United Kingdom National External Quality Assessment Service

SERVICES AVAILABLE LIST
2014/15

Version No.2
What is UK NEQAS?

Since 1969 the United Kingdom National External Quality Assessment Service (UK NEQAS) has been providing a comprehensive world-wide service that enables laboratories to fulfil quality goals and facilitate optimal patient care. UK NEQAS now comprises a network of 374 schemes operating from 24 centres based at major hospitals, research institutions and universities throughout the UK. The services cover qualitative and interpretative investigations in reproductive science, cellular pathology, clinical chemistry, genetics, haematology, immunology and microbiology. Each is directed by experts in their field, with support and advice from Steering Committees.

All UK NEQAS designated schemes are members of the UK NEQAS Consortium – a not-for-profit company limited by guarantee and a UK Registered Charity. This organisation, served by its elected Executive Committee and the UK NEQAS Office, fulfils central co-ordinating and administrative functions.

EQA schemes are awarded the UK NEQAS designation and become UK NEQAS members through compliance with the UK NEQAS Code of Practice. This Code lays down requirements for scheme design and management, and sets out the obligations and responsibilities of Organisers/Directors. It ensures that UK NEQAS schemes conform to high standards of professionalism, impartiality, clinical relevance and strict financial accountability across all disciplines and specialities, so that all concerned with the quality of laboratory investigations may have confidence in the service provided.
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Cellular Pathology

Breast Cancer Screening
Tel 0115 969 1169 (ext 56875)
Fax 0115 962 7768
Email breastscreen@ukneqas.org.uk

Cellular Pathology Technique
Tel 0191 445 5566
Fax 0191 445 6183
Email cpt@ukneqas.org.uk
Services available:
Routine Cellular Pathology
Muscle Histochemistry
Neuropathology
Renal Biopsy Pathology
Non Gynaecological Diagnostic Cytology

Head & Neck Pathology
Tel 0161 276 6953
Fax 0161 276 6348
Email neckpath@ukneqas.org.uk

Immunocytochemistry & In-Situ Hybridisation
Tel 0207 554 8679
Fax 0207 554 8685
Email immcytochem@ukneqas.org.uk
Services available:
Immunocytochemistry
Alk IHC
General Pathology
Breast Pathology (Hormonal Receptors – Estrogen and Progesterone)
Breast Pathology (HER2 IHC)
ISH for Non-Small Cell Lung Cancer
Lymphoid Pathology
Neuropathology
Cytopathology
Alimentary Tract Pathology (GIST)
Alimentary Tract Pathology (Lynch Syndrome/HNPCC)
Gastric HER2 IHC
InSitu Hybridisation
Breast HER2 ISH: Interpretive and Technical

Neuropathology
Tel 01865 234 904
Fax 01865 231 157
Email neuropath@ukneqas.org.uk

Clinical Chemistry

Cardiac Markers
Tel 0141 354 9039
Fax 0141 440 1274
Email cardiac@ukneqas.org.uk
Services available:
BNP
Cardiac Troponin I
Cardiac Troponin T
CKMB
Myoglobin
NT-proBNP

Clinical Chemistry
Tel 0121 414 7300
Fax 0121 414 1179
Email clinchem@ukneqas.org.uk
Services available:
Cholinesterase Investigations
Clinical Chemistry
Faecal Markers of Inflammation
Faecal Occult Blood
GFR Estimations (Creatinine, Cystatin C & eGFR)
Glycated Haemoglobins
Interpretative Comments
Lead & Cadmium in Blood
Lipid Assays
Newborn Screening
Paediatric Bilirubin
Quantitative Phenylalanine
Salicylate, Paracetamol & Ethanol
Specific Proteins
Steroid Hormones (Cortisol, 17-OH Progesterone, Progesterone, Oestradiol, High-level Oestradiol, Male/female Testosterone, Sex Hormone Binding Globulin , Androstenedione, Aldosterone, DHAS, UFC)
Sweat Testing
Therapeutic Drug Monitoring
Thyroglobulin
Thyroid Hormones
Urinary Aminoacid Screening
Urinary Catecholamines & Metabolites
Urinary Orotic Acid
Urine Chemistries
Urine Dipsticks
Vitamin Assays (Carotene, Vitamin A & E)
Clinical Chemistry

Guidford Peptide Hormones
Tel 01483 406 715
Fax 01483 464 168
Email peptide@ukneqas.org.uk
Services available:
C-Peptide
Gastrin
Insulin
Insulin-like Growth Factor Binding Protein-3
Insulin-like Growth Factor-1

Peptide Hormones
Tel 0131 242 6885
Fax 0131 242 6882
Email peptide@ukneqas.org.uk
Services available:
Maternal Serum Screening
- Down’s Syndrome Scheme [1st and/or 2nd trimester; pilot scheme for dried blood spots (1st trimester only)]
- Neural Tube Defects (NTD)
Peptide I
- FSH, LH, AMH, Prolactin and Growth Hormone
Peptide II
- PTH, ACTH and Calcitonin
Pregnancy Testing
- Urinary hCG (qualitative and quantitative)
Tumour Markers
- AFP, CEA and hCG

Trace Elements
Tel 01483 689 022
Fax 01483 689 979
Email trace@ukneqas.org.uk
Services available:
- Aluminium in Water/Dialysis Fluid
- Copper and Iron in Solid Matrices e.g. Liver
- 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, Magnesium and Selenium in Urine
- Zinc, Copper, Aluminium, Selenium, Chromium and Cobalt in Serum

Haematology

Blood Coagulation
Tel 0114 267 3300
Fax 0114 267 3309
Email coag@ukneqas.org.uk
Services available:
Blood Coagulation
Level 1
- Activated Partial Thromboplastin Time (APTT)
- D-Dimer
- Fibrinogen Evaluation (Clauss method)
- Heparin Assay (HA)
- Heparin Dosage Assessment (HDA)
- Lupus Anticoagulant
- Prothrombin Time (PT)/INR (Quick / Capillary methods)
- PT /diagnostic (PTD)
- Thrombin Time (TT)
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
- Factor V Leiden/Molecular Genetics of Thrombophilia Testing
- Haemophilia Molecular Genetics
- Plasma Homocysteine
- Point of Care/Near Patient Testing
- Prothrombin Time /INR (PT for oral anticoagulant control)
- Activated Clotting Time (ACT)
- POCT D-dimer
**Haematology**

**Blood Transfusion Laboratory Practice**

*Tel* 01923 217 933  
*Fax* 01923 217 934  
*Email* btlp@ukneqas.org.uk

**Services available:**
- ABO & RhD Grouping
- ABO Titration (pilot)
- Antibody Screening
- Antibody Identification
- Crossmatching
- Red Cell Phenotyping

**Feto Maternal Haemorrhage**

*Tel* 01923 217 933  
*Fax* 01923 217 879  
*Email* fmh@ukneqas.org.uk

**Services available:**
- Screening
- Quantification

**Haematinics**

*Tel* 0121 424 9276  
*Fax* 0121 311 1141  
*Email* haematinics@ukneqas.org.uk

**Services available:**
- Erythropoietin
- HoloTC (pilot)
- Intrinsic Factor Antibody
- Vitamin B12, Folate, Ferritin, Red Cell Folate

**Haematology**

*Tel* 01923 217 878  
*Fax* 01923 217 879  
*Email* haem@ukneqas.org.uk

**Services available:**
- Automated Counting & related schemes
- Automated Differential Leucocyte Count
- ESR (pilot)
- Full Blood Count
- Hb only
- NRBC count (pilot)
- Plasma Viscosity
- Post-Analytical Haematology (pilot)
- Reticulocyte count

**Leucocyte Immunophenotyping**

*Tel* 0114 267 3600  
*Fax* 0114 267 3601  
*Email* lip@ukneqas.org.uk

**Services available:**
- Flow Cytometry Programmes
- CD34+ Stem Cell Enumeration
- Immune Monitoring
- Leukaemia Diagnostic Interpretation (part 2)
- Leukaemia Immunophenotyping (part 1)
- Low Level Leucocyte Enumeration
- Minimal Residual Disease in Acute Lymphoblastic Leukaemia (pilot)
- Paroxysmal Nocturnal Haemoglobinuria
- Paroxysmal Nocturnal Haemoglobinuria High Resolution (pilot)
- Molecular Programmes
- BCR-ABL + AML Translocations Identification
- BCR-ABL Kinase Domain Mutation Status (pilot)
- BCR-ABL Quantitation
- BRAF V600E for Hairy Cell Leukaemia (pilot)
- FLT3 Mutation Status
- IgH/TCR Clonality Status
- JAK2 V617F Mutation Status
- KIT D816V Mutation Status (pilot)
- Minor BCR-ABL1 Quantitation (pilot)
- NPM1 Mutation Status
- Paediatric Acute Leukaemia Translocation Identification (pilot)
- Post-SCT Chimerism Monitoring
**Haematology**

### Vitamin K

**Tel** 0207 188 6815  
**Fax** 0207 401 3125  
**Email** keqas@ukneqas.org.uk

**Services available:**
- Vitamin K1 at endogenous concentrations in human serum
- NutriChek-Vitamin K: Vitamin K1 in foods—milk powder collaboration run with Global Proficiency
- 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

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**Immunology**

### Histocompatibility & Immunogenetics

**Tel** 01443 622 185  
**Fax** 01443 622 001  
**Email** handi@ukneqas.org.uk

**Services available:**
- ABO Grouping by DNA-Based Methods
- Crossmatching by Flow Cytometry
- Cytotoxic Crossmatching
- DNA HLA Typing at 1st Field Resolution
- DNA HLA Typing to 2nd Field Resolution
- Educational Scheme
- HFE Typing
- HLA Antibody Detection
- HLA Antibody Specificity Analysis
- HLA-B27 Testing
- HLA-B*57:01 Typing for Drug Hypersensitivity
- HLA & Disease Typing for HLA-DR/DQ/DP only
- HLA Phenotyping
- Interpretative: HFE Genotype and Hereditary and Haemochromatosis

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### Immunology, Immunochemistry & Allergy

**Tel** 0114 271 5715  
**Fax** 0114 226 6754  
**Email** immunology@ukneqas.org.uk

**Services available:**
- Autoimmunity
- Acetylcholine Receptor Antibodies
- Anaemia Related Antibodies
- ANCA/GBM Antibodies
- Bullous Dermatosis Antibodies
- Citrullinated Proteins
- Coeliac Disease Antibodies
- Diabetic Markers (Pilot)
- Ganglioside Antibodies (Pilot)
- Interferon Gamma Release Assay (inc. iEQA) (Pilot)
- Liver Disease Antibodies
- Nuclear Antibodies DNA/ANA
- Nuclear Antibodies DNA/ANA/ENA
- Paraneoplastic Antibodies
- Phospholipid Antibodies
- Rheumatoid Factor
- Thyroid Peroxidase Antibodies
- Thyroid Stimulating Hormone Receptor Ab (TRab) (Pilot)
- Allergy and Immunodeficiency
- Allergen Specific IgE
- Avian Antibodies
- Fungal Antibodies
- H. Influenzae Antibodies
- IgG Subclasses
- Pneumococcal Antibodies
- Tetanus Antibodies
- Total Serum IgE
- Tryptase
- Immunochemistry
- Alpha 1 Antitrypsin and Phenotype Identification
- Bone Metabolism Markers
- C1 Inhibitor & Functional Complement
- C-Reactive Protein
- CRP Ultrasensitive Assays
- CSF Beta 2 Transferrin
- CSF Haem Pigments
- CSF IgG Oligoclonal Bands
- CSF Proteins and Biochemistry
- β2 Microglobulin
- Oncology
- Breast Markers - CA153
- Chromogranin A (pilot)
- Gut Markers - CA199
- Lung Markers - NSE
- Monoclonal Protein Identification
- Ovarian Markers - CA125
- PSA Complexed
- PSA Free
- PSA Total
### Medical Microbiology

**Antibiotic Assays**

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<tr>
<td>Fax</td>
<td>0117 323 8332</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:antibiotic@ukneqas.org.uk">antibiotic@ukneqas.org.uk</a></td>
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**Services available:**
- Amikacin
- Flucytosine
- Gentamicin
- Hydroxy-Itraconazole
- Itraconazole
- Posaconazole
- Teicoplanin
- Tobramycin
- Vancomycin
- Voriconazole

### Microbiology

**Tel** 0208 905 9890

**Fax** 0208 205 1488

**Email** micro@ukneqas.org.uk

**Services available:**
- Bacteriology
- AAFB Microscopy
- Antimicrobial Susceptibility
- *C. difficile*
- Community Medicine
- Faecal Pathogens
- General Bacteriology incl. Antimicrobial Susceptibility
- General Bacteriology Identification
- Genital Pathogens
- MRSA Screen
- Mycobacteria Culture
- Superficial Infections
- Syphilis Serology
- Throat Infections
- Urinary Antigens: Legionella and Pneumococcal

### Molecular

- *C. trachomatis and N. gonorrhoeae*
- CMV DNA Quantification
- EBV DNA Quantification
- HBV DNA Quantification
- Hepatitis C RNA Detection
- HIV 1 RNA Quantification
- Molecular Detection of HPV
- Molecular Detection Mycobacteria
- Molecular Detection of Viruses in CSF

### Mycology

- Antifungal Susceptibility
- Mycology

### Virology

- Anti-HBs Serology
- Blood Borne Viruses
- Diagnostic Serology (exanthem screen)
- Diagnostic Serology (Hepatitis screen)
- Hepatitis B Serology
- Hepatitis C Serology
- HIV Point of Care
- HIV Serology
- Immunity Screen
- Measles and Mumps IgG Serology
- Respiratory Rapid : RSV
- Rubella IgG Serology
- Virus Identification

### Parasitology

**Tel** 0207 383 0482

**Fax** 0207 388 8985

**Email** parasit@ukneqas.org.uk

**Services available:**
- Blood
- Faecal
- Malaria Rapid
- Parasite Serology
- Toxoplasma Serology
Other Specialities

Clinical Cytogenetics
Tel 01865 857 644
Fax 01865 857 632
Email cytogen@ukneqas.org.uk

Services available:
- Acute Lymphoblastic Leukaemia - ALL
- Adult Molecular Neuropathology - 1p/19q FISH, MGMT promoter methylation, IDH (pilot)
- Amniotic Fluid
- Bloods
- Chorionic Villus - CVS
- FISH Rapid Aneuploidy
- Mature B&T Cell Neoplasms (G-banded)
- Mature B&T Cell Neoplasms (FISH only)
- formerly LPD plus 1 pilot case Lymphoma (FFPE)
- Microarray – acquired (exploratory pilot)
- Microarray – prenatal (exploratory pilot)
- Microarray - postnatal
- MRA (in collaboration with UK NEQAS for Molecular Genetics)
- Myeloid leukaemia - CML/AML/MDS
- Myeloma (exploratory pilot)
- PGD Blastomere (FISH)
- PGD Blastomere/Trophectoderm (Array) (pilot)
  (in collaboration with UK NEQAS for Molecular Genetics)
- PGD Polar Body (Array) (pilot)
  (in collaboration with UK NEQAS for Molecular Genetics)
- PGD Sperm FISH (exploratory pilot)
- Products of Conception (G-banded)
- Products of Conception (Array/MLPA/PCR) (pilot)
- Tumour

Clinical Molecular Genetics
Tel 0131 242 6898
Fax 0131 242 6882
Email molgen@ukneqas.org.uk

Services available:
- BRCA1 & BRCA2 Gene Screening
- Cardiomyopathies
- Cystic Fibrosis
- Duchenne & Becker Muscular Dystrophies
- Fabry Disease
- Familial Breast & Ovarian Cancer – BRCA1 & BRCA2
- Familial Hypercholesterolaemia
- Fragile X Syndrome
- Friedreich Ataxia
- Huntington Disease
- Long QT Syndrome
- Lynch Syndrome
- Maternal Cell Contamination & Sexing
- Medium Chain acyl-CoA Dehydrogenase Deficiency
- Microsatellite Instability
- Mitochondrial Diseases
- Molecular Analysis in Colorectal Cancer
  (in collaboration with UK NEQAS Immunocytochemistry and In-Situ Hybridisation)
- Molecular Analysis in Non-small Cell Lung Cancer
  (in collaboration with UK NEQAS Immunocytochemistry and In-Situ Hybridisation)
- Molecular Analysis in Melanoma
  (in collaboration with UK NEQAS Immunocytochemistry and In-Situ Hybridisation)
- Molecular Analysis of Gastro-Intestinal Stromal Tumours
  (in collaboration with UK NEQAS Immunocytochemistry and In-Situ Hybridisation)
- Molecular Rapid Aneuploidy
  (in collaboration with UK NEQAS for Clinical Cytogenetics)
- Molecular Testing for Cystic Fibrosis on Blood Spots
- Molecular Testing for MCADD c.985A>G Mutation on Blood Spots
- Molecular Testing for MCADD Extended Mutation Screening on Blood Spots (pilot)
- MUYTH1 (MAP)
- Non-invasive Prenatal Diagnosis (pilot)
- Next Generation Sequencing (pilot)
- Pathogenicity of Sequence Variants (pilot)
- POLG
- Prader Willi & Angelman Syndrome
- Preimplantation Genetic Diagnosis for Monogenic Disorders
- Preimplantation Genetic Diagnosis using Microarrays (pilot)
- Rett Syndrome
- Spinal Muscular Atrophy
- Spino cerebellar Ataxias
- Von Hippel-Lindau Syndrome

Reproductive Science
Tel 0161 276 6437
Fax 0161 276 6609
Email repscience@ukneqas.org.uk

Services available:
- Andrology: Semen Analysis (Sperm Motility, Concentration & Morphology)
- Embryology: Embryo Morphology
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## UK NEQAS Centres contact details

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<tr>
<th>Service</th>
<th>Tel:</th>
<th>Fax:</th>
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<th>Web:</th>
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<tr>
<td>Antibiotic Assays</td>
<td>+44 (0) 1173 236 214</td>
<td>+44 (0) 1173 238 332</td>
<td><a href="mailto:antibiotics@ukneqas.org.uk">antibiotics@ukneqas.org.uk</a></td>
<td><a href="http://www.ukneqasaa.win-uk.net">www.ukneqasaa.win-uk.net</a></td>
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<tr>
<td>Blood Coagulation</td>
<td>+44 (0) 114 267 3300</td>
<td>+44 (0) 114 267 3309</td>
<td><a href="mailto:coag@ukneqas.org.uk">coag@ukneqas.org.uk</a></td>
<td><a href="http://www.ukneqasbc.org">www.ukneqasbc.org</a></td>
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<td>Blood Transfusion Laboratory Practice</td>
<td>+44 (0) 1923 217 933</td>
<td>+44 (0) 1923 217 934</td>
<td><a href="mailto:btlp@ukneqas.org.uk">btlp@ukneqas.org.uk</a></td>
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<td>Breast Cancer Screening</td>
<td>+44 (0) 115 969 1169 (ext 56875)</td>
<td>+44 (0) 115 962 7768</td>
<td><a href="mailto:breastscreen@ukneqas.org.uk">breastscreen@ukneqas.org.uk</a></td>
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<td>Cardiac Marker</td>
<td>+44 (0) 141 354 9039</td>
<td>+44 (0) 141 440 1274</td>
<td><a href="mailto:cardiac@ukneqas.org.uk">cardiac@ukneqas.org.uk</a></td>
<td><a href="http://www.ukneqas-cm.org">www.ukneqas-cm.org</a></td>
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<td>Cellular Pathology Technique</td>
<td>+44 (0) 191 445 5566</td>
<td>+44 (0) 191 445 6183</td>
<td><a href="mailto:cpt@ukneqas.org.uk">cpt@ukneqas.org.uk</a></td>
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<td>Clinical Chemistry</td>
<td>+44 (0) 121 414 7300</td>
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<td>Clinical Cytogenetics</td>
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<td>Clinical Molecular Genetics</td>
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<td>Feto Maternal Haemorrhage</td>
<td>+44 (0) 1923 217 933</td>
<td>+44 (0) 1923 217 879</td>
<td><a href="mailto:fmh@ukneqas.org.uk">fmh@ukneqas.org.uk</a></td>
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<td>Guildford Peptide Hormones</td>
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<td>Haematinsics</td>
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<td>Haematology</td>
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<td>Head and Neck Pathology</td>
<td>+44 (0) 161 276 6953</td>
<td>+44 (0) 161 276 6348</td>
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<td>Histocompatibility &amp; Immunogenetics</td>
<td>+44 (0) 1443 622 185</td>
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<td>Immunocytochemistry &amp; In Situ Hybridisation</td>
<td>+44 (0) 207 554 8679</td>
<td>+44 (0) 207 554 8685</td>
<td><a href="mailto:immcytochem@ukneqas.org.uk">immcytochem@ukneqas.org.uk</a></td>
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<td>Immunology, Immunochrometry &amp; Allergy</td>
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<td>Leucocyte Immunophenotyping</td>
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<td>Microbiology</td>
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<td>Parasitology</td>
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<td>Peptide Hormones</td>
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<td>Reproductive Science</td>
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