

File n°: 2503171061 created on: 17.03.2025
Collection date and time: 17.03.2025 / 09:02
Printed on: 17.03.2025 / 13:03
Final report

Institut Pasteur du Cambodge
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21.02.1981 / M
KAMPONG CHHNANG

BACTERIOLOGY

Sample type : Urine

URINALYSIS, Roche Urisys 1100 Urine Analyzer

Specific Gravity :	1 020
pH :	5,0
Leukocytes :	Absence
Nitrites :	Absence
Proteinuria :	PRESENCE +++
Glucose :	PRESENCE +++
Ketones :	Absence
Urobilinogen :	Absence
Bilirubin :	Absence
Blood :	Absence

BACTERIOLOGY

Sample type : Urine

CYTOLOGICAL EXAMINATION OF URINE

General characters

Aspect of Urine : Slightly cloudy

Cytological examination

Leukocytes :	2	/mm ³ (N<10)
Red Blood Cells :	5	/mm ³ (N<10)
Epithelial cells :	Absent	
Crystals :	Absent	



File n°: 2503171057 created on: 17.03.2025
Collection date and time: 17.03.2025 / 08:58
Printed on: 17.03.2025 / 13:03
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HEMATOLOGY

	Results	Reference range*	Antecedents
► COMPLETE BLOOD COUNT (CBC) (Cytochemistry-Impedance and Optical, Whole Blood-EDTA, Pentra 80XL, Horiba) (Reference range: Hematocell.fr (CHU - Angers, France)/ Full blood count normal reference values according to age)			
White blood cells	10,5 G/L	(4,0 - 11,0)	
Red blood cells	4,41 T/L	(4,5 - 5,8)	
Hemoglobin	13,4 g/dL	(13 - 17)	
Hematocrit	38,5 %	(40 - 50)	
M.C.V. (Volume)	87 fL	(80 - 95)	
M.C.H. (Hemoglobin)	30,4 pg	(26 - 34)	
M.C.H.C. (Hb concentration)	34,8 %	(32 - 36)	
► LEUKOCYTE DIFFERENTIAL COUNT			
Neutrophils	54,7 %	5,74 G/L	(1,5 - 7)
Eosinophils	1,5 %	0,16 G/L	(< 0,50)
Basophils	1,0 %	0,11 G/L	(0 - 0,11)
Lymphocytes	34,7 %	3,64 G/L	(1,5 - 4)
Monocytes	8,1 %	0,85 G/L	(0,18 - 1,0)
Platelets	356 G/L	(150 - 450)	

BLOOD BIOCHEMISTRY

	Results	Reference range*	Antecedents
► Fasting Blood Sugar (Plasma, Colorimetry, Pentra C400, HORIBA)			
	15,52 mmol/L	(4,10 - 5,90)	
	2,79 g/L	(0,74 - 1,06)	



Medical Examinations
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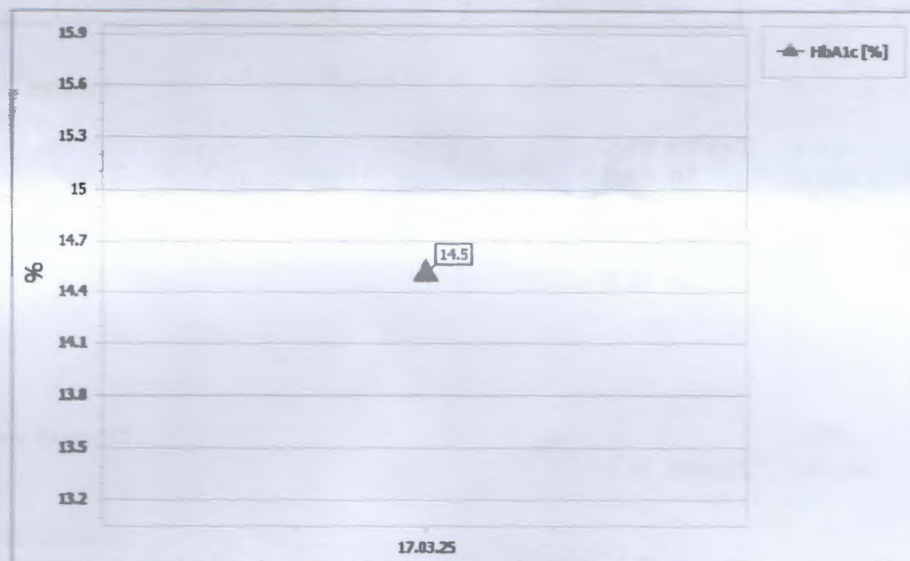
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In the framework of scientific research in biomedical and public health in Cambodia, your samples or their by-products
may be used for further analysis, unless you express your opposition.

Must be considered diabetic, anyone who on 2 occasions and after at least 8 hours of fasting, has a fasting blood glucose greater than 1.26 g/L (7 mmol/L). In pregnant women, fasting blood glucose should be less than 0.92 g/L (5.1 mmol/L) (reference: WHO).

Glycated hemoglobin (HbA1c)

(EDTA Whole blood, Electrophoresis, Minicap Flex Piercing, SEBIA)

14,50 %
135,00 mmol/mol (20 - 42)



For most patients with diabetes type 2 an HbA1c target = 7% is recommended.
(French National Authority for Health - HAS - recommendations 2013)

► LIPID PROFILE

(Plasma, Colorimetry, Pentra C400, HORIBA)

Appearance of serum

Aspect

Limpid

12h fasting

Fasting before sampling

Respected

Reference values are for a strict 12-hour fast

► Total Cholesterol

10,05 mmol/L (< 5,18)
3,89 g/L (< 2,00)



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► HDL Cholesterol

1,54 mmol/L (0,77 - 1,81)
0,60 g/L (0,30 - 0,70)

Cardiovascular risk score (Atherogenic index)

6,53

Cholesterol Total/HDL	MEN	< 4,97 no risk 4,97 < Risk x2 < 9,50 > 9,50 Risk x3	WOMEN	< 4,44 no risk 4,44 < Risk x2 < 7,00 > 7,00 Risk x3
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► Calculated LDL cholesterol
(Friedewald's formula)

7,45 mmol/L (< 4,14)
2,88 g/L (< 1,61)

► Triglycerides

2,34 mmol/L (< 1,71)
2,05 g/L (< 1,50)

Conclusion:
Mixed dyslipidemia.

Sodium
(Plasma, Potentiometry, Exias e1)

135 mmol/L (135 - 145)

Potassium
(Plasma, Potentiometry, Exias e1)

3,9 mmol/L (3,5 - 5,1)

Chloride
(Plasma, Potentiometry, Exias e1)

94 mmol/L (98 - 107)

► Total Calcium
(Plasma, Colorimetry, Pentra C400, HORIBA)

2,71 mmol/L (2,15 - 2,57)
108,7 mg/L (86,2 - 103,1)

► Magnesium
(Plasma, Colorimetry, Pentra C400, HORIBA)

1,08 mmol/L (0,73 - 1,06)
26,2 mg/L (17,7 - 25,7)

► Creatinine
(Plasma, Colorimetry, Pentra C400, HORIBA)

215 µmol/L (71 - 115)
24,3 mg/L (8,0 - 13,0)

Glomerular filtration rate (GFR) (Creatinine clearance)

31,0 mL/min/1,73m²



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Modification of Diet in Renal Disease (MDRD)

Stage	GFR	Description
1	> 90	Normal kidney Glomerular Filtration Rate (GFR)
2	60 - 89	Mild decrease in Glomerular Filtration rate (GFR)
3	30 - 59	Moderate decrease in Glomerular Filtration rate (GFR)
4	15 - 29	Severe decrease in Glomerular Filtration rate (GFR)
5	< 15	Renal failure

Chronic kidney disease is defined as either kidney damage or $GFR < 60 \text{ mL/min/1.73m}^2$ for ≥ 3 months.

► **Blood Urea and Blood Urea Nitrogen (BUN)**

(Plasma, Colorimetry, Pentra C400, HORIBA)

Urea

17,90 mmol/L (3,20 - 7,30)
1,07 g/L (0,19 - 0,44)

Blood Urea Nitrogen (BUN)

(Calculated)

50,3 mg/dl (9,0 - 20,5)

ENZYMOLLOGY

► **Aspartate Amino Transferase (SGOT)**

(Plasma, Colorimetry, Pentra C400, HORIBA)

Results	Reference range*	Antecedents
20 U/L	(< 35)	

► **Alanine Amino Transferase (SGPT)**

(Plasma, Colorimetry, Pentra C400, HORIBA)

23 U/L	(< 46)	
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