

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

Instructions for Survey MQ 2015-4

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 <u>www.mqzh.ch</u>.
Patient: 40 years old men, white, 70 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.
Important	For hemoglobin, the only unit we accept is g/l.

H3 - Blood smear

Samples	2 slides, stained, with cover glass.
Analyzes	Microscopic differential of peripheral blood cells.

H4- Parasites in blood

Samples	1 slide, stained, with cover glass
Analyzes	Identifikation of parasites and number of parasitaemia.
If you want the	e blood counts only for training purposes, please let us know.
Then, H3 diffe	rential blood count and H4 Parasitic hematology will not appear on your certificate.

G1 - coagulation, oral anticoagulation

Pipette 1 ml of double-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.
INR, PTT, fibrinogen.
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 µl) in the assay.
Continue by following the usual instructions.

G3 - coagulation, no anticoagulation

Preparation	Pipette 1 ml of double-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 double-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.

G5 - D-dimers NC

Analyzes	D-dimer
Instruments	Nyco Card, Check-1VedaLab, UltiMed and Simplify.

G6 - D-dimer

Analyzes	D-dimer
Comments	Participants with Vidas: With values > 1000, dilute the sample.

G11 - CoaguCheck XS Plus

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Preparation	You can find detailed instructions for measuring the internal quality control in the user
	instructions or at (www.mqzh.ch under "Instructions"). The survey specimen must be
	treated in the same way.
Analyzes	INR value.
G12 - Hemoch	iron Jr.
Preparation	You can find detailed instructions for measuring the internal quality control in the user
·	instructions or at (www.mqzh.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.

G14 - micro INR

Preparation	You can find detailed instructions for measuring the survey sample at (www.mqzh.ch
	under "Instructions")
Analyzes	INR value

Analyzes	CRP
Comments	Quick Read: Treat sample the same as patient whole blood.
	NycoCard single test: for reading, set instrument to CRP plasma/serum.
	Microsemi: You can find detailed instructions for measuring survey specimens on our
	homepage at www.mqzh.ch.
12 - Plasmapro	oteins
Analysen	IgA, IgG, IgM, IgE, C3, C4, α -1-Antitrypsin, α -1-Glycoprotein, Antistreptolysin,
	Haptoglobin, Transferrin, β -2-Mikroglobulin, Coeruloplasmin, Praealbumin.
13 - Allergolog	עו
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 enclos
	the findings as before.
K1 - Clinical C	Chemistry
Analyzes	Albumin, AP, amylase, PAmylase, bilirubin, calcium, chloride, cholesterol, HDL-
	cholesterol, CK, iron, GGT, glucose, uric acid, urea, potassium, creatinine, LDH, lipase,
	lithium, magnesium, sodium, phosphate, protein, AST/GOT, ALT/ GPT, triglycerides,
Results	fructosamine, lactate. For enzyme measurements with Reflotron, Ektachem and Spotchem, report the values at
	37°C values.
Comments	If you determine glucose only, you can order the sample K2 (liquid).
	Participants working with the Cobas Ready and Spotchem 4410/4420/4430 instruments
	require sample K13 for creatinine determination. Participants with Cholestech LDX, please set instrument to serum.
K2 - Glucose Analyzes	Glucose
Comments	Only for glucometers.
K3/K18 - HBA Analyzes	
Comments	HDA1C
COMMENTS	HbA1c Please perform the measurements as soon as possible (fresh whole blood).
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K4/K7/K9/K16	 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 (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/K7/K9/K16 AnalyzespO ² ,	 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 (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. a - blood gases pCO², pH, Na⁺, K⁺, Ca^{++,} Cl⁻, glucose, lactose.
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K4/K7/K9/K16 AnalyzespO ² , Comment Preparation K5 - Cardiac M Analyzes	 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 (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. i- blood gases pCO², pH, Na⁺, K⁺, Ca⁺⁺, Cl⁻, glucose, lactose. For OPTI devices you need the control K7 OPTI or K9 OPTI CCA. Radiometer: Please refer to the instrument-specific instructions on our homepage. For creatinine, you need sample K1. 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. Markers Troponin I, Troponin T, Myoglobin, CK-MB Mass (Immunoassay)
K4/K7/K9/K16 AnalyzespO ² , Comment Preparation K5 - Cardiac M Analyzes	 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 solu (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 protoc sheet match the label on your specimen. - blood gases pCO², pH, Na⁺, K⁺, Ca⁺⁺, Cl⁻, glucose, lactose. For OPTI devices you need the control K7 OPTI or K9 OPTI CCA. Radiometer: Please refer to the instrument-specific instructions on our homepage. For creatinine, you need sample K1. 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. Markers Troponin I, Troponin T, Myoglobin, CK-MB Mass (Immunoassay)
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K6 - Hormones

Analyzes	TSH, T3, T4, fT3, fT4, Cortisol, LH, FSH, Prolactin (PRL), Testosteron, Insuline	
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Analyzes	TSH, T3, T4, fT3, fT4, Cortisol, LH, FSH, Prolactin (PRL), Testosteron, Insuline
K8 - Cobas h2	32/ Cardiac Reader
Analyzes	Troponine T, Myoglobin, D-Dimer, pro BNP, CK-MB
Note	Cobas h232 / Cardiac Reader + TropT sensitive
K10 - Anemia	
Analyzes	Ferritine, Folate, Vitamin B12
K11 - BNP tria	200
Preparation	Please solve the lyophilisate carefully in 1000µl double distilled water.
	Mix the sample every once in a while by hand for 20 minutes.
Analyzes	BNP
K12 - Neonata	l Bilirubin
Analyzes	Bilirubin: total, direct, indirect and neonatal
K13 - Creatini	ne Spotchem
Analyzes	Creatinine for Spotchem and Spotchem D-Concept
K14 - Tumor N	/larkers
Analyzes	PSA, free PSA, Alpa-1-fetoprotein (AFP), carcinoembryonic antigen (CEA), human
-	chorionic gonadotropin (HCG) qn, CA 125, CA 19-9, CA 15-3.
К15 - СК-МВ	Activity
Analysis	CK-MB activity.
K17 - BNP / N	T-pro BNP plasma
Preparation	Please dissolve the lyophilisate carefully in 1000µl double distilled water.
	Mix the sample every once in a while by hand for 20 minutes.
Analyzes	BNP, NT-proBNP.
K20 - Procalci	tonin
Analyzes	Procalcitonin (PCT)
K21 - PTH	
Analyzes	Intact Parathyroid hormone (PTH), 25-OH Vitamin D, Osteocalcin
K22 - Osmolal	lity
Analyzes	Osmolality, sodium, potassium, glucose, urea
Comment	Osmolality of specimen K1 is no longer evaluated because no reasonable values are
	measurable due to the presence of the stabilizers in K1.
K24 - Therape	utic Drug Monitoring
Analysis	Digoxin, Valproic Acid, Carbamazepine
K25 - Cystatin	C
Analysis	Cystatin C
K26 - Triage	
Analysis	Troponin I, D-dimer, CK-MB Mass, Myoglobin
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	Ethanol
K29 - calprote	ectin
Analyzes	Calprotectin
Important	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 A	finion and Cobas b101
Analyzes	Cholesterol, HDL Cholesterol, Triglycerides
U1 - urine qua	Intitatively
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 tes	
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 th
	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 should up on your analysis.
	up on your analysis.
U3 - urine dru	
Analyzes	Amphetamines, barbiturates, benzodiazepines, cannabinoids, cocaine, methadone,
	opiates, methaqualone, methamphetamine, LSD, tricyclic antidepressants, paracetamol,
	nhenovolidine
Comments	phencyclidine. In all methods, only qualitative results (positive/negative) are evaluated
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U5 - Urine Cre	In all methods, only qualitative results (positive/negative) are evaluated.
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U5 - Urine Cre	In all methods, only qualitative results (positive/negative) are evaluated. atinin/Microalbumin Urine albumin (microalbumin) and urine creatinine
U5 - Urine Cre Analyzes V1 - HIV rapid Analyzes	In all methods, only qualitative results (positive/negative) are evaluated. atinin/Microalbumin Urine albumin (microalbumin) and urine creatinine test HIV screening with rapid tests.
U5 - Urine Cre Analyzes V1 - HIV rapid	In all methods, only qualitative results (positive/negative) are evaluated. atinin/Microalbumin Urine albumin (microalbumin) and urine creatinine test
U5 - Urine Cre Analyzes V1 - HIV rapid Analyzes Comment B1 - Strep A	In all methods, only qualitative results (positive/negative) are evaluated.
U5 - Urine Cre Analyzes V1 - HIV rapid Analyzes Comment B1 - Strep A Preparation	In all methods, only qualitative results (positive/negative) are evaluated.
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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.