Weqas

GLOBAL PROVIDER OF QUALITY IN DIAGNOSTIC MEDICINE





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Director's Profile

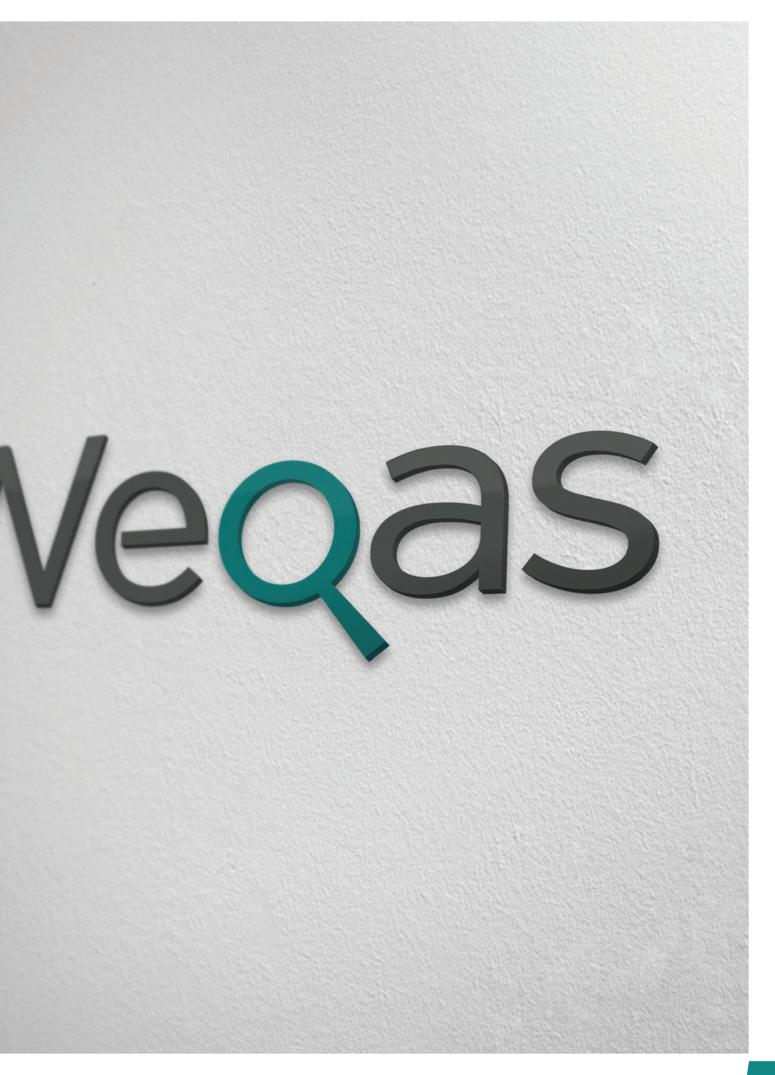
nnette Thomas is a Consultant Clinical Biochemist at Cardiff and Vale University Health Board with over 40 years' experience in Laboratory Medicine, 20 years of which has been as Director of Wegas.

Annette is also the national clinical lead for PoCT representing PoCT in Welsh Government advisory Committees and chairs the PoCT Strategic Board and PoCT Co-ordinators Network in Wales.

She is a member of the International Federation of Clinical Chemistry and Laboratory Medicine (IFCC) Task Force on Global Lab Quality (TF-GLQ) and past chair of the Committee on Analytical Quality (C-AQ).

She has previously held posts on the Executive Board of the European Committee for External Quality Assurance Programmes in Laboratory Medicine, chair of the All Wales Clinical Biochemistry Group, chair of the National Clinical Biochemistry and Laboratory Medicine Audit Committee in the UK, a member of the Association of Clinical Biochemistry and Laboratory Medicine Scientific Committee and a member of the Royal College of Pathologists Scientific Advisory Committee on Clinical Biochemistry.





About Us

stablished in 1968, Weqas is one of the largest External Quality Assessment providers in the UK, with over 50 years of experience in delivering global Quality Assurance Programmes in Laboratory Medicine.

Wegas is a "not for profit" NHS organisation hosted by Cardiff and Vale University Health Board, based in Cardiff, UK.

Wegas provides over 50 EQA Programmes, including external audit, performance analysis and an educational advisory service and employs an expert team of scientists delivering services in Laboratory EQA, Point of Care (PoCT) EQA, Reference Measurement service, Internal Quality Control (IQC) Production and Education and Training.

Our programmes are underpinned by commutable, metrological, traceable samples and informative reports. Our range of Webbased reporting options cater for the Laboratory Manager, the Laboratory Scientist and the PoCT end user. Our team of experienced Scientists and PoCT Co-ordinators provide a unique troubleshooting and problem solving service to our clients.

GLOBAL PROVIDER OF QUALITY IN DIAGNOSTIC MEDICINE



UKAS CALIBRATION

Laboratory and Point of Care EQA Services

Supplying to more than 35,000 sites per month, Weqas provides over 50 EQA Programmes. As well as Healthcare pathology laboratories, these services are also provided to independent pharmacies, primary care physicians, occupational health providers, forensic pathology services, veterinary pathology laboratories, clinical trial units and diagnostic companies. Weqas EQA services (4301) are accredited in accordance with the International Standard-General Requirements for Proficiency Testing (ISO/IEC 17043:2010).

Third Party Control (IQC)

Weqas also provides independent third party IQC and Quality Control Reference Material (QCRM) for a range of analytes. Targeted at clinically relevant concentrations, these products, along with our other services, provide the necessary tools to achieve compliance to ISO 15189:2012. Unbiased, accurate and independent controls are available for assuring the quality of your test items. Weqas IQC are designed and tailored to your specific requirements by a team of Scientists with over 20 years experience in manufacturing.

Our IQC and Quality Control Reference Material (QCRM) are registered with the UK Medicine and Healthcare products Regulatory Agency (MHRA) and conform to the Medical Devices Regulations 2002 (SI 2002 No 618, as amended) (UKMDR2002).

Reference Measurement Services

The Wegas Reference Laboratory is a Joint Committee on Traceability in Laboratory Medicine (JCTLM) listed Reference Measurement Service Provider, part of a European Network of highly specialist laboratories providing accurate target value assignment of clinical material to assist in the global harmonisation of Pathology results. This is the only laboratory currently in the UK providing this service. Wegas also contributes to Standard reference Material (SRM) value assignment in conjunction with the Institute for Reference Materials and Measurements (IRMM). The Reference Laboratory is accredited to the International Standard - General requirements for competence of Calibration and Testing Laboratories (ISO/ IEC 17025:2017) and in accordance with Laboratory medicine – Requirements for the competence of calibration laboratories using reference measurement procedures (ISO/IEC 15195:2018). This service is available to IVD manufacturers, Quality Control manufacturers, EQA providers and Clinical Laboratories.

Education and Training

With changing technologies, techniques and patient care delivery models, there is a pressing need to ensure there is a focus within education and training programmes for standardisation of analyses, error reporting, poor performance and laboratory accreditation. Education workshops, e-learning and presentations can be tailored to our clients needs.

Benefits

- Accredited to ISO 17043, and 17025 in accordance to 15195
- Web based interactive EQA programmes
- 40 years of clinical expertise
- Reference Measurement Laboratory for traceability.

Features

- Wide range of accredited EQA Programmes for Laboratory and Point of Care Diagnostic Medicine.
- Products designed to reflect actual patient samples; endogenous, single donors and pooled donor samples distributed to cover the complete clinical range.
- Liquid stable, commutable, linear, traceable samples designed to cover the cut-off, analytical, pathological and clinical decision levels.
- Reference Measurement Value Assignment for Laboratories, EQA Providers and IVD Manufacturers.

The Weqas team is supported by a Steering Committee which advises the organisers on the overall operation of its programmes, including the frequency of distribution of materials, the types of materials to be distributed, methods of statistical analysis, data presentation, and the desirability of introducing new investigations.

More information on the Steering Committee including members' profiles can be found on our website:

www.wegas.com

Laboratory EQA

eqas is an ISO 17043 accredited proficiency testing provider (number 4301), offering a range of EQA programmes for Laboratory Medicine. Weqas offers a visibly different, high quality, clinical and science-based service to support laboratories in maintaining ISO 15189, underpinned by commutable, metrological, traceable samples and informative reports.

For a complete list of all our EQA Programmes and analytes, please see our Quick Guide on page 38-45.

In a recent article on EQA best practice, the following factors were identified as core factors for laboratories in their choice of EQA provider:

*Factors influence	cing choice of EQA provider - Why Weqas?
Accreditation status	Weqas accredited to ISO 17043.
Clinically relevant distribution frequency	Where EQA is used to assess IVDs, a minimum of 6 distributions p.a. is advisable (BS EN 14136:2004). Apart from rare diseases, Weqas' programmes are bimonthly as a minimum. For core tests, the distribution (or challenge) frequency is monthly.
Clinically relevant range and number of samples	Wegas provides "blinded", commutable samples wherever possible with additional challenging samples and linear panels to assess method linearity, specificity and sensitivity.
Clinically relevant performance specification	Wegas uses Milan Model 2 performance specification whenever appropriate: based on biological variation data.
Programme designed and overseen by appropriately competent professionals	Wegas' Director has over 40 years experience in Laboratory Medicine and is supported by a team of Clinical Scientists and an Independent Scientific Advisory group.
Education	Training and helpline support. Pre-analytical, Analytical and Post-analytical education.
Reporting to Professional body / Regulatory body	Reporting to professional body within the UK, with mechanisms in place for identification and reporting of persistent poor performance issues.
Post-marketing surveillance	Wegas liaises with laboratories, manufacturers, professional bodies, regulatory and competent authorities.
Independent	Wegas is a "not for profit" NHS organisation and is not affiliated to an IVD manufacturer.

^{*}James D, Ames D, Lopez B, et al. External Quality Assessment : Best practice. J Clin Pathol 2014;67:651.





Serum Chemistry

Frequency: Monthly

Samples: 4 (3.0 mL) or 4 (1.0 mL) **Material:** Off the clot human serum

Key features: Liquid human serum samples requiring no prior preparation. Samples consist of a panel of 8 linearly related samples distributed on a number of occasions over that period which are used to assess both laboratory and method performance, including linearity, bias, within and between batch imprecision. Trueness is also assessed for a number of analytes using high metrological order Reference measurement systems.

Traceable Reference Values provided for Sodium, Potassium, Creatinine, e-GFR, Glucose, Calcium, Magnesium, Urate, Lithium, AST, ALT, GGT and LDH. Includes calculated parameters.

Additional challenging samples distributed to assess diagnostic accuracy near the cut points, method interferences and for educational purposes. Sigma metric scoring based on clinically relevant Milan Model 2 performance specification.

Analyte	Approx. Ra	ange Covered
Sodium	100 – 165	mmol/L
Potassium	1.6 - 8.0	mmol/L
Chloride	73 – 123	mmol/L
Bicarbonate	7 – 28	mmol/L
Urea	1.5 – 25	mmol/L
Creatinine	25 – 600	μmol/L
e-GFR	<15 ->90	mLs/min/1.73m ²
Glucose	1.4 – 25	mmol/L
Calcium	1.2 – 3.3	mmol/L
Adjusted Calcium	1.4 – 3.0	mmol/L
Phosphate	0.2 - 2.2	mmol/L
Total Protein	34 – 86	g/L
Albumin	20 – 53	g/L
Calculated Globulin	20 – 40	g/L
Magnesium	0.2 - 2.0	mmol/L
Urate	100 - 700	μmol/L
Lithium	0.05 - 2.0	mmol/L
Lipase	10 - 400	IU/L
Osmolality	190 – 390	mOsmo/kg
AST	5 – 300	IU/L IFCC
ALT	5 – 500	IU/L IFCC
ALP	25 – 400	IU/L SCE
CK	20 – 1200	IU/L SCE
Gamma GT	10 - 400	IU/L SCE
Total Amylase	15 – 800	IU/L
Pancreatic Amylase	20 – 160	IU/L
LDH	50 – 700	IU/L SCE
Iron	7 – 30	μmol/L
TIBC	28 – 82	μmol/L
Transferrin	1.5 – 3.5	g/L
Transferrin Saturation	22 – 30	%
Gentamicin	1-8	μg/mL

HIL Serum Indices

Frequency: Monthly
Samples: 3 (1.0 mL)

Material: Off the clot human serum

Key features: Liquid human serum samples with known concentration of haemoglobin, bilirubin and triglyceride added to assess performance of haemolysis, icteric and lipaemic indices on all major platforms. Caters for both quantitative and qualitative results.

Analyte	Appr	ox. Range Covered	
Semi-Quantitative Haemolysis Index	0 – 3.5	g/L as Hb	
Semi-Quantitative Icterus Index	0 – 500	μmol/L as Total Bilirubin	
Semi-Quantitative Lipaemic Index	0-10	mmol/L as Intralipid Triglyceride	
Qualitative Haemolysis Index	Negative to +++ Positive		
Qualitative Icterus Index	Negative to +++ Positive		
Qualitative Lipaemic Index	Negative to +++ Positive		

Analyte	Approx. Ran	ge Covered
Cholesterol	2.5 – 9.5	mmol/L
Triglyceride	0.3 - 7.0	mmol/L
HDL Cholesterol	0.6 - 2.5	mmol/L
LDL Cholesterol	1.0 - 6.0	mmol/L
Apolipoprotein A1	0.8 - 2.4	g/L
Apolipoprotein B	0.3 - 2.0	g/L
Lipoprotein (a)	5 – 300	nmol/L
Non-HDL Cholesterol	1.5 – 6.5	mmol/L

Lipid

Frequency: Monthly Samples: 4 (1.0 mL)

Material: Off the clot human serum

Key features: Liquid human serum samples requiring no prior preparation. Commutable single or pooled donor samples. Lipid profile includes all routinely monitored analytes and calculated parameters. Programme assesses both laboratory and method performance, including bias, within and between batch imprecision. Trueness is also assessed for a number of analytes using high metrological order Reference measurement systems. IDGCMS and CDC reference values provided for Cholesterol, Triglyceride and HDL. Sigma metric scoring based on clinically relevant Milan Model 2 performance specification.

Analyte	Approx. Ran	ge Covered
Total Bilirubin	30 – 350	μmol/L
Conjugated Bilirubin	10 - 100	μmol/L

Bilirubin

Frequency: Monthly Samples: 4 (1.0 mL)

Material: Off the clot human serum

Key features: Liquid human serum samples. Panel of samples covering the pathological range for both conjugated and total bilirubin in neonates and adults. Samples assess both laboratory and method performance, including linearity, bias, within and between batch imprecision. Suitable for Laboratory analysers, Blood Gas analysers and PoCT devices.

Analyte	Approx. Ran	ige Covered
Salicylate	0 - 800	mg/L
Paracetamol	0 - 350	mg/L
Ethanol	0 – 4500	mg/L
*Ethylene Glycol	0 - 3000	mg/L
*Methanol	0 – 2500	mg/L
Whole Blood Ethanol	0 – 4500	mg/L

ED Toxicology

Frequency: Monthly
Samples: 4 (1.0 mL)

4 (0.5 mL) Whole Blood Ethanol

Material: Off the clot human serum and whole blood

Key features: Liquid human serum samples. Linearly related panel covering the analytical and Toxic pathological range. Samples assess both laboratory and method performance, including linearity, bias, within and between batch imprecision. Challenging samples at clinically relevant cut-off concentrations.

Analyte	Approx.	Range Covered
hsTroponin I	1 – 1250	ng/L (Abbott Achitect / Alinity)
hsTroponin T	4 - 440	ng/L (Roche Elecsys)
Troponin T	<10 - 380	ng/L (AQT 90)
Troponin I	<10 - 1375	ng/L (iStat)
CK-MB (activity)	0 - 180	IU/L (Vitros)
× CK-MB (mass)	0 - 60	μg/L
^x Myoglobin	14 – 500	μg/L

^x These analytes are only available for the Quidel Triage Cardiac Panel.

Cardiac Markers

Frequency: Monthly Samples: 4 (1.0 mL)

Material: Off the clot human serum

Key features: Includes challenging samples at limits of detection and diagnostic "99th centile" for hs TnT and Tnl. Allows semi-quantitative reporting for PoCT Tn. Liquid human serum samples require no pre-analytical preparation. Linearly related panel covering a clinically relevant range.

^{*} Not Accredited

Urine Chemistry

Frequency: Monthly

Samples: 3 (2.5 mL) + 3 (0.5 mL) acidified

Material: Fresh filtered human urine

Key features: Fresh endogenous and spiked urine samples distributed. Separate 1mL acidified samples supplied for Calcium, Magnesium and Phosphate for enhanced stability. Samples assess both laboratory and method performance, including linearity, bias, within and between batch imprecision.

Analyte	Approx. Ran	ge Covered
Sodium	13 – 200	mmol/L
Potassium	9 – 137	mmol/L
Chloride	13 – 300	mmol/L
Urea	38 – 500	mmol/L
Creatinine	1.0 – 22	mmol/L
Glucose	0 - 40	mmol/L
Calcium	0.5 - 7.0	mmol/L
Phosphate	6 – 35	mmol/L
Protein	0 – 2	g/L
Albumin	0 - 2000	mg/L
Magnesium	0.5 – 8.5	mmol/L
Urate	0.5 - 5.0	mmol/L
Osmolality	100 - 1000	mOsmo/kg
Total Amylase	0 - 400	IU/L
Albumin/Creatinine ratio	0 – 200	mg/mmol
Protein/Creatinine ratio	0 – 300	mg/mmol

Endocrine

Frequency: Monthly Samples: 5 (1.8 mL)

Material: Off the clot human serum

Key features: Liquid human serum samples requiring no prior preparation. Single donor samples are used wherever possible to minimise any matrix effects. Programme assesses both laboratory and method performance, including bias, within and between batch imprecision. Trueness is also assessed for Testosterone, Cortisol and Progesterone using high metrological order Reference measurement systems. Challenging samples are distributed to assess the performance at clinical decision points as well as ongoing programme of interpretative exercises, Macroprolactin and antibody interferences. Includes Calculated parameters.

Analyte	Approx. Ran	ge Covered
Cortisol	60 – 1400	nmol/L
Progesterone	1.0 - 100	nmol/L
Oestradiol	37 – 1300	pmol/L
Testosterone	0.1 - 40	nmol/L
Free Testosterone	0 – 2	nmol/L
SHBG	20 – 100	nmol/L
FAI	0 – 150	%
DHEA-S	0 - 100	μmol/L
T4	64 – 280	nmol/L
T3	1.5 – 12	nmol/L
FT4	8 – 50	pmol/L
FT3	3.0 - 40	pmol/L
TSH	0.1 – 21	mU/L
LH	2 – 80	IU/L
FSH	0.8 - 100	IU/L
Prolactin	48 – 800	mU/L

Haematinics

Frequency: Monthly
Samples: 4 (1.0 mL)

Material: Off the clot human serum

Key features: Liquid human serum samples requiring no prior preparation. Commutable, endogenous samples, covering the physiological and pathological range with additional spiked samples to cover "toxic" range for Iron. Programme assesses both laboratory and method performance, including bias, within and between batch imprecision.

Analyte	Approx. Range Covered	
Ferritin	5 – 3500	μg/L
B12	120 – 850	ng/L
Active B12	0 – 300	pmol/L
Folate	1.2 - 24	μg/L
Iron	4 – 160	μmol/L
TIBC	27 – 90	μmol/L
UIBC	3 – 100	μmol/L
Transferrin	1.6 – 4	g/L
Transferrin Saturation	10 - 90	%

Analyte	Approx. Ran	ige Covered
рН	7.0 – 7.7	
H ⁺	20 - 100	nmol/L
pCO ₂	2 – 10	kPa
pO ₂	4 – 25	kPa
Actual Bicarb	20 – 30	mmol/L
TCO ₂	15 – 35	mmol/L
Na ⁺	115 – 160	mmol/L
K ⁺	2 – 6	mmol/L
Cl	76 – 123	mmol/L
Magnesium	0.4 - 1.6	mmol/L
iCa ⁺⁺	0.2 - 1.8	mmol/L
Glucose	1.9 - 23.0	mmol/L
Lactate	0.3 - 6.5	mmol/L
Urea	2.8 - 25.0	mmol/L
Creatinine	30 – 560	μmol/L
Haematocrit (iStat only)	0 - 70	%PCV
Lithium	0.35 – 1.35	mmol/L
SBCe	20 – 30	mmol/L
BE	-5 to +5	
sO ₂	90 – 100	%

Blood Gas

Frequency: Monthly
Samples: 3 (2.5 mL)

Material: Tonometered protein buffered aqueous solution and

whole blood

Key features: Aqueous material minimises the risk of preanalytical error sampling due to its protein foam layer. Wide clinical range covered over the course of the year. iCa++ concentration is suitable for the evaluation of instruments used in the monitoring of patients on citrate anticoagulation for Continuous Renal Replacement Therapy (CRRT). Programme assesses both laboratory and method performance, including bias, within and between batch imprecision. Once a year, tonometered whole blood is distributed. This material has identical oxygen saturation characteristics to fresh whole blood and is used to provide an assessment of accuracy for pO2 (especially at low pO2) and in the evaluation of derived parameters (SBC, BE and Oxygen Saturation). The hemoglobin buffering in this material provides a 10-minute open ampule stability. Both materials are suitable for use for the majority of PoCT and Laboratory analysers.

AnalyteApprox. Range CoveredTotal Haemoglobin100 – 190 g/LCarboxyhaemoglobin1 – 32 %Methaemoglobin2 – 35 %Oxyhaemoglobin35 – 95 %

Co-oximetry

Frequency: Monthly Samples: 3 (2.0 mL)

Material: Bovine haemolysate solution

Key features: Packaged in an easy to use dual-chambered vial that separates the oxyhemoglobin from methemoglobin to enhance stabilty. Material contains the 4 major haemoglobin derivates and unlike dyes has equivalent spectral properties and sensitivity to whole blood. Compatible with all major Co-oximeters. Panel covers clinically relevant ranges. Programme assesses both laboratory and method performance, including bias, within and between batch imprecision.

Analyte	Approx. Ran	ge Covered
BNP	20 – 3000	ng/L
NT-proBNP	20 – 4000	ng/L

BNP

Frequency: Bimonthly

Samples: 3 (0.5 mL)

Material: Human Plasma (EDTA / LiHep)

Key features: The base material for BNP is human EDTA plasma and for NT-proBNP Lithium Heparin plasma to correctly reflect the performance with patient samples. To enhance the range the plasma is spiked with recombinant human BNP-32 and NT-proBNP respectively with the addition of Protease inhibitors to improve stability. For BNP the samples are dispatched frozen. Surrogate, clinically appropriate linear panels suitable for both Laboratory and PoCT analysers. Programme assesses both laboratory and method performance, including bias, within and between batch imprecision and linearity.

Haemoglobin Alc

Frequency: Monthly / Bimonthly

Samples: 3 (0.2 mL) / 2 (0.2 mL) in bimonthly programme

Material: Fresh EDTA whole blood

Key features: Fresh EDTA whole blood from individual diabetic patients and healthy volunteers are distributed monthly/ bimonthly. These samples reflect the wide range of HbA1c seen in the screening, diagnosis and monitoring of Diabetes. Challenging samples from patients with known Hb variants are also distributed to assess current practice. Programme assesses both laboratory and method performance, including bias, within and between batch imprecision. Trueness is assessed using the IFCC secondary reference methods with Sigma metric scoring based on clinically relevant Milan Model 1 performance specification. Additional samples are distributed annually as part of the European HbA1c Trial to assess the performance across all countries and all manufacturers. The full report is provided as part of the programme.

Analyte	Approx. Ran	ge Covered
× HbA1c	32 – 85	mmol/mol Hb

^x IFCC and NGSP values assigned by the European Reference Laboratory for Glycohaemoglobin.

CRP

Frequency: Monthly Samples: 3 (0.5 mL)

Material: Off the clot human serum

Key features: Commutable, endogenous samples and samples spiked with a highly purified source of human CRP to provide extended range. Endogenous samples covers high sensitivity (hs) CRP methods for cardiovascular risk assessment and enhanced range panel covers CRP methods used as an inflammatory marker. Programme assesses both laboratory and method performance, including bias, within and between batch imprecision and linearity.

Analyte	Approx. Range Covered
CRP	0 – 300 mg/L

Porphyrin

Frequency: Quarterly

Samples: 3 (4.2 mL) Urine
3 (1.5 mL) Plasma

Material: Fresh filtered human urine, EDTA plasma, faeces

Key features: Covers both Qualitative and Quantitative assays for Porphobilinogen, Total Urine Porphyrin and Plasma Porphyrins. Regular educational exercises include Interpretive comments, Audit and clinical case studies. Reference target value assignment, EDTA plasma patient samples, faecal samples and clinical case interpretation are provided by the Cardiff Porphyria Service. Challenging samples at or near diagnostic cut points distributed. Programme assesses both laboratory and method performance, including bias and within batch imprecision.

Analyte	Approx. Range Covered	
Porphobilinogen	0 – 170	μmol/L
PBG / Creatinine Ratio	0->30	mmol/mmol
Total Urine Porphyrin	0 - 4000	nmol/L
Quant TUP / Creat Ratio	0->500	nmol/mmol
Plasma porphyrin	8 – 300	nmol/L
Faecal porphyrin	35 – 700	nmol/g

Analyte	Approx. Ran	ge Covered
Total Bile Acids	5 – 108	μmol/L
Cholic Acid	0 – 83	μmol/L
Deoxycholic Acid	0 – 25	μmol/L

Bile Acids

Frequency: Monthly Samples: 3 (0.5 mL)

Material: Off the clot human serum

Key features: Panel of liquid human serum samples covering an appropriate range for the diagnosis and monitoring of Cholestasis in Pregnancy. Ratio of Bile Acids in the samples reflect both physiological levels and that observed in obstetric cholestasis. ID-GCMS target values available for individual Bile Acids, Cholic acid and Deoxycholic acid. Challenging samples are also distributed to assess specificity of the methods including those containing Chenodeoxycholic acid and Ursodeoxycholic, a dihydroxycholic bile acid used in the treatment of cholestatic disease. Programme assesses laboratory and method performance, including bias, within and between batch imprecision, linearity, trueness and specificity.

Analyte	Approx. Range Covered
Ammonia	25 – 800 μmol/L

Ammonia

Frequency: Monthly Samples: 3 (0.5 mL)

Material: Off the clot human serum

Key features: A range of Ammonia samples are distributed covering both normal and pathological levels including those seen in urea cycle defects. Liquid human serum, commutable and compatible with all enzymatic methods assayed on laboratory analysers, dry slide chemistry analysers and PoCT devices. Programme assesses laboratory and method performance, including bias, within and between batch imprecision and linearity.

Analyte	Approx. Range Covered
Homocysteine	5 – 220 μmol/L

Homocysteine

Frequency: Bimonthly Samples: 3 (0.5 mL)

Material: Off the clot human serum

Key features: Liquid human serum samples with a range of concentrations found in both inborn errors and cardiovascular risk assessment. Endogenous samples along with a panel of linearly related samples produced from donations from healthy volunteers spiked with homocysteine. The linearly related samples are distributed on a number of occasions over the year to assess both laboratory and method performance, including linearity, bias, within and between batch imprecision.

Serum ACE

Frequency: Bimonthly
Samples: 3 (0.5 mL)

Material: Off the clot human serum

Key feature: Commutable, single donor patient samples. Each donation is distributed on a number of occasions over the year to assess both laboratory and method performance, including bias, within and between batch imprecision.

Analyte	Approx. Range Covered	
Serum ACE	10 – 110 IU/L	

Urine Oxalate & Citrate

Frequency: Monthly Samples: 3 (2.5 mL)

Material: Filtered and acidified human urine

Key features: This programme is designed to span the analytical and clinically relevant range for the diagnosis and management of hyperoxaluria and hypocitraturia. The linearly related samples are distributed on a number of occasions over the year to assess both laboratory and method performance, including linearity, bias, within and between batch imprecision.

Analyte	Approx. Range Covered
Oxalate	0.1 – 1.8 mmol/L
Citrate	0.1 – 8.5 mmol/L

Pregnancy Testing

Frequency: Bimonthly Samples: 3 (1.0 mL)

Material: Filtered urine from pregnant and non-pregnant

volunteers, off the clot human serum

Key features: Suitable for manual or automated lateral flow methods. Increased volume dispensed into wide neck tubes available for those using lateral flow dip stick assays. Participants can submit both quantitative and qualitative results. Challenging samples at or near lower limits of detection/ Ag excess to assesss sensitivity and Hook effect. Programme assess both laboratory and method performance, including, sensitivity, interferences, bias, within and between batch imprecision.

Analyte	Approx. Range Covered
Urine hCG	0 – 100 000 IU/L
Serum hCG	5 – 120 000 IU/L

Renal Calculi*

Frequency: Bimonthly **Samples:** 4 (100-150 mg)

Material: Dry powdered chemical or ground human calculi

Key features: Ready to use, stable samples, covering common and rare calculi constituents. Qualitative and Quantitative analysis. Suitable for spectroscopy and wet chemistry methods.

Analyte	Approx. Range Covered	
FOB	0 - 3.5	mg Hb/g matrix
hsFOB	0 - 3.5	mg Hb/g matrix
Qualitative FIT	0 – 3500	μg Hb/g matrix

Qualitative panel also assesses between batch reproducibility.

Qualitative Faecal Haemoglobin (FHb)

Frequency: Monthly Samples: 3 (0.3 g)

Material: Organic material spiked with human whole blood

Key features: Material closely mirrors the basic constituents of human faeces. Covers the pathological and analytical range for guaiac based faecal occult blood tests (gFOBT) and Qualitative Faecal Immunochemical tests (FIT). Challenging samples at clinically relevant cut-offs for screening programmes.

Analyte	Approx. Range Covered	
Quantitative FIT	2 – 480	μg Hb/g matrix

For quantitative tests - Programme assesses both laboratory and method performance, including, sensitivity, bias, within batch imprecision.

Quantitative Faecal Haemoglobin (FHb)

Frequency: Monthly

Samples: 3

Material: Organic material spiked with human whole blood

Key features: Material closely mirrors the basic constituents of human faeces. FIT samples are pre loaded into buffered collection tubes specific to each instrument. Covers the pathological and analytical range for quantitative FIT automated analysers. Samples challenging clinically relevant cut-offs for symptomatic testing pathways.

Analyte	Approx. Ran	ge Covered
Amphetamine	0 – 3000	μg/L
Amphetamines Group Screen	Qualitative	n/a
Benzodiazepines	0 - 1000	μg/L
Barbiturates	0 - 1000	μg/L
Buprenorphine	0 – 30	μg/L
Cocaine	0 - 1000	μg/L
Cannabis	0 - 400	μg/L
EDDP	0 - 1000	μg/L
Heroin	0 – 30	μg/L
Ketamine	0 - 3000	μg/L
MDMA	0 – 3000	μg/L
Methadone	0 - 1000	μg/L
Methamphetamine (mAMP)	0 – 3000	μg/L
Opiates (Morphine)	0 - 1000	μg/L
Phencyclidine (PCP)	0 – 75	μg/L
Tricyclic antidepressants (TCA)	0 - 3000	μg/L

Urine Drugs of Abuse

Frequency: Bimonthly

Samples: 3 (3.0 mL)

Material: Fresh filtered human urine with 1° and 2° metabolites

added

Key feature: Samples includes different panels of drug / metabolites. Linear samples cover analytical and clinically relevant ranges including at or near lower limit of detection for qualitative methods. Suitable for qualitative and quantitative results. Traceable, "gravimetric" concentration of metabolite and 1° drug. Programme assesses both laboratory and method performance, including, linearity (recovery to gravimetric), specificity, bias, within and between batch imprecision.

Therapeutic Drug Monitoring (TDM)

Frequency: Monthly Samples: 3 (1.0 mL)

Material: Off the clot human serum

Key features: Linear panel with known traceable "gravimetric, weighed in" concentration of drug. Programme assesses both laboratory and method performance, including, sensitivity, specificity, linearity (recovery to gravimetric), bias, within and between batch imprecision.

Analyte	Approx. Rar	ige Covered
Amikacin	0 – 25	mg/L
Carbamazapine	0 – 12	mg/L
Digoxin	0-3	μg/L
Gentamicin	0-5	mg/L
Lamotrigine	0 – 24	mg/L
Lithium	0 - 2.0	mmol/L
Methotrexate	0 - 1.0	μmol/L
Phenobarbital	0 - 40	mg/L
Phenytoin	0 – 25	mg/L
Teicoplanin	0 - 60	mg/L
Theophylline	0-20	mg/L
Tobramycin	0-10	mg/L
Valproic acid	0 – 125	mg/L
Vancomycin	0 – 30	mg/L

Whole Blood Immunosuppressants

Frequency: Monthly Samples: 3 (1.0 mL) Material: Whole blood

Key features: Linear panel with known traceable "gravimetric, weighed in" concentration of drug. Programme assesses both laboratory and method performance, including, linearity (recovery to gravimetric), bias, within and between batch imprecision.

Analyte	Approx. Range Covered	
Ciclosporin	0 – 600 μg/L	
Sirolimus	0 – 20 μg/L	
Tacrolimus	0 – 15 μg/L	

Procalcitonin

Frequency: Monthly Samples: 3 (0.5 mL)

Material: Off the clot human serum

Key features: Samples provided to cover range of Procalcitonin concentrations seen in both LRTI and systemic bacterial infection or severe sepsis. Samples suitable for Lab and POCT instruments. Endogenous samples along with a panel of linearly related samples produced from donations from healthy volunteers spiked with procalcitonin. The linearly related samples are distributed on a number of occasions over the year to assess both laboratory and method performance, including linearity, bias, within and between batch imprecision.

Analyte	Approx. Range Covered
Procalcitonin	0-100 ng/mL

Analyte	Approx. Range Covered
sFlt-1	60 – 10,000 pg/mL
PIGF	<12 – 900 pg/mL
sFlt-1/PIGF Ratio	0 – 700
Pre-Eclampsia Risk	Qualitative Interpretation

Pre-eclampsia

Frequency: Monthly
Samples: 3 (0.5 mL)

Material: Human EDTA plasma

Key features: Samples cover analytical and clinical range for sFlt-1 & PIGF. Post - analytical interpretation of pre-eclampsia risk outcome also assessed. Samples suitable for Lab and POCT instruments. Endogenous samples from patients along with a panel of linearly related samples produced from donations from healthy volunteers spiked with PIGF and sFlt-1. The linearly related samples are distributed on a number of occasions over the year to assess both laboratory and method performance, including linearity, bias, within and between batch imprecision.

Analyte Approx. Range Covered Anti-S IgG Ab Negative / Positive Anti-N IgG Ab Negative / Positive

Quantitative, semi-quantitative and qualitative reporting available.

SARS-CoV-2 Antibody

Frequency: Monthly Samples: 3 (0.5 mL)

Material: Endogenous human serum / plasma

Key features: Endogenous serum from donors previously exposed to the SARS-CoV-2 virus, convalescence plasma donations or from donors vaccinated against COVID-19. Suitable for all routine immunoassay analysers, ELISA methods and lateral flow devices. Results can be submitted for both Anti-S and Anti-N methods. Samples provided to challenge method cut-offs. Interpretative reports based on clinical cases.

Analyte	Approx. Range Covered
рН	2.0 – 12.0

pH Meter

Frequency: Monthly Samples: 3 (10.0 mL)

Material: Buffered aqueous solutions

Key features: Samples are supplied ready to use; no preanalytical preparation required. Suitable for assessing pH Meter performance across a number of laboratory applications e.g clinical applications in urine / fluids and for general laboratory applications for buffers and reagents. Programme assesses both laboratory and meter performance, including, linearity, bias, within and between batch imprecision.

POCT EQA

eqas has a wealth of experience in providing quality assurance services for Point of Care users and understands that not all our clients' needs are the same. We therefore offer different levels of service to cater for the unique needs of our clients in Point of Care settings.

Our Fully Managed Service is designed for sites that do not have the support of a local laboratory Point of Care Department for performance oversight. Weqas will perform the tasks that are generally the remit of a Point of Care co-ordinator e.g. Registration of instruments and maintenance of the database on Weqas platforms, result entry, report issue and interpretation, poor performance management. A dedicated helpline service provides clients with direct access to experienced personnel who can offer advice on method performance, interpretation and troubleshooting.

Features



- ✓ Access to the Wegas Interactive Portal
- ✓ Access to EQA Helpdesk (Mon to Fri, 08:45 to 17.15)
- ✓ Primary care sites set up and maintained by Weqas staff
- ✓ Results entered by Wegas staff



- ✓ Samples individually packaged & shipped directly to each site (Shipping option 1)
- ✓ Samples shipped in bulk in a single package to POCT co-ordinator or Organisational Lead for re-packaging and distribution (Shipping option 2)



- Wegas compiles overall summary report with poor performing sites identified
- ✓ Wegas compile report detailing non-returned sites
- ✓ Performance reviewed by Wegas
- Repeat samples automatically dispatched free of charge to poor performing sites
- Wegas notifies primary care governance lead of noncompliances and poor performance issues
- ✓ Weqas will email the primary care governance lead a follow up for poor performing sites
- ✓ Wegas provide troubleshooting advice in collaboration with the device manufacturer

For a full list of analytes and programmes please see the "Quick Guide" on page 38-45.





Glucose and Ketones

Frequency: Monthly, Bimonthly or Quarterly

Samples: 1 (0.5 mL)

Material: Red dyed serum or plasma

Key features: Ready to use liquid samples in sterile dropper vials containing both glucose and ketones. Suitable for all glucose Meters. Sites or individual users can be assessed. PoCT Coordinator summary reports. Simple traffic light reports for end users.

Analyte	Approx. Ran	ge Covered
Glucose	2.0 – 30	mmol/L
Ketones	0.6 – 6	mmol/L

Urinalysis

Frequency: Bimonthly **Samples:** 1 (5.0 mL)

Material: Fresh filtered human urine

Key features: Material is commutable with all Urinalysis strips and meters. Both quantitative, semiquantitative and qualitative results accommodated. Qualitative drop down fields on website customised for each instrument / strip. Separate sub-programme for quantitative microalbumin, and Albumin/ creatinine ratio.

Analyte	Approx. Ran	ge Covered
Glucose	0 – 60	mmol/L
Ketones	0 - 20	mmol/L
Protein	0 – 5	g/L
Haemoglobin (Blood)	0 - 7500	μg/L
Specific Gravity	1.005 - 1.020	
рН	6 – 8	
Bilirubin	0 – 50	μmol/L
Urobilinogen	0 - 200	μmol/L
Leucocytes	0 - 500	μl esterase/L
Nitrites	0 - 40	μmol/L
Albumin/Creatinine	0.8 - 78	mg/mmol
Urine Albumin (Microalbumin)	0 - 200	mg/L
Creatinine	1-22	mmol/L

Pregnancy Testing

Frequency: Bimonthly **Samples:** 3 (1.0 mL)

Material: Filtered urine from pregnant and non-pregnant

volunteers, off the clot human serum

Key features: Suitable for manual or automated lateral flow methods. Increased volume dispensed into wide neck tubes available for those using lateral flow dip stick assays. Participants can submit both quantitative and qualitative results. Challenging samples at or near lower limits of detection/ Ag excess to assesss sensitivity and Hook effect. Programme assess both laboratory and method performance, including, sensitivity, interferences, bias, within and between batch imprecision.

Analyte	Approx. Range Covered
Urine hCG	0 – 100 000 IU/L
Serum hCG	5 – 120 000 IU/L

Analyte	Approx. Range Covered	
Total bilirubin	30 – 350 μmol/L	
Conjugated bilirubin	10 – 100 μmol/L	

Bilirubin

Frequency: Monthly Samples: 4 (1.0 mL)

Material: Off the clot human serum

Key features: Liquid human serum samples. Panel of samples covering the pathological range for both conjugated and total bilirubin in neonates and adults. Samples assess both laboratory and method performance, including linearity, bias, within and between batch imprecision. Suitable for Laboratory analysers, Blood Gas analysers and PoCT devices.

Analyte	Approx. Ran	ge Covered
pH	7.0 – 7.7	ige covered
H ⁺	20 – 100	nmol/I
pCO ₂	2 – 10	
pO ₂	4 – 25	
Actual Bicarb		mmol/L
TCO ₂	15 – 35	
Na ⁺	115 – 160	
K ⁺	2-6	
Cl	76 – 123	,
Magnesium	0.4 – 1.6	
iCa ⁺⁺	0.4 - 1.0 $0.2 - 1.8$,
Glucose	1.9 – 23.0	
	1.9 - 23.0 $0.3 - 6.5$	
Lactate		,
Urea	2.8 – 25.0	•
Creatinine	30 – 560	
Haematocrit (iStat only)	0 – 70	
Lithium	0.35 – 1.35	,
SBCe	20 – 30	mmol/L
BE	-5 to +5	
sO ₂	90 – 100	%

Blood Gas

Frequency: Monthly Samples: 3 (2.5 mL)

Material: Tonometered protein buffered aqueous solution and

whole blood

Key features: Aqueous material minimises the risk of preanalytical error sampling due to its protein foam layer. Wide clinical range covered over the course of the year. iCa++ concentration is suitable for the evaluation of instruments used in the monitoring of patients on citrate anticoagulation for Continuous Renal Replacement Therapy (CRRT). Programme assesses both laboratory and method performance, including bias, within and between batch imprecision. Once a year, tonometered whole blood is distributed. This material has identical oxygen saturation characteristics to fresh whole blood and is used to provide an assessment of accuracy for pO2 (especially at low pO2) and in the evaluation of derived parameters (SBC, BE and Oxygen Saturation). The hemoglobin buffering in this material provides a 10-minute open ampule stability. Both materials are suitable for use for the majority of PoCT and Laboratory analysers.

Analyte	Approx. Range Covered
Total Haemoglobin	100 – 190 g/L
Carboxyhaemoglobin	1-32 %
Methaemoglobin	2-35 %
Oxyhaemoglobin	35 – 95 %

Co-oximetry

Frequency: Monthly Samples: 3 (2.0 mL)

Material: Bovine haemolysate solution

Key features: Packaged in an easy to use dual-chambered vial that separates the oxyhemoglobin from methemoglobin to enhance stabilty. Material contains the 4 major haemoglobin derivates and unlike dyes has equivalent spectral properties and sensitivity to whole blood. Compatible with all major Co-oximeters. Panel covers clinically relevant ranges. Programme assesses both laboratory and method performance, including bias, within and between batch imprecision.

INR

Frequency: Bimonthly **Samples:** 1 (0.3 mL)

Material: Liquid stable biological samples suitable for use on a

wide range of devices

Key features: Samples are supplied ready to use, no pre-

analytical preparation is required.

Analyte Approx. Range Covered 1-4.5 Units **INR**

Fetal Fibronectin (fFN)

Frequency: Bimonthly **Samples:** 2 (0.6 mL)

Material: Synthetic Amniotic Fluid containing purified fFN

Key features: Liquid stable samples are supplied ready to use; no pre-analytical preparation is required. Qualitative and Quantitative reporting available, with interpretations based on cut-offs of 50 and 200 ng/mL (EQUiPP study 2014). Linear related panel distributed covering the clinically relevant range. Programme assesses both site and device performance, including bias, within and between batch imprecision and linearity.

Analyte	Approx. Range Covered	
Quantitative fFN	0 – 400 ng/ml	
Qualitative fFN	Negative / Positive	

phIGFBP-1

Frequency: Bimonthly **Samples:** 2 (1.0 mL)

Material: Synthetic Amniotic Fluid containing semi-purified

IGFBP-1

Key features: Liquid stable samples are supplied ready to use; no pre-analytical preparation is required. Linear related panel distributed covering the clinically relevant range. Programme assesses both site and device performance, including bias, within and between batch imprecision and linearity.

Analyte	Approx. Range Covered
phIGFBP-1	Negative / Positive

POCT PROM

Frequency: Bimonthly **Samples:** 2 (1.0 mL)

Material: Synthetic Amniotic fluid containing semi-purified

IGFBP-1

Key features: Liquid stable samples are supplied ready to use; no pre-analytical preparation is required. Linear related panel distributed covering the clinically relevant range. Programme assesses both site and device performance, including bias, within and between batch imprecision and linearity.

Analyte	Approx. Range Covered
IGFBP-1	Negative / Positive

Analyte	Approx. Range Cov	ered
Cholesterol	3.0 – 8.0 mmol/l	
Triglycerides	0.8 – 2.5 mmol/l	-
HDL	0.6 – 3.0 mmol/l	
Glucose	5 – 20 mmol/l	

Lipids (Healthcheck)

Frequency: Bimonthly

Samples: 1 (0.5 mL)

Material: Off the clot human serum & Whole Blood

Key features: Patient samples covering normal and pathological ranges. Human serum samples require no preparation, reducing risk of pre-analytical errors. Additional assessment of accuracy using whole blood samples.

Analyte	Approx. Range Covered
Haemoglobin	38 – 200 g/L

Haemoglobin

Frequency: Bimonthly Samples: 2 (1.0 mL)

Material: Purified bovine haemolysate

Key features: Ready to use samples in dropper bottles, no need

for reconstitution.

Analyte	Approx. Ran	ige Covered
* HbA1c	32 – 85	mmol/mol Hb

^{*} IFCC and NGSP values assigned by the European Reference Laboratory for Glycohaemoglobin.

Haemoglobin Alc

Frequency: Bimonthly

Samples: 2 (0.2 mL)

Material: Fresh EDTA whole blood

Key features: Fresh EDTA whole blood from individual diabetic patients and healthy volunteers are distributed monthly / bimonthly. These samples reflect the wide range of HbA1c seen in the screening, diagnosis and monitoring of Diabetes. Challenging samples from patients with known Hb variants are also distributed to assess current practice. Programme assesses both laboratory and method performance, including bias, within and between batch imprecision. Trueness is assessed using the IFCC secondary reference methods with Sigma metric scoring based on clinically relevant Milan Model 1 performance specification. Additional samples are distributed annually as part of the European HbA1c Trial to assess the performance across all countries and all manufacturers. The full report is provided as part of the programme.

Analyte	Approx. Range Covered
CRP	0 – 150 mg/L

POCT CRP

Frequency: Bimonthly
Samples: 2 (0.5 mL)

Material: Off the clot human serum

Key features: Commutable, endogenous samples. Samples targeted at appropriate concentrations for antibiotic stewardship, covering a concentration range of 10-150 mg/L. Programme assesses both site and method performance, including bias, within and between batch imprecision and linearity.

HIV

Frequency: Bimonthly **Samples:** 3 (0.5 mL)

Material: Off the clot human serum

Key features: Samples are prepared with a non-infective source of recombinant HIV markers (p24 Ag, HIV-1 Ab and HIV-2 Ab) to mimic different clinical presentations. Developed for 4th generation assays, the users ability to identify both Abs and Ag are assessed.

Analyte	Approx. Range Covered
p24 Antigen	Negative / Positive
HIV-1 Antibody	Negative / Positive
HIV-2 Antibody	Negative / Positive

Analyte	Approx. Range Covered
BNP	15 – 900 ng/L

POCT BNP

Frequency: Bimonthly **Samples:** 3 (0.5 mL)

Material: Human Plasma (EDTA / LiHep)

Key features: The base material for BNP is human EDTA plasma and for NT-proBNP Lithium Heparin plasma to correctly reflect the performance with patient samples. To enhance the range the plasma is spiked with recombinant human BNP-32 and NTproBNP respectively with the addition of Protease inhibitors to improve stability. For BNP the samples are dispatched frozen. Surrogate, clinically appropriate linear panels suitable for both Laboratory and PoCT analysers. Programme assesses both laboratory and method performance, including bias, within and between batch imprecision and linearity.

Urine Drugs of Abuse

Frequency: Bimonthly **Samples:** 3 (3.0 mL)

Material: Fresh filtered human urine with 1° and 2° metabolites

Key feature: Samples includes different panels of drug / metabolites. Linear samples cover analytical and clinically relevant ranges including at or near lower limit of detection for qualitative methods. Suitable for qualitative and quantitative results. Traceable, "gravimetric" concentration of metabolite and 1° drug. Programme assesses both laboratory and method performance, including, linearity (recovery to gravimetric), specificity, bias, within and between batch imprecision.

Analyte	Approx. Ran	ge Covered
Amphetamine	0 – 3000	μg/L
Amphetamines Group Screen	Qualitative	n/a
Benzodiazepines	0 - 1000	μg/L
Barbiturates	0 - 1000	μg/L
Buprenorphine	0 - 30	μg/L
Cocaine	0 - 1000	μg/L
Cannabis	0 - 400	μg/L
EDDP	0 - 1000	μg/L
Heroin	0 – 30	μg/L
Ketamine	0 - 3000	μg/L
MDMA	0 – 3000	μg/L
Methadone	0 - 1000	μg/L
Methamphetamine (mAMP)	0 - 3000	μg/L
Opiates (Morphine)	0 - 1000	μg/L
Phencyclidine (PCP)	0 – 75	μg/L
Tricyclic antidepressants (TCA)	0 – 3000	ug/L

ROTEM / TEM

Test	Analyte
Aptem	CFT (Secs), CT (Secs), A5 (mm), A10 (mm), A20 (mm), MCF (mm)
Extem	CFT (Secs), CT (Secs), A5 (mm), A10 (mm), A20 (mm), MCF (mm)
Fibtem	CFT (Secs), CT (Secs), A5 (mm), A10 (mm), A20 (mm), MCF (mm)
Heptem	CFT (Secs), CT (Secs), A5 (mm), A10 (mm), A20 (mm), MCF (mm)
Intem	CFT (Secs), CT (Secs), A5 (mm), A10 (mm), A20 (mm), MCF (mm)

TEG

Test	Analyte
CFF	MA (mm)
CK	R (mins), K (mins), Angle (degrees), MA (mm)
CKH	R (mins), K (mins), Angle (degrees), MA (mm)
CRT	R (mins), K (mins), Angle (degrees), MA (mm), TEG-ACT

Viscoelastic Haemostasis*

Frequency: Quarterly
Samples per set: 2 (3.0 mL)

Material: Lyophilised human plasma which may be enriched with unfractionated Heparin

Methods: Rotational Thromboelastometry (ROTEM) / Thromboelastography (TEG)

Key features: Working in collaboration with ECAT. Covers the analytes Extem, Intem, Fibtem, Heptem and Aptem.

Analyte	Approx. Range Covered		
Creatinine	50 – 700	μmol/L	
e-GFR	<15 ->90	mls/min/1.73m2	

Creatinine

Frequency: Bimonthly
Samples: 3 (0.5 mL)

Material: Lysed whole blood

Key features: Commutable material for whole blood PoCT

devices. No pre-analytical preparation is required.

Analyte	Approx. Range Covered
D-dimer	100 – 4000 μg/L FEU
Qualitative D-dimer	Negative / Positive

D-dimer

Frequency: Bimonthly
Samples: 3 (1.0 mL)

Material: Endogenous human samples

Key features: Samples are supplied ready to use, no preanalytical preparation is required. Quantitative and qualitative reporting available. Programme assesses both laboratory and method performance, including bias, within and between batch imprecision and linearity.

Analyte	Approx.	Range Covered
hsTroponin I	1 – 1250	ng/L (Abbott Achitect / Alinity)
hsTroponin T	4 - 440	ng/L (Roche Elecsys)
Troponin T	<10 - 380	ng/L (AQT 90)
Troponin I	<10 - 1375	ng/L (iStat)
CK-MB (activity)	0 - 180	IU/L (Vitros)
× CK-MB (mass)	0 - 60	μg/L
× Myoglobin	14 – 500	μg/L

 $^{^{\}rm x}$ These analytes are only available for the Quidel Triage Cardiac Panel.

Cardiac Markers

Frequency: Monthly
Samples: 4 (1.0 mL)

Material: Off the clot human serum

Key features: Includes challenging samples at limits of detection and diagnostic "99th centile" for hs TnT and Tnl. Allows semi-quantitative reporting for PoCT Tn. Liquid human serum samples require no pre-analytical preparation. Linearly related panel covering a clinically relevant range.

^{*} Not Accredited

POCT Respiratory Virus*

Frequency: Monthly Samples: 2 (1.0 mL)

Material: Buffered material spiked with inactivated virus

Key features: Liquid stable samples are supplied ready to use; no pre-analytical preparation is required. Qualitative reporting for SARS-CoV-2 Ag (RNA), Influenza A, Influenza B and RSV available.

Analyte	Approx. Range Covered
SARS-CoV-2 Ag (RNA)	Negative / Positive
Influenza A	Negative / Positive
Influenza B	Negative / Positive
RSV	Negative / Positive

Education

eqas has a wealth of experience in delivering training sessions tailored to suit the individual requirements of the customer. Weqas provides web-based e-learning, telephone or face-to-face training. A helpline service is also provided where participants can contact Weqas for advice on their method performance and interpretation of their EQA data. This troubleshooting and educational activity is an important part of the service.

Annual Conference

A two day meeting in the form of scientific seminars, management seminars and EQA workshops are organised annually with additional ad hoc workshops. The annual meetings include current hot topics within Laboratory Medicine and provide participants the opportunity to exchange views, to engage the organisers and to discuss problems and strategies. Meetings are approved for CPD by both the IBMS and RCPath. The EQA workshops cover statistical analysis, interpretation of EQA and problem solving through interactive case studies.

EQA Workshops

Throughout the year Weqas also host small group EQA Workshops on both Laboratory and PoCT programmes. These are aimed at delivering face-to-face training sessions where participants can gain a better understanding of report interpretation and are an excellent opportunity to troubleshoot and discuss any issues.

PoCT Training

A number of ad hoc PoCT Training days are held throughout the year. The sessions provide essential tools for both PoCT Co-ordinators and users to support a quality and safe service. Weqas' PoCT training packages ensure that users have the correct knowledge, skills and competence in the delivery of PoCT. Weqas will work with users and PoCT co-ordinators to tailor the training to their needs. These are organised on request and can be delivered at the client's venue.

For more information on workshops or tailored training sessions please visit our website www.weqas.com or email contact@weqas.com.



Tailored service

ur third party controls provide accurate, independent, unbiased, quality tools for use as part of your quality assurance process. CE marked Internal Quality Control (IQC) and Quality Control Reference Material (QCRM) can be assayed daily to provide confidence in your analytical testing. Our products are clinically relevant, value-added QC, expertly designed by a team of Clinical and Biomedical Scientists with over 20 years experience in manufacturing. Weqas also has the capability to produce bespoke IQC products tailored to your specific requirements.

Examples of PoCT IQC

- Lipid Control Norm is an assayed quality control material which includes Cholesterol, HDL Cholesterol, Triglyceride and Glucose for use in Healthcheck programmes for monitoring the performance of PoCT analysers. The material has been assayed using both laboratory and a range of PoCT methods.
- Urine hCG Controls for PoCT Pregnancy Testing are available as a negative and positive control. Samples are also available near the limit of detection of the methods to aid your competency testing programme.
- PoCT Glucose & Ketone Controls are available as liquid stable material at 6 concentrations to cover the analytical range.

Examples of Laboratory IQC

- Cardiac Marker IQC is a liquid IQC with Troponin values at or near 99th centile "diagnostic cut point".
- A number of Quality Control Reference Materials (QCRM) are available which provide traceability to a higher order method.
- Chemistry QCRM linearity panel are available as a range of up to 8 samples and are suitable for ISO 15189 method verification. These can be customised to your requirements. An example is provided on page 33.
- Bile Acid QCRM is available with ID-GCMS target values and uncertainty of measurement for the individual Bile Acids.
- Endocrine QCRM is provided with ID-LC-MS/MS Reference values and uncertainty of measurement for a number of steroids.
- Ethylene Glycol Linearity Control available at 5 linearly related concentrations.
- Positive and negative controls for guaiac based Faecal Occult Blood tests (FOB).

Testosterone / Cortisol Calibrators

The use of Tandem Mass Spectrometry has increased significantly for steroid analysis and is now a routine procedure in some laboratories. Testosterone and Cortisol Tandem MS standards are used as an assayed quality control material for verification of "in house" prepared calibrators to assist laboratories with ISO 15189:2012 compliance. Weqas' standards are prepared and value assigned by the Weqas Reference Measurement Laboratory using traceable material of the highest metrological order. Further information on this material is provided on page 32-33.



Electrolyte Quality Control Reference Material

Volume: 3.5 mL

Material: Sterile liquid human serum, with an antibiotic added to prolong stability, available at a range of concentrations. Analyte values for Sodium, Potassium, Magnesium, Calcium and Lithium are obtained using a validated FAES / FAAS method traceable to SI units via the use of primary reference material. The assigned values for Chloride are obtained from the ISE method mean values derived from a minimum of 2 distributions of EQA material to all participants of the Serum Chemistry programme.

Storage: Stable until the expiration date on the vial label when stored unopened at -20°C. The material must be used immediately following thawing and must not be subjected to freeze thaw cycles.

Examples of the concentration of measurands available

		Targe	t value mmol/L		Method
Measurand	Level 2	Level 4	Level 6	Level 8	
Sodium mmol/L	111.6	124.0	137.4	151.1	FAES Reference
Potassium mmol/L	2.65	4.19	5.81	7.52	method
Magnesium mmol/L	0.62	0.97	1.33	1.69	FAAS Reference
Calcium mmol/L	1.62	2.07	2.51	2.92	Method
Lithium mmol/L	0.25	0.74	1.23	1.74	
Chloride mmol/L	81.3	92.1	103.1	114.2	ISE

Testosterone Quality Control Reference Material

Volume: 1.8 mL

Material: Sterile liquid human serum, with an antibiotic added to prolong stability, available at a range of concentrations. The assigned ID-LC-MS/MS target values are provided as a confirmation of accuracy. The Testosterone target values are traceable to SI units via the use of a primary standard and primary reference material.

Storage: Stable until the expiration date on the vial label when stored unopened at -20°C. The material must be used immediately following thawing and must not be subjected to freeze thaw cycles.

Examples of the concentration of measurands available

Level	ID-LC-MS/MS Target Value (nmol/L)	Expanded Uncertainty
1	4.49	0.14
2	9.68	0.31
3	15.11	0.48
4	28.93	0.92

Testosterone Calibrators

Volume: 1.0 mL

Material: Sterile liquid, charcoal stripped, human serum. The Testosterone target values are traceable to a gravimetrically added certified reference standard. Calibrator values are assigned using a validated ID-LC-MS/MS reference method. Suitable for the calibration of Tandem Mass Spectrometer testosterone methods.

Storage: Stable until the expiration date on the vial label when stored unopened at -20°C. The material must be used immediately following thawing and must not be subjected to freeze thaw cycles.

Examples of the concentration of measurands available

Level	ID-LC-MS/MS Target Value (nmol/L)	Expanded Uncertainty
0	0	-
1	0.50	-
2	1.76	0.06
3	3.05	0.10
4	7.97	0.25
5	15.13	0.48
6	25.0	0.79
7	40.11	1.27

Chemistry Quality Control Reference Material

Volume: 3.5 mL

Material: Sterile liquid human serum, with an antibiotic added to prolong stability, available at a range of concentrations. Analyte values for Sodium, Potassium, Calcium, Magnesium and Lithium are obtained using a validated FAES / FAAS reference method and traceable to SI units via the use of primary reference material. Values for Creatinine, Uric Acid and Glucose are assigned using a validated ID-GCMS reference method. The assigned values for Chloride are obtained from the ISE method mean values derived from a minimum of 2 distributions of EQA material to all participants of the Serum Chemistry Programme.

Storage: Stable until the expiration date on the vial label when stored unopened at -20°C. The material must be used immediately following thawing and must not be subjected to freeze thaw cycles (use immediately).

Examples of the concentration of measurands available

		Targe	t value mmol/L		Method
Measurand	Level 2	Level 4	Level 6	Level 8	
Sodium mmol/L	111.6	124.0	137.4	151.1	FAES Reference
Potassium mmol/L	2.65	4.19	5.81	7.52	method
Chloride mmol/L	81.3	92.1	103.1	114.2	ISE
Calcium mmol/L	1.65	2.01	2.37	2.73	FAAS Reference
Magnesium mmol/L	0.66	1.01	1.36	1.72	method
Lithium mmol/L	0.25	0.77	1.28	1.80	
Creatinine µmol/L	108	247	378	513	ID-GCMS
Uric Acid μmol/L	260	371	482	593	
Glucose mmol/L	4.6	10.1	15.6	21.2	

Cortisol Quality Control Reference Material

Volume: 1.8 mL

Material: Sterile liquid human serum, with an antibiotic added to prolong stability, available at various concentrations. The assigned ID-LC-MS/MS target values are provided as a confirmation of accuracy.

Storage: Stable until the expiration date on the vial label when stored unopened at -20°C. The material must be used immediately following thawing and must not be subjected to freeze thaw cycles.

Examples of the concentration of measurands available

Level	ID-LC-MS/MS Target Value (nmol/L)	Expanded Uncertainty
1	227.75	9.3
2	334.54	13.7
3	566.44	23.1
4	1065.45	43.5

Cortisol Calibrators

Volume: 1.0 mL

Material: Sterile liquid, charcoal stripped, human serum. The Cortisol target values are traceable to a gravimetrically added certified reference standard. Calibrator values are assigned using validated ID-LC-MS/MS reference method. Suitable for the calibration of Tandem Mass Spectrometer cortisol methods.

Storage: Stable until the expiration date on the vial label when stored unopened at -20°C. The material must be used immediately following thawing and must not be subjected to freeze thaw cycles.

Examples of the concentration of measurands available

Level	ID-LC-MS/MS Target Value (nmol/L)	Expanded Uncertainty
0	0	-
1	25.49	1.04
2	52.03	2.13
3	93.73	3.83
4	257.37	10.51
5	509.00	20.79
6	940.25	38.41
7	1466.93	59.93
8	2012.89	82.23

IQC & EQA PoCT Hybrid Programmes

What are our Hybrid Programmes?

This is a concept where IQC and EQA are combined in one programme.

Our Hybrid services include:

The provision of CE-marked IQC material

- Sites are sent IQC samples sufficient for 1 month
- Acceptance values predetermined, appropriate for instrument and clinical utility of test
- Materials are delivered to PoCT locations, or to other agreed distribution points
- Liquid, stable materials

Site enters IQC results into a 3rd party cloud-based system

- Instant feedback provided on pass / fail status
- Complete audit trail of QC activity

EQA is incorporated without the need for additional samples or data entry

- IQC data is extracted at defined intervals and assessed
- Wegas generate EQA reports which are emailed to the user / organiser

Available Programmes

This combined service is currently available for the following programmes:

- Hybrid Lipid
- Hybrid HbA1c

Further information can be found on www.wegas.com.



Reference Measurement Service



he Weqas Reference Measurement Laboratory is accredited to the recognised International Standard – General requirements for competence of Calibration and Testing Laboratories (ISO/IEC 17025:2017) and in accordance with Laboratory medicine – Requirements for the competence of calibration laboratories using reference measurement procedures (ISO/IEC 15195:2018).

The Reference Measurement Laboratory offers a range of reference measurement procedures utilising "gold standard" technology, using traceable material of the highest metrological order, with gravimetric preparation of all samples and calibrators. All uncertainty calculations are made according to the Guide to the Expression of Uncertainty in Measurement (GUM).

The laboratory is listed as a Joint Committee on Traceability in Laboratory Medicine (JCTLM) reference measurement provider and regularly participates in the JCTLM RELA surveys for Reference Laboratories. The Head of the Reference Measurement Laboratory, is a member of the JCTLM Reference Measurement Method review teams for metabolites and non-peptide hormones and is the team leader for electrolytes and blood gases.

Traceable reference measurement services underpin the global effort in the harmonisation of laboratory results. This ensures that patients receive the correct diagnosis and treatment independent of the country or hospital they are in. The services are available to all relevant healthcare professionals, including National Metrological Institutes, IVD Manufacturers and EQA organisers.

Analytical Technique	Analyte	Approx. Rang	e Covered	Matrix
Isotope Dilution Gas Chromatography Mass Spectrometry (ID-GCMS)	Steroids - Progesterone* - Testosterone - Cortisol	1 – 100 1 – 35 100 – 1500	nmol/L	Serum Serum Serum, Urine
	Bile Acids - Cholic Acid* - Deoxycholic Acid* - Chenodeoxycholic Acid*	0.1 - 100 0.1 - 100 0.1 - 100	μmol/L	Serum Serum Serum
	Creatinine	25 – 600	μmol/L	Serum, Urine
	Glucose	1 – 25	mmol/L	Serum
	Uric Acid	0.1 - 1.2	mmol/L	Serum
	Cholesterol	1-8	mmol/L	Serum
	Triglycerides	0.6 – 8	mmol/L	Serum
Isotope Dilution Liquid Chromatography	Testosterone	1 – 35	nmol/L	Serum
Mass Spectrometry (ID-LC-MS/MS)	Cortisol	100 – 1500	nmol/L	Serum, Urine
Flame Atomic Absorption / Emission	Sodium	105 – 160	mmol/L	Serum
Spectrometry	Potassium	1.8 – 7.5	mmol/L	Serum
	Calcium	1.6 - 4	mmol/L	Serum
	Magnesium	0.4 - 2	mmol/L	Serum
	Lithium	0.2 – 2	mmol/L	Serum
UV / Vis spectrometry	Lactate Dehydrogenase	100 – 500	IU	Calibration materials,
(IFCC 37°C methods)	Gamma Glutamyl Transferase	20 – 400	IU	control specimens and serum
	Aspartate Transaminase	5 – 600	IU	anu serum
**************************************	Alanine Transaminase	5 – 300	IU	

^{*} Not Accredited

Traceability: Certified Reference Material

- Traceable material of the highest metrological order is used for all method calibration where available.
- Suitable matrix matched traceable control material of a higher order is used in all methods, where available, as a confirmation of the traceability and accuracy of each method.

All reference methods are recognised as primary or secondary reference measurement procedures. Where available, methods listed as JCTLM approved reference methods are used. Exact matching isotope dilution used for all Mass Spectrometry methods provides the most accurate method for generating sample results. All samples and calibrators are prepared gravimetrically using traceable weighing equipment as appropriate. Dilution of samples for atomic absorption/emission methods utilises automated equipment, increasing the accuracy of sample preparation. The performance criteria used for all methods conform to currently accepted international criteria for Reference Measurement Procedures.

Quick Guide

ur Quick Guide section has been designed to give an 'At A Glance' view of our EQA programmes and the analytes that are covered. The tables on pages 40-44 list all of the analytes covered along the top, the programme they are included in is indicated by a circle in the relevant row.

We have also included an Index on page 45 to help you to quickly navigate to the desired programme. Further information about our programmes and sample dispatch dates can be found on our website: www.weqas.com.





	Analytes	cium	Alanine aminotransferase		ne)	Creatinine Ratio	Alkaline phosphatase			ıe •	al)	ein A1	ein B	Aspartate Aminotransferase				ines •) - -		otal)	Bilirubin (Conjugated)	al)	ne)		ne •	al)	Calculated Globulins		ine	Carboxyhaemoglobin	
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Programmes		Adjusted Calcium	Alanine	Albumin	Albumin (Urine)	Albumin	Alkaline	Amikacin	Ammonia	Amphetamine	Amylase (Total)	Apolipoprotein A1	Apolipoprotein	Aspartat	Vitamin B12	Barbiturates	BE	Benzodiazepines	Bicarb (Actual)	Bicarbonate	Bile Acids (Total)	3ilirubii	Bilirubin (Total)	Bilirubin (Urine)	BNP	Buprenorphine	Calcium (Total)	Calculat	Cannabis •	Carbamazepine	Carboxy	
Ammonia	L						`		•				`														Ŭ				Ŭ	
Bile Acids	L																															
Bilirubin	L P																					•										
Blood Gas	L P																															
BNP	L P																								lacksquare							
Cardiac Markers (Serum)	L																															
Cardiac Markers (Plasma)	Р																															
Co-oximetry	L P																															
Creatinine	Р																															
CRP	L P																															
D-dimer	Р																															
ED Toxicology	L																															
Endocrine	L																															
Fetal Fibronectin (fFN)	Р																															
Glucose / Ketones	P																															
Haematinics	L																															
Haemoglobin	P																															
Haemoglobin A1c	L P																															
HIL Serum Indices	L																															
HIV	Р																															
Homocysteine	L																															
INR	Р																															
Lipid	L																															
Lipids (Healthcheck)	Р																															
NT-proBNP	L																															
pH Meter	L																															
phIGFBP-1	P																															
POCT PROM	Р																															
Porphyrin	L																															
Pre-eclampsia	L																															
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Urinalysis	Р																															
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Viscoelastic Haemostasis	Р																															
Whole Blood Immuno.	L		• Q	ualita	itive	and	Quar	ntital	tive t	ests	avai	lable		L = L	abor	ator	y EQ	A	P =	PoCT	EQA											

Programmes	Analytes	hCG (Urine) •	HDL Cholesterol	Heroin ●	HIV	Homocysteine	IGFBP-1	Influenza A	Influenza B	INR	lonized Calcium (iCa++)	Iron	Ketamine ●	Ketones	Lactate	Lactate Dehydrogenase	Lamotrigine	LDL Cholesterol	Leucocytes	当	Lipase	Lipoprotein (a)	Lithium	Magnesium	MDMA	Methadone ●	Methaemoglobin	Methamphetamine (mAMP) ●	Methotrexate	Myoglobin	Nitrites	
Ammonia	L							_		_							_								_	_	-		_	-		
Bile Acids	L																															
Bilirubin	L P																															
Blood Gas	L P																															
BNP	L P																															
Cardiac Markers (Serum)	L																															
Cardiac Markers (Plasma)	Р																															,
Co-oximetry	L P																															
Creatinine	P																															,
CRP	L P																															
D-dimer	Р																															
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POCT PROM	Р																															
Porphyrin	L																															
Pre-eclampsia	L																															
Pregnancy Testing	L P	•																														
Procalcitonin	L																															
Qualitative Faecal Hb (FHb)	L																															
Quantitative Faecal Hb (FHb)	L																															
Renal Calculi	L																															
Respiratory Virus	Р																															
SARS-CoV-2 Antibody	L																															
Serum ACE	L																															
Serum Chemistry	L																															,
Therapeutic Drug Monitoring	L																															
Urinalysis	Р																															
Urine Chemistry	L																															
Urine Drugs Of Abuse	L P																															
Urine Oxalate & Citrate	L																															
Viscoelastic Haemostasis	Р																															
Whole Blood Immuno.	L																															
			• Q	ualit	ative	and	Quai	ntitat	tive t	ests	avai	lable	<u>)</u> .	L = L	.abor	atory	y EQ	A	P =	РоСТ	EQA	4										

Non-HDL Cholesterol	NT-proBNP	Oestradiol	Opiates (Morphine) •	Osmolality	Oxalate	Oxyhaemoglobin	Pancreatic Amylase	Paracetamol	PBG ●	PBG / Creatinine Ratio	pCO2	Hd	Phencyclidine (PCP)	Phenobarbital	Phenytoin	phlGFBP-1	Phosphate	PIGF	Plasma Porphyrin •	Porphyrin (Faecal)	Potassium (K+)	pO2	Pre-eclampsia Risk	Procalcitonin	Progesterone	Prolactin	Protein (Serum)	Protein (Urine)	Protein / Creatinine Ratio	Renal Calculi	RSV	Salicylate	SARS-CoV-2 Antibody	SARS-CoV-2 Antigen (RNA)	SBCe	Serum ACE	Serum Indices	SFIt-1
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Dua 240 mana 2		SFIt-1/	BG	Sirolimus	7	Sodium (Na+)	Specific Gravity	Tacrolimus	TC02	Feicoplanin	Testosterone	Theophylline	ي	Tobramycin	• dOL	TUP / Creatinine	Total T3	Total T4	Transferrin	Transferrin Saturation	Fricyclic Antidepressants	Triglyceride	Froponin I	Froponin	_	င္က	Urate	g	Urobilinogen	Valproic Acid	Vancomycin	Viscoelastic Haemostasis
Programmes		SFI	SHBG	Sir	s02	So	Sp	Тас	ĭ	le i	<u>T</u> eS	Ů ⊢	TIBC	헏	2	2	Tot	₫	Та	Tra	Ţ	Ë	Tro	F	TST	UIBC	ņ	Urea	ž	Val	Ş	Vis
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ullet Qualitative and Quantitative tests available. ullet = Laboratory EQA ullet = PoCT EQA

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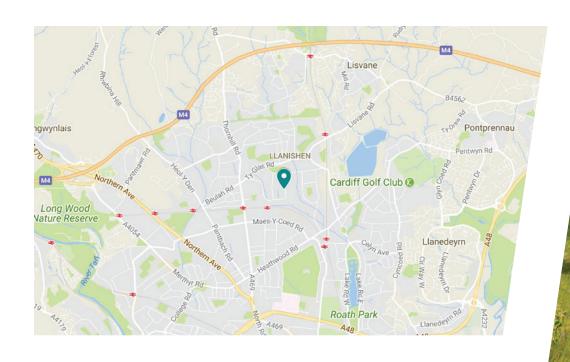
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Parking

There are limited parking spaces at our main building, but plentiful parking nearby. If you have a query regarding parking in relation to a site visit, don't hesitate to contact us for arrangements.

By Train

If you're visiting us by train, travel to Cardiff Central, then take a local train to Tŷ Glas, which is very near our main building. Visit National Rail for more information.







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