Biochemistry | CSF (Total Protein, Glucose and Lactate), CSF Xanthochromia (CSF oxyhaemaglobin & bilirubin), Anti-SARS-CoV-2 (ACOV2) &  Covid-19 Spike Antibodies (ACOV2-S). |
| UKNEQAS (Sheffield) | Prostate Specific Antigen | Total PSA |
| UKNEQAS | Guildford Peptides | IGF-1 |
| WEQAS | Ammonia | Ammonia |
| WEQAS | Bile Acids | Total Bile Acids |
| WEQAS | Lipid | Cholesterol, Triglyceride, LDL-Cholesterol, HDL-Cholesterol & non-HDL-Cholesterol. |
| WEQAS | TDM | Gentamicin, Tobramycin, Vancomycin, Carbamazepine, Phenytoin, Theophylline & Digoxin. |
| WEQAS | Pro-calcitonin | Pro-Calcitonin |
| WEQAS | Immunosuppressants | Tacrolimus |
| WEQAS | Pre-Eclampsia | sFlt-1 & PIGF |
| WEQAS | Foetal Fibronectin | Foetal fibronectin |

**Diagnostic tests carried out at both Gloucester and Cheltenham sites**

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| **Organiser** | **Scheme Name** | **Tests Covered** |
| UKNEQAS | AFP, CEA and hCG | AFP, CEA & hCG |
| UKNEQAS | Steroid Hormones | Cortisol, Progesterone, Testosterone (female), Testosterone (male), SHBG, Oestradiol & Oestradiol (high level) |
| UKNEQAS | Peptide Hormones | FSH, LH, Prolactin & Growth Hormone |
| UKNEQAS | Antibiotic Assays | Gentamicin, Tobramycin & Vancomycin |
| UKNEQAS | Cardiac Marker | Troponin T |
| UKNEQAS (Sheffield) | CRP | C-reactive protein |
| WEQAS | Mainline Chemistry | Sodium, Potassium, Chloride, Bicarbonate, Urea, Creatinine, eGFR, Glucose, Calcium, Adjusted Calcium, Phosphate, Total Protein, Albumin, Globulins, Magnesium, Urate, Lithium, Osmolality, Aspartate Aminotransferase, Alanine Aminotransferase, Alkaline Phosphatase, Creatine Kinase, Gamma Glutamyl Transferase, Amylase, Lactate Dehydrogenase, Iron, Transferrin & Transferrin Saturation. |
| WEQAS | Bilirubin | Total Bilirubin & Conjugated Bilirubin. |
| WEQAS | ED Tox | Salicylate, Paracetamol & Ethanol. |
| WEQAS | General Urine Chemistry | Sodium, Potassium, Urea, Creatinine, Glucose, Calcium, Phosphate, Protein, Protein/Creatinine Ratio, Microalbumin, Albumin/Creatinine Ratio, Magnesium, Urate, Osmolality & Amylase. |
| WEQAS | Blood Gas | pH, pCO2, pO2, Sodium, Potassium, Ionized Calcium, Chloride, Glucose & Lactate. |

**Microbiology External Quality Assessment Participation**

**(Source: Pathology document MISOPB 076)**

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| **Provider** | **Scheme** | **Tests covered** |
| UKNEQAS | Bacteriology | AFB Microscopy |
| Antimicrobial Susceptibility |
| Clostridioides difficile |
| General Bacteriology |
| MRSA Screening |
| Mycobacterium Culture |
| Syphilis Serology |
| Urinary Antigens: Legionella/pneumococcal |
| UKNEQAS | Molecular | Molecular detection of C.trachomatis/N.gonorrhoeae |
| HIV-1 RNA quantification |
| HCV RNA detection |
| HBV DNA quantification |
| Viral Gastroenteritis |
| Molecular detection of viruses in CSF |
| UKNEQAS | Mycology | Mycology identification |
| UKNEQAS | Parasitology | Faecal parasitology |
| Toxoplasma serology |
| Anti-HBs detection |
| Blood borne viruses |
| Blood donor screen |
| Diagnostic serology – exanthem screen |
| Diagnostic serology – acute hepatitis screen |
| Hepatitis B serology |
| Hepatitis C serology |
| Immunity screen (detection of IgG antibodies  to HAV, CMV and VZV) |
| Measles & Mumps IgG serology |
| Rubella IgG serology |
| Respiratory Rapid – RSV |
| Viral Gastroenteritis – Noro/Rota |
| UKNEQAS | Andrology | Semen analysis concentration |
| Semen analysis motility/ gamete expert |
| Semen analysis morphology |
| Semen analysis/gamete-expert |
| UKNEQAS | Pregnancy Testing | Pregnancy Testing |
| QCMD | Molecular | Norovirus PCR |
| Respiratory I EQA |
| Respiratory II EQA |
| Respiratory III EQA |
| Bordetella |
| Coronavirus RNA |