



**Name** : LIEW CHIN MEI  
**Malaysia New IC** : 900128105682  
**DOB** : 28.01.1990  
**Age/Gender** : 35 y 2 m 6 d / Female

**Lab No** : RLL25108299  
**MRN** : PIL240119480  
**Location** : GP Clinic  
**Reference** :

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**Page No** : 1 / 6

**Requester** : DR KENNY ANG  
 KLINIK KINRARA  
 26, JALAN HELANG 15, BANDAR PUCHONG JAYA, 47100

TEST	RESULT	FLAG	UNIT	REFERENCE RANGE
<b>HAEMATOLOGY</b>				
<b>Full Blood Count</b>				
<b>Haemoglobin</b>	血红蛋白	13.7	g/dL	( 12.0 - 16.0 )
<b>Red Blood Cell</b>	红细胞	4.59	$\times 10^{12}/L$	( 3.90 - 5.60 )
<b>Red Cell Distribution Width</b>	红细胞分布宽度	12.3	%	( <15.1 )
<b>Packed Cell Volume</b>	红细胞压积	42	%	( 35 - 47 )
<b>Mean Cell Volume</b>	平均细胞体积	91	fL	( 76 - 96 )
<b>Mean Cell Haemoglobin</b>	平均细胞血红蛋白	30	pg	( 28 - 34 )
<b>Mean Corpuscular Hb Concentration</b>	平均红细胞血红蛋白浓度	33	g/dL	( 30 - 36 )
<b>White Blood Cell</b>	白血细胞	5.8	$\times 10^9/L$	( 4.0 - 11.0 )
<b>Differential Count</b>				
<b>Neutrophils (%)</b>	中性粒细胞	50.4	%	( 40.0 - 75.0 )
<b>Lymphocytes (%)</b>	淋巴细胞	34.2	%	( 20.0 - 45.0 )
<b>Monocytes (%)</b>	单核细胞	6.6	%	( 2.0 - 10.0 )
<b>Eosinophils (%)</b>	嗜酸性粒细胞	7.8	%	( 0.0 - 4.0 )
<b>Basophils (%)</b>	嗜碱性粒细胞	1.0	%	( 0.0 - 1.0 )
<b>Absolute values</b>				
<b>Neutrophils (#)</b>	中性粒细胞	2.9	$\times 10^9/L$	( 2.0 - 7.5 )
<b>Lymphocytes (#)</b>	淋巴细胞	2.0	$\times 10^9/L$	( 1.5 - 4.5 )
<b>Monocytes (#)</b>	单核细胞	0.4	$\times 10^9/L$	( 0.2 - 0.8 )
<b>Eosinophils (#)</b>	嗜酸性粒细胞	0.45	$\times 10^9/L$	( 0.04 - 0.40 )
<b>Basophils (#)</b>	嗜碱性粒细胞	0.1	$\times 10^9/L$	
<b>Platelet</b>	血小板	349	$\times 10^9/L$	( 150 - 400 )

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TEST	RESULT	FLAG	UNIT	REFERENCE RANGE
<b>BIOCHEMISTRY</b>				
<b>Liver Function Test</b>				
Total Protein	蛋白质总计	86	*	g/L (64 - 85)
Albumin	白蛋白	42		g/L (34 - 50)
Globulin	血球蛋白	44	*	g/L (20 - 39)
Albumin-Globulin Ratio	白蛋白/球蛋白比例	0.95		
Alkaline Phosphatase	硷性磷酸酶	44		U/L (38 - 124)
Aspartate Transaminase	草乙麸氨转酶	19		U/L (<34)
Alanine Transaminase	丙胺酸转胺酶	12		U/L (10 - 49)
Gamma-Glutamyl Transferase	谷氨酸转移酶	13		U/L (4 - 47)
Bilirubin, Total	胆红素总计	12.4		umol/L (<22)
Fibrosis Score, FIB4	肝纤维化评分	0.55		
FIB4 Comment	To monitor every 2-3 years			

Risk for advance fibrosis  
 <1.33 Low risk  
 1.33-2.66 Intermediate risk  
 >2.66 High risk

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 Version 1.08 1<sup>st</sup> March 2025



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TEST	RESULT	FLAG	UNIT	REFERENCE RANGE
<b>Renal Function Profile</b>				
Sodium	钠质	138	mmol/L	( 135 - 145 )
Potassium	钾质	4.1	mmol/L	( 3.5 - 5.1 )
Chloride	氯化物	101	mmol/L	( 98 - 109 )
Urea Nitrogen	尿素	3.2	mmol/L	( 2.5 - 6.4 )
Creatinine	肌氨酸酐	67	umol/L	( 49 - 90 )
Estimated - GFR ( CKD-EPI )	估计肾小球过滤率	>90	ml/min/1.73m2	( >90 )
Uric Acid	尿酸	0.31	mmol/L	( 0.18 - 0.46 )
Glucose	血糖	4.6	mmol/L	( 3.9 - 6.0 )

Interpretation:


Category	Plasma Glucose (mmol/L)	
	Fasting	Random
Normal	3.9 - 6.0	3.9 - 7.7
IFG (Prediabetes)	6.1 - 6.9	
Indeterminate		7.8 - 11.0
Diabetes Mellitus	>=7.0	>=11.1

IFG: Impaired fasting glucose;  
 Recommend Oral Glucose Tolerance Test (OGTT) for fasting plasma glucose levels 6.1 - 6.9 mmol/L or random plasma glucose levels 7.8 - 11.0 mmol/L.

Source: 2020 Clinical Practice Guidelines for the Management of Type 2 Diabetes Mellitus (6th Edition). Kuala Lumpur: Joint Publication of the Ministry of Health Malaysia, Academy of Medicine Malaysia, Malaysian Endocrine & Metabolic Society and Diabetes Malaysia.

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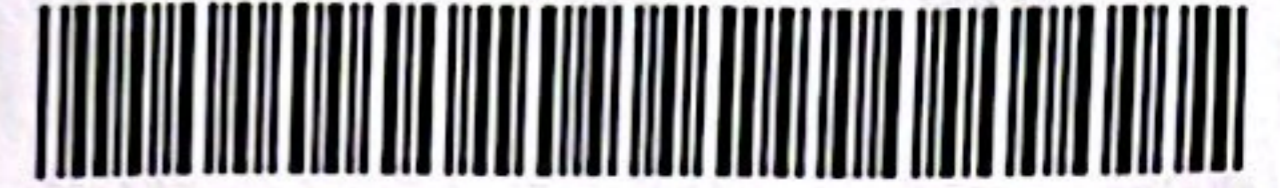
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TEST	RESULT	FLAG	UNIT	REFERENCE RANGE
<b>Glycated Haemoglobin (HbA1c)</b>				
HbA1c, NGSP unit	血红蛋白 A1c, NGSP单位	5.0	%	(<5.7)
HbA1c, SI unit	血红蛋白 A1c, SI单位	31	mmol/mol	

(Method: Ion exchange HPLC)

Diagnostic Values of HbA1c in Malaysian Adults

HbA1c (NGSP)	HbA1c (IFCC)	
%	mmol/mol	
< 5.7	< 39	Normal
5.7-6.2	39-44	*Prediabetes (IFG or IGT)
≥ 6.3	≥ 45	T2DM

IFG: Impaired fasting glucose; IGT: Impaired Glucose Tolerance;  
 OGTT: Oral Glucose Tolerance Test; T2DM: Type 2 Diabetes Mellitus

\*Recommend OGTT for HbA1c levels 5.7-6.2%.

Individualised HbA1c Target for Known Diabetes

HbA1c (NGSP)	HbA1c (IFCC)	
%	mmol/mol	
≤ 6.5	≤ 48	A: Tight target range for young, newly diagnosed diabetes without hypoglycaemia.
6.6-7.0	49-53	B: Target range for all other individuals not in category A or C.
7.1-8.0	54-64	C: Target range for diabetes and comorbidities, short life expectancy and/or prone to hypoglycaemia.

Source: 2020 Clinical Practice Guidelines for the Management of Type 2 Diabetes Mellitus (6th Edition). Kuala Lumpur: Joint Publication of the Ministry of Health Malaysia, Academy of Medicine Malaysia, Malaysian Endocrine & Metabolic Society and Diabetes Malaysia.

Calcium	钙质	2.41	mmol/L	(2.18 - 2.60)
Adjusted Calcium	调整钙	2.37	mmol/L	(2.18 - 2.60)
Phosphate	磷酸盐	1.03	mmol/L	(0.80 - 1.60)

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TEST	RESULT	FLAG	UNIT	REFERENCE RANGE
<b>Lipid Profile</b>				
Cholesterol, Total	总胆固醇	5.6	*	mmol/L (<5.2)
Cholesterol, HDL	高密度脂蛋白胆固醇	1.9		mmol/L (>1.3)
Cholesterol, Non-HDL	非高密度脂蛋白胆固醇	3.7	*	mmol/L (<3.4)
Cholesterol, LDL	低密度脂蛋白胆固醇	3.3	*	mmol/L (<2.6)
Triglycerides	三酸甘油酯	1.1		mmol/L (<1.7 - fasting) (<2.0 - non-fasting)
Cholesterol/HDL Ratio	胆固醇/高脂比率	2.9		(<3.5)

### FEME

#### Urine FEME

Appearance	尿液外观	Clear		
Urine pH	酸硷度	7.0		(5.0 - 8.0)
Urine Specific Gravity	尿液比重	1.002	*	(1.005 - 1.030)
Urine Nitrite	亚硝酸盐	Negative		
Urine Protein	尿蛋白	Negative		
Urine Glucose	尿糖	Negative		
Urine Ketone	尿酮体	Negative		
Urine Urobilinogen	尿胆素原	3.2		umol/L (<16)
Urine Bilirubin	尿胆红素	Negative		
Urine Blood	尿血	Negative		
Urine Leucocytes	尿白细胞	Negative		

#### Microscopic Examination

Red Blood Cell	红细胞	<4		/uL (<4)
White Blood Cell	白细胞	<3		/uL (<7)
Non Squamous Epithelial Cell	非鳞状型上皮细胞	Nil		
Squamous Epithelial Cell	鳞状型上皮细胞	Nil		
Hyaline Casts	透明管型	Nil		
Pathological Casts	病理性管型	Nil		
Crystals	晶状体	Nil		
Bacteria	细菌	Nil		
Mucus	粘液	Nil		

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