



Verein für **medizinische Qualitätskontrolle**  
Association **pour le contrôle de Qualité médical**  
Associazione **per il controllo di qualità medico**

## Comment to Survey 2015-2

### General information

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You can find all the important information, detailed reports and instructions at [www.mqzh.ch](http://www.mqzh.ch).

### K1 – eGFR

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At [www.mqzh.ch](http://www.mqzh.ch) you can find a calculator that uses the currently recommended CKD-EPI formula. Also, the reference range and the classification of the different stages with kidney disease are indicated below the calculator. On the basis of the formulas used, we have now formed three groups and, in each case, we used the mean eGFR value as the target value.

The following table lists the eGFR values per instrument calculated from the creatinine reference values of the different instrument groups.

Did you obtain a much lower value? If your computer uses the old creatinine unit of mg/dL, you must divide your creatinine levels by 88.4.

*Man, 50 years, 120 kg, white*

Method	creatinine (µmol/l)	eGFR ml/min (CKD-EPI)	eGFR ml/min (Cockcroft Gault)	eGFR ml/min (MDRD)
		37.7	78.1	36.3
standard chemistry	167	40.5	79.8	40.4
Reflotron	191	34.4	69.4	34.6
Fuji Dri-Chem	164	41.4	80.6	41.2

### H3 – Differential blood smear

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Smear H3-A is derived from a patient with neutrophilia and anemia. Smear H3-B is derived from a patient with congenital dyserythropoetic anemia (CDA type 1, after splenectomy). Please always note the measured values that we send along with the sample. In addition to the cases you will also find histograms of our hematology instruments at [www.mqzh.ch](http://www.mqzh.ch) in report H3.

### K3 / K18 - HbA1c

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From the survey specimens, the European Reference Laboratory for Glycohemoglobin measured a DCCT compliant HbA1c value of 8.12 % for the sample A, and 7.34 % for the sample B.

You can find the Certificate of Analysis with the DCCT and IFCC value on our website.

### Cardiac markers

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For the troponin I and troponin T values we recommend using only the unit ng/L in future.

### K26 troponin I triage

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There are currently two different troponin I tests commercially available:

- Troponin I SOB and Cardiac cassettes
- Next Generation Troponin I in the Troponin I, Cardio2 and Cardio3 cassettes

Because of the great differences between these tests they are evaluated separately. It is therefore important that you always specify the type of cartridge and the lot number used.

### **S1 – Fecal occult blood**

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Our simulated stool sample did not contain any human blood; the result of all tests should be "negative."

### **U2 - Urinteststrips**

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This specimen contained urine from healthy donors that was spiked with nitrite and blood.

### **U3 - Urin Drugs**

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To one liter of urine were added 1000 µg morphine, 1000 µg morphine 3-glucuronide, 2000 µg D,L-methamphetamine and 2000 µg D,L-amphetamine. Accordingly, opiate, methamphetamine and amphetamine should be positive, and all other analyses should be negative.

The majority of participants measured "methamphetamine negative" with Triage TOX. This test measures D-methamphetamine only, but should be positive starting from 1000 µg/L. For this reason, we kept the target value "positive".

### **B1 und B2 - Microbiology**

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We sent you the following samples:

**B1 Strep A**      A simulated throat swab with the following pathogens:  
*Streptococcus salivarius*  
The correct result was «negative»

**B2 Uricult**      100 ml of buffer solution and a sterile pellet  
We expected  $<10^3$  CFU

### **B10 – Gram - stain**

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The sample was isolated from blood culture. The patient was suffering from endocarditis. The sample contained Gram-positive cocci in clusters (*Staphylococcus aureus*)

### **The shipping of the next survey is: Tuesday 1. September 2015**

Further survey dates are on  
3. November 2015, 8. March 2016 and 7. June 2016.

Is your laboratory closed this week? Then send or fax us a quick note as soon as possible. We will send your samples 2 weeks later.

Best regards



Dr. R. Fried