**Instructions for urinalysis**

**Anlyzer: Clinitek**

Dipstick testing

1. Use a fresh urine sample within 1 hour of collection or a sample that has been refrigerated. Bring the sample to the room temperature.
2. Mix specimen before urinalysis.
3. Note the color, clarity and odor of urine.
4. The urine should be non-centrifuged before dipstick test.
5. Dip a reagent strip into urine (about 1 sec.), then remove it and blot.
6. When you remove the dipstick from urine, press START key on the device.
7. Place dipstick on the test strip table device within 10 sec.
8. Remove and discard the dipstick after the end of the test.
9. The results of the test include: bilirubin, ketones, specific gravity, pH, proteins, erythrocytes, leukocytes, nitrite and urobilinogen.
10. The reference values:

Bilirubin NEG(-)

Ketones NEG(-)

Specific gravity 1.010-1.030

pH 5-8

Proteins NEG(-)

Urobilinogen 0.2-1.0 EU/dl

Nitrite NEG(-)

Erythrocytes NEG(-)

Leukocytes NEG(-)

Microscopic examination of urine:

1. After mixing of urine pour 10 ml of urine to the test tube.
2. Centrifuge the urine for 5 minutes at 2000 revolutions/min.
3. Remove the urine from above the sediment.
4. Use a pipette to place 20 µl of sediment on microscope slide and put cover glass.
5. Examine the sediment under a zoom (eyepiece 10x, lens 40x)

**Instructions for performing Complete Blood Count**

**Analyzer: MEK-6400**

1. Obtain a venous anticoagulated EDTA (lavender-topped tube) whole blood sample.
2. Before testing mix the specimen 8-10 times.
3. Remove the cap of the test-tube, put the specimen in the special place in the device.
4. Press START key.
5. Remove the specimen after the end of the test.
6. The results of test includes: WBC, granulocytes, limfocytes, monocytes, RBC, Hb, Hct, MCV, MCH, MCHC, PLT, RDW, PCT, MPV, PDW.

**Instructions for blood gas testing and measuring the level of electrolytes**

**Analyzer: Cobas 121**

1. Check if READY TO WORK announcement appears on the screen of the analyzer.
2. Lift the lever of the probe and put slightly stirred specimen (remember to use a stirrer in the case of capillaries as well as Clot Catcher)
3. After aspiration, remove the specimen and close the probe.
4. The result of the test includes: the level of pH, pCO2, pO2, Na+, K+, Cl-, HCO3-, BE, SO2.
5. The reference values:

Capillary blood

pH 7.35-7.45

pCO2 35-45 mmHg

pO2 65-95 mmHg

HCO3 21-27 mmol/l

BE +/- 2.5 mmol/l

SO2 70-95 %

iCa 1.12 – 1.32 mmol/l