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Final report

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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	4,9 G/L	(3,8 - 11,0)	6,0 13.03.24
Red blood cells	5,20 T/L	(3,8 - 5,4)	5,20 13.03.24
Hemoglobin	13,3 g/dL	(12 - 16)	13,7 13.03.24
Hematocrit	40,3 %	(37 - 47)	41,5 13.03.24
M.C.V. (Volume)	78 fL	(80 - 95)	80 13.03.24
M.C.H. (Hemoglobin)	25,6 pg	(24,4 - 34)	26,3 13.03.24
M.C.H.C. (Hb concentration)	33,0 %	(32 - 36)	33,0 13.03.24
Comment: Microcytosis.			
► LEUKOCYTE DIFFERENTIAL COUNT			
Neutrophils	43,4 %	2,13 G/L (1,5 - 7)	2,15 13.03.24
Eosinophils	3,9 %	0,19 G/L (< 0,50)	0,23 13.03.24
Basophils	0,9 %	0,04 G/L (0 - 0,11)	0,04 13.03.24
Lymphocytes	44,2 %	2,17 G/L (1,5 - 4)	3,04 13.03.24
Monocytes	7,6 %	0,37 G/L (0,15 - 1,0)	0,53 13.03.24
Platelets	263 G/L	(150 - 450)	248 13.03.24

BLOOD BIOCHEMISTRY

	Results	Reference range*	Antecedents
► Fasting Blood Sugar (Plasma, Colorimetry, Pentra C400, HORIBA)			
	5,96 mmol/L	(4,10 - 5,90)	6,29 13.03.24
	1,07 g/L	(0,74 - 1,06)	1,13 13.03.24



Medical Examinations
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may be used for further analysis, unless you express your opposition.

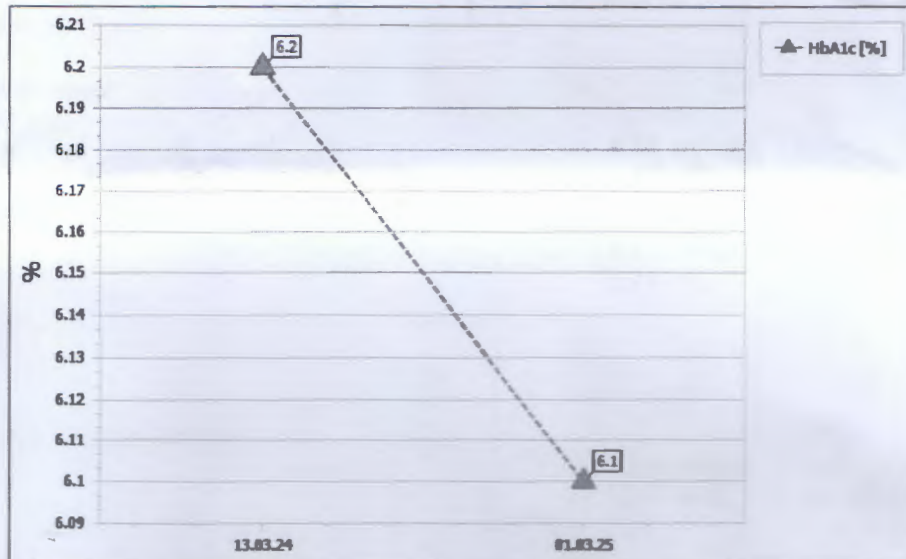
Must be considered diabetic, anyone who on 2 occasions and after at least 8 hours of fasting, has a fasting blood glucose greater than 1.26 g/L (7 mmol/L). In pregnant women, fasting blood glucose should be less than 0.92 g/L (5.1 mmol/L) (reference: WHO).

Glycated hemoglobin (HbA1c)

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

6,10 % ✓
43,00 mmol/mol (20 - 42)

6,20 13.03.24
44,00 13.03.24



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

7,19 mmol/L (< 5,18)
2,78 g/L (< 2,00)

7,36 13.03.24
2,85 13.03.24

► **HDL Cholesterol**

1,42 mmol/L (0,77 - 2,19) 0,98 13.03.24
0,55 g/L (0,30 - 0,85) 0,38 13.03.24

Cardiovascular risk score (Atherogenic index)

5,06 7,51 13.03.24

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)

4,34 mmol/L (< 4,14) 13.03.24
1,68 g/L (< 1,61) 13.03.24

► **Triglycerides**

3,15 mmol/L (< 1,71) 5,70 13.03.24
2,76 g/L (< 1,50) 4,99 13.03.24

Conclusion:
Mixed dyslipidemia.

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

2,31 mmol/L (2,15 - 2,57)
92,6 mg/L (86,2 - 103,1)

Phosphorus
(Plasma, Colorimetry, Pentra C400, HORIBA)

1,20 mmol/L (0,87 - 1,45)
37 mg/L (27 - 45)

► **Uric Acid**
(Plasma, Colorimetry, Pentra C400, HORIBA)

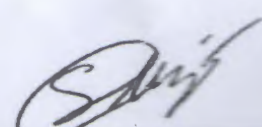
411 µmol/L (155 - 357) 442 13.03.24
69 mg/L (26 - 60) 74 13.03.24

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

76 µmol/L (53 - 106) 68 13.03.24
8,6 mg/L (5,9 - 12,0) 7,7 13.03.24

Glomerular filtration rate (GFR) (Creatinine clearance)

69,9 mL/min/1,73m² 79,8 13.03.24



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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	5,85 mmol/L	(3,50 - 7,20)	4,75	13.03.24
	0,35 g/L	(0,21 - 0,43)	0,29	13.03.24

Blood Urea Nitrogen (BUN)

(Calculated)

16,4 mg/dl	(9,8 - 20,2)	13,3	13.03.24
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ENZYMOLOGY

► **Gamma-Glutamyl Transferase (GGT)**

(Plasma, Colorimetry, Pentra C400, HORIBA)

Results	Reference range*	Antecedents
15 U/L	(< 39)	34 13.03.24

► **Aspartate Amino Transferase (SGOT)**

(Plasma, Colorimetry, Pentra C400, HORIBA)

22 U/L	(< 31)	22 13.03.24
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► **Alanine Amino Transferase (SGPT)**

(Plasma, Colorimetry, Pentra C400, HORIBA)

18 U/L	(< 35)	23 13.03.24
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VITAMINS

► **25-HYDROXY VITAMIN D**

(Serum, ECLIA, Elecsys e411, ROCHE)

Results	Reference range*	Antecedents
48,4 nmol/L	(50 - 125)	
19,4 µg/L	(20 - 50)	



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IMMUNOLOGY

Quantitative determination of Rheumatoid Factor (RF)

(Serum, Automatic agglutination, Pentra C400, HORIBA)

	Results	Reference range*	Antecedents
Result:	Negative		
Value:	13,0 IU/mL	(< 30)	3,80 13.03.24

HORMONOLOGY

► Free thyroxine (Free T4)

(Serum, ECLIA, Elecsys e411, ROCHE)

Results Reference range* Antecedents

15,4 pmol/L (11,9 - 21,6)

► TSH Ultrasensible

(Serum, ECLIA, Elecsys e411, ROCHE)

0,77 mU/L (0,27 - 4,20)

Note: Possible interference with thyroid hormone assay for patients taking high doses of biotin.

SEROLOGY

Quantitative determination of Anti-Streptolysin O (ASLO)

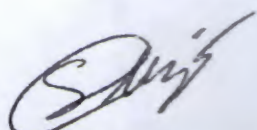
(Serum, Automatic agglutination, Pentra C400, HORIBA)

	Results	Reference range*	Antecedents
	24,5 IU/mL	(< 200)	15,2 13.03.24



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