



PATHOLOGY REPORT

B. P. CLINICAL LAB SDN. BHD. (152314-H)



Patient Name : **JONG CHEE MING**
 Identification : 840419-13-5839 Age / Gender : **38 year - Male**
 Date of Birth : 19/04/1984 Nationality : *Malaysian*
 Client Name : *Walk-in - WALK-IN - Walk-in*
 Doctor's Name : *Dr Tai Ket Yan*
 Panel Clinic : *Dr Tai Ket Yan*

Receiving Branch : *DC Kota Kinabalu*
 Barcode : **D542389961 (EC6072982)**
 Refer/Policy No :
 Specimen : *Fasting*
 Collected : *05/12/2022 03:13 PM*
 Received : *08/12/2022 06:44 AM*
 Report ready : *09/12/2022 10:14 AM*

TEST NAME	RESULT	FLAG	UNIT	REFERENCE	METHOD
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CAMPAIGN PROFILE (CAMPGZ)

FULL BLOOD PICTURE

Total RBC (红血球计数)	4.76		x10 ⁶ /uL	4.50 - 6.00	Impedance
Haemoglobin (Hb) (血红素)	143		g/L	130 - 175	Colorimetric
Haematocrit (PCV) (血球比容量)	0.44		L	0.40 - 0.50	
MCV	92		fl	82 - 98	
MCH (平均红血球血色蛋白)	30		pg	27 - 33	
MCHC (平均红血球血色蛋白浓度)	330		g/L	320 - 350	
RDW (红血球体积分布宽度)	11.6		%	11.6 - 14.0	
Total WBC (白血球计数)	5.60		x10 ⁹ /L	4.08 - 11.37	Impedance

DIFFERENTIAL COUNT (白血球分类)

Neutrophils % (嗜中性球)	45		%	40-80	
Lymphocytes % (淋巴球)	47	H	%	20-40	
Monocytes % (单核球)	5		%	≤10	
Eosinophils % (嗜伊红球)	3		%	≤6	
Basophils % (嗜碱性球)	0		%	≤2	
Platelet count (血小板计数)	303		x10 ⁹ /L	150 - 410	Impedance

ABSOLUTE COUNT

Neutrophils (嗜中性球)	2.5		x10 ⁹ /L	2.0 - 7.0
Lymphocytes (淋巴球)	2.6		x10 ⁹ /L	1.0 - 4.8
Monocytes (单核球)	0.3		x10 ⁹ /L	0 - 1.0
Eosinophils (嗜伊红球)	0.2		x10 ⁹ /L	0 - 0.8
Basophils (嗜碱性球)	0.0		x10 ⁹ /L	0 - 0.1



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FILM (血液塗片)					
RBC:	Normochromic normocytic.				
WBC:	Morphologically normal.				
Platelet:	Adequate				
Reported by:	Sit Ying Mei [BSC Biochemistry]				
Note:	The haematology adult and paediatric reference range has been updated on 27th January 2022.				
ESR (紅血球沉降率)	20	H	mm/hr	0-16	

Validated By : SIT YING MEI - BP CLINICAL LAB SDN BHD (GLENMARIE)

RENAL PROFILE

Sodium (鈉)	138		mmol/L	135-145	Indirect ISE
Potassium (鉀)	4.3		mmol/L	3.5-5.1	Indirect ISE
Chloride (氯)	101		mmol/L	98 - 107	Indirect ISE
Urea (尿素)	2.4	L	mmol/L	3.2-7.4	Urease
Creatinine (肌酸肝)	75.1		umol/L	63.6 - 110.5	Kinetic Alkaline Picrate
eGFR (2009 CKD-EPI) (腎小球 濾清率估計)	111		mL/min/1.73m ²	≥ 90	Calculated

Stages of Chronic Kidney Disease (CKD)

Stage	GFR (mL/min/1.73m ²)	Description
1	≥90	Normal or increased GFR with other evidence of kidney damage
2	60 - 89	Mild decrease in GFR with other evidence of kidney damage
3A	45 - 59	Mild-moderate decrease in GFR with or without other evidence of kidney damage
3B	30 - 44	Moderate-severe decrease in GFR with or without other evidence of kidney damage
4	15 - 29	Severe decrease in GFR with or without other evidence of kidney damage
5	<15	Established renal failure



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Calcium, Total (鈣)	2.33		mmol/L	2.10 - 2.55	Arsenazo III
Phosphate (血清磷濃度)	1.23		mmol/L	0.74 - 1.52	Phosphomolybdate
Uric Acid (尿酸)	0.34		mmol/L	0.21-0.42	Uricase

LIVER PROFILE

Total Protein (總蛋白量)	77		g/L	64-83	Biuret
Albumin (白蛋白)	48		g/L	35 - 52	Bromocresol Green
Globulin (球蛋白)	29		g/L	21-40	Calculated
A/G Ratio (白蛋白球蛋白比率)	1.7			1.0-2.2	Calculated
Bilirubin, Total (膽紅素)	20.7	H	umol/L	3.4 - 20.5	Diazonium Salt
ALT/SGPT (麩胺酸 - 草乙)	15		U/L	0 - 55	Enzymatic without P-5'-P
AST/SGOT (麩胺酸 - 丙酮)	18		U/L	5 - 34	Enzymatic without P-5'-P
ALP (鹼性磷酸)	64		U/L	40 - 150	pNPP
Gamma GT (Gamma-麩胺醯轉 24 移)			U/L	12 - 64	γ-GCNA Substrate

LIPID PROFILE

Total Cholesterol (總膽固醇)	6.37	H	mmol/L	Desirable < 5.20 Borderline high 5.20 - 6.19 High ≥ 6.20	Enzymatic
Triglycerides (三酸甘油脂)	0.81		mmol/L	<1.70	GPO
HDL (良好高脂膽固醇)	2.33		mmol/L	Major risk < 1.00 Negative risk > 1.55	Accelerator Selective Detergent
LDL (不良低脂膽固醇)	3.69		mmol/L	Optimal < 2.60 Near optimal 2.60 -3.34 Borderline 3.35 - 4.14 High 4.15 - 4.89 Very high ≥4.90	Calculated



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Non-HDL (非高脂膽固醇)	4.04		mmol/L	Optimal <3.35 Near optimal 3.35 - 4.14 Borderline 4.14-4.89 High 4.90-5.69 Very high ≥ 5.70	Calculated
Total Chol/HDL (總膽固醇/高脂膽固醇)	2.7			< 4.5	Calculated

Disclaimer

Ranges are adapted from NCEP ATP III Guidelines. LDL and Non-HDL should be interpreted in the context of one's cardiovascular risk(s).

HBA1C (糖化血紅蛋白)

HbA1c (NGSP)	4.7		%	Normal: < 5.7 Pre-diabetes: 5.7 - 6.2 Diabetes: ≥ 6.3	Enzymatic
HbA1c (IFCC)	28		mmol/mol	Normal: < 39 Pre-diabetes: 39 - 44 Diabetes: ≥ 45 (Management of T2DM CPG, 6th Ed.)	Calculated
Glucose (Plasma) (血糖)	4.9		mmol/L	Fasting: < 6.1 Random: < 7.8	Hexokinase
TSH (甲狀腺刺激素)	1.70		mIU/L	0.35 - 4.94	CMIA
Free T4 (游離甲狀腺素)	12.61		pmol/L	9.01-19.05	CMIA
25-OH Vitamin D	75		nmol/L	Deficient < 50 Insufficient 50 - 74 Sufficient 75 - 250 Possible Toxicity > 250 (Endocrine Society CPG)	CMIA



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Total PSA (前列腺特异性抗原)	0.89		ug/L	< 4.0	CMIA
AFP (肝胎蛋白質)	1.23		IU/mL	≤ 12.45	CMIA
Rheumatoid Factor (風濕性關節炎因子)	< 20.0		IU/mL	<30.0	Immunoturbidimetric

Validated By : NUR HIDAYAH BINTI ZAINUDIN - BP CLINICAL LAB SDN BHD (GLENMARIE)

HEPATITIS B SCREENING

HBsAg (乙型肝炎表面抗原)	Non-Reactive			CMIA
Anti-HBs (乙型肝炎表面抗體)	< 3.00		mIU/mL	≥ 10.00
Hepatitis A IgG (甲型肝炎表面抗体)	Non-Reactive			CMIA
RPR (梅毒檢查)	Non-Reactive			Flocculation

Validated By : NUR HIDAYAH BINTI ZAINUDIN - BP CLINICAL LAB SDN BHD (GLENMARIE)

URINE FEME

Transparency (透明度)	Clear	Clear - Slightly Cloudy
Colour (顏色)	Straw	Pale Yellow to Amber
Specific Gravity (比重)	1.015	1.005 - 1.030
pH (酸鹼反應)	6.5	5.0 - 8.5
Leucocytes (白细胞)	Negative	Negative
Nitrite (亚硝酸盐)	Negative	Negative
Protein (蛋白)	Negative	Negative
Glucose	Negative	Negative
Blood (血)	Negative	Negative
Ketone (酮體)	Negative	Negative
Urobilinogen (尿胆原)	Negative	Negative



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Bilirubin (胆红素)	Negative			Negative	
RBC (紅血球)	Nil		/HPF	0-3	
Pus Cells (白血球)	Nil		/HPF	0 - 5	
Bacteria (細菌)	Nil		/HPF	Few/Occasional	
Epithelia (上皮細胞)	Nil		/HPF	0 - 5	
Casts (圓柱體)	Nil		/LPF	0 - 1	
Others	Nil				

Validated By : EFRONE BIN ANDUDUR - BP CLINICAL LAB (KOTA KINABALU)

Final Report Verified By : NORLINI BINTI JAMAIN - BP CLINICAL LAB (KOTA KINABALU)

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Disclaimer: The above reference ranges are based on a adult population unless otherwise stated. [^] indicates age-specific paediatric reference range.

For diagnostic purposes, all laboratory test results should be used in conjunction with clinical evidence.

For further confirmation, please repeat test with another fresh specimen, if desired.

Should you have further enquiries, please contact your nearest BP branch or mail us at bphq@bphealthcare.com

BP Healthcare Group @ Glenmarie, Temasya @ Glenmarie, Jalan Pendaftar U1/54, Section U1, Shah Alam, Selangor, Malaysia