

Instructions for Survey MQ 2018-2

General:

Storage and preparation of samples

- Refrigerated samples must be removed from the refrigerator 15-30 minutes prior to analysis (exception are blood gas ampoules, 5 hours) so they are at room temperature.
- Ready-to-use samples only need to be mixed.
- Most of our samples are human origin. Please treat them with the appropriate security measures and dispose them according your local regulations.

Sample Analysis

- The samples must be analyzed using the same method that you also use for patient samples.
- Replicate measurements are permitted only if also performed with patient samples.
- Samples may not be transferred to other laboratories.

Submission of Results

- The results must be signed off by the responsible laboratory manager / physician.
- The results may only be discussed with colleagues from other laboratories once the survey is complete, i.e., the evaluation has been sent.

Administration

- IMPORTANT: Check that the information on the protocol sheet is accurate and complete. You can enter changes and additions on the form in hand writing.
- · Do not send samples back to us. We can only reuse the plastic letter inlay cases and the slide cases.
- Please do not forget to retain a photocopy of your protocol sheet until you have received and checked the analysis.

Estimated glomerular filtration rate (eGFR)

To evaluate patient's renal function, plasma creatinine should be measured and the eGFR calculated. All
the participants who are measuring creatinine will find an additional entry for eGFR in the protocol sheets.
If you are not yet working with eGFR, you will find further information and a calculator on www.mqzh.ch.
Patient: 75 years old women, white, 50 kg

H1 - Hematology

Preparation	Rotate and tilt 2-3 minutes by hand until no more cells are stuck to the bottom of the vial.
Analyzes	Hemoglobin, hematocrit, leukocytes, platelets and erythrocytes.

H2 - Hematology Plus

Preparation	Rotate and tilt 2-3 minutes by hand until no more cells are stuck to the bottom of the vial.
Analyzes	Hemoglobin, hematocrit, leukocytes, platelets and erythrocytes, Crp
Instruments	Microsemi, Micros 100, Micros200

H5 - Hematology Blood Gases

Samples	Vial with aqueus solution
Analyzes	Hemoglobin, Hematocrit
Preparation	The samples must be at least 5 h stored prior to use at room temperature (about 25 ° C).
	Mix the vial carefully.

H6 - Hemogram automatic 5-Part

Samples	1 ml fresh Blood (Sample has to be tested immediately, no alternate date possible.)
Analyzes	WBC, RBC, PLT, HK, lymphocytes, monocytes, neutrophils, basophils, eosinophils.

H7 - Reticulocytes automatic

Samples 1 ml fresh Blood (Sample has to be tested immediately, no alternate date possible.)

Analyzes Reticulocytes

G1 - Coagulation, oral anticoagulation

Preparation Pipette 1 ml of distilled water to the vial.

Close the bottle again. Dissolve by careful rotation and allow to stand

for 20 at room temperature.

Carefully mix one more time by hand before measuring.

Analyzes INR, PTT, fibrinogen.

Comment Special Instructions for Hepato-Quick, capillary citrate method:

Add 300 μl NaCl solution (0.9%) to the dissolved sample and mix

Add 100 µl citrate buffer solution (pH 4.5) to a measurement vial and add

20 µl sample.

Use the entire volume (120 µI) in the assay. Continue by following the usual instructions.

G3 - Coagulation, no anticoagulation

Preparation Pipette 1 ml of distilled water to the vial.

Close the bottle again and mix gently.

Let stand at room temperature for 10 minutes.

Measure within 60 minutes.

Analyzes Quick, PTT, fibrinogen, thrombin time.

Comments If the Quick is above 100%, please only report values "> 100."

G4 - Clotting, heparin therapy

Preparation Pipette 1 ml of distilled water to the vial.

Close the bottle again and mix gently.

Let stand at room temperature for 10 minutes.

Measure within 60 minutes.

Analyzes Quick, PTT, fibrinogen, thrombin time.

G6 - D-dimer

Analyzes D-dimer

Comments Participants with Vidas: With values > 1000, dilute the sample.

G12 - Hemochron Jr.

Preparation You can find detailed instructions for measuring the internal quality control in the user

instructions or at (www.mgzh.ch under "Instructions"). The survey specimen must be

treated in the same way.

Analyzes INR value

Important Measure the survey specimen in a citrate cuvette. If you measure capillary blood in your

practice you can order the citrate PT cuvettes for the survey test at Axon Lab.

13 - Allergology

Comments Participants with CAP or Immulite can perform the following analyzes:

Total IgE, IgE multi-specific (sx1, rx2 and fx5), IgE specific (birch t3, peanut f13, cat

epithelia e1)

Participants with AllergyScreen fromTeomed or allergy tests from Intex can simply enclose

the findings as before.

K3/K18 - HBA1c

Analyzes HbA1c

Comments Please perform the measurements as soon as possible (fresh whole blood).

If the NycoCard displays "Hb too low", you must add two capillaries to the dilution solution $% \left(1\right) =\left(1\right) \left(1\right) \left($

(R1/Reagent).

If the NycoCard displays "Reduc. Hb conc "display, you must combine two tubes of

reagent solution (R1) and add a capillary.

There are two different samples (A and B). Please check that the labels on the protocol

sheet match the label on your specimen.

K4/K9 - Blood gases

Comment For OPTI devices you need the control K9.

Radiometer: Please refer to the instrument-specific instructions on our homepage. For

creatinine, you need sample K1.

Preparation The samples must be stored at room temperature for at least 5 h prior to use (approx.

25°C).

Mix the ampoule vigorously. Prepare your analyzer.

Break open the ampoule and measure immediately, as if it were a patient sample.

K5 - Cardiac Markers

Analyzes Troponin I, troponin T, NT-pro BNP, myoglobin, CK-MB Mass (Immunoassay)

Participants with the following devices have to order special specimens:

Cobas h232: K8; Triage: K26; Samsung IB10: K31

K17 - BNP

Note

Preparation Please dissolve the lyophilisate carefully in 1000 µl distilled water.

Mix the sample every once in a while by hand for 20 minutes.

Analyzes BNP

K29 - Calprotectin

Analyzes Calprotectin

Important The sample can be handled like liquid faces.

The sample is shipped frozen. Please measure the sample immediately after thawing the

specimen. If you cannot immediately measure the sample, please store at -20°C

K30 - Lipids Afinion and Cobas b101

Analyzes Cholesterol, HDL cholesterol, triglycerides

U1 - Urine quantitatively

Analyzes Quantitative: Amylase, calcium, chloride, glucose, magnesium, osmolality, pH, phosphate,

potassium, protein, sodium, urea, uric acid.

Comments Not suitable for urine test strips.

For urinary albumin and creatinine in urine, the sample U5 must be used for all devices.

U2 - Urine test strips

Analyzes Urine test strips and pregnancy test.

Important For our analyses, we differentiate between the various types of test strips and devices.

Please check that the information on the protocol sheet matches your strips and mark the result with a check mark. For example, if you use the 7-series test strips or no HcG test, simply do not check anything with the corresponding analysis. Then it also does not show

up on your analysis.

U3 - Urine drugs

Analyzes Amphetamines, barbiturates, benzodiazepines, cannabinoids, cocaine, methadone,

opiates, methaqualone, methamphetamine, LSD, tricyclic antidepressants, paracetamol,

phencyclidine.

Comments In all methods, only qualitative results (positive/negative) are evaluated.

V1 - HIV rapid test

Analyzes HIV screening with rapid tests.

Comment Positive specimens are not infectious.

S1 - Fecal occult blood

Preparation The simulated stool sample is ready for use, and is used in exactly the same way as a

patient specimen.

B1 - Strep A

Preparation Insert the swab as if it were fresh.

Analyzes Strep A Rapid Test.

Comments Please compare the name of the test cassette used with the information on the protocol

sheet and correct if necessary.

Users of QuickVue In-Line Tests: You can find detailed instructions at www.mqzh.ch

under "Instructions".

B9 - Bacteriology

Samples 5 samples (2x resistance testing, 5x identification).

Analyzes Chapter 3.2.2 of AL.

Important Dissolve and process specimen in the safety cabinet only!

Preparation Use scissors to carefully remove the inner small golden metal ring (cap in the center top).

Disinfect the rest of the metal cap and the gray rubber.

Reconstituted specimens with 0.5 ml 0.9% NaCl by injecting the liquid through the gray

rubber with a sterile syringe.

Remove the outer golden metal ring (outside top lid) only after the samples have

completely dissolved.

Note: Even if you forward the material, you must still process it for the survey.

B10 - Gram stain

Samples 1 slide with clinical specimen after heat fixation

Analyzes Gram-stain