



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

## Comment to Survey 2014-4

### General information

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

### K1 – eGFR

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..

*women, 70 years, 45 kg, white*

Method	creatinine ( $\mu\text{mol/l}$ )	eGFR ml/min (CKD-EPI)	eGFR ml/min (Cockcroft Gault)	eGFR ml/min (MDRD)
standard chemistry	124	38	29.34	39.43
Reflotron	123	38.4	29.58	39.8
Fuji Dri-Chem	107	45.4	34	46.75

### H3 – Differential blood smear

Smear H3-A is from a healthy employee. Smear H3-B is derived from a patient with LGL leukemia.

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.

### G11 – CoaguChek XS

In this survey sample, we observed an unusually large scatter. It seems that the samples deliver different values depending on the lot of reagent used. We still identified a target value for all results, but increased the tolerance to 20%.

### K3 / K18 - HbA1c

From the survey specimens, the European Reference Laboratory for Glycohemoglobin measured a DCCT compliant HbA1c value of 8.18 % for the sample A, and 5.45 % for the sample B.

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

### S1 – Fecal occult blood

Our simulated stool sample did contain human blood; the result of all tests should be "positive."

### U2 - Urinteststrips

This specimen contained urine from healthy donors that was spiked sodiumnitrit, glucose, blood and proteins.

### U3 - Urin Drugs

To one liter of urine, 1,000 µg methadone, 1000 µg EDDP, 1000 µg doxepin, 1000 benzoyllecgonine and 1000 µg morphine were added. Accordingly, methadone, tricyclic antidepressants, cocaine and opiates should test positive, all other analyzes negative. The concentration of doxepin was at the threshold value; therefore we evaluated as correct both positive and negative values for the tricyclic antidepressants.

### B1 und B2 - Microbiology

We sent you the following samples:

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

**B2 Uricult** 100 ml of buffer solution and a pellet with *Proteus mirabilis* > 10<sup>5</sup>  
We expected >= 10<sup>4</sup> CFU

### B10 – Gram - stain

The ascites sample contained Yeast (*Candida guilliermondii* group)

### Qualab

In 2015, the document "mandatory external quality control" was revised. New are the mandatory hormones estradiol and testosterone that are contained in MQ in sample K6. The osmolality resulting from the chemical controls unfortunately does not deliver reasonable values because of the stabilizers. Therefore, for this analysis we have developed a specific control sample, sample K22.

In the areas of autoantibodies, viral/bacterial PCR and parasitology, MQ can now provide the products of the Dusseldorf German Quality Control Center in Switzerland. Please call us if you want to participate in these survey samples.

### The shipping of the next survey is: Tuesday 3. March 2015

Further survey dates are on  
9. June, 1. September and 3. November 2015

Is your practice 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

*RTM*

Dr. R. Fried

*Happy Holiday Season!*

