

# RANDOX INTERNATIONAL QUALITY ASSESSMENT SCHEME



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# **RIQAS**

# THE LARGEST INTERNATIONAL EQA SCHEME WITH OVER 55,000 LAB PARTICIPANTS



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### **BENEFITS**

Delivering a comprehensive yet cost effective EQA solution, RIQAS will help meet regulatory requirements and increase confidence in test system accuracy.



### Large Database of Users

• A high level of participation means peer group numbers are maximised whilst ensuring availability of data for a wide range of instruments and methods.



### **User-friendly Reports**

- Simple, one page per parameter format, enables at-a-glance performance assessment, saving valuable laboratory time.
- Complimentary multi-instrument and interlaboratory reports allow comparative performance assessment of all laboratory systems and multiple connected laboratories.
- End-of-Cycle reports, summarising performance compared to the previous cycle, allows you to identify improvements in quality over time.



#### **Cost Effective**

- Our extensive range of multi-analyte programmes will reduce the number of individual programmes required to cover your test menu, saving both time and money.
- Reduced parameter options for selected programmes offer greater flexibility, ensuring suitability for laboratories of all sizes and budgets.
- Register up to five instruments per programme (volume permitting) at no extra cost for comparative performance assessment.



### Frequency

- Frequent reporting allows early identification of system errors and implementation of any necessary corrective actions with minimum disruption to the lab.
- With a turnaround of less than 72 hours for most reports, corrective action can be implemented earlier, potentially reducing costly errors with patient results.



### **High Quality Samples**

- Samples spanning clinically relevant levels allow identification of concentration related biases, helping to ensure accurate instrument performance.
- Human samples free from interfering preservatives increase confidence that EQA performance mirrors the performance of patient samples.
- Reference method values are provided in the Clinical Chemistry programme for selected parameters and lots, while for the Immunosuppressant programme they are provided for all parameters and lots.



### **Highly Accredited**

- Programmes accepted by National and International accreditation bodies worldwide.
- Participant certificates provide evidence of participation in a reputable EQA scheme.



RIQAS is the largest international EQA scheme in the world. It is used by more than 55,000 laboratory participants in 134 countries. 36 programmes are currently available.

### **RIQAS Programmes**

- Ammonia/Ethanol
- Anti-Müllerian Hormone (AMH)
- Anti-TSH Receptor
- Blood Gas
- BNP
- Cardiac
- Cardiac Plus
- Cerebrospinal Fluid (CSF)
- Clinical Chemistry
- Coagulation
- CO-Oximetry
- CYFRA 21-1

- Cytokines
- ESR
- Glycated Haemoglobin (HbA1c)
- Haematology
- Human Urine
- Immunoassay
- Immunoassay Speciality 1
- Immunoassay Speciality 2
- Immunosuppressant Drugs
- Lipids
- Maternal Screening
- Microbiology (Bacterial Identification)

- Neonatal Bilirubin
- Serology (Anti-SARS-CoV-2)
- Serology Epstein Barr Virus (EBV)
- Serology (HIV/Hepatitis)
- Serology (Syphilis)
- Serology (ToRCH)
- Serum Indices
- Specific Proteins
- Sweat Testing
- Therapeutic Drugs
- Urinalysis
- Urine Toxicology

### Accreditation

- RIQAS provides certificates as proof of EQA participation and performance for laboratory accreditation purposes.
- RIQAS is a UKAS accredited Proficiency Testing Provider, No. 0010, and is accredited to ISO/IEC 17043:2010, 'Conformity Assessment- General Requirements for Proficiency Testing'.
- Accreditation to ISO/IEC 17043:2010 highlights the superior quality and excellence of RIQAS.

### **UK Performance Surveillance**

- Recognised by the Quality Assurance in Pathology Committee (QAPC).
- Recognised by various National Quality Assurance Advisory Panels (NQAAP).

### **Independent Advisory Panel**

RIQAS participants have access to an independent advisory panel consisting of scientific and clinical experts. This ensures professional and ethical conduct of the scheme and participant confidentiality.

RIQAS support staff are on hand to offer advice and troubleshoot technical queries.

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# **RIQAS REPORTS**

RIQAS reports are presented in a user-friendly, one page per parameter format. This allows easy interpretation of your analytical performance.

### **RIQAS Reports**

- Statistical breakdown by all methods, your method and, where applicable, your instrument, including running means for the last 10 samples.
- Compare your instrument group, method group and all methods using the histogram.
- Identify trends, biases and precision problems using the visual charts.
- The Target Score chart uniquely grades your performance in a moving window over the last 20 samples, including the previous cycle.
- At-a-glance summary page for all parameters in the programme.
- Compare your result with statistically robust consensus means.
- Identify acceptable and poor performance using fit-for-purpose performance indicators:
  - SDI
  - %Deviation
  - Target Score



### **Summary CSV Files**

It is possible to receive an additional summary of your report statistics, acceptable limits and performance indicators as a .csv file for every sample (available for quantitative reports only).

### **Multi-Instrument Reports**

Laboratories can register up to five instruments at no extra cost. Individual reports for each instrument plus a unique multi-instrument report are provided. The multi-instrument report plots the performance of each individual instrument on a single, colour coded Levey-Jennings chart, ensuring instant identification of any differences in instrument performance. Additional sample packs may be ordered as required if volume supplied is insufficient for the registered instruments.

#### **Laboratory Group Reports**

The group reporting facility enables laboratory groups or chains to monitor the performance of satellite sites. Each affiliated laboratory will receive their individual reports with the group supervisor also receiving a summary report comparing each laboratory in the network.

# **WEB-BASED DATA TRANSFER**

# RIQAS.Net offers easy, direct access for the submission of results and retrieval of reports direct from the RIQAS host server.

- Available in multiple languages.
- · Confidentiality and security is maintained through the use of password protected access.
- Submit current, corrected and future results (normal policies apply), directly into the RIQAS database. Receipt of results is confirmed by e-mail.
- Multi-lingual registration identifier provides simple identification of multiple registrations.
- Additions and changes to assay details can be made quickly and easily online.
- Requests for new method, instrument and reagent codes can be made online.
- Reports are emailed in PDF format as soon as they are prepared.
- Reports for the previous two cycles can be downloaded from the website.
- View, print, store or distribute reports as you wish.
- Update your laboratory's certificate of participation details in multiple languages.
- All that is required is web access, Adobe Reader (for viewing reports) and a valid password to access the system.
- No additional software required.



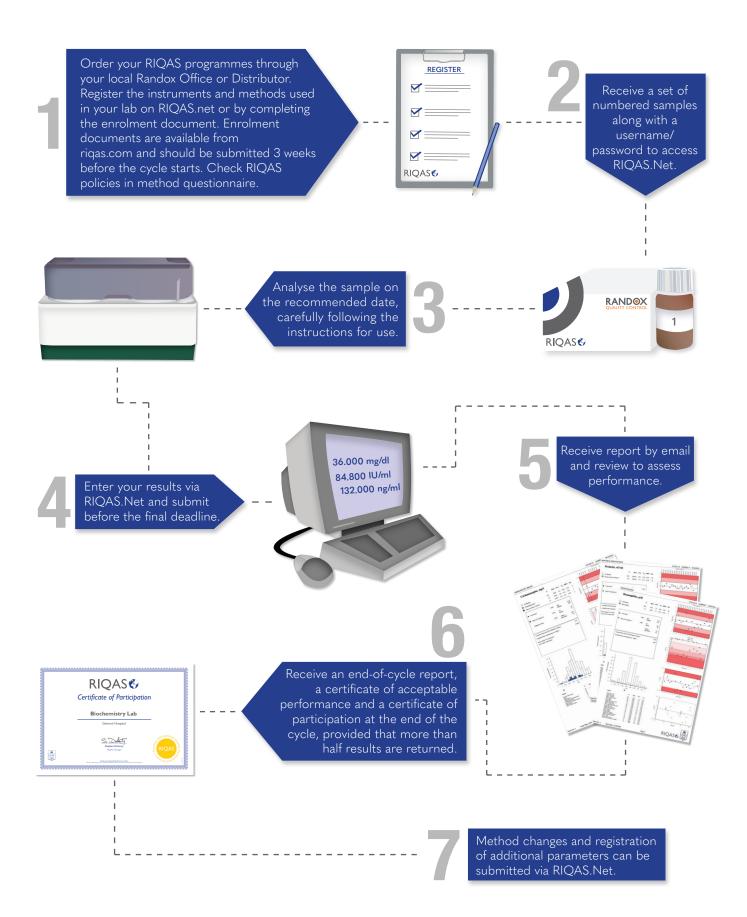






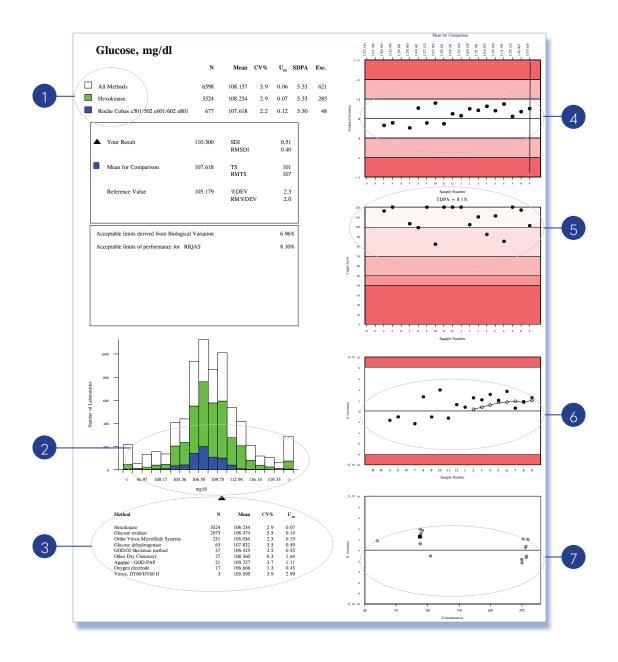
# PARTICIPATION IN RIQAS

### Participation in RIQAS follows these simple steps:



# STANDARD REPORT

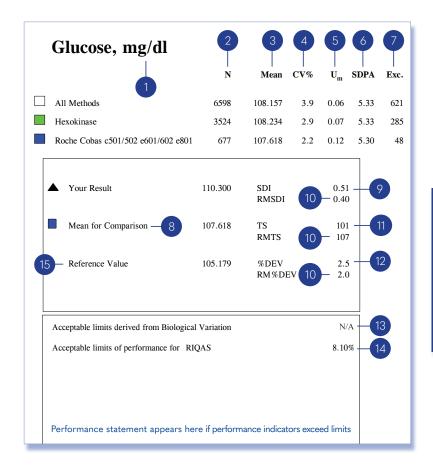
Performance data is presented in a one page format with up to seven sub-reports.



| 1 | Text Section Chart:                | Statistics for all methods, your method and instrument group (programme specific).            |
|---|------------------------------------|---|
| 2 | Histogram Chart:                   | Method and instrument comparison.   |
| 3 | Multi-Method Stat Section Chart:   | Enables assessment of the performance of each method.   |
| 4 | Levey-Jennings Chart:              | Details features of your laboratory's performance.  |
| 5 | Target Score Chart:                | This unique chart provides a numerical index of performance, allowing at-a-glance assessment. |
| 6 | %Deviation by Sample Chart:        | Helps to identify trends and shifts in performance.   |
| 7 | %Deviation by Concentration Chart: | Rapid assessment of concentration related biases.   |

# **TEXT SECTION**

### The text section summarises the statistical information for each parameter.



RIQAS performance indicators include SDI, Target Score and %Deviation.

Acceptable performance criteria:

SDI < 2
Target score ≥ 50
%Deviation ≤ defined acceptable limits

- Report is presented in your chosen unit.
- Number of returned results used to generate Mean for Comparison.
- 3 Average value of all laboratories' results.
- Coefficient of Variation.
- Uncertainty associated with the Mean for Comparison.

$$U_m = 1.25 \times SD$$

SDPA = Standard Deviation for Performance Assessment, calculated from the Target Deviation for Performance Assessment (TDPA) and the Mean for Comparison.

$$SDPA = \frac{TDPA \times Mean \text{ for Comparison}}{t-value \times 100}$$

t-value = factor which represents the % of poor performers reflected in the TDPA (t-value  $\sim$  1.645 when  $\sim$ 10% laboratories achieve poor performance), SDPA is combined with  $U_{\rm m'}$ , where appropriate.

If  $U_m$  is less than (  $0.3 \times SDPA$ ) then  $SDPA_{adjusted} = SDPA$ 

- After statistical reduction, some results are excluded from the mean for comparison.
- Ideally this will be your instrument group mean. If N<5 for instrument group, your method group mean is selected as Mean for Comparison.
- Standard Deviation Index = Your Result Mean for Comparison SDPA adjusted
- Running Mean average of the last 10 performance indicators is used to monitor performance over time and concentration range.
- Target Score The closer a value is to 120, the better the performance.

$$TS = \log_{10} \left( \frac{3.16 \times TDPA}{|\% Dev|} \right) \times 100$$

12 %Deviation from the Mean for Comparison -

$$\text{\%Dev} = \frac{\text{Your Result - Mean for Comparison}}{\text{Mean for Comparison}} \times 100$$

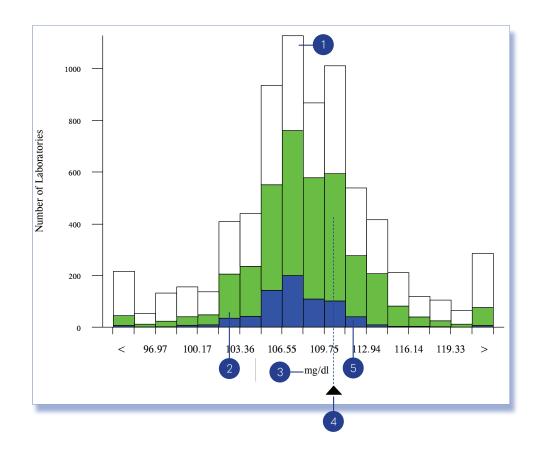
The closer the value is to zero, the better the performance.

- Biological Variation Not currently available please review online.
- Performance limit set for this parameter.
- Reference values quoted for information purposes, where applicable.

# **HISTOGRAM**

The Bar Graph is intended as a quick visualisation of how your lab's result compares to the method mean, instrument mean and all method mean.







200 laboratories reported values between 101.77 & 103.36 in your method group.

3 RIQAS reports show your unit of measurement.

4 Your result is indicated by the black triangle.

41 laboratories reported values between 111.35 & 112.94 in your instrument group.

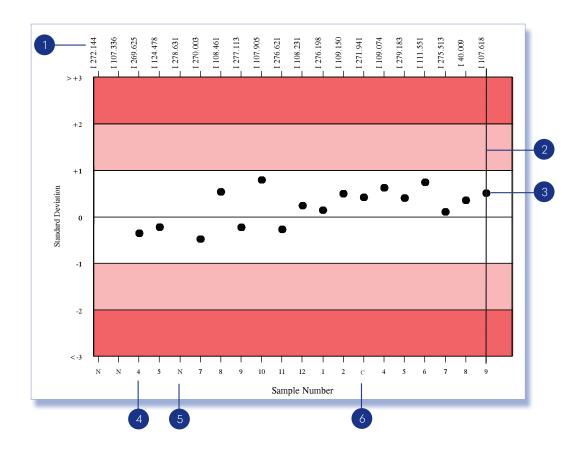
# **MULTI-METHOD STAT SECTION**

This section provides an easy way of assessing the performance of other methods used to analyse the parameter in question.

| Method                          | N    | Mean    | CV% | U<br>m |
|---------------------------------|------|---------|-----|--------|
| Hexokinase                      | 3524 | 108.234 | 2.9 | 0.07   |
| Glucose oxidase                 | 2673 | 108.474 | 5.5 | 0.14   |
| Ortho Vitros MicroSlide Systems | 251  | 105.036 | 2.3 | 0.19   |
| Glucose dehydrogenase           | 63   | 107.832 | 3.5 | 0.59   |
| GOD/02-Beckman method           | 37   | 106.425 | 2.5 | 0.55   |
| Other Dry Chemistry             | 27   | 108.360 | 6.3 | 1.64   |
| Agappe - GOD-PAP                | 21   | 109.727 | 3.7 | 1.11   |
| Oxygen electrode                | 17   | 106.666 | 1.3 | 0.43   |
| Vitros, DT60/DT60 II            | 3    | 105.595 | 3.9 | 2.99   |

# LEVEY-JENNINGS CHART

SDIs reflect laboratory performance in relation to fit-for-purpose SDPAs and are useful to monitor performance over time. Acceptable performance is SDI < 2.



The Mean for Comparison for each sample is indicated at the top of the chart. This allows easy assessment of concentration related bias:

I: Instrument mean M: Method mean A: All method mean

This line indicates a change in registration details for this parameter.

Your SDI (Standard Deviation Index).

Sample number.

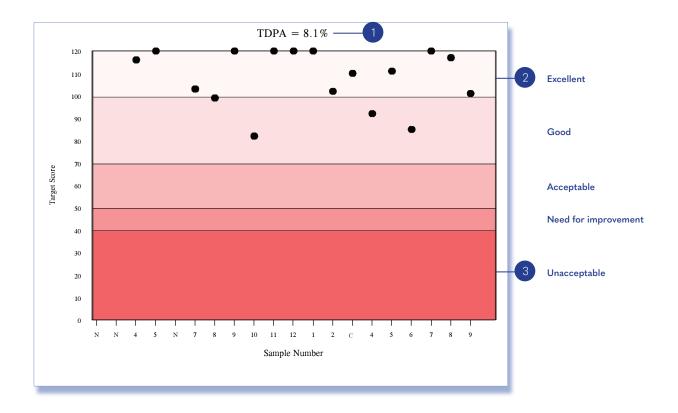
N = No result returned in time for this registration\sample.

C = Corrected results will be accepted for non-analytical errors. Corrected results will be accepted up to 4 weeks after the final submission deadline, on application, with evidence of analysis. Late results are only accepted if there has been a Randox error.

 $\ensuremath{\mathsf{R}} = \ensuremath{\mathsf{Incorrect}}$  results can be removed retrospectively on request.

# **TARGET SCORE CHART**

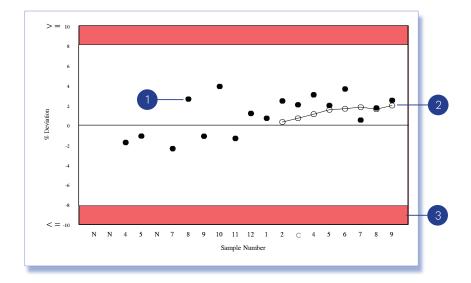
The Target Score (TS) allows you to assess your performance at a glance. The TS relates the %Deviation of your result from the Mean to a Target Deviation for Performance Assessment (TDPA). TDPAs are set to encourage participants to achieve and maintain acceptable performance. TDPAs are fit-for-purpose performance criteria which are set taking guidance from ISO/IEC17043, ISO13528 and IUPAC. Target Deviations for Performance Assessment are also used to calculate the Standard Deviation for Performance Assessment (SDPA).



- This is the upper deviation limit of performance for this parameter. TDPAs are reviewed regularly and deemed fit for purpose by the RIQAS Advisory Panel.
- High scores ≥50 in the lighter shaded area represent acceptable, good or excellent performance.
- Heavy shading for values 10 to 50 signifies poor performance.

# **%DEVIATION CHARTS**

The %Deviation by sample chart helps to identify trends and shifts in performance.

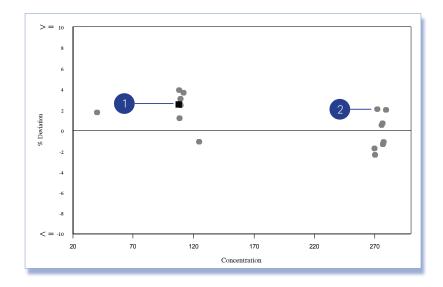


\*Deviation from Mean for Comparison.

Plot of Running Mean %Deviations (average of the last 10 %Deviations for the sample indicated).

Acceptable limits of performance. These are defaulted to RIQAS TDPAs but can be set to e.g. biological variation or regulatory requirement on request.

The %Deviation by concentration chart enables rapid assessment of concentration related biases. Biases at low or high concentrations can be easily determined.



Current sample indicated by square.

2

%Deviation at specific concentration.

# **SUMMARY PAGE**

Located at the back of the RIQAS Report, the Summary Page collates the key information, allowing participants to review the performance of all parameters at-a-glance.

|                      | Mean for   | Your      |       |           |            |           |                |        |            |
|----------------------|------------|-----------|-------|-----------|------------|-----------|----------------|--------|------------|
| Analyte              | Comparison | Result    | SDI   | RMSDI     | %DEV       | RM%DEV    | TS             | RMTS   | Performanc |
| Albumin              | 2.120      | 2.230     | 1.00  | 0.37 —    | 2 5.2      | 2.0       | 72             | 107    |            |
| Alkaline Phosphatase | 17.705     | 19.000    | 0.61  | -0.27     | 7.3        | -2.9      | 93             | 105    |            |
| ALT (GPT)            | 12.387     | 12.000    | -0.33 | -0.47     | -3.1       | -3.8      | 119            | 103    |            |
| Amylase, Total       | 20.454     | 22.000    | 0.72  | -0.29     | 7.6        | -2.5      | 86             | 103    |            |
| AST (GOT)            | 11.976     | 11.000    | -0.86 | -0.03     | -8.2       | -0.4 —    | 3 78           | 100 —  | 4          |
| Bicarbonate          | 8.203      | 6.900     | -1.48 | 0.15      | -15.9      | 1.5       | 54             | 98     |            |
| Bilirubin, Direct    | 0.251      | 0.380     | 2.57  | 2.64      | 51.3       | 47.2      | 31             | 29     | <u> </u>   |
| Bilirubin, Total     | 0.701      | 0.640     | -0.91 | -0.29     | -8.8       | -2.9      | <del>7</del> 6 | 101    |            |
| Calcium              | 6.074      | 6.020     | -0.19 | -0.40     | -0.9       | -1.8      | 120            | 92     |            |
| Chloride             | 76.353     | 77.000    | 0.30  | -0.28     | 0.8        | -0.8      | 120            | 98     |            |
| Cholesterol          | 112.696    | 110.000   | -0.55 | 0.05      | <u>2.4</u> | 0.2       | 97             | 115    |            |
| CK, Total            | 111.659    | 111.000   | -0.08 | 0.35      | -0.6       | 2.5       | 120            | 107    |            |
| Creatinine           | 0.607      | 0.620     | 0.27  | 0.06      | 2.1        | 0.5       | 120            | 117    |            |
| Glucose              | 36.429     | 36.000    | -0.26 | -0.84     | -1.2       | -3.7      | 120            | 82     |            |
| HDL-Cholesterol      | 98.836     | 102.000   | 0.21  | -0.04     | 3.2        | -0.4      | 120            | 113    |            |
| ron                  | 97.374     | 99.000    | 0.28  | 0.01      | 1.7        | 0.1       | 120            | 114    |            |
| Lactate              |            | No Result |       | Too Few   |            | Too Few   | N/A            | N/A    |            |
| LD (LDH)             | 85.894     | 87.000    | 0.11  | -0.70     | 1.3        | -6.3      | 120            | 89     |            |
| Magnesium            | 1.313      | 1.390     | 0.79  | -0.07     | 5.8        | -0.5      | 82             | 107    |            |
| Phosphate, Inorganic | 1.451      | 1.540     | 1.02  | 0.02      | 6.1        | 0.1       | 71             | 112    |            |
| Potassium            | 1.770      | 1.840     | 1.10  | -0.25     | 3.9        | -0.7      | 67             | 99     |            |
| Protein, Total       | 3.850      | 3.830     | -0.11 | 0.07      | -0.5       | 0.3       | 120            | 114    |            |
| Sodium               | 112.537    | 114.000   | 0.58  | -0.01     | 1.3        | -0.0      | 95             | 104    |            |
| ГІВС                 | 133.143    | 133.000   | -0.01 | -0.01     | -0.1       | -0.1      | 120            | 117    |            |
| Гrig Total           | 23.626     | 24.000    | 0.18  | -0.09     | 1.6        | -0.6      | 120            | 114    |            |
| Urea                 | 5.872      | 5.000     | -2.02 | 5 -0.57   | -14.9      | -4.0      | <u>41</u>      | 95     | <b>_</b>   |
| Uric Acid (Urate)    | 3.135      | 3.100     | -0.20 | -0.44     | -1.1       | -2.4      | 120            | 107    |            |
|                      |            |           | ORM   | SDI -0.05 | OR         | M%DEV 0.8 | ORM'           | TS 102 |            |



%DEV > acceptable limits set

- ${\rm RMSDI}$  is the Running Mean of the 10 previous SDIs (if fewer than 10 results on file, "Too Few" is printed).
- RM %DEV Average of the last 10 %DEV for this parameter.
- RMTS Average of the last 10 Target Scores for this parameter.

- All poor performance is highlighted in bold and underlined.
- Overall RMSDI = average RMSDI for this sample distribution.
- Overall RM%DEV = average RM%DEV for this sample distribution.
- Overall RMTS = average RMTS for this sample distribution.

# **END-OF-CYCLE QUANTITATIVE REPORT**

The End-of-Cycle Report is sent to labs receiving standard reports at the end of each cycle and provides a complete summary of statistics. Results can also be compared to the previous cycle.

### Albumin, g/l

Method: Bromocresol Purple

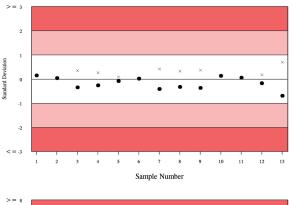
**Instrument:** Siemens/Dade Dimension RxL/Max/Xpand

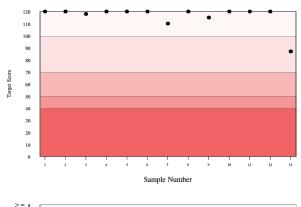
Reagent: Siemens/Dade Behring

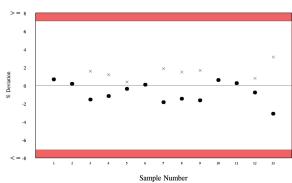
**RIQAS TDPA:** 7.1% **Biological Variation:** 3.9

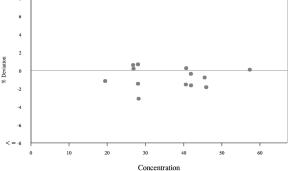
| Sample | Result | Unit | N  |   | ean for<br>mparison | CV% | Um   | SDPA | SDI   | TS  | % Deviation |
|--------|--------|------|----|---|---------------------|-----|------|------|-------|-----|-------------|
| 1      | 28.200 | g/l  | 68 | I | 28.013              | 2.4 | 0.10 | 1.26 | 0.15  | 120 | 0.67        |
| 2      | 26.900 | g/l  | 87 | I | 26.853              | 2.7 | 0.10 | 1.21 | 0.04  | 120 | 0.17        |
| 3      | 39.900 | g/l  | 71 | I | 40.531              | 2.5 | 0.15 | 1.82 | -0.35 | 118 | -1.56       |
| 4      | 19.200 | g/l  | 81 | I | 19.429              | 2.5 | 0.07 | 0.87 | -0.26 | 120 | -1.18       |
| 5      | 41.700 | g/l  | 67 | I | 41.859              | 2.0 | 0.13 | 1.88 | -0.08 | 120 | -0.38       |
| 6      | 57.300 | g/l  | 87 | I | 57.257              | 2.7 | 0.21 | 2.58 | 0.02  | 120 | 0.08        |
| 7      | 45.000 | g/l  | 72 | I | 45.850              | 2.1 | 0.14 | 2.06 | -0.41 | 110 | -1.85       |
| 8      | 27.600 | g/l  | 87 | I | 28.013              | 2.5 | 0.09 | 1.26 | -0.33 | 120 | -1.47       |
| 9      | 41.200 | g/l  | 70 | I | 41.891              | 2.2 | 0.14 | 1.88 | -0.37 | 115 | -1.65       |
| 10     | 26.900 | g/l  | 83 | I | 26.742              | 3.3 | 0.12 | 1.20 | 0.13  | 120 | 0.59        |
| 11     | 40.700 | g/l  | 71 | I | 40.601              | 2.2 | 0.14 | 1.83 | 0.05  | 120 | 0.24        |
| 12     | 45.100 | g/l  | 80 | I | 45.456              | 2.2 | 0.14 | 2.04 | -0.17 | 120 | -0.78       |
| 13     | 27.300 | g/l  | 63 | I | 28.179              | 2.0 | 0.09 | 1.27 | -0.69 | 87  | -3.12       |

|                             | Cycle 45 | Cycle 46 |
|-----------------------------|----------|----------|
| Cycle Average SDI           | -0.23    | -0.18    |
| Cycle Average TS            | 110      | 116      |
| Cycle Average %DEV          | -1.05    | -0.79    |
| Cycle Average Absolute SDI  | 0.36     | 0.24     |
| Cycle Average Absolute %DEV | 1.63     | 1.06     |









# **END-OF-CYCLE REPORT TEXT SECTION**

The text section summarises the statistical information for all samples.

1 Albumin, g/l

Method: Bromocresol Purple

Instrument: Siemens/Dade Dimension RxL/Max/Xpand

Reagent: Siemens/Dade Behring

3 RIQAS TDPA: 7.1% Biological Variation: 3.9%

Your assay details at the end of the cycle.

The RIQAS TDPA and biological variation for the parameter are shown if available.

























| Sample | Result | Unit | N  | Mean     | SDPA | Um   | CV% | SDI   | TS  | % Deviation |
|--------|--------|------|----|----------|------|------|-----|-------|-----|-------------|
| 1      | 28.200 | g/l  | 68 | I 28.013 | 1.26 | 0.10 | 2.4 | 0.15  | 120 | 0.7         |
| 2      | 26.900 | g/l  | 87 | I 26.853 | 1.21 | 0.10 | 2.7 | 0.04  | 120 | 0.2         |
| 3      | 39.900 | g/l  | 71 | M 40.531 | 1.82 | 0.15 | 2.5 | -0.36 | 116 | -1.5        |
| 4      | 19.200 | g/l  | 81 | I 19.429 | 0.87 | 0.07 | 2.5 | -0.27 | 120 | -1.2        |
| 5      | 41.700 | g/l  | 67 | I 41.942 | 1.88 | 0.13 | 2.0 | -0.09 | 120 | -0.4        |
| 6      | 57.300 | g/l  | 87 | I 57.257 | 2.58 | 0.21 | 2.7 | 0.02  | 120 | 0.1         |
| 7      | 45.000 | g/l  | 72 | I 45.850 | 2.06 | 0.14 | 2.1 | -0.43 | 108 | -1.8        |
| 8      | 27.600 | g/l  | 87 | I 28.011 | 1.26 | 0.09 | 2.5 | -0.34 | 118 | -1.5        |
| 9      | 41.200 | g/l  | 70 | I 41.823 | 1.88 | 0.14 | 2.2 | -0.38 | 113 | -1.6        |
| 10     | 26.900 | g/l  | 83 | I 26.742 | 1.20 | 0.12 | 3.3 | 0.14  | 120 | 0.6         |
| 11     | 40.700 | g/l  | 71 | I 40.601 | 1.83 | 0.13 | 2.2 | 0.06  | 120 | 0.2         |
| 12     | 45.100 | g/l  | 80 | I 45.119 | 2.05 | 0.14 | 2.2 | -0.18 | 120 | -0.8        |
| 13     | 27.300 | g/l  | 63 | I 28.454 | 1.27 | 0.09 | 2.0 | -0.72 | 86  | -3.1        |

Cycle 45

1.63

Summary of your results and statistics are shown, including Mean for Comparison, SDPA, %CV, U<sub>m</sub>, SDI, Target Score, %Deviation.

|    |                            | •     |  |
|----|----------------------------|-------|--|
|    | Cycle Average SDI          | -0.23 |  |
| 15 | Cycle Average TS           | 110   |  |
|    | Cycle Average %DEV         | -1.05 |  |
|    |                            |       |  |
| 1/ | Cycle Average Absolute SDI | 0.36  |  |

Cycle Average Absolute %DEV

• I

Table containing a summary of your performance for previous cycle and current cycle, including Average Absolute SDIs and %Deviations

-0.18 116 -0.79

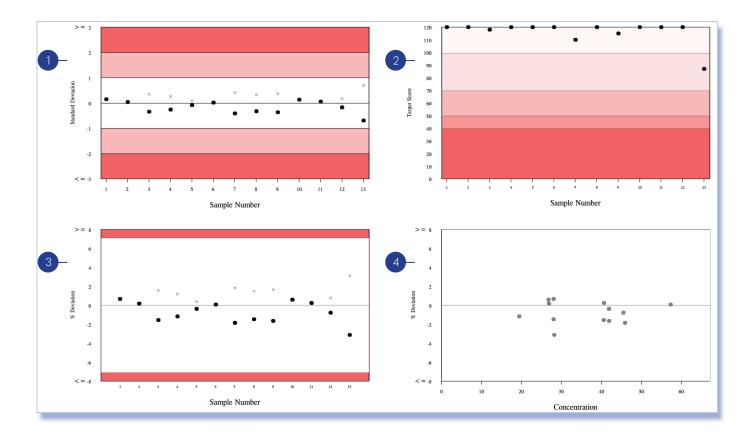
1.06

# **END-OF-CYCLE REPORT TEXT SECTION**

| 0   | Report presented in your chosen unit                 | Cycle average of your per<br>Deviation Index, Target Sc | formance indicators – Standard<br>core and %Deviation.   |  |  |
|-----|--|---|--|--|--|
| 2   | Your assay details as of the last sample             |   | (Sum of SDIs returned for the completed cycle)   |  |  |
| (3) | RIQAS TDPA and Biological variation                  | Cycle Average SDI =                                     | (Number of samples returned in cycle)  |  |  |
| 4   | Sample number  |   | , ,  |  |  |
| 5   | Your results for each sample                         | Cycle Average   | (Sum of your Target Scores returned for the completed cycle)   |  |  |
| 6   | Unit your result was returned in                     | Target Score =  | (Number of samples returned in cycle)  |  |  |
| 7   | Number of results used for statistical analysis      | Cycle Average   | (Sum of your %Deviations returned for the completed cycle)   |  |  |
| 8   | Mean for Comparison (including comparison level)     | %Deviation =  | (Number of samples returned in cycle)  |  |  |
| 9   | SDPA = Standard Deviation for performance assessment |   | , .  |  |  |
| 10  | Uncertainty of Mean for Comparison                   | regardless of the sign. Thi                             | e values of your SDI and<br>les show how far a value is from zero<br>s is an indication of the magnitude |  |  |
| 11  | Coefficient of Variation (%)                         | of accuracy.  | /O / Al   L   OD   |  |  |
| 12  | Your Standard Deviation Index                        | Cycle Average Absolute SDI =                            | (Sum of your Absolute SDIs returned for the completed cycle)   |  |  |
| 13  | Your Target Score                                    | Absolute OD   | (Number of samples returned in cycle)  |  |  |
| 14  | Your %Deviation                                      | Cycle Average   | (Sum of your Absolute %Deviations returned for the completed cycle)                                      |  |  |
|     |  | Absolute %Deviation =                                   |  |  |  |
|     |  |   |  |  |  |

# **END-OF-CYCLE CHART SECTION REPORT**

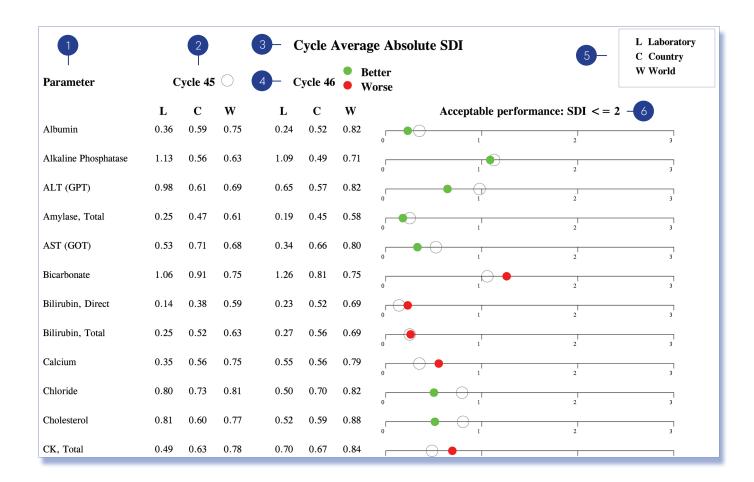
Your results for current cycle shown in various diagrams.



| Levey-Jennings chart              | Shows your SDIs for a full cycle.   |
|-----------------------------------|---|
|                                   | <ul> <li>Shows SDI (positive and negative)</li> <li>x Shows absolute SDI</li> </ul>   |
| Target Score chart                | Shows your Target Scores for a full cycle.  |
| %Deviation by sample chart        | Shows your %Deviations for a full cycle.  |
|                                   | Acceptable limits equal to TDPA unless alternative limits are registered by the lab.  • Shows %Deviation (positive and negative)  x Shows absolute %Deviation |
| %Deviation by Concentration chart | Shows your results for a full cycle.  |

# END-OF-CYCLE CURRENT & PREVIOUS CYCLE ABSOLUTE SDIs REPORT

Based on the cycle average absolute SDI, this chart provides a visual representation of your laboratory's performance compared to the previous cycle.



| Parameter list                            | List of all parameters registered.  |  |  |
|---|---|--|--|
| Results for previous cycle                | Indicated by open circle on the chart.  |  |  |
| Report title - Cycle Average Absolute SDI | This shows your performance this cycle compared to the previous cycle.  |  |  |
| Results for current cycle                 | Indicated by a closed circle on the chart.  |  |  |
| Legend                                    | Cycle Average Absolute SDIs are shown for:  |  |  |
|   | <ul><li>Your results throughout the cycle</li><li>All labs within your own country</li><li>All labs Worldwide</li></ul> |  |  |
| Graphical representation of Absolute SDIs | Acceptable performance is < 2.  |  |  |
|   | If Absolute SDI for current cycle is less than that for the previous cycle, this is indicated by a green circle.        |  |  |
|   | If Absolute SDI for current cycle is greater than that for the previous cycle, this is indicated by a red circle.       |  |  |
|   | The closer the circle is to zero, the better the performance.   |  |  |

# **END-OF-CYCLE CERTIFICATE OF PERFORMANCE REPORT**

An End-of-Cycle report will be issued for all registrations. However, the Certificate of Performance will only be available for parameters where results for at least 50% of samples in the cycle have been returned. Labs joining after the beginning of the cycle will only receive the Certificate of Performance if they meet this criterion. Any parameters not included on the Certificate of Acceptable Performance will be listed on the Notification of Unacceptable Performance.



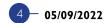
RANDOX INTERNATIONAL QUALITY ASSESSMENT SCHEME

### CERTIFICATE OF ACCEPTABLE PERFORMANCE

Laboratory Name
Laboratory Address
Country

2 LABORATORY REF. NO. 111/A





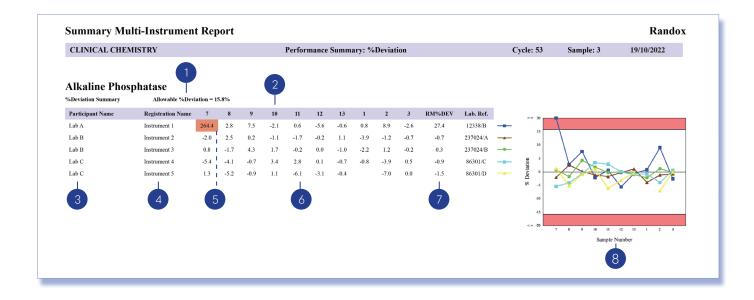
This is to certify that the above participant took part in a cycle of external quality assessment and achieved an acceptable level of performance (Cycle Average Absolute SDI < 2) for the following parameters:

| 5  | 6 Cycle Average Absolute SDI |
|--|------------------------------|
| Albumin - Bromocresol Green - Abbott Alinity i                       | 1.61                         |
| Alkaline Phosphatase - AMP optimised to IFCC - Abbott Alinity c      | 0.80                         |
| ALT (GPT) - Tris buffer without P5P - Abbott Alinity c               | 1.20                         |
| Amylase, Total - Other 2-chloro-pNPG3 - Abbott Alinity c             | 0.99                         |
| AST (GOT) - Tris buffer without P5P - Abbott Alinity c               | 0.50                         |
| Bile Acids - Enzymatic Colorimetric - Abbott Alinity c               | 0.49                         |
| Bilirubin, Direct - Diazo with Dichloroanaline - Abbott Alinity c    | 0.36                         |
| Bilirubin, Total - Diazo with Dichloroaniline - Abbott Alinity c     | 0.72                         |
| Calcium - Arsenazo - Abbott Alinity c                                | 0.69                         |
| Chloride - ISE, direct - Abbott Alinity c                            | 1.08                         |
| Cholesterol - Cholesterol Oxidase - Abell Kendall - Abbott Alinity c | 0.63                         |
| CK, Total - Abbott CK-NAC (IFCC) - Abbott Alinity c                  | 0.47                         |
| Creatinine - Alkaline picrate no deproteinisation - Abbott Alinity c | 1.42                         |
| GGT - Gamma glut3-carb4-nitro Abbott Alinity c                       | 0.83                         |
| Glucose - Hexokinase - Abbott Alinity c                              | 0.75                         |

| 1 | Full registration address | Your full registration address details.  |
|---|---------------------------|--|
| 2 | Your lab reference number | Used to identify each lab.   |
| 3 | Programme / cycle number  | Programme and current, completed cycle number.   |
| 4 | Date                      | Date End-of-Cycle report is issued.  |
| 5 | Parameters                | List of parameters including the assay details for which cycle absolute SDI is $< 2$ . |
| 6 | Average Absolute SDI      | Your Cycle Average Absolute SDI.   |

# **MULTI-INSTRUMENT REPORT**

Register up to five instruments per programme at no extra cost. In addition to a standard report for each instrument, a multi-instrument report is also provided allowing comparitive performance assessment.



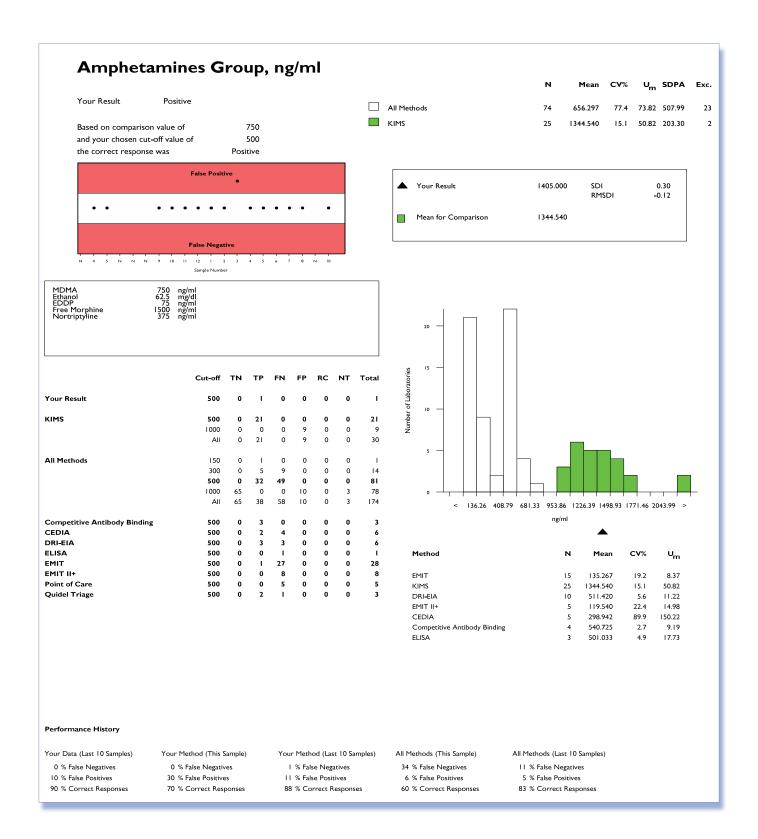


# URINE TOXICOLOGY REPORT

Laboratory performance is presented in both quantitative and qualitative screening formats, allowing for easy interpretation at-a-glance.

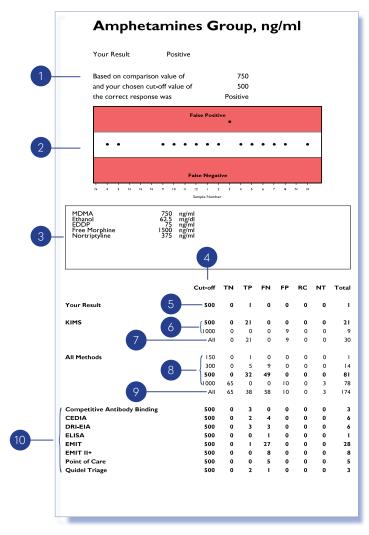
### **Screening Section**

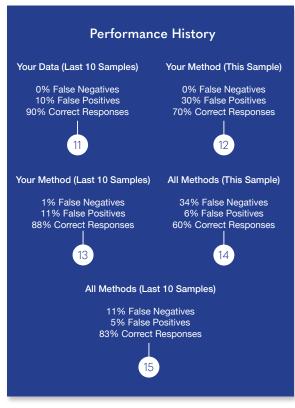
### **Quantitative Section**



# URINE TOXICOLOGY REPORT SCREENING SECTION

Qualitative comparison of screening results available for each parameter.





- Text section shows the correct response for the lab based on a comparison between the comparison value and the lab's cut off value.
- Screening Results: This chart is a quick visualisation of your performance over the last 20 samples. A result in the white section indicates a correct response. A result in the upper red section indicates a False Positive response, and a result in the lower red section indicates a False Negative response.
- Comment section for RIQAS to provide your laboratory with additional relevant information regarding this sample, such as spiked metabolite concentration.
- Screening result response categories. All abbreviations indicated at the bottom of the report page.

Key

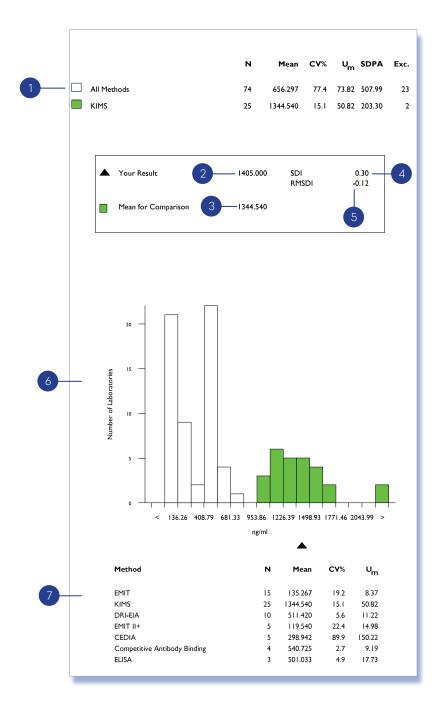
 $\overline{TN}$  - true negative  $\overline{TP}$  - true positive  $\overline{FN}$  - false negative  $\overline{FP}$  - false positive  $\overline{RC}$  - sent for confirmation  $\overline{NT}$  - not tested

- Screening Summary: Your screening result shown in the appropriate response category and your cut off for this sample.
- Screening results for all cut-offs returned for this sample within your method group.

- 7 Total screening results over all cut-offs for your laboratory's method.
- Screening results for all cut-offs returned for this sample over all methods.
- Total screening results over all cut-offs for all methods.
- Screening results for other methods using same cut-off as your laboratory.
- Performance history for this parameter, based on previous 10 samples.
- Performance of your method over all cut-offs for this sample.
- Performance history of your method over all cut-offs, based on the previous 10 samples.
- Performance of all methods over all cut-offs for this sample.
- Performance history of all methods over all cut-offs, based on the previous 10 samples.

# URINE TOXICOLOGY REPORT QUANTITATIVE SECTION

### Quantitative statistical comparison available for each parameter.



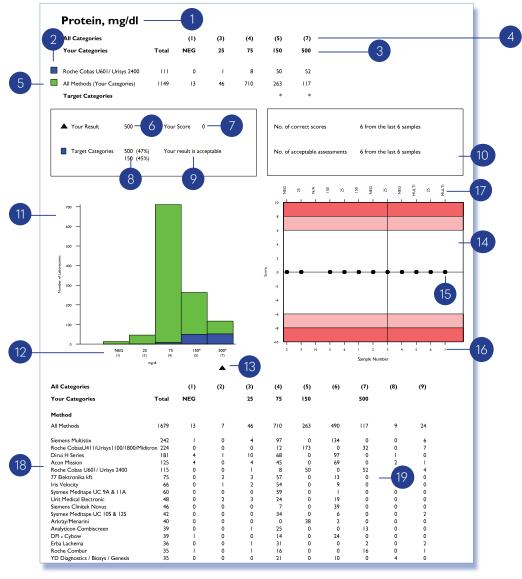
- Quantitative Text Section: Comparison statistics. Caution is needed when the N value is too small to support statistical significance.

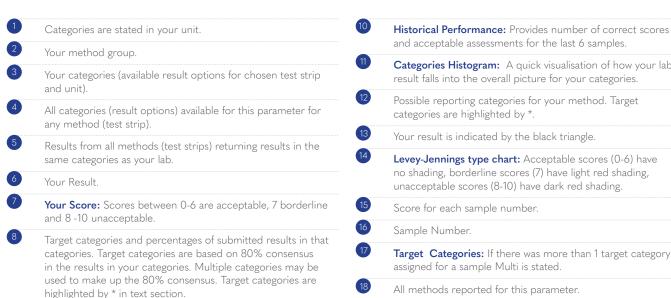
  Your Result.

  Standard Deviation Index = (Your Result Mean for Comparison)
  SD of Mean for comparison
- Running mean SDI = average of last 10 SDIs for this parameter (If fewer than 10 results, "Too Few" is printed).
- Quantitative Results Histogram: This graph provides a quick visualisation of how your quantitative result falls into the overall picture for all methods and your method group.
- All available method statistics for this sample.

# URINALYSIS REPORT

### Your performance for each parameter is presented in a simple, convenient report.

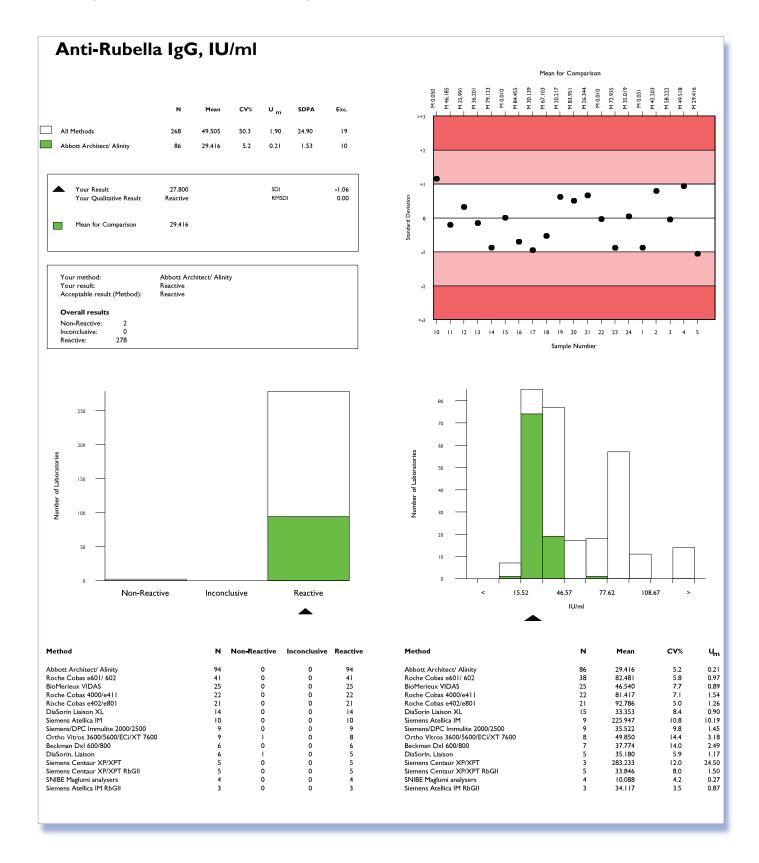




Performance Statement.

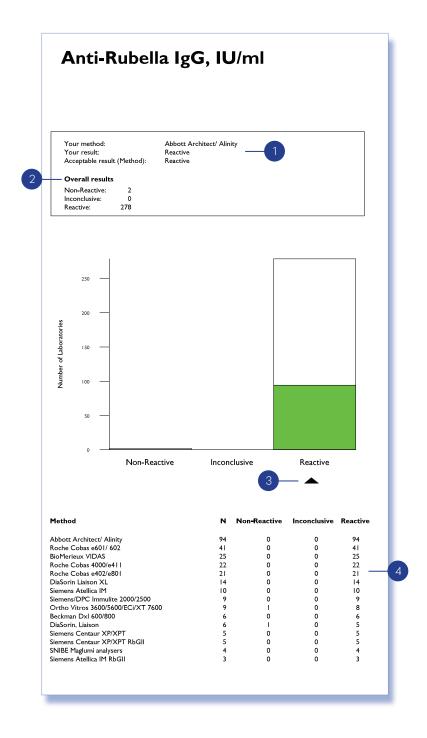
# **SEROLOGY REPORT**

Laboratory performance is presented in both quantitative and qualitative screening formats, allowing for easy interpretation at-a-glance.



# **SEROLOGY: QUALITATIVE REPORT**

Your performance for each sample is presented in a convenient single page per parameter report format.



Your qualitative result and chosen method are presented along with the acceptable result based on an 80% consensus. This consensus will be at the method level if there are >=5 labs in the group or if there are <5 labs, will be at the all method level.

Overall Summary shows the number of results for this parameter and sample which are non-reactive, inconclusive or reactive.

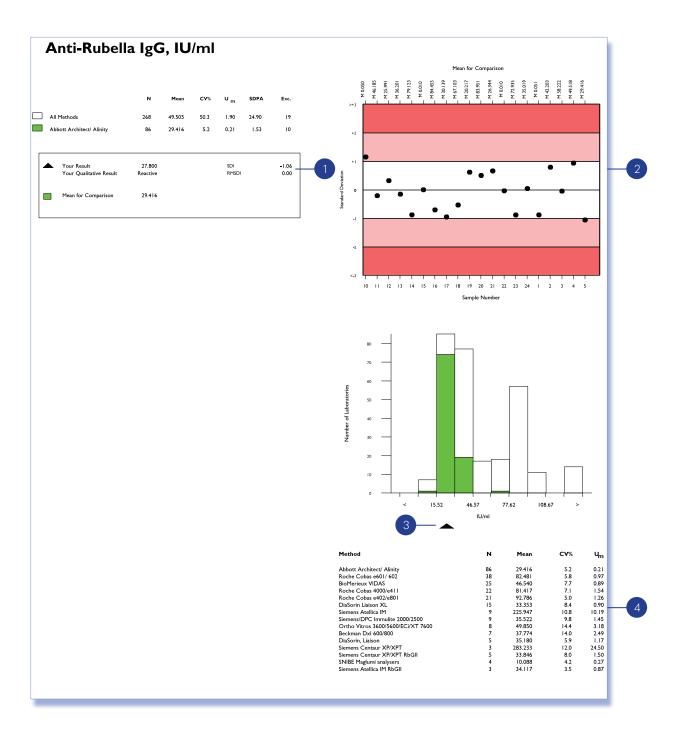
Your Result is shown as a black triangle on the category chart compared to other laboratories in groups:

All Methods Your Method

Summary shows performance of all the methods used to analyse the parameter.

# SEROLOGY: SCREENING (QUANTITATIVE) REPORT

Your performance for each sample is presented in a convenient single page per parameter report format.





2 Levey-Jennings chart - Your SDIs for previous 20 samples.

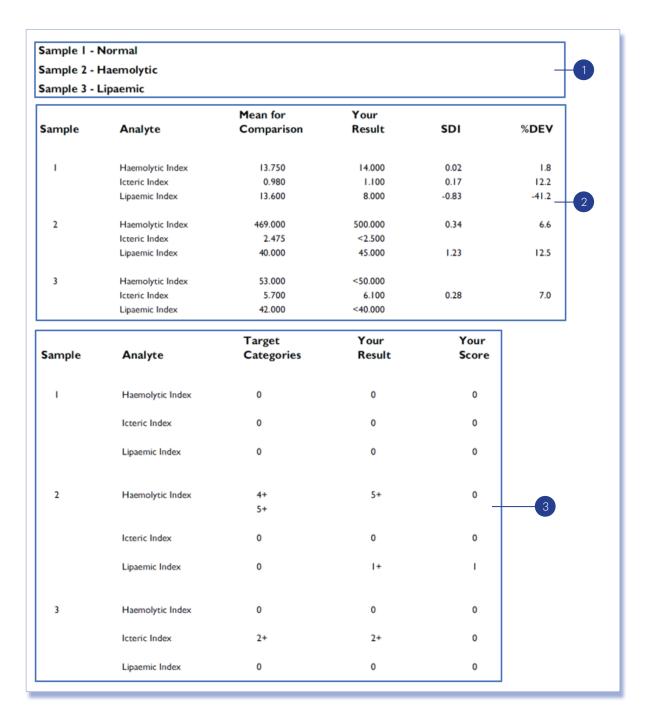
Your result is presented on the bar graph as a black triangle, showing how you compare to:

All Methods Your Method

Multi Method Statistics section provides an easy way of assessing the performance of the methods used to analyse the parameter.

# **SERUM INDICES: SUMMARY PAGE**

The RIQAS Serum Indices EQA programme is designed for the pre-analytical assessment of Haemolytic, Icteric and Lipemic (HIL) interferences. HIL parameters include the option of quantitative or semi-quantitative reporting. Interpretation of chemistry parameter results is also included for a number of parameters. The summary page collates the key information on both the quantitative and qualitative results for the HIL parameters.





The next section shows the summary of the quantitative results for the Serum Indices and your performance (SDI and %DEV) for each sample.



The final section shows the summary of the semi-quantitative results for the Serum Indices. This includes the target categories based off an 80% consensus in the results, your result and your score for each of the samples.

# **SERUM INDICES REPORT**

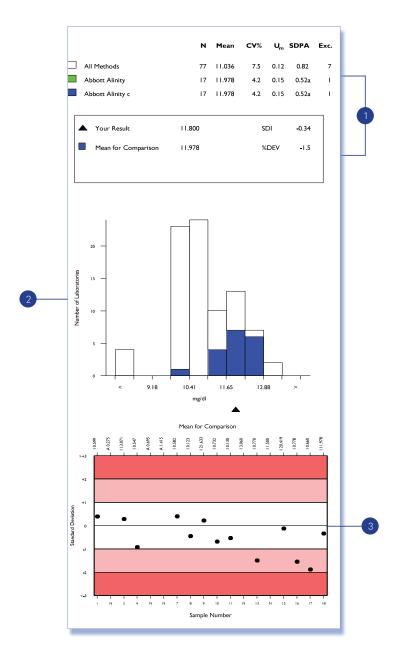
The summary section is followed by report pages for the 3 serum indices parameters. There will be 3 pages for each index – one for each sample.

# **Quantitative Section** Semi-quantitative Section Icteric Index, mg/dl Sample 18 Icteric SDPA ☐ All Methods 0.12 0.82 ■ IIAAC\* 0.15 0.52a Abbott Alinity c 17 11.978 4.2 0.15 0.52a ▲ Your Result 3+ Your Result 11.800 SDI -0.34 Target Categories 3+ Mean for Comparison %DEV -1.5 \* IIAAC = Abbott Alinity Categories 20.419 Variation from Target Standard Deviation

Under the Serum Index parameter name the report will display the sample status e.g. if the sample should be flagging as haemolytic, icteric or lipaemic. As with all reports, the results contained within the report pages will be in the unit selected by the lab during the registration process.

# SERUM INDICES REPORT: QUANTITATIVE SECTION

### Quantitative comparison of results available for each index.



Text Section: In the text section you will see the All method, method and instrument means for comparison in addition to the respective statistics. Below this you will see your result, your Mean for comparison and your performance (SDI and %DEV) for this specific sample. For samples which do not hit specific flags for the indices, a large proportion of analysers will have a less than (<) setting. On a RIQAS report these will be counted in the excluded column. As one sample in each distribution will be a normal sample, it is likely there will be a large number of (<) results returned for these samples so we are indicating in this section the percentage of results that have been returned as a < or > result to allow labs to see if the number of excluded results is high that there is an explanation for this.



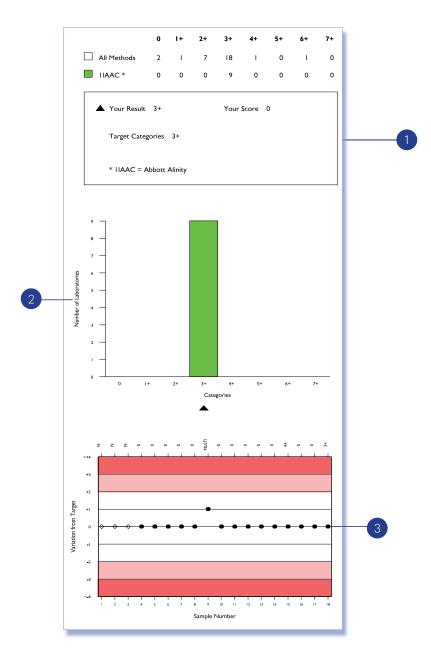
**Histogram:** As with other RIQAS reports, this histogram shows an overview of the spread of the results that have been returned for each level of comparison (all method (white), method (green) and instrument (blue)). The lab's result is indicated by the black triangle at the bottom of the chart.

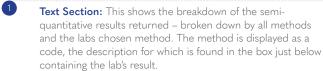


**Levey Jennings style chart:** The Levey Jennings chart will display the lab's SDIs. These reflect laboratory performance in relation to SDPAs and are useful to monitor performance over time. Acceptable performance is SDI < 2. The sample numbers will be displayed along the bottom of the chart and the Means for Comparison including the level will be displayed along the top of the report.

# SERUM INDICES REPORT: SEMI-QUANTITATIVE SECTION

Semi-quantitative comparison of the results available for each parameter.





The lab's result, target categories (based on an 80% consensus), and the lab's score based on how many categories away from the target category the result is, are displayed below the breakdown of each category.

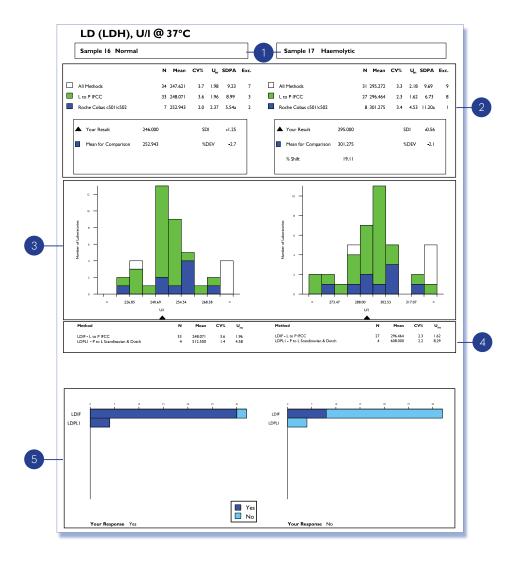


Levey Jennings chart: This chart will display the lab's score or variation from the target category.

The sample numbers will be displayed along the bottom of the chart and the target categories along the top. If there is more than one target category, the chart will display the word 'Multi'.

### SERUM INDICES REPORT: CHEMISTRY PARAMETER PAGE

Following the report pages for the 3 Serum Indices, there are the report pages for any chemistry parameters labs have registered for. There are 2 pages for each parameter, one showing the comparison between the first sample (the normal sample) and the second sample and the second page showing the comparison between the first and third sample respectively.



Sample Status: Under the chemistry parameter name the report will display the sample status e.g. if the sample should be flagging as haemolytic, icteric or lipaemic for the 2 samples being compared. As with all reports, the results contained within the report pages will be in the unit selected by the lab during the registration process.

The rest of the report page shows the same information for each of the 2 samples being compared.

The first sample of the 3 in each distribution will be the normal sample, the other 2 may or may not flag for one or more of the Indices.

Text Section: In the text section you will see the all method, method and instrument means for comparison and the respective statistics. Below this you will see you result, your Mean for comparison and your performance (SDI and %DEV) for this specific sample.

The % shift in the Means for Comparison between the normal and the affected sample is displayed in the results box for the second and third sample. www.labcarecolombia.com

3 **Histogram:** As with other RIQAS reports, this histogram shows an overview of the spread of the results that have been returned for each level of comparison (all method (white), method (green) and instrument (blue)). The lab's result is indicated by the black triangle at the bottom of the chart.

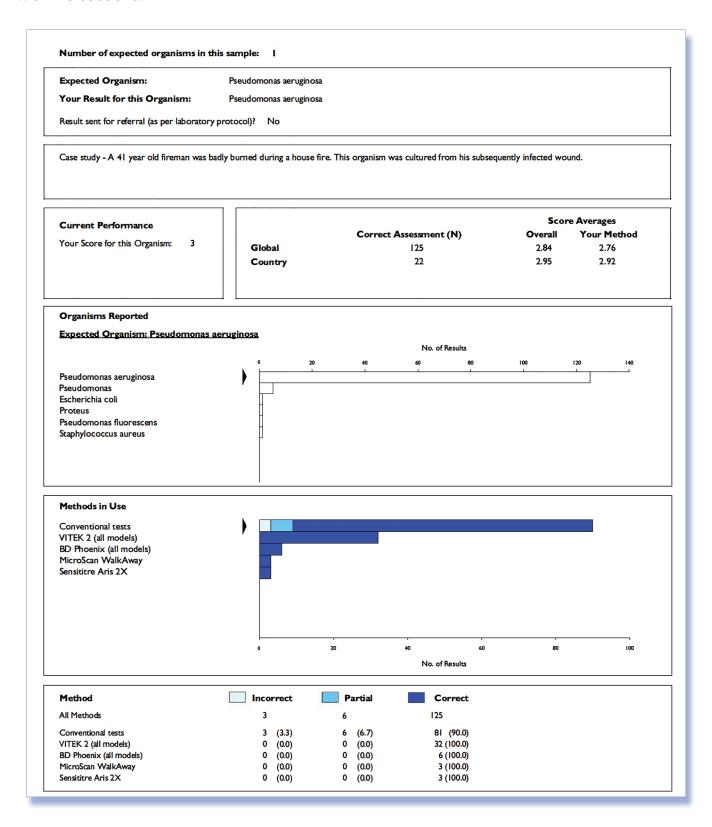
Method Summary Section: As with other RIQAS reports, this section provides an easy way of assessing the performance of other methods used to analyse the parameter in question. The code at the beginning of the description is the key to the following section - Reporting of the Result based on Serum Indices flag.

Reporting of the Result based on Serum Indices flag:

Depending on the Index that has been flagged, the lab may choose to not report the result to the clinician. In this section the lab can report on whether they would report the result for this parameter based on the result from the Serum Indices analysis.

# **BACTERIAL IDENTIFICATION REPORT**

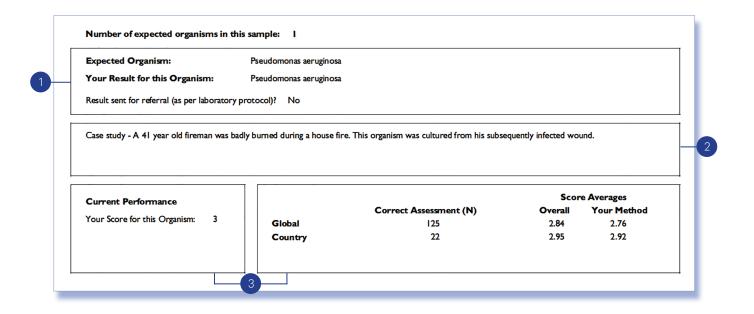
Presented in a convenient single report, all results for the current sample will be displayed within 6 sections.



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### **BACTERIAL IDENTIFICATION REPORT**

Participants can quickly and easily identify their performance for the current sample against their peers across geographic locations and those utilising same methodologies. Each section is explained in further detail below.



- Sample Results: This shows the expected organism, the labs selected organism and information on the laboratory protocol being followed. Information on the lab's protocol will have an effect on the scoring for this sample.
- Case Study: Clinical details are provided for each sample.
- Performance Scoring: This will contain the lab's specific score for this sample. It will also show the correct assessments and overall scoring with the lab's country and globally.

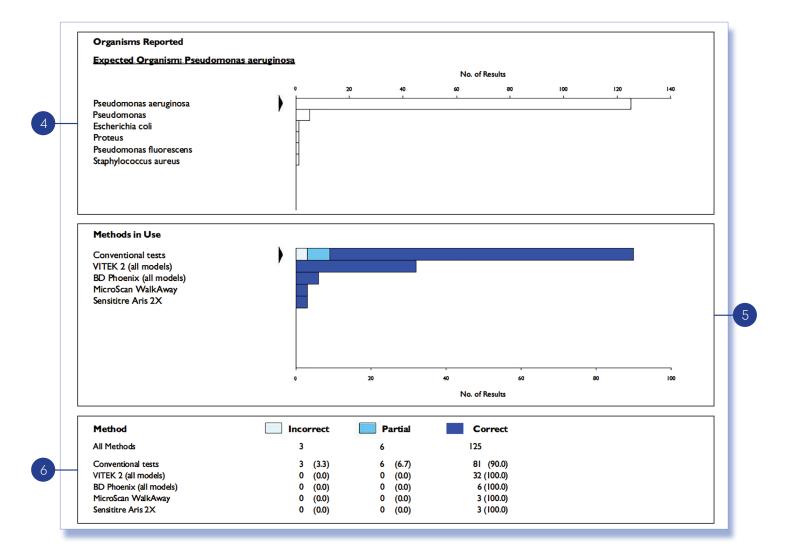
#### If sample is NOT sent for referral, scoring is marked out of 3

- Correct Genus + species = 3
  Correct Genus + species is blank, if this is lab protocol = 3
- Correct Genus + species is blank = 1
- Incorrect Genus and species but correct Gram stain = 0
- Incorrect Genus, species and Gram stain = -1

#### If sample is sent for referral, scoring is marked out of 2

- Correct Genus + species = 2
- Correct Genus + species is blank, if this is lab protocol = 2
- Correct Genus + species is blank = 1
- Correct Genus + incorrect species = 1
- Incorrect Genus and species but correct Gram stain = 0
- Incorrect Genus, species and Gram stain = 0

## **BACTERIAL IDENTIFICATION REPORT**



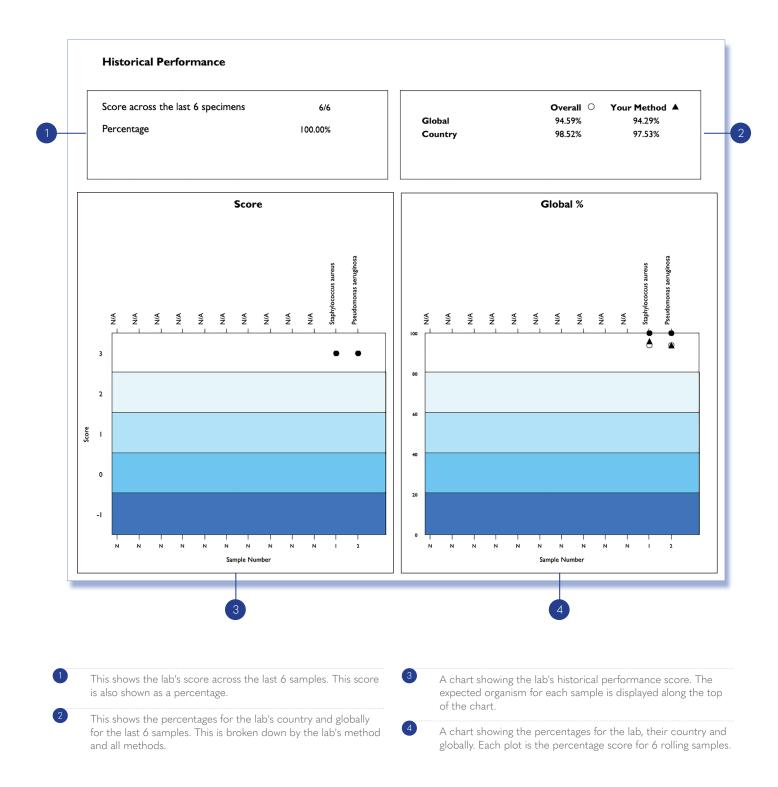




Method Summary Section: This is a table providing the number of responses by method. The figures in brackets indicate the percentage of responses for each method. Labcare de Colombia www.labcarecolombia.com

# **BACTERIAL IDENTIFICATION - HISTORICAL PERFORMANCE**

Track your performance across the previous 12 specimens using this one-page report.



## ANTIMICROBIAL SUSCEPTIBILITY TESTING

Antimicrobial susceptability testing table details all reported antibiotics for current sample and AST response.

|                             | _         |              |           |                     |               |
|-----------------------------|-----------|--------------|-----------|---------------------|---------------|
| Organism: Pseudomonas aerug | ginosa    |              |           |                     |               |
| Antibiotic                  | Resistant | Intermediate | Sensitive | Your Result (Score) | Target        |
| Amikacin                    | 2         | 2            | 107       | Sensitive (2/2)     | Sensitive (Y) |
| Amoxicillin                 | 2         | 0            | 0         |                     | Too Few       |
| Amoxicillin/Clavulinic Acid | 2         | 0            | 0         |                     | Too Few       |
| Ampicillin                  | 6         | 0            | 1         |                     | Resistant (A) |
| Ampicillin/Sulbactam        | 1         | 0            | I         |                     | Too Few       |
| Azithromycin                | 0         | 1            | 0         |                     | Too Few       |
| Aztreonam                   | 1         | 9            | 15        | Intermediate (N/A)  | N/A           |
| Cefazolin                   | 3         | 1            | 0         |                     | Too Few       |
| Cefepime                    | 2         | 25           | 68        | Intermediate (2/2)  | Intermediate  |
| Cefixime                    | 2         | 0            | 0         |                     | Too Few       |
| Cefodime                    | 0         | 2            | 3         |                     | Too Few       |
| Cefoperazone                | 0         | 0            | 1         |                     | Too Few       |
| Cefoperazone/Sulbactam      | 0         | 0            | I         |                     | Too Few       |
| Cefotaxime                  | 8         | 0            | 0         |                     | Resistant (A) |
| Cefoxitin                   | 1         | 0            | 1         |                     | Too Few       |
| Cefpodoxime                 | 1         | 0            | 1         |                     | Too Few       |
| Ceftazidime                 | 1         | 29           | 80        | Intermediate (1/2)  | Sensitive (A) |
| Ceftazidime/Avibactam       | 0         | 0            | 5         |                     | Sensitive (A) |
| Ceftolozane/Tazobactam      | 0         | 1            | 6         |                     | Sensitive (A) |
| Ceftriaxone                 | 2         | 0            | 0         |                     | Too Few       |
| Cefuroxime                  | 3         | 0            | 0         |                     | Too Few       |
| Ciprofloxacin               | 0         | 33           | 85        | Intermediate (2/2)  | Intermediate  |
| Clindamycin                 | 0         | 0            | 1         |                     | Too Few       |
| Colistin                    | 1         | 6            | 17        |                     | Sensitive (Y) |
| Cotrimoxazole               | 1         | 0            | 0         |                     | Too Few       |
| Doripenem                   | 0         | 0            | 6         |                     | Sensitive (A) |
| Doxycycline                 | 1         | 0            | 0         |                     | Too Few       |
| Ertapenem                   | 2         | 0            | 0         |                     | Too Few       |
| Erythromycin                | 0         | 0            | 1         |                     | Too Few       |
| Fosfomycin                  | 4         | 0            | 0         |                     | Too Few       |
| Gentamicin                  | 6         | 5            | 80        | Sensitive (2/2)     | Sensitive (Y) |
| Imipenem                    | 13        | 27           | 57        | Intermediate (2/2)  | Intermediate  |

- Target based on 80% agreement or at least 30% more than next common response
- Target requires at least 5 responses or else 'Too Few' is recorded
- Target is based initially on lab's guideline (Y) followed by all guidelines (A) if lab's guideline does not fulfil criteria. If neither of these are met then target recorded as N/A
- Participant responses are recorded for each antibiotic
- Participant responses from an incorrectly or partially identified organism are not included in totals

#### Scoring

- If target is Sensitive
  - Response of sensitive = 2 Response of intermediate = 1
  - Response of resistant = 0
- If target is Resistant
- Response of sensitive = -1
  Response of intermediate = 1
  Response of resistant = 2

- If target is Intermediate
- Response of sensitive = 1
- Response of intermediate = 2 Response of resistant = 1
- No scoring possible if target is N/A or Too Few

## **ANTIMICROBIAL SUSCEPTIBILITY TESTING**

Antimicrobial susceptability testing table details all reported antibiotics for current sample and AST response.

|             | lauvulanic Acid                   | 0                     | 7 |                | Intermediate (2/2) | Intermediate (A) |
|-------------|-----------------------------------|-----------------------|---|----------------|--------------------|------------------|
| Tigecyclin  |                                   | 11                    | 0 | 0              |                    | Resistant (A)    |
| Tobramycin  |                                   | I                     | 0 | 53             | Sensitive (2/2)    | Sensitive (Y)    |
| Trimethopr  | im/Sulfamethoxazole               | 6                     | 2 | I              |                    | N/A              |
| Vancomycin  |                                   | 0                     | 0 | 1              |                    | Too Few          |
| Your Guidel | deline: EUCAST<br>ines            | 350 out o<br>1755 out |   | 76.8%<br>85.7% |                    |                  |
| 3 of your   | antibiotics have no target and ar | re not scored         |   |                |                    |                  |



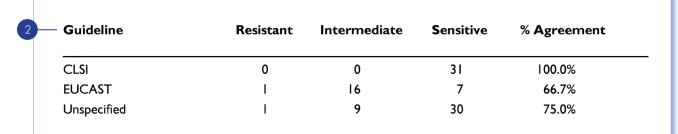
• A total score for the participants responses that had targets is provided for the participant

#### Your Score

• A total score for all antibiotics that had targets is provided for

Your Guideline All Guidelines

### Cefepime



2 Guideline Analsyis

• For each antibiotic that has a target assigned, a breakdown of the responses per guideline is provided

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## MONITORING EQA PERFORMANCE

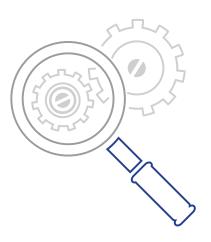
Each EQA report should be evaluated and any poor performance investigated. A step by step approach should be adopted consisting of the following three steps:

#### 1. Investigate the source of the problem

In order to identify the source of the problem, it is useful to be aware of the most common causes of poor EQA performance. Errors can occur at any stage of the testing process; however, EQA is most concerned with detecting analytical errors i.e. errors that occur during the analysis of the sample.

Most analytical errors can be easily divided into three main areas; clerical errors, systematic errors and random errors. Systematic errors result in inaccurate results that consistently show a positive or negative bias. Random errors, on the other hand, affect precision and result in fluctuations in either direction.

It may be possible that, after extensive investigations, the root cause of the poor performance cannot be established. Poor performance for a single sample could be attributed to random error. If poor performance has been noted for several samples, a systematic error is the most likely cause and the analytical process should be reviewed.



#### Clerical errors

- Transcription errors
- Incorrect units used
- Incorrect sample tested
- Incorrect method classification
- Calculation/conversion error

#### Systematic errors

- Sample/Reagent prep/handling
- Reagent/calibrator/standardisation change
- Instrument/reagent/calibrator fault
- Inexperienced operators
- Reagent deterioration
- Inappropriate method

#### Random errors

- Bubbles in reagent
- Bubbles in reagent/sample pipette
- Temperature fluctuations
- Poor pipetting technique
- Poor operator technique

The flowchart (page 29) is designed to help you investigate any apparent poor performance.

#### 2. Implement corrective actions

Some errors can be readily recognised as simple clerical errors and easily corrected. If there is evidence of systematic or random error however more detailed corrective actions must be taken.

#### Systematic Error

In the event of a systematic error, the following suggested actions may help to resolve the problem:

- Perform instrument maintenance Review reagent/sample storage
- Recalibrate instrument
- Check pipettes

- Prepare fresh reagents & re-run sample
- · Perform staff training

#### Random Error

If all possible causes have been excluded, a single unacceptable result is most likely due to random error. Rerun the sample; if the result of repeat analysis is acceptable then corrective action is not required. If the issue persists, investigate possible sources of systematic error.

#### 3. Check the effectiveness of corrective actions

The effectiveness or impact of any corrective actions taken can be assessed by continuing to monitor analytical performance over time.

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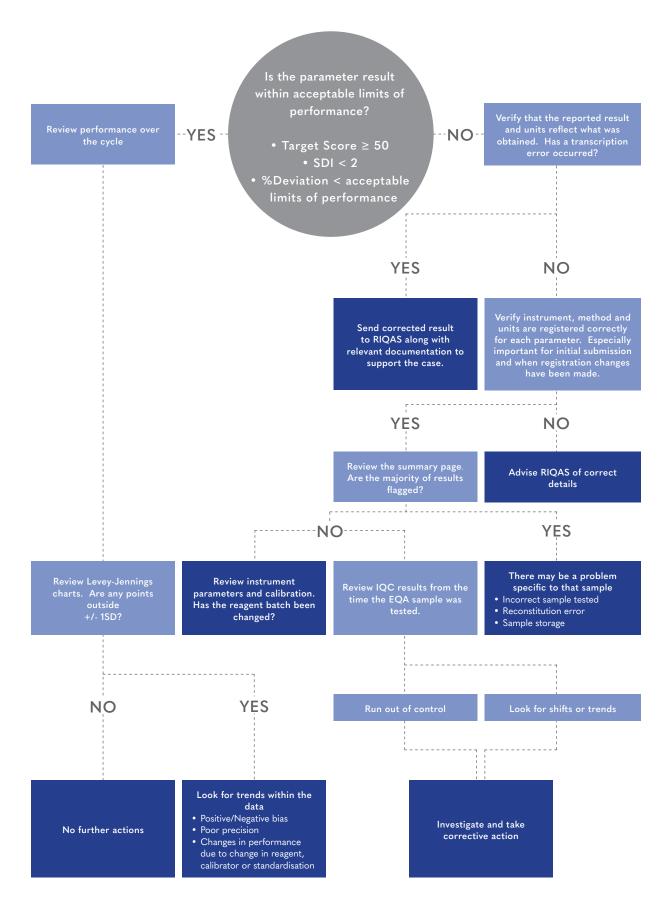
# MONITORING EQA PERFORMANCE

A checklist similar to the one below is extremely useful when investigating poor EQA performance and may help you to determine the root cause of the problem and initiate corrective actions.

| •  |   |
|--|---|
| Cycle Number:  | •   |
| Analysis Date:   | •   |
| Mean for Comparison:                                       | Lab Result: SDI: %Dev:  |
| 1. Specimen Handling                                       |   |
| a. Samples received in good condition                      | e. Error due to imprecision; check IQC in terms of            |
| b. Samples stored/prepared appropriately                   | N %Deviation compared to deviation observed in EQA N          |
| c. Integrity of the sample is acceptable                   | N f. IQC target correctly assigned                            |
| 2. Clerical  | 5. Calibration  |
| a. Correct result entered                                  | a. Date of last calibration                                   |
| b. Correct use of decimal point and units                  | b. Calibration frequency acceptable                           |
| c. Calculations, if any, performed correctly               | c. Last calibration acceptable                                |
| (even if automated)  |   |
| d. Conversion factors applied to results before submission | 6. Instrument   |
|  | a. Daily maintenance performed on date of sample analysis 🕚 N |
| 3. Registration and Mean for Comparison                    | b. Special maintenance performed prior to sample analysis 🕦 🔃 |
| a. Registered in the correct method/instrument group       | c. Instrument operated correctly                              |
| b. Changed method or instrument without advising RIQAS     | d. Operator fully trained                                     |
| c. Peer Group changed due to the number of participants    |   |
| returning results e.g. from method to instrument           | N 7. Reagents   |
| d. An obvious bias between method and instrument means     | a. Reagents prepared and stored correctly                     |
| (check histogram and stats sections)                       | b. Reagents within open vial stability                        |
| 4. Internal Quality Control                                | 8. EQA sample   |
| a. %Deviation of IQC (at similar conc to that of EQA) on   | a. Initial value  |
| sample analysis date acceptable                            | b. Re-run value   |
| b. Shift in IQC in the periods just before and after EQA   | c. Issue observed in previous EQA samples at a similar        |
| sample analysis  | N concentration (check %Deviation by concentration and        |
| c. Trends in IQC in the periods before and after EQA       | Levey Jennings charts)  |
| sample analysis  | d. All parameters affected (to the same extent) - possible    |
| d. Random IQC variation on sample analysis date            | reconstitution error (check %Deviation on summary pages)      |
| Conclusion:  |   |
|  |   |
|  |   |
| Lab Manager: Date:   | Lab Director: Date:   |

# MONITORING EQA PERFORMANCE

The flow chart below can be used to help identify a possible root cause for poor EQA performance.



#### Ammonia/Ethanol Programme With target scoring



RQ9164 (2 ml)

2 Parameters

Samples every month, 1 x 12 month cycle, 12 month subscription

Ethanol

# Anti-Müllerian Hormone (AMH) Programme+ 👢



1 Parameter Samples every month, 1 x 12 month cycle, 12 month subscription

Anti-Müllerian Hormone (AMH)

### Anti-TSH Receptor Programme+ With target scoring



RQ9174 (1 ml)

1 Parameter

Samples every month, 1 x 12 month cycle, 12 month subscription

Anti-TSH Receptor (TRAb)

#### Blood Gas Programme With target scoring



RQ9134/A (1.8 ml) RQ9134 (1.8 ml) First registered instrument Subsequent instruments 11 Parameters 11 Parameters Samples every month, 1 x 12 month cycle, 12 month subscription

Bicarbonate CO<sub>2</sub>(Total) Са++ Glucose Na+ pO, рСО, Lactate

### BNP Programme+ With target scoring



RQ9165 (1 ml)

1 Parameter Samples every month, 1 x 12 month cycle, 12 month subscription

## Cardiac Programme With target scoring



RQ9127/a (1 ml) RQ9127/b (1 ml) 2 Parameters only (choose from 7) **Full 7 Parameters** Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription

RQ9186 (1 ml) Full 7 Parameters Samples every month, 1 x 12 monthly cycle, 12 month subscription

CK-MB (Mass) CK. Total Myoglobin Troponin T CK-MB (Activity) Homocysteine Troponin I

### Cardiac Plus Programme With target scoring



RQ9190 (3 ml) 11 Parameters

Samples every month, 1 x 12 month cycle, 12 month subscription

CK, Total D-dimer hsCRP Troponin I CK-MB Activity Myoglobin Troponin T Digoxin CK-MB Mass NT proBNP Homocysteine

### Cerebrospinal Fluid Programme+ With target scoring



RQ9168 (3 ml)

Samples every month, 1 x 12 month cycle, 12 month subscription

Albumin Glucose Lactate Sodium Chloride ΙgG Protein (Total)





PURPLE = The only parameters available on RQ9135/a

+ = Not accredited

### Coagulation Programme With target scoring



RQ9135/a (1 ml) RO9135/b (1 ml) 5 Selected parameters only + 1 pilot Full 16 Parameters + 1 pilot (aPTT, PT, TT, Fibrinogen, Antithrombin III)
Samples every month, 1 x 12 month cycle, 12 month subscription

D-dimer\* PT (including INR) Factor II Factor V Fibrinogen Factor VII Antithrombin III Factor VIII Factor IX Factor X Factor XI Factor XII Plasminoger

Protein C Protein S

### CO-Oximetry Programme+



Carboxyhaemoglobin (COHb / HbCO) Methaemoglobin (MetHb) Deoxyhaemoglobin (HHb) Oxygen Content (O2CT)

Oxygen Saturation (sO2 / Vol O2) Oxyhaemoglobin (O2Hb / HbO2)

Total Haemoglobin (tHb)

### CYFRA 21-1 Programme+

RQ9175 (1 ml) 1 Parameter

Samples every month, 1 x 12 month cycle, 12 month subscription

CYFRA 21-1 (Cytokeratin 19)

### Cytokines Programme+ 🦶

RQ9195 (1 ml) 1 Parameter + 11 pilots

Samples every month, 1 x 12 month cycle, 12 month subscription

Epidermal Growth Factor (EGF)\* Interleukin - 1 alpha (IL-1a)\* Interleukin - 1 beta (IL-1β)\* Interleukin – 2 (IL-2)\*

Interleukin - 4 (IL-4)\* Interleukin – 6 (IL-6) Interleukin - 8 (IL-8)\* Interleukin - 10 (IL-10)\* Interferon gamma (INF-Y)\* Monocyte Chemoattractant Protein -1 (MCP-1)\* Tumour Necrosis Factor alpha (TNF-α)\* Vascular Endothelial Growth Factor (VEGF)<sup>3</sup>

ESR Programme+



RQ9163 (4.5 ml) 1 Parameter

2 samples per quarterly distribution, 1 x 12 month cycle, 12 month subcription

ESR (Erythrocyte Sedimentation Rate)

## General Clinical Chemistry Programme With target scoring



RQ9112/a (5 ml) RQ9112/b (5 ml) RQ9112/c (5 ml) RQ9128 (5ml) 10 Parameters Full 56 Parameters 17 Parameters Full 56 Parameters Samples every month, 1 x 12 monthly cycle, 12 month subscription Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription, reference method values

ACE (Angiotensin Converting Enzyme) Acid Phosphatase (Prostatic) Acid Phosphatase (Total) Albumin Alkaline Phosphatase ALT (ALAT)

Amylase (Pancreatic) Amylase (Total) AST (ASAT) Bicarbonate Bile Acids Bilirubin (Direct) Bilirubin (Total)

Calcium, Adjusted Calcium (Ionised) Chloride Cholesterol Cholinesterase CK, Total (CPK) Copper Creatinine D-3-Hydroxybutyrate

eGFR (estimated glomerular filtration rate) Fructosamine νGT . GLDH Glucose

HBDH HDL-Cholesterol Iron Lactate LD (LDH) LDL-Cholesterol Lipase Lithium Magnesium Non-HDL Cholesterol

NFFA Osmolality Phosphate (Inorganic)

Protein (Total) PSA Sodium TIBC T<sub>3</sub> (Free)
T<sub>3</sub> (Total)
T<sub>4</sub> (Free)
T<sub>4</sub> (Total) Triglycerides TSH **UIBC** Urea Uric Acid Zinc

### Glycated Haemoglobin Programme (HbA1c) With target scoring



RQ9129 (0.5ml)

Samples every month, 1 x 12 month cycle, 12 month subscription

HbA1c Total Haemoglobin





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+ = Not accredited

### Haematology Programme With target scoring



RQ9118 (2 ml) RO9140 (2ml) 11 Parameters 11 Parameters Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription Samples every month, 1 x 12 monthly cycle, 12 month subscription

Mean Cell Haemoglobin Concentration Haematocrit (HCT) Haemoglobin (Hb) (MCHC)

Mean Cell Haemoglobin (MCH) Mean Cell Volume (MCV) Mean Platelet Volume (MPV) Platelets (PLT)

Plateletcrit (PCT)

Red Blood Cell Count (RBC) Red Cell Distribution Width (RDW) Total White Blood Cell Count (WBC)

#### Human Urine Programme With target scoring



RQ9115 (2 x 10 ml) RQ9185 (10ml) 25 Parameters 25 Parameters Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription Samples every month, 1 x 12 monthly cycle, 12 month subscription

Protein (Total) Creatinine Normetanephrine Albumin/Microalbumin Magnesium Sodium Dopamine Amylase Epinephrine Osmolality Urea Calcium Glucose Oxalate Uric Acid Chloride Metanephrine Phosphate (Inorganic) VMA Copper Norepinephrine Potassium 5-HIAA Cortisol

### Immunoassay Programme With target scoring



RQ9125/b (5 ml) RQ9125/a (5 ml) RQ9125/c (5 ml) RQ9130 (5 ml) 4 Parameters only + 2 pilots Full 49 Parameters + 2 pilots 13 Parameters only + 2 pilots Full 49 Parameters + 2 pilots Samples every month, 1 x 12 month Samples every two weeks, 2 x 6 monthly cycles, 12 month subscription (RQ9125/a, RQ9125/b, RQ9125/c) cycle, 12 month subscription RQ9130)

T<sub>4</sub> (Free) ACTH DHEA-Sulphate 17-OH-Progesterone DHEA Unconjugated Paracetamol T<sub>4</sub> (Total) Phenobarbital Testosterone (Free)\* Aldosterone Digoxin Ferritin Amikacin Phenytoin Testosterone (Total) Androstenedione Folate Progesterone Theophylline  $\beta\text{-}2\text{-}Microglobulin$ FSH Prolactin Thyroglobulin CA125 PSA (Free) TSH Gentamicin CA15-3 GH PSA (Total) Valproic Acid CA19-9 hCG PTH Vancomycin Carbamazepine Salicylate lgE CEA Insulin SHBG 1-25-(OH)2-Vitamin D\* T<sub>3</sub> (Free) T<sub>3</sub> (Total) Cortisol IН 25-OH-Vitamin D C-Peptide Oestradiol

### Immunoassay Speciality 1 Programme With target scoring



RQ9141 (2 ml) Samples every month, 1 x 12 month cycle, 12 month subscription

1-25-(OH),-Vitamin D\* Insulin Anti-TG Osteocalcin 25-OH-Vitamin D Anti-TPO Procalcitonin

### Immunoassay Speciality 2 Programme With target scoring



RQ9142 (1 ml) Samples every month, 1 x 12 month cycle, 12 month subscription

Plasma Renin Activity Renin (Direct Concentration) Calcitonin Procalcitonin

Immunosuppressant Programme+ 👢



RO9159 (2 ml) 4 Parameters

Gastrin

Samples every month, 1 x 12 month cycle, 12 month subscription, reference method values

Everolimus Sirolimus Tacrolimus

## Lipid Programme With target scoring



RQ9126/a (3 ml) RQ9126/b (3 ml) 3 Parameters only (choose from 7) Full 7 Parameters Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription

LDL-Cholesterol Apolipoprotein A1 Cholesterol (Total) Triglycerides Apolipoprotein B HDL-Cholesterol Lipoprotein (a)





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+ = Not accredited

#### Maternal Screening Programme With target scoring



RQ9137 (1 ml) 6 Parameters

Samples every month, 1 x 12 month cycle, 12 month subscription

Total hCG

free  $\beta$ -hCG Inhibin A PAPP-A

Unconjugated Oestriol

### Microbiology (Bacterial Identification) Programme+



RQ9197

1 strain (complete with case study)

Samples every 2 months, 1 x 12 month cycles, 12 month subscription

1 strain complete with case study. Identification of the micro-organisms can be made at Gram positive / negative, Genus and Species level. Antimicrobial Susceptibility Testing on identified strain

Antimicrobial Susceptibility Testing

Strain Identification

### Neonatal Bilirubin Programme+



2 Parameters

Samples every month, 1 x 12 month cycle, 12 month subscription

Direct Bilirubin Total Bilirubin

## Serology (Anti-SARS-CoV-2) Programme+





Samples every month, 1 x 12 month cycle, 12 month subscription

lgΜ Total Antibodies

# Serology (EBV) Programme+



RO9153 (1 ml)

3 Parameters

Samples every month, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Anti-EBV VCA IgG Anti-EBNA IgG Anti-EBV VCA IgM

## Serology (HIV-Hepatitis) Programme+



RQ9151 (1.8 ml)

10 Parameters + 6 pilots

Samples every month, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Anti-CMV (Total) Anti-HAV IgM\* Anti-HAV (Total)\* Anti-HBc

Anti-HBc IgM\* Anti-HBe (Total)\* Anti-HBs (Total)\* Anti-HCV

Anti-HIV-1 Anti-HIV-2 Anti-HIV combined Anti-HTLV I

Anti-HTI V II Anti-HTLV combined HBsAg

P24\*

# Serology (Syphilis) Programme+

RQ9154 (1 ml)

Samples every month, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Syphilis (Methods available include immunoassay RPR, VDRL and TPHA)

### Serology (ToRCH) Programme+



12 Parameters + 3 pilots

Samples every month, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Anti-CMV IgG Anti-CMV IgM Anti-HSV1 IgG Anti-HSV1 IgM Anti-HSV2 lgG Anti-HSV2 IgM Anti-HSV1/2 lgG Anti-HSV1/2 IgM

Anti-Measles IgG\* Anti-Mumps lgG\* Anti-Rubella IgG Anti-Rubella IgM

Anti-Toxoplasma IgG Anti-Toxoplasma IgM Anti-VZV lgG\*





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+ = Not accredited

 $\star$  = Pilot study ongoing

# Serum Indices Programme+

RQ9194 (1 ml) 3 Indices Assessments RQ9194/A (1 ml) 25 Chemistry Parameters Samples Bi-Monthly, 2 x 9 samples, 12 month subscription

#### Indices Assessment (Quantitative and Semi-Quantitative)

Haemolysis Lipaemic

#### Parameter Assessment (Quantitative)

ALP Cholesterol Lactate Sodium CK NAC LDH ALT Triglycerides Creatinine Lipase Urea Bilirubin (Direct) GGT Magnesium Uric Acid Bilirubin (Total) Glucose Phosphate Calcium HDI Potassium Chloride Iron Protein (Total)

#### Specific Proteins Programme With target scoring

RQ9114 (3 ml) RQ9187 (1ml) 26 Parameters 26 Parameters

Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription Samples every month, 1 x 12 monthly cycle, 12 month subscription

β-2-Microglobulin lgΑ Albumin Ceruloplasmin IgE  $\alpha$ -1-Acid glycoprotein lgG Complement C  $\alpha$ -1-Antitrypsin Complement C ΙgΜ lpha-2-Macroglobulin C-Reactive Protein Kappa Light Chain (Free) Anti Streptolysin O Ferritin Kappa Light Chain (Total) Antithrombin III Haptoglobin Lambda Light Chain (Free) Lambda Light Chain (Total) Prealbumin (Transthyretin) Retinol Binding Protein Rheumatoid Factor Transferrin

## Sweat Testing Programme+

RO9173 (2 ml) 2 Parameters Samples every month, 1 x 12 month cycle, 12 month subscription

Conductivity

### Therapeutic Drugs Programme With target scoring

18 Parameters Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription, Weighed-in values

Amikacin Ethosuximide Phenobarbital Tobramycin Caffeine Gentamicin Phenytoin Valproic Acid Carbamazepine Lithium Primidone Vancomycin Methotrexate Salicylic Acid Ciclosporin

#### Urinalysis Programme With scoring



Paracetamol (Acetaminophen)

RQ9138 (12 ml) 14 Parameters Samples every 2 months, 1 x 12 month cycle, 12 month subscription

Albumin Galactose Specific Gravity Leucocytes Bilirubin Glucose Nitrite Urobilinogen hCG Blood На Ketones Protein

## Urine Toxicology Programme+



RQ9139 (5 ml)

Samples every month, 1 x 12 month cycle, 12 month subscription

MDMA d-Methamphetamine Benzoylecgonine EDDP Methadone Buprenorphine Cannabinoids (THC) Nortriptyline Ethanol Cotinine Free Morphine Norpropoxyphene Creatinine Oxazepam Lorazepam d-Amphetamine Phencyclidine

Phenobarbital Secobarbital

Whilst every attempt is made to ensure that information is accurate and up-to-date, some information is subject to change, please contact RIQAS for current details.





PURPLE = The only parameters available on RQ9135/a

Theophylline

+ = Not accredited

|             |   |                   | +                              |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|-------------|---|-------------------|--------------------------------|---------------------|-----------|-------|---------|--------------|-----------------------|-------------|---------------|--------------|-------------|-------|----------------------------|-------|-------------|-------------|-------------|
| + = Not a   | accredited                                |                   | Anti-Mullerian Hormone (AMH) + |                     |           |       |         |              |                       |             |               |              |             |       | try                        |       |             |             |             |
| * = Pilot s | tudy ongoing                              | _                 | mone                           | +                   |           |       |         |              | +                     |             |               |              |             |       | hemis                      |       |             |             |             |
| PURPLE =    | The only parameters available on RQ9135/a | Ammonia / Ethanol | an Hor                         | Anti-TSH Receptor + |           |       |         |              | Cerebrospinal Fluid + |             | , +           | +            |             |       | General Clinical Chemistry |       | ×           | Ð           | <u>ج</u>    |
|             |   | nia / I           | 1ulleri                        | SH Re               | Gas       |       | J.C     | Cardiac Plus | rospir                | Coagulation | CO-Oximetry + | CYFRA 21-1 + | Cytokines + |       | al Clir                    |       | Haematology | Human Urine | noassa      |
|             |   | Ammo              | Anti-N                         | Anti-T              | Blood Gas | BNP + | Cardiac | Cardi        | Cerek                 | Coagu       | 0-00          | CYFR         | Cytok       | ESR + | Gene                       | HbA1c | Haem        | Huma        | Immunoassay |
| #           | 1-25-(OH) <sub>2</sub> -Vitamin D*        |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             | Χ           |
|             | 17-OH-Progesterone                        |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             | Х           |
|             | 25-OH-Vitamin D                           |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             | Χ           |
|             | 5-HIAA                                    |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             | Χ           |             |
| Α           | α-1-Acid Glycoprotein                     |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | α-1-Antitryspin                           |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | α-2-Macroglobulin                         |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | ACE (Angiotensin Converting Enzyme)       |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       | Х                          |       |             |             |             |
|             | Acid Phosphatase (Prostatic)              |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       | Χ                          |       |             |             |             |
|             | Acid Phosphatase (Total)                  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       | Х                          |       |             |             |             |
|             | ACR                                       |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             | Χ           |             |
|             | ACTH                                      |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             | Χ           |
|             | AFP                                       |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             | X           |
|             | Albumin                                   |                   |                                |                     |           |       |         |              | Х                     |             |               |              |             |       | Χ                          |       |             | Χ           |             |
|             | Aldosterone                               |                   |                                |                     |           |       |         |              | ^                     |             |               |              |             |       | ^                          |       |             | ^           | Χ           |
|             |   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       | Х                          |       |             |             | ^           |
|             | Alkaline Phosphatase ALT                  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       | ^                          |       |             |             |             |
|             |   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       | V                          |       |             |             |             |
|             | ALT (ALAT)                                |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       | Χ                          |       |             |             |             |
|             | Amikacin                                  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             | Χ           |
|             | Ammonia                                   | Х                 |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Amylase (Pancreatic)                      |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       | Χ                          |       |             |             |             |
|             | Amylase (Total)                           |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       | Χ                          |       |             | Χ           |             |
|             | Androstenedione                           |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             | Χ           |
|             | Anti Streptolysin O (ASO)                 |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-CMV                                  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-CMV IgG                              |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-CMV IgM                              |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-EBNA IgG                             |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-EBV VCA IgG                          |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-EBV VCA IgM                          |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-HAV IgM*                             |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-HAV (Total)*                         |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-HBc                                  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-HBc IgM*                             |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-HBe (Total)*                         |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-HBs (Total)*                         |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-HCV                                  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-HIV-1                                |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-HIV-1 & 2 Combined                   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-HIV-2                                |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-HSV-1 & 2 IgG Combined               |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-HSV-1 & 2 IgM Combined               |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-HSV1 IgG                             |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-HSV1 IgM                             |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-HSV2 IgG                             |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-HSV2 IgM                             |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-HTLV-1 & 2 Combined                  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-HTLV-I & 2 Combined Anti-HTLV-I      |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             |   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-HTLV-II                              |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Anti-Measles IgG*                         |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|             | Antimicrobial Susceptibility Testing      |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |

| Immunoassav Speciality 1 |      | Immunosuppressant + | Lipid | Maternal Screening | Microbiology (Bacterial Idenitfication) | Neonatal Bilirubin + | Serology (Anti-SARS-CoV-2) - | Serology (EBV) + | Serology (HIV / Hepatitis) + | Serology (Syphilis) + | Serology (ToRCH) + | Serum Indices + | Specific Proteins | Sweat Testing + | Therapeutic Drug | Urinalysis | Urine Toxicology + |
|--------------------------|------|---------------------|-------|--------------------|---|----------------------|------------------------------|------------------|------------------------------|-----------------------|--------------------|-----------------|-------------------|-----------------|------------------|------------|--------------------|
|                          | .y 2 |                     |       |                    | denitfication) +                        |                      | :oV-2) +                     |                  |                              |                       |                    |                 |                   |                 |                  |            |                    |

- + = Not accredited
- \* = Pilot study ongoing

| Immunoassay | Immunoassay | ddnsounwul | p <u>i</u> | Maternal Scr | Microbiology ( | Neonatal Bili | Serology (An | Serology (EB | Serology (HIV | Serology (Syp | Serology (Tof | Serum Indice | Specific Prote | Sweat Testing | Therapeutic I | Urinalysis | Urine Toxicol |                                      |   |
|-------------|-------------|------------|------------|--------------|----------------|---------------|--------------|--------------|---------------|---------------|---------------|--------------|----------------|---------------|---------------|------------|---------------|--------------------------------------|---|
|             | Ē           | Ē          | Lipid      | Σ            | Σ̈́            | Z             | Sei          | Sei          | Sei           | Sei           | Sei           | Sei          | Sp             | Sw            | Ļ             | ž          | ņ             |                                      |   |
| Χ           |             |            |            |              |                |               |              |              |               |               |               |              |                |               |               |            |               | 2                                    | # |
|             |             |            |            |              |                |               |              |              |               |               |               |              |                |               |               |            |               | 17-OH-Progesterone                   |   |
| Χ           |             |            |            |              |                |               |              |              |               |               |               |              |                |               |               |            |               | 25-OH-Vitamin D                      |   |
|             |             |            |            |              |                |               |              |              |               |               |               |              |                |               |               |            |               | 5-HIAA                               |   |
|             |             |            |            |              |                |               |              |              |               |               |               |              | X              |               |               |            |               |                                      | Α |
|             |             |            |            |              |                |               |              |              |               |               |               |              | X              |               |               |            |               | α-1-Antitryspin                      |   |
|             |             |            |            |              |                |               |              |              |               |               |               |              | Χ              |               |               |            |               | α-2-Macroglobulin                    |   |
|             |             |            |            |              |                |               |              |              |               |               |               |              |                |               |               |            |               | ACE (Angiotensin Converting Enzyme)  |   |
|             |             |            |            |              |                |               |              |              |               |               |               |              |                |               |               |            |               | Acid Phosphatase (Prostatic)         |   |
|             |             |            |            |              |                |               |              |              |               |               |               |              |                |               |               |            |               | Acid Phosphatase (Total)             |   |
|             |             |            |            |              |                |               |              |              |               |               |               |              |                |               |               |            |               | ACR                                  |   |
|             |             |            |            |              |                |               |              |              |               |               |               |              |                |               |               |            |               | ACTH                                 |   |
|             |             |            |            | Χ            |                |               |              |              |               |               |               |              | Х              |               |               |            |               | AFP                                  |   |
|             |             |            |            |              |                |               |              |              |               |               |               |              | Χ              |               |               | Χ          |               | Albumin                              |   |
|             |             |            |            |              |                |               |              |              |               |               |               |              |                |               |               |            |               | Aldosterone                          |   |
|             |             |            |            |              |                |               |              |              |               |               |               | Х            |                |               |               |            |               | Alkaline Phosphatase                 |   |
|             |             |            |            |              |                |               |              |              |               |               |               | Χ            |                |               |               |            |               | ALT                                  |   |
|             |             |            |            |              |                |               |              |              |               |               |               |              |                |               |               |            |               | ALT (ALAT)                           |   |
|             |             |            |            |              |                |               |              |              |               |               |               |              |                |               | Χ             |            |               | Amikacin                             |   |
|             |             |            |            |              |                |               |              |              |               |               |               |              |                |               |               |            |               | Ammonia                              |   |
|             |             |            |            |              |                |               |              |              |               |               |               |              |                |               |               |            |               | Amylase (Pancreatic)                 |   |
|             |             |            |            |              |                |               |              |              |               |               |               |              |                |               |               |            |               | Amylase (Total)                      |   |
|             |             |            |            |              |                |               |              |              |               |               |               |              |                |               |               |            |               | Androstenedione                      |   |
|             |             |            |            |              |                |               |              |              |               |               |               |              | Χ              |               |               |            |               | Anti Streptolysin O (ASO)            |   |
|             |             |            |            |              |                |               |              |              | Х             |               |               |              |                |               |               |            |               | Anti-CMV                             |   |
|             |             |            |            |              |                |               |              |              |               |               | Χ             |              |                |               |               |            |               | Anti-CMV IgG                         |   |
|             |             |            |            |              |                |               |              |              |               |               | Χ             |              |                |               |               |            |               | Anti-CMV IgM                         |   |
|             |             |            |            |              |                |               |              | Χ            |               |               |               |              |                |               |               |            |               | Anti-EBNA IgG                        |   |
|             |             |            |            |              |                |               |              | Χ            |               |               |               |              |                |               |               |            |               | Anti-EBV VCA IgG                     |   |
|             |             |            |            |              |                |               |              | Χ            |               |               |               |              |                |               |               |            |               | Anti-EBV VCA IgM                     |   |
|             |             |            |            |              |                |               |              |              | Х             |               |               |              |                |               |               |            |               | Anti-HAV IgM*                        |   |
|             |             |            |            |              |                |               |              |              | Х             |               |               |              |                |               |               |            |               | Anti-HAV (Total)*                    |   |
|             |             |            |            |              |                |               |              |              | Χ             |               |               |              |                |               |               |            |               | Anti-HBc                             |   |
|             |             |            |            |              |                |               |              |              | Χ             |               |               |              |                |               |               |            |               | Anti-HBc IgM*                        |   |
|             |             |            |            |              |                |               |              |              | Χ             |               |               |              |                |               |               |            |               | Anti-HBe (Total)*                    |   |
|             |             |            |            |              |                |               |              |              | Χ             |               |               |              |                |               |               |            |               | Anti-HBs (Total)*                    |   |
|             |             |            |            |              |                |               |              |              | Χ             |               |               |              |                |               |               |            |               | Anti-HCV                             |   |
|             |             |            |            |              |                |               |              |              | Χ             |               |               |              |                |               |               |            |               | Anti-HIV-1                           |   |
|             |             |            |            |              |                |               |              |              | Χ             |               |               |              |                |               |               |            |               | Anti-HIV-1 & 2 Combined              |   |
|             |             |            |            |              |                |               |              |              | Χ             |               |               |              |                |               |               |            |               | Anti-HIV-2                           |   |
|             |             |            |            |              |                |               |              |              |               |               | Χ             |              |                |               |               |            |               | Anti-HSV-1 & 2 IgG Combined          |   |
|             |             |            |            |              |                |               |              |              |               |               | Χ             |              |                |               |               |            |               | Anti-HSV-1 & 2 IgM Combined          |   |
|             |             |            |            |              |                |               |              |              |               |               | Χ             |              |                |               |               |            |               | Anti-HSV1 IgG                        |   |
|             |             |            |            |              |                |               |              |              |               |               | Χ             |              |                |               |               |            |               | Anti-HSV1 IgM                        |   |
|             |             |            |            |              |                |               |              |              |               |               | Χ             |              |                |               |               |            |               | Anti-HSV2 IgG                        |   |
|             |             |            |            |              |                |               |              |              |               |               | Χ             |              |                |               |               |            |               | Anti-HSV2 IgM                        |   |
|             |             |            |            |              |                |               |              |              | Х             |               |               |              |                |               |               |            |               | Anti-HTLV-1 & 2 Combined             |   |
|             |             |            |            |              |                |               |              |              | Х             |               |               |              |                |               |               |            |               | Anti-HTLV-I                          |   |
|             |             |            |            |              |                |               |              |              | Х             |               |               |              |                |               |               |            |               | Anti-HTLV-II                         |   |
|             |             |            |            |              |                |               |              |              |               |               | Χ             |              |                |               |               |            |               | Anti-Measles IgG*                    |   |
|             |             |            |            |              | Χ              |               |              |              |               |               |               |              |                |               |               |            |               | Antimicrobial Susceptibility Testing |   |

- \* =

PUR

| = Not acc | credited   |                   | ne (AMH) +                     |                     |           |          |             |              |                       |             |               |              |             |       | nistry                     |       |             |             |             |
|-----------|--|-------------------|--------------------------------|---------------------|-----------|----------|-------------|--------------|-----------------------|-------------|---------------|--------------|-------------|-------|----------------------------|-------|-------------|-------------|-------------|
|           | The only parameters available on RQ9135/a  | Ammonia / Ethanol | Anti-Mullerian Hormone (AMH) + | Anti-TSH Receptor + | Blood Gas | BNP +    | Cardiac     | Cardiac Plus | Cerebrospinal Fluid + | Coagulation | CO-Oximetry + | CYFRA 21-1 + | Cytokines + | ESR + | General Clinical Chemistry | HbA1c | Haematology | Human Urine | Immunoassay |
| Α         | Anti-Müllerian Hormone (AMH) Anti-Mumps IgG* Anti-Rubella IgG Anti-Rubella IgM Anti-SARS-COV2 IgG Anti-SARS-COV2 IgM Anti-SARS-COV2 Total Anti-TG Antithrombin III Anti-Toxoplasma IgG | 4                 | X                              | 4                   | B         | <u> </u> |             |              |                       | X           |               | 0            | 0           | ш     | 9                          |       |             |             |             |
|           | Anti-Toxoplasma IgM Anti-TPO Anti-TSH Receptor (TRAb) Anti-VZV IgG* Apolipoprotein Al Apolipoprotein B  aPTT AST AST (ASAT)  |                   |                                | X                   |           |          |             |              |                       | X           |               |              |             |       | X                          |       |             |             |             |
| В         | β-2-Microglobulin Benzoylecgonine Bicarbonate Bile Acids Bilirubin (Direct) Bilirubin (Total) Blood BNP  |                   |                                |                     | X         | X        |             |              |                       |             |               |              |             |       | X<br>X<br>X<br>X           |       |             |             | X           |
| С         | Buprenorphine  CA15-3  CA19-9  CA125  Caffeine  Calcitonin  Calcium  Calcium, Adjusted  Calcium (Ionised)  Cannabinoids (THC)  |                   |                                |                     | X         |          |             |              |                       |             |               |              |             |       | X<br>X<br>X                |       |             | X           | X<br>X<br>X |
|           | Carbamazepine Carboxyhaemoglobin (COHb / HbCO) CEA Ceruloplasmin Chloride Cholesterol (Total) Cholinesterase Ciclosporin   |                   |                                |                     | X         |          |             |              | X                     |             | X             |              |             |       | X<br>X<br>X                |       |             | X           | X           |
|           | CK, Total  CK-MB (Activity)  CK-MB (Mass)  CK NAC  CO2, Total  Complement C <sub>3</sub>   |                   |                                |                     | X         |          | X<br>X<br>X | X<br>X<br>X  |                       |             |               |              |             |       | X                          |       |             |             |             |

| Immunoassay Speciality 1                  |
|---|
| Immunoassay Speciality 2                  |
| Immunosuppressant +                       |
| Lipid                                     |
| Maternal Screening                        |
| Microbiology (Bacterial Idenitfication) + |
| Neonatal Bilirubin +                      |
| Serology (Anti-SARS-CoV-2) +              |
| Serology (EBV) +                          |
| Serology (HIV / Hepatitis) +              |
| Serology (Syphilis) +                     |
| Serology (ToRCH) +                        |
| Serum Indices +                           |
| Specific Proteins                         |
| Sweat Testing +                           |
| Therapeutic Drug                          |
| Urinalysis                                |
| Urine Toxicology +                        |
|   |

- + = Not accredited
- \* = Pilot study ongoing

| Anti-Mullerian Hormone (AMH)   | Immunoa | Immunoa | Immunos | Lipid | Maternal | Microbiok | Neonatal | Serology | Serology | Serology | Serology | Serology | Serum In | Specific F | Sweat Te | Therapeu | Urinalysi | Urine To |                              |   |
|--|---------|---------|---------|-------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|------------|----------|----------|-----------|----------|------------------------------|---|
| X  |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          | Anti-Müllerian Hormone (AMH) | Α |
|  |         |         |         |       |          |           |          |          |          |          |          | Х        |          |            |          |          |           |          |                              |   |
| X  |         |         |         |       |          |           |          |          |          |          |          | Х        |          |            |          |          |           |          |                              |   |
|  |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          |                              |   |
|  |         |         |         |       |          |           |          | Х        |          |          |          |          |          |            |          |          |           |          |                              |   |
| X  |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          |                              |   |
| X  |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          | -                            |   |
|  | X       |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          |                              |   |
|  |         |         |         |       |          |           |          |          |          |          |          |          |          | X          |          |          |           |          |                              |   |
| X  |         |         |         |       |          |           |          |          |          |          |          | X        |          |            |          |          |           |          |                              |   |
| Anti-TSH Receptor (TRAb)   |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          |                              |   |
| Anti-TSH Receptor (TRAb)   | V       |         |         |       |          |           |          |          |          |          |          | ^        |          |            |          |          |           |          |                              |   |
|  | ^       |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          |                              |   |
| X  |         |         |         |       |          |           |          |          |          |          |          | V        |          |            |          |          |           |          |                              |   |
| X Apolipoprotein B APTT AST (ASAT) AST (ASAT)  X AST (ASAT) B-2-Microglobulin Bicarbonate Bile Acids Bile Acid |         |         |         | V     |          |           |          |          |          |          |          | ^        |          |            |          |          |           |          | _                            |   |
| AST  |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          |                              |   |
| X  |         |         |         | Х     |          |           |          |          |          |          |          |          |          |            |          |          |           |          |                              |   |
| AST (ASAT)   B   AST    |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          |                              |   |
| No.    |         |         |         |       |          |           |          |          |          |          |          |          | Х        |            |          |          |           |          |                              |   |
| X Benzoylecgonine Bicarbonate Bill Acids Bil |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          |                              |   |
|  |         |         |         |       |          |           |          |          |          |          |          |          |          | Х          |          |          |           |          |                              | В |
| Bile Acids   |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           | Χ        | Benzoylecgonine              |   |
| X  |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          | Bicarbonate                  |   |
| X  |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          | Bile Acids                   |   |
| X   Blood   BNP  |         |         |         |       |          |           | Χ        |          |          |          |          |          | Χ        |            |          |          |           |          | Bilirubin (Direct)           |   |
| No.    |         |         |         |       |          |           | Χ        |          |          |          |          |          | Χ        |            |          |          | Х         |          | Bilirubin (Total)            |   |
|  |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          | Х         |          | Blood                        |   |
|  |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          | BNP                          |   |
| CA15-3 CA19-9 CA125 X CAffine X Cafeine X Calcium Calcium Calcium (Ionised) X Cannabinoids (THC) X Carbamazepine Carboxyhaemoglobin (COHb / HbCO) CEA X X Ceruloplasmin X X Chloride CK-MB (Activity) CK-MB (Mass) X CK NAC CO2, Total   |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           | Х        | Buprenorphine                |   |
| CA19-9   |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          |                              | С |
| CA125  |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          |                              |   |
| X  |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          |                              |   |
| X  |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          | Х        |           |          |                              |   |
| X  |         | Χ       |         |       |          |           |          |          |          |          |          |          |          |            |          | 7.       |           |          |                              |   |
| Calcium, Adjusted Calcium (Ionised) X Cannabinoids (THC) X Carbamazepine Carboxyhaemoglobin (COHb / HbCO) CEA X Ceruloplasmin X X Chloride X X Chloride X X Chloride X X Chloride CK-MB (Activity) CK-MB (Mass) X CK NAC CO2, Total  |         |         |         |       |          |           |          |          |          |          |          |          | Y        |            |          |          |           |          |                              |   |
| Calcium (Ionised)  X Cannabinoids (THC)  X Carbamazepine  Carboxyhaemoglobin (COHb / HbCO)  CEA  X Ceruloplasmin  X X Chloride  X X Cholesterol (Total)  Cholinesterase  X X Ciclosporin  CK, Total  CK-MB (Activity)  CK-MB (Mass)  X CK NAC  CO2, Total  |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          |                              |   |
| X Cannabinoids (THC) X Carbamazepine Carboxyhaemoglobin (COHb / HbCO) CEA CEA X Ceruloplasmin X X Chloride X X Cholesterol (Total) Cholinesterase X X Ciclosporin CK, Total CK-MB (Activity) CK-MB (Mass) X CAnnabinoids (THC) X Carbamazepine Carboxyhaemoglobin (COHb / HbCO) CEA Coeruloplasmin CHolinesterase X Chloride CK-MB (Activity) CK-MB (Mass) CK-MB (Mass) CK-MB (Mass) CK-MAC CO2, Total   |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          |                              |   |
| X Carbamazepine Carboxyhaemoglobin (COHb / HbCO) CEA X Ceruloplasmin X X Chloride X X Cholesterol (Total) Cholinesterase X Ciclosporin CK, Total CK-MB (Activity) CK-MB (Mass) X CK NAC CO2, Total   |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           | ~        |                              |   |
| Carboxyhaemoglobin (COHb / HbCO)  CEA  X Ceruloplasmin  X X Chloride  X X Cholesterol (Total)  Cholinesterase  X Ciclosporin  CK, Total  CK-MB (Activity)  CK-MB (Mass)  X CKNAC  CO2, Total   |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          | V        |           | ^        |                              |   |
| CEA  X Ceruloplasmin  X X Chloride  X X Cholesterol (Total)  Cholinesterase  X Ciclosporin  CK, Total  CK-MB (Activity)  CK-MB (Mass)  X CKNAC  CO2, Total   |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          | ^        |           |          |                              |   |
| X  |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          |                              |   |
| X  |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          |                              |   |
| X         X         Cholesterol (Total)           Cholinesterase         Cholinesterase           X         X         Ciclosporin           CK, Total         CK, Total           CK-MB (Activity)         CK-MB (Mass)           CK-MB (Mass)         CK NAC           CO2, Total         CO2, Total  |         |         |         |       |          |           |          |          |          |          |          |          |          | Х          |          |          |           |          |                              |   |
| X Cholinesterase X Ciclosporin CK, Total CK-MB (Activity) CK-MB (Mass) X CK NAC CO2, Total   |         |         |         |       |          |           |          |          |          |          |          |          |          |            | Х        |          |           |          |                              |   |
| X Ciclosporin CK, Total CK-MB (Activity) CK-MB (Mass) X CKNAC CO2, Total   |         |         |         | Х     |          |           |          |          |          |          |          |          | Х        |            |          |          |           |          |                              |   |
| CK, Total  CK-MB (Activity)  CK-MB (Mass)  X  CK NAC  CO2, Total   |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          |                              |   |
| CK-MB (Activity) CK-MB (Mass) X CK NAC CO2, Total  |         |         | X       |       |          |           |          |          |          |          |          |          |          |            |          | X        |           |          |                              |   |
| CK-MB (Mass)  X CK NAC  CO2, Total   |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          |                              |   |
| X CK NAC CO2, Total  |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          |                              |   |
| CO2, Total   |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          |                              |   |
|  |         |         |         |       |          |           |          |          |          |          |          |          | Χ        |            |          |          |           |          |                              |   |
| Complement C <sub>3</sub>  |         |         |         |       |          |           |          |          |          |          |          |          |          |            |          |          |           |          | CO2, Total                   |   |
|  |         |         |         |       |          |           |          |          |          |          |          |          |          | Χ          |          |          |           |          | Complement C <sub>3</sub>    |   |

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|   | credited<br>udy ongoing<br>The only parameters available on RQ9135/a | Ammonia / Ethanol | Anti-Mullerian Hormone (AMH) + | Anti-TSH Receptor + | Blood Gas | BNP + | Cardiac | Cardiac Plus | Cerebrospinal Fluid + | Coagulation | CO-Oximetry + | CYFRA 21-1 + | Cytokines + | ESR + | General Clinical Chemistry | HbA1c | Haematology | Human Urine | Immunoassay |
|---|--|-------------------|--------------------------------|---------------------|-----------|-------|---------|--------------|-----------------------|-------------|---------------|--------------|-------------|-------|----------------------------|-------|-------------|-------------|-------------|
| С | Complement C <sub>4</sub>  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|   | Conductivity   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|   | Copper   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       | Χ                          |       |             | Χ           |             |
|   | Cortisol   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             | Χ           | Χ           |
|   | Cotinine   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|   | C-Peptide  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             | Χ           |
|   | C-Reactive Protein (CRP)   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|   | Creatinine   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       | Χ                          |       |             | Χ           |             |
|   | CYFRA 21-1 (Cytokeratin 19)  |                   |                                |                     |           |       |         |              |                       |             |               | Χ            |             |       |                            |       |             |             |             |
| D | D-3-Hydroxybutyrate  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       | Χ                          |       |             |             |             |
|   | d-Amphetamine  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|   | D-Dimer* <sup>△</sup>  |                   |                                |                     |           |       |         | Х            |                       | Χ           |               |              |             |       |                            |       |             |             |             |
|   | Deoxyhaemoglobin (HHb)   |                   |                                |                     |           |       |         |              |                       |             | Χ             |              |             |       |                            |       |             |             |             |
|   | DHEA Unconjugated  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             | Χ           |
|   | DHEA-Sulphate  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             | Χ           |
|   | Digoxin  |                   |                                |                     |           |       |         | Х            |                       |             |               |              |             |       |                            |       |             |             | Χ           |
|   | d-Methamphetamine  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|   | Dopamine   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             | Χ           |             |
| E | EDDP   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|   | eGFR (estimated glomerular filtration rate)                          |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       | Χ                          |       |             |             |             |
|   | Epidermal Growth Factor (EGF)*                                       |                   |                                |                     |           |       |         |              |                       |             |               |              | Χ           |       |                            |       |             |             |             |
|   | Epinephrine  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             | Χ           |             |
|   | ESR  |                   |                                |                     |           |       |         |              |                       |             |               |              |             | Χ     |                            |       |             |             |             |
|   | Ethanol  | Χ                 |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|   | Ethosuximide   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|   | Everolimus   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
| F | Factor II  |                   |                                |                     |           |       |         |              |                       | X           |               |              |             |       |                            |       |             |             |             |
|   | Factor IX  |                   |                                |                     |           |       |         |              |                       | X           |               |              |             |       |                            |       |             |             |             |
|   | Factor VII   |                   |                                |                     |           |       |         |              |                       | X           |               |              |             |       |                            |       |             |             |             |
|   | Factor VIII  |                   |                                |                     |           |       |         |              |                       | X           |               |              |             |       |                            |       |             |             |             |
|   | Factor X   |                   |                                |                     |           |       |         |              |                       | X           |               |              |             |       |                            |       |             |             |             |
|   | Factor XI  |                   |                                |                     |           |       |         |              |                       | X           |               |              |             |       |                            |       |             |             |             |
|   | Factor XII   |                   |                                |                     |           |       |         |              |                       | X           |               |              |             |       |                            |       |             |             |             |
|   | Ferritin   |                   |                                |                     |           |       |         |              |                       | ^           |               |              |             |       |                            |       |             |             | Χ           |
|   | Fibrinogen   |                   |                                |                     |           |       |         |              |                       | Χ           |               |              |             |       |                            |       |             |             |             |
|   | Folate   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             | Χ           |
|   | Free Morphine  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|   | free β-hCG   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|   | Fructosamine   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       | Х                          |       |             |             |             |
|   | FSH  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             | Х           |
| G | γ-GT   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       | Χ                          |       |             |             |             |
|   | Galactose  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|   | Gastrin  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             |             |
|   | Gentamicin   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             | Χ           |
|   | Growth Hormone (GH)  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       |             |             | Χ           |
|   | GLDH   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       | Χ                          |       |             |             |             |
|   | Glucose  |                   |                                |                     | Χ         |       |         |              | Х                     |             |               |              |             |       | Χ                          |       |             | Χ           |             |
| Н | Haematocrit (HCT)  |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       | Χ           |             |             |
|   | Haemoglobin (Hb)   |                   |                                |                     |           |       |         |              |                       |             |               |              |             |       |                            |       | Χ           |             |             |
|   | Total Haemoglobin (tHb)  |                   |                                |                     |           |       |         |              |                       |             | Χ             |              |             |       |                            | Χ     |             |             |             |

| Immunoassay Speciality 1                  |
|---|
| Immunoassay Speciality 2                  |
| Immunosuppressant +                       |
| Lipid                                     |
| Maternal Screening                        |
| Microbiology (Bacterial Idenitfication) + |
| Neonatal Bilirubin +                      |
| Serology (Anti-SARS-CoV-2) +              |
| Serology (EBV) +                          |
| Serology (HIV / Hepatitis) +              |
| Serology (Syphilis) +                     |
| Serology (ToRCH) +                        |
| Serum Indices +                           |
| <br>Specific Proteins                     |
| Sweat Testing +                           |
| Therapeutic Drug                          |
| Urinalysis                                |
| Urine Toxicology +                        |
|   |

- + = Not accredited
- \* = Pilot study ongoing

| Immunoass | Immunoass | Immunosup | Lipid | Maternal So | Microbiology | Neonatal Bi | Serology (A | Serology (E | Serology (H | Serology (S | Serology (T | Serum Indi | Specific Pro | Sweat Testi | Therapeution | Urinalysis | Urine Toxic |   |          |
|-----------|-----------|-----------|-------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|--------------|-------------|--------------|------------|-------------|---|----------|
|           |           |           |       |             |              |             |             |             |             |             |             |            | Χ            |             |              |            |             | Complement C <sub>4</sub>                   | С        |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              | Χ           |              |            |             | Conductivity                                |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Copper                                      | i i      |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Cortisol                                    |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            | Χ           | Cotinine                                    | i        |
| X         |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | C-Peptide                                   |          |
| 7.        |           |           |       |             |              |             |             |             |             |             |             |            | Χ            |             |              |            |             | C-Reactive Protein (CRP)                    |          |
|           |           |           |       |             |              |             |             |             |             |             |             | Х          |              |             |              | Χ          | Χ           | Creatinine                                  |          |
|           |           |           |       |             |              |             |             |             |             |             |             | ^          |              |             |              | ^          |             | CYFRA 21-1 (Cytokeratin 19)                 |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             |   |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | D-3-Hydroxybutyrate                         | D        |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | d-Amphetamine                               |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | D-Dimer* <sup>Δ</sup>                       |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Deoxyhaemoglobin (HHb)                      | ļ l      |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | DHEA Unconjugated                           |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | DHEA-Sulphate                               |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             | Χ            |            |             | Digoxin                                     |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            | Χ           | d-Methamphetamine                           |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Dopamine                                    |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            | Χ           | EDDP  | Е        |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | eGFR (estimated glomerular filtration rate) |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Epidermal Growth Factor (EGF)*              | i        |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Epinephrine                                 |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | ESR   | 1        |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            | Х           | Ethanol                                     | 1        |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             | V            |            | ^           |   |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             | Χ            |            |             | Ethosuximide                                |          |
|           |           | Χ         |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Everolimus                                  |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Factor II                                   | F        |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Factor IX                                   |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Factor V                                    |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Factor VII                                  |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Factor VIII                                 |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Factor X                                    |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Factor XI                                   |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Factor XII                                  |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            | Х            |             |              |            |             | Ferritin                                    | i i      |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Fibringen                                   |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Folate                                      | 1        |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            | Χ           | Free Morphine                               | <b>.</b> |
|           |           |           |       | Х           |              |             |             |             |             |             |             |            |              |             |              |            | ^           | free β-hCG                                  | 1        |
|           |           |           |       | ^           |              |             |             |             |             |             |             |            |              |             |              |            |             |   |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Fructosamine                                |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | FSH   |          |
|           |           |           |       |             |              |             |             |             |             |             |             | Χ          |              |             |              |            |             | γ-GT  | G        |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              | Χ          |             | Galactose                                   |          |
|           | Χ         |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Gastrin                                     |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             | Χ            |            |             | Gentamicin                                  |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Growth Hormone (GH)                         |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | GLDH  |          |
|           |           |           |       |             |              |             |             |             |             |             |             | Х          |              |             |              | Χ          |             | Glucose                                     |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Haematocrit (HCT)                           | н        |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Haemoglobin (Hb)                            |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Total Haemoglobin (tHb)                     |          |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Total Hacillogiobili (trib)                 |          |

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| Not ac              | credited                                   |                   | (AMH) +                        |                     |           |       |         |              |                     |             |               |              |             |       | try                        |       |             |             |             |
|---------------------|--|-------------------|--------------------------------|---------------------|-----------|-------|---------|--------------|---------------------|-------------|---------------|--------------|-------------|-------|----------------------------|-------|-------------|-------------|-------------|
| Pilot stu           | udy ongoing                                |                   | one                            |                     |           |       |         |              | +                   |             |               |              |             |       | emis                       |       |             |             |             |
| RPLE = <sup>-</sup> | The only parameters available on RQ9135/a  | Ammonia / Ethanol | Anti-Mullerian Hormone (AMH) + | Anti-TSH Receptor + | Blood Gas | BNP + | Cardiac | Cardiac Plus | Cerebrospinal Fluid | Coagulation | CO-Oximetry + | CYFRA 21-1 + | Cytokines + | ESR + | General Clinical Chemistry | HbA1c | Haematology | Human Urine | Immunoassay |
| Н                   | Haemolysis                                 |                   |                                | 1                   |           |       |         |              |                     |             |               |              |             |       |                            |       | _           |             | _           |
|                     | Haptoglobin                                |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|                     | HbA1c                                      |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            | Х     |             |             |             |
|                     | HBsAg                                      |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|                     | HBDH                                       |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       | Χ                          |       |             |             |             |
|                     | hCG  |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             | Χ           |
|                     | HDL-Cholesterol                            |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       | Χ                          |       |             |             |             |
|                     | Homocysteine                               |                   |                                |                     |           |       | Х       | Х            |                     |             |               |              |             |       |                            |       |             |             |             |
|                     | hsCRP                                      |                   |                                |                     |           |       |         | Χ            |                     |             |               |              |             |       |                            |       |             |             |             |
| 1                   | Icteric                                    |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|                     | IgA  |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|                     | IgE  |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             | Χ           |
|                     | IGF-1                                      |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|                     | IgG  |                   |                                |                     |           |       |         |              | Х                   |             |               |              |             |       |                            |       |             |             |             |
|                     | IgM  |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|                     | Inhibin A                                  |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|                     | Insulin                                    |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             | Χ           |
|                     | Interferon gamma (INF-Y)*                  |                   |                                |                     |           |       |         |              |                     |             |               |              | Χ           |       |                            |       |             |             |             |
|                     | Interleukin – 1 alpha (IL-1α)*             |                   |                                |                     |           |       |         |              |                     |             |               |              | Χ           |       |                            |       |             |             |             |
|                     | Interleukin – 1 beta (IL-1β)*              |                   |                                |                     |           |       |         |              |                     |             |               |              | Χ           |       |                            |       |             |             |             |
|                     | Interleukin – 10 (IL-10)*                  |                   |                                |                     |           |       |         |              |                     |             |               |              | Χ           |       |                            |       |             |             |             |
|                     | Interleukin – 2 (IL-2)*                    |                   |                                |                     |           |       |         |              |                     |             |               |              | Χ           |       |                            |       |             |             |             |
|                     | Interleukin – 4 (IL-4)*                    |                   |                                |                     |           |       |         |              |                     |             |               |              | Χ           |       |                            |       |             |             |             |
|                     | Interleukin – 6 (IL-6)                     |                   |                                |                     |           |       |         |              |                     |             |               |              | Χ           |       |                            |       |             |             |             |
|                     | Interleukin – 8 (IL-8)*                    |                   |                                |                     |           |       |         |              |                     |             |               |              | Χ           |       |                            |       |             |             |             |
|                     | Iron                                       |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       | Χ                          |       |             |             |             |
| K                   | Kappa Light Chain (Free)                   |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|                     | Kappa Light Chain (Total)                  |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|                     | Ketones                                    |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
| L                   | Lactate                                    |                   |                                |                     | Χ         |       |         |              | Х                   |             |               |              |             |       | Χ                          |       |             |             |             |
|                     | Lambda Light Chain (Free)                  |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|                     | Lambda Light Chain (Total)                 |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|                     | LD (LDH)                                   |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       | Χ                          |       |             |             |             |
|                     | LDL-Cholesterol                            |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       | Χ                          |       |             |             |             |
|                     | Leucocytes                                 |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|                     | Lipase                                     |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       | Χ                          |       |             |             |             |
|                     | Lipoprotein (a)                            |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|                     | Lithium                                    |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       | Χ                          |       |             |             |             |
|                     | Lorazepam                                  |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|                     | LSD  |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|                     | Luteinising Hormone (LH)                   |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             | Χ           |
| М                   | Magnesium                                  |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       | Χ                          |       |             | Χ           |             |
|                     | MDMA                                       |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|                     | Mean Cell Haemoglobin (MCH)                |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       | Χ           |             |             |
|                     | Mean Cell Haemoglobin Concentration (MCHC) |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       | Χ           |             |             |
|                     | Mean Cell Volume (MCV)                     |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       | Χ           |             |             |
|                     | Mean Platelet Volume (MPV)                 |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       | Х           |             |             |
|                     | Metanephrine                               |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             | Χ           |             |
|                     | Methadone                                  |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|                     | Methaemoglobin (MetHb)                     |                   |                                |                     |           |       |         |              |                     |             | Χ             |              |             |       |                            |       |             |             |             |
|                     | Methotrexate                               |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|                     |  |                   |                                |                     |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |

|   | Immunoassay Speciality 1                  |
|---|---|
|   | Immunoassay Speciality 2                  |
|   | Immunosuppressant +                       |
|   | Lipid                                     |
|   | Maternal Screening                        |
|   | Microbiology (Bacterial Idenitfication) + |
|   | Neonatal Bilirubin +                      |
|   | Serology (Anti-SARS-CoV-2) +              |
|   | Serology (EBV) +                          |
|   | Serology (HIV / Hepatitis) +              |
|   | Serology (Syphilis) +                     |
|   | Serology (ToRCH) +                        |
| Y | Serum Indices +                           |
|   | Specific Proteins                         |
|   | Sweat Testing +                           |
|   | Therapeutic Drug                          |
|   | Urinalysis                                |
|   | Urine Toxicology +                        |
|   |   |

- + = Not accredited
- \* = Pilot study ongoing

| Immunoassa | Immunoassa | Immunosupk | Lipid | Maternal Sc | Microbiology | Neonatal Bil | Serology (Ar | Serology (EB | Serology (HI | Serology (Sy | Serology (To | Serum Indic | Specific Prof | Sweat Testin | Therapeutic | Urinalysis | Urine Toxico |                                     |   |
|------------|------------|------------|-------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|---------------|--------------|-------------|------------|--------------|-------------------------------------|---|
|            |            |            |       |             |              |              |              |              |              |              |              | Х           |               |              |             |            |              | Haemolysis                          | Н |
|            |            |            |       |             |              |              |              |              |              |              |              |             | Χ             |              |             |            |              | Haptoglobin                         |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | HbA1c                               |   |
|            |            |            |       |             |              |              |              |              | Χ            |              |              |             |               |              |             |            |              | HBsAg                               |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | HBDH                                |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             | Х          |              | hCG                                 |   |
|            |            |            | Х     |             |              |              |              |              |              |              |              | Х           |               |              |             |            |              | HDL-Cholesterol                     |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | Homocysteine                        |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | hsCRP                               |   |
|            |            |            |       |             |              |              |              |              |              |              |              | Χ           |               |              |             |            |              | Icteric                             | ī |
|            |            |            |       |             |              |              |              |              |              |              |              |             | Χ             |              |             |            |              | lgA                                 | · |
|            |            |            |       |             |              |              |              |              |              |              |              |             | Χ             |              |             |            |              | lgE                                 |   |
| Χ          |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | IGF-1                               |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             | Χ             |              |             |            |              | IgG                                 |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             | Х             |              |             |            |              | IgM                                 |   |
|            |            |            |       | Х           |              |              |              |              |              |              |              |             |               |              |             |            |              | Inhibin A                           |   |
| Χ          |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | Insulin                             |   |
| `          |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              |                                     |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | Interferon gamma (INF-Y)*           |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | Interleukin – 1 alpha (IL-1α)*      |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | Interleukin – 1 beta (IL-1β)*       |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | Interleukin – 10 (IL-10)*           |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | Interleukin – 2 (IL-2)*             |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | Interleukin – 4 (IL-4)*             |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | Interleukin – 6 (IL-6)              |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | Interleukin – 8 (IL-8)*             |   |
|            |            |            |       |             |              |              |              |              |              |              |              | Χ           |               |              |             |            |              | Iron                                |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             | Χ             |              |             |            |              | Kappa Light Chain (Free)            | K |
|            |            |            |       |             |              |              |              |              |              |              |              |             | Χ             |              |             |            |              | Kappa Light Chain (Total)           |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             | Χ          |              | Ketones                             |   |
|            |            |            |       |             |              |              |              |              |              |              |              | Χ           |               |              |             |            |              | Lactate                             | L |
|            |            |            |       |             |              |              |              |              |              |              |              |             | Χ             |              |             |            |              | Lambda Light Chain (Free)           |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             | Χ             |              |             |            |              | Lambda Light Chain (Total)          |   |
|            |            |            |       |             |              |              |              |              |              |              |              | Χ           |               |              |             |            |              | LD (LDH)                            |   |
|            |            |            | Χ     |             |              |              |              |              |              |              |              |             |               |              |             |            |              | LDL-Cholesterol                     |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             | Х          |              | Leucocytes                          |   |
|            |            |            |       |             |              |              |              |              |              |              |              | Χ           |               |              |             |            |              | Lipase                              |   |
|            |            |            | Χ     |             |              |              |              |              |              |              |              |             |               |              |             |            |              | Lipoprotein (a)                     |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              | Χ           |            |              | Lithium                             |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            | Χ            | Lorazepam                           |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            | Χ            | LSD                                 |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | Luteinising Hormone (LH)            |   |
|            |            |            |       |             |              |              |              |              |              |              |              | Χ           |               |              |             |            |              | Magnesium                           | М |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            | Χ            | MDMA                                |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | Mean Cell Haemoglobin (MCH)         |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | Mean Cell Haemoglobin Concentration |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | (MCHC)                              |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | Mean Cell Volume (MCV)              |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | Mean Platelet Volume (MPV)          |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | Metanephrine                        |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | Methadone                           |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              |             |            |              | Methaemoglobin (MetHb)              |   |
|            |            |            |       |             |              |              |              |              |              |              |              |             |               |              | Х           |            |              | Methotrexate                        |   |

- \* =

PUR

|   | credited<br>dy ongoing<br>The only parameters available on RQ9135/a | thanol            | Anti-Mullerian Hormone (AMH) + | eptor +           |           |       |         |              | ıl Fluid +          |             | + /           |              |             |       | General Clinical Chemistry |       |             |             |             |
|---|---|-------------------|--------------------------------|-------------------|-----------|-------|---------|--------------|---------------------|-------------|---------------|--------------|-------------|-------|----------------------------|-------|-------------|-------------|-------------|
|   |   | Ammonia / Ethanol | Anti-Mulleria                  | Anti-TSH Receptor | Blood Gas | BNP + | Cardiac | Cardiac Plus | Cerebrospinal Fluid | Coagulation | CO-Oximetry + | CYFRA 21-1 + | Cytokines + | ESR + | General Clini              | HbA1c | Haematology | Human Urine | Immunoassay |
| М | Monocyte Chemoattractant Protein -1<br>(MCP-1)*                     |                   |                                |                   |           |       |         |              |                     |             |               |              | Х           |       |                            |       |             |             |             |
|   | Myoglobin   |                   |                                |                   |           |       | Χ       | Χ            |                     |             |               |              |             |       |                            |       |             |             |             |
| N | NEFA  |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       | Χ                          |       |             |             |             |
|   | Nitrite Non-HDL Cholesterol   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       | Х                          |       |             |             |             |
|   | Norepinephrine  |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       | ^                          |       |             | Х           |             |
|   | Normetanephrine   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             | X           |             |
|   | Norpropoxyphene   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|   | Nortriptyline   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|   | NTproBNP  |                   |                                |                   |           |       |         | Χ            |                     |             |               |              |             |       |                            |       |             |             |             |
| 0 | Oestradiol  |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             | Χ           |
|   | Osmolality  |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       | Χ                          |       |             | Χ           |             |
|   | Osteocalcin   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|   | Oxalate   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             | Χ           |             |
|   | Oxazepam  |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|   | Oxygen Content (O2CT)   |                   |                                |                   |           |       |         |              |                     |             | X             |              |             |       |                            |       |             |             |             |
|   | Oxygen Saturation (sO2 / Vol O2) Oxyhaemoglobin (O2Hb / HbO2)       |                   |                                |                   |           |       |         |              |                     |             | X             |              |             |       |                            |       |             |             |             |
| P | P24*  |                   |                                |                   |           |       |         |              |                     |             | Λ             |              |             |       |                            |       |             |             |             |
| Р | PAPP-A  |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|   | Paracetamol (Acetaminophen)   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             | Х           |
|   | pCO <sub>2</sub>  |                   |                                |                   | Χ         |       |         |              |                     |             |               |              |             |       |                            |       |             |             | 7.          |
|   | pH  |                   |                                |                   | Χ         |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|   | Phencyclidine   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|   | Phenobarbital   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             | Χ           |
|   | Phenytoin   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             | Χ           |
|   | Phosphate (Inorganic)   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       | Χ                          |       |             | Χ           |             |
|   | Plasma Renin Activity   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|   | Plasminogen Plateletcrit (PCT)                                      |                   |                                |                   |           |       |         |              |                     | Χ           |               |              |             |       |                            |       | Х           |             |             |
|   | Platelets (PLT)   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       | X           |             |             |
|   | pO <sub>2</sub>   |                   |                                |                   | Χ         |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|   | Potassium   |                   |                                |                   | Χ         |       |         |              |                     |             |               |              |             |       | Χ                          |       |             | Χ           |             |
|   | Prealbumin (Transthyretin)  |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|   | Primidone   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|   | Procalcitonin   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|   | Progesterone  |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             | Χ           |
|   | Prolactin   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             | Х           |
|   | Protein (Total)   |                   |                                |                   |           |       |         |              | Χ                   | V           |               |              |             |       | Χ                          |       |             | Χ           |             |
|   | Protein C Protein S   |                   |                                |                   |           |       |         |              |                     | X           |               |              |             |       |                            |       |             |             |             |
|   | PSA (Free)  |                   |                                |                   |           |       |         |              |                     | ^           |               |              |             |       |                            |       |             |             | Х           |
|   | PSA (Total)   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       | Χ                          |       |             |             | X           |
|   | PT (Including INR)  |                   |                                |                   |           |       |         |              |                     | Χ           |               |              |             |       |                            |       |             |             |             |
|   | PTH   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             | Х           |
| R | Red Blood Bell Count (RBC)  |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       | Χ           |             |             |
|   | Red Cell Distribution Width (RDW)                                   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       | Χ           |             |             |
|   | Renin (Direct Concentration)  |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|   | Retinol Binding Protein   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
|   | Rheumatoid Factor   |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             |             |
| S | Salicylic Acid  |                   |                                |                   |           |       |         |              |                     |             |               |              |             |       |                            |       |             |             | Χ           |

|   | Immunoassay Speciality 1                  |
|---|---|
|   | Immunoassay Speciality 2                  |
|   | Immunosuppressant +                       |
|   | Lipid                                     |
|   | Maternal Screening                        |
|   | Microbiology (Bacterial Idenitfication) + |
|   | Neonatal Bilirubin +                      |
|   | Serology (Anti-SARS-CoV-2) +              |
|   | Serology (EBV) +                          |
|   | Serology (HIV / Hepatitis) +              |
|   | Serology (Syphilis) +                     |
|   | Serology (ToRCH) +                        |
|   | Serum Indices +                           |
|   | Specific Proteins                         |
|   | Sweat Testing +                           |
|   | Therapeutic Drug                          |
|   | Urinalysis                                |
|   | Urine Toxicology +                        |
| П |   |

- + = Not accredited
- \* = Pilot study ongoing

| Immunoass | Immunoass | dnsounwwl | Lipid | Maternal So | Microbiology | Neonatal Bi | Serology (A | Serology (E | Serology (H | Serology (S | Serology (T | Serum Indi | Specific Pro | Sweat Testi | Therapeution | Urinalysis | Urine Toxic |   |   |
|-----------|-----------|-----------|-------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|--------------|-------------|--------------|------------|-------------|---|---|
| Ī         | _         | _         |       |             | _            | _           | 0,          | 0,          | 0,          | 0,          | <i>0,</i>   | υ,<br>     | <b>0</b> ,   | <b>0</b> ,  |              |            |             | Monocyte Chemoattractant Protein -1<br>(MCP-1)* | М |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Myoglobin                                       |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | NEFA  | N |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              | Χ          |             | Nitrite   |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Non-HDL Cholesterol                             |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Norepinephrine                                  |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Normetanephrine                                 |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            | Χ           | Norpropoxyphene                                 |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Nortriptyline                                   |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | NTproBNP  |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Oestradiol                                      |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Osmolality                                      | 0 |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             |   |   |
| Х         |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Osteocalcin                                     |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Oxalate   |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            | Χ           | Oxazepam  |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Oxygen Content (O2CT)                           |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Oxygen Saturation (sO2 / Vol O2)                |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Oxyhaemoglobin (O2Hb / HbO2)                    |   |
|           |           |           |       |             |              |             |             |             | Χ           |             |             |            |              |             |              |            |             | P24*  | Р |
|           |           |           |       | Χ           |              |             |             |             |             |             |             |            |              |             |              |            |             | PAPP-A  |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             | Х            |            |             | Paracetamol (Acetaminophen)                     |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | pCO <sub>2</sub>                                |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              | Χ          |             | pH  |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            | Χ           | Phencyclidine                                   |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             | Χ            |            |             | Phenobarbital                                   |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             | Х            |            | ^           | Phenytoin                                       |   |
|           |           |           |       |             |              |             |             |             |             |             |             | Х          |              |             | ^            |            |             |   |   |
|           | V         |           |       |             |              |             |             |             |             |             |             | ^          |              |             |              |            |             | Phosphate (Inorganic)                           |   |
|           | Χ         |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Plasma Renin Activity                           |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Plasminogen                                     |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Plateletcrit (PCT)                              |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Platelets (PLT)                                 |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | pO <sub>2</sub>                                 |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Potassium                                       |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            | Χ            |             |              |            |             | Prealbumin (Transthyretin)                      |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             | Χ            |            |             | Primidone                                       |   |
| Χ         | Χ         |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Procalcitonin                                   |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Progesterone                                    |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Prolactin                                       |   |
|           |           |           |       |             |              |             |             |             |             |             |             | Χ          |              |             |              | Χ          |             | Protein (Total)                                 |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Protein C                                       |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Protein S                                       |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             |   |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | PSA (T-t-1)                                     |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | PSA (Total)                                     |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | PT (Including INR)                              |   |
| Χ         |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | PTH   |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Red Blood Bell Count (RBC)                      | R |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Red Cell Distribution Width (RDW)               |   |
|           | Χ         |           |       |             |              |             |             |             |             |             |             |            |              |             |              |            |             | Renin (Direct Concentration)                    |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            | Χ            |             |              |            |             | Retinol Binding Protein                         |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            | Х            |             |              |            |             | Rheumatoid Factor                               |   |
|           |           |           |       |             |              |             |             |             |             |             |             |            |              |             | Χ            |            |             | Salicylic Acid                                  | S |

- \* = P

PURP

| Ammonia / Ethanol Anti-Mullerian Hormone (AMH) + Anti-TSH Receptor + Blood Gas BNP + Cardiac Cardiac Cardiac Cerebrospinal Fluid + Coagulation | CO-Oximetry + | Cytokines +<br>ESR + | General Clinical Chemistry | HbA1c | Haematology | Human Urine | Immunoassay |
|--|---------------|----------------------|----------------------------|-------|-------------|-------------|-------------|
| S Secobarbital   |               |                      |                            |       |             |             |             |
| SHBG   |               |                      |                            |       |             |             | Χ           |
| Sirolimus  |               |                      |                            |       |             |             |             |
| Sodium X X   |               |                      | Х                          |       |             | Х           |             |
| Specific Gravity   |               |                      |                            |       |             |             |             |
| Strain Identification  |               |                      |                            |       |             |             |             |
| Syphilis   |               |                      |                            |       |             |             |             |
| T T <sub>3</sub> (Free)  |               |                      | Х                          |       |             |             | X           |
| T <sub>3</sub> (Total)   |               |                      | X                          |       |             |             | X           |
| T <sub>4</sub> (Free)  |               |                      | Х                          |       |             |             | X           |
| T <sub>4</sub> (Total)   |               |                      | Х                          |       |             |             | Χ           |
| Tacrolimus   |               |                      |                            |       |             |             | V           |
| Testosterone (Free)*   |               |                      |                            |       |             |             | X           |
| Testosterone (Total)   |               |                      |                            |       |             |             | X           |
| Theophylline Thyroglobulin   |               |                      |                            |       |             |             | X           |
| TIBC   |               |                      | Х                          |       |             |             | ^           |
| Tobramycin   |               |                      | ^                          |       |             |             |             |
| Total hCG  |               |                      |                            |       |             |             |             |
| Transferrin  |               |                      |                            |       |             |             |             |
| Triglycerides  |               |                      | Х                          |       |             |             |             |
| Troponin I X X   |               |                      |                            |       |             |             |             |
| Troponin T X X   |               |                      |                            |       |             |             |             |
| TSH  |               |                      | Х                          |       |             |             | Х           |
| TT X   |               |                      |                            |       |             |             |             |
| Tumour Necrosis Factor alpha (TNF-α)*  |               | Х                    |                            |       |             |             |             |
| U UIBC   |               |                      | Х                          |       |             |             |             |
| Unconjugated Oestriol  |               |                      |                            |       |             |             |             |
| Urea Urea  |               |                      | Х                          |       |             | Х           |             |
| Uric Acid  |               |                      | Х                          |       |             | Χ           |             |
| Urobilinogen   |               |                      |                            |       |             |             |             |
| V Valproic Acid  |               |                      |                            |       |             |             | Χ           |
| Vancomycin   |               |                      |                            |       |             |             | Х           |
| Vascular Endothelial Growth Factor (VEGF)*   |               | Χ                    |                            |       |             |             |             |
| Vitamin B12  |               |                      |                            |       |             |             | Х           |
| VMA  |               |                      |                            |       |             | Χ           |             |
| W Total White Blood Cell Count (WBC)   |               |                      |                            |       | Х           |             |             |
| Z Zinc   |               |                      | Х                          |       |             |             |             |

| Immunoassay Speciality 1 |  | Immunosuppressant +<br>Lipid | Maternal Screening | Microbiology (Bacterial Idenitfication) + | Neonatal Bilirubin + | Serology (Anti-SARS-CoV-2) + | Serology (EBV) + | Serology (HIV / Hepatitis) + | Serology (Syphilis) + | Serology (ToRCH) + | Serum Indices + | Specific Proteins | Sweat Testing + | Therapeutic Drug | Urinalysis | Urine Toxicology + |  |
|--------------------------|--|------------------------------|--------------------|---|----------------------|------------------------------|------------------|------------------------------|-----------------------|--------------------|-----------------|-------------------|-----------------|------------------|------------|--------------------|--|
|--------------------------|--|------------------------------|--------------------|---|----------------------|------------------------------|------------------|------------------------------|-----------------------|--------------------|-----------------|-------------------|-----------------|------------------|------------|--------------------|--|

- + = Not accredited
- \* = Pilot study ongoing

| Immuno | Immunc | lmmunc | Lipid | Materna | Microbio | Neonata | Serolog | Serolog | Serolog | Serolog | Serolog | Serum | Specific | Sweat T | Therape | Urinalys | Urine T |  |   |
|--------|--------|--------|-------|---------|----------|---------|---------|---------|---------|---------|---------|-------|----------|---------|---------|----------|---------|--|---|
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          | Х       | Secobarbital                               | S |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | SHBG                                       |   |
|        |        | Х      |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | Sirolimus                                  |   |
|        |        |        |       |         |          |         |         |         |         |         |         | Χ     |          |         |         |          |         | Sodium                                     |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         | Χ        |         | Specific Gravity                           |   |
|        |        |        |       |         | Х        |         |         |         |         |         |         |       |          |         |         |          |         | Strain Identification                      |   |
|        |        |        |       |         |          |         |         |         |         | Х       |         |       |          |         |         |          |         | Syphilis                                   |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | T <sub>3</sub> (Free)                      | Т |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | T <sub>3</sub> (Total)                     |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | T <sub>4</sub> (Free)                      |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | T <sub>4</sub> (Total)                     |   |
|        |        | Χ      |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | Tacrolimus                                 |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | Testosterone (Free)*                       |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | Testosterone (Total)                       |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         | Х       |          |         | Theophylline                               |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | Thyroglobulin                              |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | TIBC                                       |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         | Х       |          |         | Tobramycin                                 |   |
|        |        |        |       | Х       |          |         |         |         |         |         |         |       |          |         |         |          |         | Total hCG                                  |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       | Χ        |         |         |          |         | Transferrin                                |   |
|        |        |        | Х     |         |          |         |         |         |         |         |         | Χ     |          |         |         |          |         | Triglycerides                              |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | Troponin I                                 |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | Troponin T                                 |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | TSH  |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | TT   |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | Tumour Necrosis Factor alpha (TNF-α)*      |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | UIBC                                       | U |
|        |        |        |       | Х       |          |         |         |         |         |         |         |       |          |         |         |          |         | Unconjugated Oestriol                      |   |
|        |        |        |       |         |          |         |         |         |         |         |         | Χ     |          |         |         |          |         | Urea                                       |   |
|        |        |        |       |         |          |         |         |         |         |         |         | Χ     |          |         |         |          |         | Uric Acid                                  |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         | Х        |         | Urobilinogen                               |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         | Χ       |          |         | Valproic Acid                              | V |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         | Χ       |          |         | Vancomycin                                 |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | Vascular Endothelial Growth Factor (VEGF)* |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | Vitamin B12                                |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | VMA  |   |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | Total White Blood Cell Count (WBC)         | W |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         | Zinc                                       | Z |
|        |        |        |       |         |          |         |         |         |         |         |         |       |          |         |         |          |         |  |   |

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