

پزشک معالج : دکتر مهدی فلاح زوارکی	تاریخ پذیرش : ۱۴۰۴/۰۷/۱۶	شماره پذیرش : ۸۳۷۲۴
صفحه: ۱ از ۴	سن : ۲۳ سال	نام مراجعه کننده : آقای علی درویشوند
	کد ملی : ۴۳۱۱۵۷۸۷۹۲	

## Hematology

Test	Result	Unit	Method	Reference Interval
<b>C.B.C.</b>				
W.B.C	7.21	10 <sup>3</sup> /µL		3.5 - 10.5
R.B.C	H <b>5.97</b>	10 <sup>6</sup> /µL		4.3 - 5.7
HGB	H <b>17.7</b>	g/dL		13.5 - 17.5
HCT	50.3	%		38 - 51
M.C.V	84.3	fL		81 - 95
M.C.H	29.6	pg		26 - 33
M.C.H.C.	35.2	g/dL		31 - 36
PLATELETS	244	10 <sup>3</sup> /µL		145 - 420
RDW-CV	13.2	%		11.5 - 15.6
PDW	15.6	fL		9.4 - 18.1
MPV	7.6	fL		7.5 - 12.4
Microscopic diff %				
NEUTROPHILS	56.7	%		
LYMPHOCYTES	36.2	%		
MONOCYTES	4.8	%		
EOSINOPHILS	2.1	%		
BASOPHILS	0.2	%		
E.S.R. 1ST HRS	6	mm/h		<15

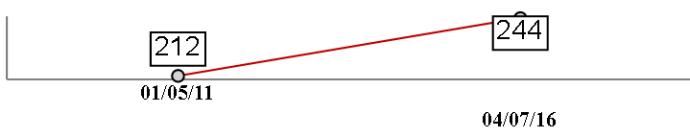
W.B.C



HGB



PLATELETS



E.S.R 1ST H



## Hemostasis

Test	Result	Unit	Method	Reference Interval
<b>PT</b>				
PATIENT TIME	12.5	Sec	Coagulometer	
I.N.R.	1	Ratio	Calculation	0.9 - 1.1 Standard intensity warfarin therapeutic range: 2.0-3.0 High intensity warfarin therapeutic range: 2.5-3.5
International sensitivity index (ISI) : 0.99				
P.T. ( CONTROL )	12.5			
P.T.T.	29	Sec	Photometric	25 - 40

Analyzed by Succeeder Full Automation Coagulometer.

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صفحة: ٢ از ٤

L.N.R.

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01/05/11

1

04/07/16

Serology

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Reference Interval</u>
CRP QUANTITATIVE	3.66	mg/L	Immunoturb.	Up to 5

## Blood Biochemistry

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Reference Interval</u>	
FBS	81	mg/dL	Hexokinase	Normal : <100 Impaired fasting glucose : 100 - 125 Diabetes mellitus : >= 126	
UREA	31	mg/dL	Enzymatic	19 - 44	
BUN	14.49	mg/dL	Calculation	8.9 - 20.5	
CREATININE	1.08	mg/dL	Colorimetric	0.7 - 1.2	
URIC ACID	7.4	mg/dL	Colorimetric	3.6 - 8.2	
CHOLESTEROL	159	mg/dL	Colorimetric	Desirable : <200 Borderline : 200-239 High : >240	
TRIGLYCERIDES	136	mg/dL	Colorimetric	Desirable : < 150 Borderline : 150-199 High : 200-499 Very high : >500	
HDL CHOLESTEROL	37	mg/dL	Colorimetric	Low : <40 High : >= 60	
LDL CHOLESTEROL ( DIRECT )	95	mg/dL	Colorimetric	Optimal : <100 Near Optimal : 100-129 Borderline High : 130-159 High : 160-189 Very high : >190	
CHOLESTEROL/HDL RATIO	4.3	Ratio	Calculation	See below	
Risk Factor	Men	Woman			
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Lowest	<3.8	<2.9			
Low	3.9-4.7	3.0-3.6			
Moderate	4.8-5.9	3.7-4.6			
High	6-6.9	4.7-5.6			
Highest	>= 7.0	>= 5.7			
VLDL	27	mg/dL	Calculation	3-60	
CA ( CALCIUM )	9.9	mg/dL	Colorimetric	8.8 - 10.3	
NA ( SODIUM )	139	mmol/L	ISE	135 - 145	
K ( POTASSIUM )	4.5	mmol/L	ISE	3.5 - 5	
FE ( IRON )	106	µg/dL	Colorimetric	22 - 184	
T.I.B.C.	H <b>416</b>	µg/dL	Calculation	250 - 400	
U.I.B.C.	310.5	µg/dL	Colorimetric	125 - 345	

Analyzed by Cobas 6000 and Roche diagnostic kits.

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### Liver Function Test

Test	Result	Unit	Method	Reference Interval
TOTAL BILIRUBIN	0.48	mg/dL	Colorimetric	0.1 - 1.2
Direct Bilirubin	0.19	mg/dL	Colorimetric	0 - 0.3
Indirect Bilirubin	0.29	mg/dL	Calculation	0.1 - 1
S.G.O.T. ( AST )	39	U/L	IFCC	<40
S.G.P.T. ( ALT )	H <b>71</b>	U/L	IFCC	<41
ALKALINE PHOSPHATASE	58	U/L	IFCC	40 - 130

Analyzed by Cobas 6000 and Roche diagnostic kits.

### Special Biochemistry

Test	Result	Unit	Method	Reference Interval
HEMOGLOBIN A1C	6.1	%	Electropho	Normal: =<5.6% Increased risk for diabetes: 5.7 - 6.4% Diabetic range: 6.5% or above Treatment goal: Adults:< 7.0% (<6years: <8.5% 6-12 years:<8.0% , 13-19 years: <7.5%)

Analyzed by capillary Electrophoresis method.

Hemoglobin A1C(%) Approximate mean plasma glucose (mg/dl)

4	65
5	100
6	135
7	170
8	205
9	240
10	275
11	310
12	345

Estimated Average Glucose 128.4 mg/dL Calcul

Note: Estimated average glucose(eAG) is calculated on HbA1c.

### Thyroid Function

Test	Result	Unit	Method	Reference Interval
TSH	2.270	$\mu$ IU/mL	ECL	21 - 49 year: 0.27 - 4.2 Biological & diurnal variance : up to 50% of mean value

The result is technically correct .If clinically not expected , it is required to repeat the test with a second sample.

T4	8.45	mcg/dL	ECL	5.1 - 14.1
T3	1.49	ng/mL	ECL	0.8 - 2

Analyzed by Cobas 6000 and Roche diagnostic kits.

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## Immunoassays-Endocrinology

Test	Result	Unit	Method	Reference Interval
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FERRITIN	208.0	ng/mL	ECL	30 - 400
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\*If the person has infection or inflammation Iron Deficiency is diagnosed by:

Ferritin &lt; 30 ng/mL (under 5 years) / Ferritin &lt; 70 ng/mL (5+ years)

\*Risk of Iron Overload in Non-healthy Individuals (any gender): Ferritin &gt; 500 ng/mL

*Analyzed by Cobas E-411 and Roche diagnostic kits.*

## Vitamin

Test	Result	Unit	Method	Reference Interval
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VITAMIN B12	240	pg/mL	ECL	197 - 771
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25-OH-VITAMIN D	35.9	ng/mL	ECL	Deficiency : <20 Insufficiency : 20 - 29 Sufficiency (Optimal level) : 29-70 Possible side effects : >70
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## Urine Analysis

### URINE ANALYSIS

Macroscopic		Microscopic	
COLOR	Yellow	W.B.C.	0-2
APPEARANCE	Clear	R.B.C.	0-2
SPECIFIC GRAVITY	1.020	EPITHELIAL CELLS	0-2
PH	6	BACTERIA	Rare
NITRITE	Negative	MUCUS	Negative
PROTEIN	Negative	CASTS	Negative
GLUCOSE	Negative	CRYSTALS	Negative
KETONE	Negative		
ACID ASCORBIC	Negative		
BILIRUBIN	Negative		
UROBILINOGEN	Normal		
BLOOD/HGB	Negative		

*Ascorbic acid may cause false negative result and reduce the quality of some test, including blood, bilirubin, nitrite and glucose in the urine.*

## Bacteriology

### URINE ( CULTURE & SENSITIVITY )

CULTURE No growth after 24 hrs.

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