



**Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology**

醫院管理局-屯門醫院臨床病理學部

**ADDRESS** : Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, Tuen Mun, New Territories, Hong Kong  
**地址** 香港新界屯門青松觀路 23 號病理學大樓

**ENQUIRY** : Mr Benedict CHAN Yin-leung  
**查詢** 陳賢良先生

**TELEPHONE** : 2468 5307  
**電話**

**FAX** : 2463 2565  
**傳真**

**E-MAIL** : [chanylb@ha.org.hk](mailto:chanylb@ha.org.hk)  
**電郵**

**WEBSITE ADDRESS** : <http://ntwc.home/pi/>  
**網址**

**CLIENTELE** : Public and private hospitals and clinics  
**服務對象** 公營及私營醫院和診所

# Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology

醫院管理局-屯門醫院臨床病理學部

## ADDRESS

地址

### Main Facility

Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, Tuen Mun, New Territories, Hong Kong

香港新界屯門青松觀路23號屯門醫院病理學大樓

- (i) Anatomical & Cellular Pathology Laboratory: 1/F, Pathology Block
- (ii) Chemical Pathology Laboratory: G/F, Main Block and 1/F, Pathology Block
- (iii) Haematology & Serology Laboratory and Blood Bank: G/F, Pathology Block
- (iv) Microbiology Laboratory: 2/F, Pathology Block
- (v) Molecular Biology Laboratory: 2/F, Pathology Block
- (vi) Mortuary, G/F, Main Block

### Branch Facility 1

Department of Clinical Pathology, 2/F, Pok Oi Hospital, Au Tau, Yuen Long, New Territories, Hong Kong

香港新界元朗凹頭博愛醫院二樓臨床病理學部

- (i) Anatomical & Cellular Pathology Laboratory
- (ii) Core Laboratory

### Branch Facility 2

Department of Clinical Pathology 9/F, Tin Shui Wai Hospital, 11 Tin Tan Street, Tin Shui Wai, New Territories, Hong Kong

香港新界天水圍天壇街11號天水圍醫院九樓病理學部

- (i) Core Laboratory

## LABORATORY DIRECTOR

化驗所主管

: **Pathologist Director 病理學主管:**

Dr MAK Siu-ming

麥兆銘醫生

MBChB(HK), FHKCPath, FHKAM(Pathology), FRCPA

## PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE

負責認可範疇的病理學專科醫生

: Anatomical Pathology 解剖病理學

Dr MAK Siu-ming 麥兆銘醫生 (Full-time 全職)

Clinical Microbiology and Infection 臨床微生物學及傳染病

Dr QUE Tak-lun 郭德麟醫生 (Full-time 全職)

Haematology 血液學

Dr YIP Sze-fai 葉仕輝醫生 (Full-time 全職)

## ACCREDITED TEST CATEGORY

認可測試類別

: **Medical Testing 醫務化驗**

Anatomical Pathology

解剖病理學

Chemical Pathology

化學病理學

Clinical Microbiology and Infection

臨床微生物學及傳染病

Haematology

血液學

Immunology

免疫學

Medical Genetics (Molecular Genetics)

醫學遺傳學(分子遺傳學)

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Mortuary: G/F, Main Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, Tuen Mun, N.T., H.K.

香港新界屯門青松觀路 23 號屯門醫院主座地下

MEDICAL TESTING			
DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	Autopsy Adult, fetal and perinatal autopsy	Autopsy examination by Routine and special staining	Autopsy method and specimen preparation & handling: Routine and special staining as in Histopathology Haematoxylin & Eosin stain: LPTA1617 Special staining: LPTA1601 to LPTA1650

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Anatomical & Cellular Pathology Laboratory: 1/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.  
香港新界青松觀路 23 號屯門醫院病理學大樓一樓

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Anatomical Pathology	<b>Cytopathology</b> Fine Needle Aspirates	Fine Needle Aspiration cytology examination by H&E, Papanicolaou and special staining	Specimen preparation: LPTA6603 Haematoxylin and Eosin stain: LPTA5602 Papanicolaou stain: LPTA5603 Giemsa stain: LPTA5604 Special staining (manual): Method as documented in LPTA1601, LPTA1631, LPTA1639, LPTA1646 and LPTA5606 Acid Fast Bacilli by Ziehl Neelsen Acid Mucin by Alcian Blue Fungi by Grocott's Methenamine Silver Mucins by Southgate's Mucicarmine Periodate Reactive Carbohydrates by Periodic Acid Schiff
	<b>Histopathology</b> Surgical pathology	Surgical cutting for histology	Specimen reception, transportation, accession and grossing: LPTA1101, LPTA1102, LPTA1106, LPTA0106
	Intra-operative Frozen Section for fresh surgical specimens	Histology examination by H&E staining	Specimen preparation and routine staining: Method as documented in LPTA1801
	Fresh tissue specimens and biopsies	Histology examination and enzyme- histochemistry by H&E and special staining	Specimen preparation and H&E staining (manual): LPTA3105 Special staining (manual) for muscle: LPTA1604 LPTA1612, LPTA1625, LPTA1627, LPTA1628, LPTA1630, LPTA1638, LPTA1648, LPTA1650  Activated Macrophages by Non-Specific Esterase Lipids by Oil Red O Periodate Reactive Carbohydrates by PAS Mitochondria by COX/ Succinate Dehydrogenase Mitochondria by Cytochrome Oxidase Mitochondria by NADH-TR Mitochondria by Succinate Dehydrogenase (SDH) Muscle Fibres by Gormori's Trichrome Type I & II Muscle Fibres by ATPase, pH4.3,4.6& 9.4

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 香港新界青松觀路 23 號屯門醫院病理學大樓一樓

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Anatomical Pathology (cont'd)	Immunohistochemistry Renal and skin biopsies	Immunofluorescence examination by Manual method	Direct Immunofluorescence examination for renal and skin: LPTA3108 and LPTA3109 IgA/IgM/IgG/C1q/Complement 3/Fibrinogen/Kappa/Lambda

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Anatomical & Cellular Pathology Laboratory: 2/F, Pok Oi Hospital, Au Tau, Yuen Long, N.T., H.K.

香港新界元朗凹頭博愛醫院二樓病理學部

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Anatomical Pathology	<b>Cytopathology</b> Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Specimen preparation (both automation and manual): LPTA5402, LPTA5406 Conventional smears with Papanicolaou stain: LPTA5603 ThinPrep smears with Papanicolaou stain: LPTA5611
	Non-gynaecological specimens	Non-gynaecological cytology examination by H&E, Papanicolaou and special staining	Specimen preparation: LPTA5403 to 5405; LPTA 5501 to 5505 Routine staining (both automation and manual): Method as documented in LPTA5601 to 5604 and LPTA 5611 Haematoxylin and Eosin stain Papanicolaou stain Giemsa stain Special staining (manual): Method as documented in LPTA1639, LPTA5606, LPTA5607 and LPTA5608  Fat-laden Macrophages by Oil Red O Fungi, Pneumocystis carinii by Grocott's Methenamine Silver Haemosiderin by Perls' Prussian Blue Mucin, Capsule of <i>Cryptococcus neoformans</i> by Southgate's Mucicarmine
	<b>Histopathology</b> Surgical pathology	Histology examination by H&E, special staining	Specimen reception, accession and preparation: LPTA1101, LPTA1102, LPTA1104, LPTA1105, LPTA 1201, LPTA 1301 and LPTA1401 Routine H&E Staining: LPTA1502, LPTA1503  Tissue sections stained with special stains as documented in: LPTA1601-1650 Acid Mucin by Alcian blue Acid Fast Bacilli by Ziehl-Neelsen (Kinyuons) Acid and Neutral Mucin by Alcian Blue-PAS Activated Macrophages by Non-Specific Esterase Amyloid by Congo Red Amyloid by Crystal Violet Argentaffin Granules by Masson Fontana

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Anatomical Pathology (cont'd)	Histopathology (cont'd) Surgical pathology (cont'd)	Histology examination by H&E, special staining (cont'd)	Argyrophil Cells by Grimelius Silver Axons by Bodian Azurophilic Granules and Granulocytes by Giemsa Basement Membrane by PASM Calcium by von Kossa Collagen and Muscle by Masson's Trichrome Copper by Rhodamine Stain Copper by Rubeanic Acid Elastic Fibres by Elastic van Gieson Fibrin by MSB Fungi by Grocott's Hexamine Silver Ganglions and Nerve Plexus by Acetylcholine Esterase General Histology by Haematoxylin and Eosin Gram Positive Micro-organisms by Gram Haemosiderin by Perls' Prussian Blue HBsAg by Orcein Hyaluronic Acid by Hyaluronidase-Alcian-Blue Lipids by Sudan Black B Lipids by Oil Red O Lipofuscins by Long Ziehl-Neelsen Mast Cells by Chloro-Acetate Esterase Melanin Pigments by Schmorl's Mitochondria by COX/ Succinate Dehydrogenase Mitochondria by Cytochrome Oxidase Mitochondria by NADH-TR Mitochondria by Succinate Dehydrogenase (SDH) Mucins by Colloidal iron Mucins by Southgate's Mucicarmine Mucins by Toluidine blue Muscle Fibres by Gormori's Trichrome Myelin by Luxol Fast Blue Myocardial Infarct by Nitro Blue Tetrazolium Mycobacteria ( <i>M. leprae</i> ) by Wade-Fite

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Anatomical Pathology (cont'd)	Histopathology (cont'd)  Surgical pathology (cont'd)	Histology examination by H&E, special staining (cont'd)	Nerve Fibres, Neurofibrillary Tangles, Neurotic Plaques by Bielchowsky's Silver Neuroglia, Muscle Striation by PTAH Periodate Reactive Carbohydrates by PAS Periodate Reactive Carbohydrates With Amylase Digestion by PASD Reticulin by Gordon & Sweet's Silver Spirochaetes & Helicobacter by Warthin & Starry Silver Type I & II Muscle Fibres by ATPase, pH4.3, 4.6 & 9.4 Urate Crystals by Methenamine Silver for Urate
	Intra-operative Frozen Section for fresh surgical specimens	Histology examination by H&E staining	Specimen preparation and routine staining: Method as documented in LPTA1801
	Immunohistochemistry Histological specimens	Immunohistochemical examination for various antigen markers by Automated method	Automated immunohistochemical staining for various immune-markers as documented in LPTA2107 – LPTA2111 Equipment: 1. Roche Ventana BenchMark ULTRA 2. Leica Bond III 3. Dako Omnis



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Chemical Pathology Laboratory: G/F, Main Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.

香港新界青松觀路 23 號屯門醫院主座大樓地下

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Chemical Pathology	<b>Blood gases and Co-oximetry</b>		
	Heparinized whole blood	Blood Gas include: - pCO <sub>2</sub> by Potentiometry (pCO <sub>2</sub> -Sensing Electrode) - pH by Potentiometry (Ion-Selective Electrode) - pO <sub>2</sub> by Polarography (Oxygen-Sensing Amperometric Electrode)	Siemens RapidLab 1265 system Siemens RapidLab 1265 system Siemens RapidLab 1265 system
		Carboxyhaemoglobin by Co-oximetry	Siemens RapidLab 1265 system
		Methaemoglobin by Co-oximetry	Siemens RapidLab 1265 system
	<b>General Chemistry</b>		
	Fluid, plasma	Alanine Aminotransferase (ALT) by Spectrophotometry	Abbott Alinity c system ALT assay
		Albumin by Spectrophotometry	Abbott Alinity c system Albumin assay
	Plasma	Albumin-Adjusted Calcium by Calculation, Spectrophotometry	Abbott Alinity c system Albumin and Calcium assay
		Alkaline Phosphatase (ALP) by Spectrophotometry	Abbott Alinity c system ALP assay
	Serum	Alkaline Phosphatase index by Spectrophotometry & heat treatment	Abbott Alinity c system ALP assay
	EDTA plasma	Ammonia by Spectrophotometry	Abbott Alinity c system Ammonia assay
	Fluid, plasma	Amylase by Spectrophotometry	Abbott Alinity c system Amylase assay

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香港新界青松觀路 23 號屯門醫院主座大樓地下

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Chemical Pathology (cont'd)	General Chemistry (cont'd)  Plasma	Anion Gap by Calculation	Calculated from plasma sodium, chloride and bicarbonate
		Aspartate Aminotransferase (AST) by Spectrophotometry	Abbott Alinity c system AST assay
		Bicarbonate by Spectrophotometry	Abbott Alinity c system Carbon Dioxide assay
		Bilirubin, Direct by Spectrophotometry	Abbot Alinity c system Direct Bilirubin assay
		Bilirubin, Indirect by Calculation	Calculated from Bilirubin Total and Bilirubin Direct
	Fluid, plasma	Bilirubin, Total by Spectrophotometry	Abbott Alinity c system Total Bilirubin assay
	Serum	Bilirubin, Neonate by Spectrophotometry	Unistat Bilirubinometer
	Fluid, plasma	Calcium by Spectrophotometry	Abbott Alinity c system Calcium assay
	Heparinized whole blood	Calcium, ionized by Potentiometry (Ion-Selective Electrode)	Siemens RapidLab 1265 system
	CSF, fluid, plasma	Chloride by Potentiometry (Ion-Selective Electrode)	Abbott Alinity c system Chloride assay
	Plasma	Cholesterol by Spectrophotometry	Abbott Alinity c system Cholesterol assay
		Cholesterol - high density lipoproteins (HDL) by Spectrophotometry	Abbott Alinity c system HDL Cholesterol assay

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Chemical Pathology (cont'd)	General Chemistry (cont'd)		
	Plasma	Cholesterol - low density lipoproteins (LDL) by Calculation	Calculated from cholesterol, HDL Cholesterol and Triglycerides
		Cholesterol – non-HDL (high density lipoprotein) by Calculation	Calculated from cholesterol and HDL Cholesterol
	Fluid, plasma	Creatine Kinase (CK) by Spectrophotometry	Abbott Alinity c system CK assay
		Creatinine by Spectrophotometry	Abbott Alinity c system Creatinine assay
	Plasma	Gamma Glutamyl Transpeptidase (GGT) by Spectrophotometry	Abbott Alinity c system GGT assay
		GFR, estimated by Calculation, Spectrophotometry	Abbott Alinity c system Creatinine assay
	CSF, fluid, plasma	Glucose by Spectrophotometry	Abbott Alinity c system Glucose assay
	Fluid, plasma	Globulin by Spectrophotometry Calculation	Calculated from total Protein and Albumin
		Inorganic phosphate by Spectrophotometry	Abbott Alinity c system Phosphorus
	Plasma	Iron by Spectrophotometry	Abbott Alinity c system Fe assay
	CSF, plasma	Lactate by Spectrophotometry	Abbott Alinity c system Lactate assay
	Fluid, plasma	Lactate dehydrogenase (LDH) by Spectrophotometry	Abbott Alinity c system LDH assay

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<b>Chemical Pathology</b> (cont'd)	<b>General Chemistry (cont'd)</b>		
	Serum	Magnesium by Spectrophotometry	Abbott Alinity c system Magnesium assay
	Fluid, serum, urine	Osmolality by Freezing point depression	ARKRAY Daiichi Osmometer
	Serum	Osmolality gap by Calculation	Calculated from plasma sodium, plasma glucose, serum osmolality and plasma urea
	Fluid, plasma	Potassium by Potentiometry (Ion-Selective Electrode)	Abbott Alinity c system Potassium assay
		Protein, Total by Spectrophotometry	Abbott Alinity c system Total Protein assay
	CSF	Protein, Total by Spectrophotometry	Abbott Alinity c system Urine/CSF Protein assay
	Fluid, plasma	Sodium by Potentiometry (Ion-Selective Electrode)	Abbott Alinity c system Sodium assay
	Plasma	Total iron binding capacity by Calculation	Calculated from plasma iron and UIBC
	Plasma, fluid	Triglycerides by Spectrophotometry	Abbott Alinity c system Triglycerides assay
	EDTA plasma	Troponin I by Immunoassay (Chemiluminescent label)	Abbott Alinity i system STAT Troponin I assay

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Chemical Pathology (cont'd)	General Chemistry (cont'd) Fluid, plasma	Urea by Spectrophotometry	Abbott Alinity c system Urea Nitrogen assay
		Uric acid by Spectrophotometry	Abbott Alinity c system Uric Acid assay
	Plasma	Unsaturated iron binding capacity by Spectrophotometry	Abbott Alinity c system UIBC assay
	Urine	Magnesium by Spectrophotometry	Abbott Alinity c system Magnesium assay
	Serum	Transtubular Potassium Gradient (TTKG) by Calculation	Calculated from sodium and potassium
		Renal tubular reabsorption of phosphate (TMP) by Calculation	Calculated from creatinine and phosphorus
	Proteins, quantitative analysis Serum	C-Reactive Protein by Immunoturbidimetry	Abbott Alinity c system CRP assay
	Special Chemistry Serum	Cholinesterase, Pseudo by Spectrophotometry	Abbott Alinity c system Pseudocholinesterase assay
	Plasma	D-3-Hydroxybutyrate by Spectrophotometry	Abbott Alinity c system D-3-Hydroxybutyrate assay

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<b>Chemical Pathology</b> (cont'd)	<b>Therapeutic Drug Monitoring</b>  Serum	Carbamazepine (Tegretol) by Immunoassay (Enzyme based Label)	Abbott Alinity c system Carbamazepine assay
		Digoxin by Immunoassay (Enzyme based Label)	Abbott Alinity c system Digoxin assay
		Lithium by Spectrophotometry	Abbott Alinity c system Lithium assay
		Methotrexate by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system Methotrexate assay
		Phenobarbital (Luminal) by Immunoassay (Enzyme based Label)	Abbott Alinity c system Phenobarbital assay
		Phenytoin (Dilantin) by Immunoassay (Enzyme based Label)	Abbott Alinity c system Phenytoin assay
		Tricyclic Antidepressants by Immunoassay (Enzyme based Label)	Abbott Alinity c system Tricyclic Antidepressants assay
		Theophylline by Immunoassay (Enzyme based Label)	Abbott Alinity c system Theophylline assay
		Valproic Acid (Eplim) by Immunoassay (Enzyme based Label)	Abbott Alinity c system Valproic Acid assay
	<b>Toxicology</b>  Serum	Acetaminophen by Spectrophotometry	Abbott Alinity c system Acetaminophen assay
		Ethanol by Spectrophotometry	Abbott Alinity c system Ethanol assay
		Salicylate by Spectrophotometry	Abbott Alinity c system Salicylate assay

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This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	<b>Tumour Markers</b>		
	Serum, CSF	AFP by - Immunoassay (Chemiluminescent Label)	Abbott Alinity i system Alpha-Fetoprotein assay
	Serum	CEA by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system Carcinoembryonic Antigen assay
		PSA by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system Prostate Specific Antigen assay

# Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology

醫院管理局-屯門醫院臨床病理學部

Chemical Pathology Laboratory: 1/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.

香港新界青松觀路 23 號屯門醫院病理學大樓一樓

MEDICAL TESTING			
DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology	<b>Drug of Abuse Testing</b>		
	Urine	Barbiturates by Immunoassay (Enzyme based Label)	Abbott Architect c8000 system MULTIGENT Barbiturates assay
		Cannabinoids by Immunoassay (Enzyme based Label)	Abbott Architect c8000 system MULTIGENT Cannabinoids assay
	<b>General Chemistry</b>		
	Urine	Albumin by Spectrophotometry	Abbott Alinity c system Albumin assay
		Amylase by Spectrophotometry	Abbott Alinity c system Amylase assay
		Calcium by Potentiometry (Ion-Selective Electrode)	Abbott Alinity c system Calcium assay
		Calcium / Creatinine ratio by Calculation	Calculated from Calcium and Creatinine assay
		Chloride by Potentiometry (Ion-Selective Electrode)	Abbott Alinity c system Chloride assay
		Creatinine by Spectrophotometry	Abbott Alinity c system Creatinine assay
		Creatinine clearance by Calculation	Calculated from Creatinine assay
		Inorganic phosphate by Spectrophotometry	Abbott Alinity c system Phosphorus assay
		pH by Potentiometry	Method as documented in LPTC2703



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<b>MEDICAL TESTING</b>			
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<b>This laboratory is accredited for performing the examinations listed in the scope below.</b>			
<b>Chemical Pathology</b> (cont'd)	<b>General Chemistry</b> (cont'd)  Urine (cont'd)	Protein / Creatinine ratio by Calculation	Calculated from Protein, Total and Creatinine assay
		Protein, Total by Spectrophotometry	Abbott Alinity c system Urine/CSF Protein assay
		Transtubular Potassium Gradient (TTKG) by Calculation	Calculated from sodium and potassium
		Renal tubular reabsorption of phosphate (TMP) by Calculation	Calculated from creatinine and phosphorus
		Sodium by Potentiometry (Ion-Selective Electrode)	Abbott Alinity c system Sodium assay
		Potassium by Potentiometry (Ion-Selective Electrode)	Abbott Alinity c system Potassium assay
		Urea by Spectrophotometry	Abbott Alinity c system Urea Nitrogen assay
		Uric acid by Spectrophotometry	Abbott Alinity c system Uric Acid assay

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Chemical Pathology (cont'd)	Hormones		
	EDTA plasma	Adrenocorticotrophic Hormone (ACTH) by Immunoassay (Chemiluminescent Label)	Siemens Immulite 2000 XPi ACTH assay
	Serum	Cortisol by Immunoassay (Chemiluminescent Label)	Abbott Architect i2000 system Cortisol assay
	Urine	Cortisol by Liquid chromatography-tandem mass spectrometry	Method as documented in LPTC4707 using AGILENT 6410 system
	Serum	Estradiol by Immunoassay (Chemiluminescent Label)	Abbott Architect i2000 system Estradiol assay
		Ferritin by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system Ferritin assay
		Follicle Stimulating Hormone by Immunoassay (Chemiluminescent Label)	Abbott Architect i2000 system FSH assay
		Free Triiodothyronine by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system FT3 assay
		Free Thyroxine by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system FT4 assay
		Growth Hormone by Immunoassay (Chemiluminescent Label)	Siemens Immulite 2000 XPi GH assay
	Serum, CSF	Human Chorionic Gonadotropin by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system HCG assay
	Serum	Luteinizing Hormone by Immunoassay (Chemiluminescent Label)	Abbott Architect i2000 system LH assay
		Prolactin by Immunoassay (Chemiluminescent Label)	Abbott Architect i2000 system Prolactin assay
		Progesterone by Immunoassay (Chemiluminescent Label)	Abbott Architect i2000 system Progesterone assay

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MEDICAL TESTING			
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This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	Hormones (cont'd)		
	Serum (cont'd)	Sensitive Thyroid Stimulating Hormone by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system TSH assay
		Testosterone by Immunoassay (Chemiluminescent Label)	Abbott Architect i2000 system Testosterone assay
	Inborn Errors of Metabolism		
	Stool	Glucose by Dipstick method	Roche Combur 10 Test Method as documented in LPTC2603
		Reducing substances by Benedict's Reagent	Method as documented in LPTC2602
	Urine	Reducing Substances by Benedict's Reagent	Method as documented in LPTC2515
	Stool	Sugar by Thin layer chromatography	Method as documented in LPTC2302
	Urine	Sugar by Thin layer chromatography	Method as documented in LPTC2303
		Sulfite by Dipstick method	MQuant Sulfite Test Method as documented in LPTC2519

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This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	Protein, qualitative Analysis		
	Urine	Protein pattern by Protein Electrophoresis	HYDRASYS 2 Scan Focusing system
	Serum	Protein pattern by Capillary Electrophoresis	Sebia Minicap capillary electrophoresis system
	Serum, urine	Monoclonal protein by Immunofixation Electrophoresis	HYDRASYS 2 Scan Focusing system

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<b>MEDICAL TESTING</b>			
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<b>This laboratory is accredited for performing the examinations listed in the scope below.</b>			
<b>Chemical Pathology</b> (cont'd)	<b>Special Chemistry</b>  Serum	Active Vitamin B12 by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system Active Vitamin B12 assay
		Alpha-1-antitrypsin by Immunoturbidimetry	Abbott Architect c8000 system Alpha-1-antitrypsin assay
		Ceruloplasmin by Immunoturbidimetry	Abbott Architect c8000 system Ceruloplasmin assay
		Cryoglobulin by Manual method	Method as documented in LPTC2702
	Stool	Faecal Haemoglobin by Immunochemical method	Alfresa NS Prime Analyser
	Serum	Folate by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system Folate assay
		Haptoglobin by Immunoturbidimetry	Abbott Architect c8000 system Haptoglobin assay
	Urine	Indican by Obermayer test	Method as documented in LPTC2509
	Serum	Indocyanine Green Clearance by Spectrophotometry	Hitachi U-3900H Spectrophotometer
	Urine	Porphobilinogen by Column test	Hitachi U-3900H Spectrophotometer

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MEDICAL TESTING			
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This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	Special Chemistry (cont'd)		
	Urine (cont'd)	Porphyrins by Fluorometry	Method as documented in LPTC2514
	Serum	Thyroglobulin by Immunoassay (Chemiluminescent Label)	Siemens Immulite 2000XPi system Thyroglobulin assay
	CSF	Xanthochromia by Spectrophotometry	Hitachi U-3900H Spectrophotometer
	Toxicology		
	Urine	Drug Screening by Liquid chromatography-mass spectrometry	Method as documented in LPTC4709 using WATERS UPLC-Xevo G2-XS QTOF Mass Spectrometry system
		Cyanides by Merckoquant cyanide test strips	Method as documented in LPTC4410
		Methanol by Chromotropic acid test	Method as documented in LPTC4411
	Urine, gastric lavage, scene residues	Paraquat, diquat by Dithionite test	Method as documented in LPTC4406

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香港新界青松觀路 23 號屯門醫院病理學大樓一樓

<b>MEDICAL TESTING</b>			
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<b>This laboratory is accredited for performing the examinations listed in the scope below.</b>			
<b>Chemical Pathology</b> (cont'd)	<b>Tumour Markers</b>		
	Serum	CA 125 by Immunoassay (Chemiluminescent Label)	Abbott Architect i2000 system Cancer Antigen 125 assay
		CA 19-9 Immunoassay (Chemiluminescent Label)	Abbott Architect i2000 system Carbohydrate Antigen 19-9 assay
	<b>Urinalysis</b>		
	Urine	Bilirubin by Dipstick method	Roche Combur 10 Test Method as documented in LPTC2502
		Blood (Erythrocyte / Haemoglobin) and Haemoglobin by Dipstick method	Roche Combur 10 Test Method as documented in LPTC2503
		Glucose by Dipstick method	Roche Combur 10 Test Method as documented in LPTC2518
		Ketone bodies by Dipstick method	Roche Combur 10 Test Method as documented in LPTC2510
		Myoglobin by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system STAT Myoglobin assay
		Urobilinogen by Ehrlich's aldehyde reagent	Method as documented in LPTC2517

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香港新界青松觀路 23 號屯門醫院病理學大樓一樓

MEDICAL TESTING			
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This laboratory is accredited for performing the examinations listed in the scope below.			
Immunology	<b>Autoantibodies</b>		
	Serum	Anti-Thyroglobulin Antibody by Immunoassay (Chemiluminescent Label)	Siemens Immulite 2000 XPi system Anti-Thyroglobulin Antibody assay
	<b>Immunochemistry</b>		
	Serum	Complement C3 by Immunoturbidimetry	Abbott Architect c8000 system Complement C3 assay
		Complement C4 by Immunoturbidimetry	Abbott Architect c8000 system Complement C4 assay
		Immunoglobulin A by Immunoturbidimetry	Abbott Architect c8000 system Immunoglobulin A assay
		Immunoglobulin G by Immunoturbidimetry	Abbott Architect c8000 system Immunoglobulin G assay
		Immunoglobulin M by Immunoturbidimetry	Abbott Architect c8000 system Immunoglobulin M assay



# Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology

醫院管理局-屯門醫院臨床病理學部

Microbiology Laboratory: 2/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.

香港新界青松觀路 23 號屯門醫院病理學大樓二樓

MEDICAL TESTING			
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This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection	<b>Bacteriology – Culture and sensitivity and/or gram microscopy</b>		
	Blood Culture	Culture and antimicrobial susceptibility tests for pathogens by Aerobic and anaerobic broth culture	Method as documented in LP TM06 14
	CSF	Microscopy for - Cell count by counting chamber - Microorganisms by Gram stain - Encapsulated yeast by Nigrosin Stain solution	Method as documented in LP TM06 15
	Enteric samples (including stool and rectal swab)	Culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO <sub>2</sub> culture	Method as documented in LP TM06 15
	Rectal swab, stool, urine, wound swab and respiratory specimens	Microscopy for - RBC and WBC	Method as documented in LP TM06 09
		Culture and antimicrobial susceptibility tests for enteric pathogens by Aerobic, anaerobic and microaerophilic culture	Method as documented in LP TM06 09
		Culture and antimicrobial susceptibility for Carbapenem Resistant Enterobacteriaceae by Aerobic culture	Method as documented in LP TM06 80

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This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	Bacteriology – Culture and sensitivity and/or gram microscopy (cont'd)  Genital samples (including HVS, endocervical swab, urethral swab, etc.)	Microscopy for cell morphology and microorganisms by Gram stain	Method as documented in LP TM06 05
		Culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO <sub>2</sub> culture	Method as documented in LP TM06 05
		Culture and antimicrobial susceptibility tests for <i>Neisseria gonorrhoeae</i> by CO <sub>2</sub> culture	Method as documented in LP TM06 05
	High vaginal-rectal swab	Culture and antimicrobial susceptibility for <i>Streptococcus</i> Group B by Aerobic culture	Method as documented in LP TM06 78
	Miscellaneous samples (body fluid, dialysate, pus, swab, tissue, etc.)	Microscopy for cell morphology and microorganisms by Gram stain	Method as documented in LP TM06 01 and LP TM06 04
		Cell count (body fluid) by Counting chamber	Method as documented in LP TM06 04
		Culture and antimicrobial susceptibility tests for pathogens by Aerobic, CO <sub>2</sub> and anaerobic culture	Method as documented in LP TM06 01 and LP TM06 04
	Eye swab	Culture and antimicrobial susceptibility tests for <i>Neisseria gonorrhoeae</i> by CO <sub>2</sub> culture	Method as documented in LP TM06 01

## Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology

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This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	Bacteriology – Culture and sensitivity and/or gram microscopy (cont'd) Lower respiratory tract samples (including sputum, bronchial aspirate, bronchoalveolar lavage, tracheal aspirate, etc.)	Microscopy for cell morphology and microorganisms by Gram stain	Method as documented in LP TM06 02
		Culture and antimicrobial susceptibility tests for respiratory tract pathogens by Aerobic and CO <sub>2</sub> culture	Method as documented in LP TM06 02
	Bronchoalveolar lavage and Protected bronchial Brush	Microscopy for cell morphology and microorganisms by Gram stain	Method as documented in LP TM06 02
		Quantitative Culture and antimicrobial susceptibility tests for respiratory tract pathogens by Aerobic and CO <sub>2</sub> culture	Method as documented in LP TM06 02
	Upper respiratory tract samples (including throat swab, nasal swab, etc.)	Culture and antimicrobial susceptibility tests for respiratory tract pathogens by Aerobic and CO <sub>2</sub> culture	Method as documented in LP TM06 01
	Nasopharyngeal swab and pernasal swab	Culture for <i>Bordetella pertussis</i> and <i>Bordetella parapertussis</i> by Aerobic culture	Method as documented in LP TM06 01
	Urine	Culture and antimicrobial susceptibility tests for pathogens by - Paper-strip method - Standard loop method	Method as documented in LP TM06 06 Method as documented in LP TM06 06
	Rectal swab, stool, urine	Culture and antimicrobial susceptibility for Vancomycin Resistant Enterococcus (VRE)	Method as documented in LP TM06 81 and LP TM06 91

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Clinical Microbiology and Infection (cont'd)	Bacteriology – Culture and sensitivity and/or gram microscopy (cont'd)  Nasal swab and other samples (including axilla swab, sputum, wound swab, etc.)  Throat swab, rectal swab, sputum, urine, wound swab, etc.  Clinical isolates	Culture and antimicrobial susceptibility for Methicillin Resistant <i>Staphylococcus aureus</i>	Method as documented in LP TM06 03
		Culture and antimicrobial susceptibility for Multidrug Resistant <i>Acinetobacter</i>	Method as documented in LP TM06 89
		Identification of clinical isolates by - Conventional biochemical tests - MALDI-TOF mass spectrometry	Method as documented in LP TM03 02A to D, LP TM09 01 Method as documented in LP TM06 100 using BD Bruker MALDI Biotyper
		Detection and differentiation of Carbapenemases (KPC, OXA-48, VIM, IMP and NDM) produced from Enterobacteriaceae by Immunochromatographic assay	NG-Test CARBA 5 Method as documented in LP TM06 125
	Bacteriology – Serology  Urine     Serum	Detection of <i>Legionella pneumophila</i> serogroup 1 antigen in urine by Immunochromatographic assay	Binax NOW <i>Legionella</i> Urinary Antigen Test Method as documented in LP TM06 57
		Brucella antibody by Agglutination test	Method as documented in LP TM06 28
		Rickettsial antibody by Weil-Felix agglutination test	Method as documented in LP TM06 27
		Salmonella antibody by Widal agglutination test	Method as documented in LP TM06 26
		Anti-Streptolysin O antibody by Latex agglutination assay	Biokit Rheumajet ASO Method as documented in LP TM06 105

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This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	<b>Mycobacteriology - Microscopy</b> Blood, CSF, Respiratory tract samples, miscellaneous samples urine, etc.)	Microscopy for acid fast bacilli (AFB) by - Auramine O fluorescent stain - Ziehl-Neelsen stain	Method as documented in LP TM06 17 Method as documented in LP TM06 17
	<b>Mycobacteriology - Culture</b> Blood, CSF, Respiratory tract samples, miscellaneous samples urine, etc.)	Culture for acid fast bacilli (AFB) by - Conventional method - Automated culture method	Method as documented in LP TM06 17 Method as documented in LP TM06 17
	Culture isolates from solid and liquid culture Media	<i>Mycobacterium tuberculosis</i> complex specific MPB64 antigen detection by Immunochromatographic assay	Capilia TB-Neo antigen test kit Method as documented in LP TM06 108
	<b>Mycology – Culture, ID and Serology</b> Dermatological samples (including hair, nail, skin, tissue, etc.)	Microscopy of fungal element and yeasts by KOH preparation	Method as documented in LP TM06 16
		Culture for dermatophytes, pathogenic mould and yeasts by Conventional method	Method as documented in LP TM06 16
	Blood Culture	Culture for fungi by Automated blood culture method	Method as documented in LP TM06 14
	All samples	Microscopy of fungal element and yeasts by Gram stain	Method as documented in LP TM06 04
		Culture for fungi by Conventional method	Method as documented in LP TM06 02, LP TM06 04 and LP TM06 06

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This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Clinical Microbiology and Infection (cont'd)	<b>Mycology – Culture, ID and Serology (cont'd)</b>		
	Fungal isolates	Identification of dermatophytes, pathogenic mould and yeasts by - Conventional identification tests - MALDI-TOF mass spectrometry	Method as documented in LP TM06 16 Method as documented in LP TM06 100 using BD Bruker MALDI Biotyper
	CSF, serum	<i>Cryptococcal</i> antigen by - Qualitative latex agglutination test - Quantitative latex agglutination test	Meridian Bioscience Cryptococcal Antigen Latex Agglutination System (CALAS) Method as documented in LP TM06 15
	<b>Miscellaneous</b>		
	Urine	Pregnancy test for human chorionic gonadotrophin (hCG), qualitative by Immunochromatographic assay	RightSign Pregnancy test kit Method as documented in LP TM06 08
	Serum	Procalcitonin by Enzyme linked fluorescent assay (ELFA)	bioMerieux VIDAS BRAHMS PCT assay
	Stool, body fluid	Microscopy for chyle and fat globules by Oil Red O Staining	Method as documented in LP TM06 09, LP TM06 07
	<b>Parasitology – Microscopy and Staining</b>		
	Stool	Microscopy for enteric parasites by Concentration method  Microscopy for Amoeba by - Direct wet smear - Concentration method  Microscopy for fecal protozoa by - Wheatly's trichrome stain - Modified Kinyoun's acid fast stain	Method as documented in LP TM06 10  Method as documented in LP TM06 10 Method as documented in LP TM06 11  Method as documented in LP TM06 12 Method as documented in LP TM06 13
	Skin, worm, worm Segment	Macroscopic and microscopic examination for parasite	Method as documented in LP TM06 69 Method as documented in LP TM06 10

# Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology

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MEDICAL TESTING			
DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
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Clinical Microbiology and Infection (cont'd)	Urinalysis and Urine Microscopy Urine	<p>Urine chemical test by Automated urine analyser</p> <p>Urine microscopy for</p> <ul style="list-style-type: none"> <li>- Quantitative RBC and WBC count by counting chamber</li> <li>- Semi-quantitative count for other formed elements (including cast, crystal, etc.) by fixed volume microtitre plate method</li> </ul>	<p>Method as documented in LP TM06 07 Sysmex UC-3500 Fully-Automated Urine Chemistry Analyser</p> <p>Method as documented in LP TM06 07</p>

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Clinical Microbiology and Infection (cont'd)	Virology – Serology Nasopharyngeal samples	Influenza A virus and Influenza B virus antigen by Rapid immunochromatographic assay	ESPLINE Influenza A & B-N Test BD Veritor System Method as documented in LP TM06 90
	Serum	Hepatitis B virus surface antibody Anti-HBs (Quantitative) by Immunoassay (Chemiluminescent label)	Abbott Architect i2000 system Anti-HBs Assay Cobas e801 Analyser Elecsys Anti-HBs II Assay



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Clinical Microbiology and Infection (cont'd)	Virology – Serology Serum	Hepatitis B virus core antibody (Anti-HBc) by Immunoassay (Chemiluminescent label)	Abbott Architect i2000 system Anti-HBc Assay Cobas e801 Analyser Elecsys Anti-HBc II Assay
		Hepatitis B virus surface antigen (HBsAg) by Immunoassay (Chemiluminescent label)	Abbott Architect i2000 system HBsAg qualitative Assay Abbott Architect i2000 system HBsAg Confirmatory Assay Cobas e801 Analyser Elecsys HBsAg II Assay Cobas e801 Analyser Elecsys HBsAg II Auto Confirm Assay
		Hepatitis C virus antibody by Immunoassay (Chemiluminescent label)	Abbott Architect i2000 system Anti-HCV Assay Cobas e801 Analyser Elecsys Anti-HCV II Assay
		SARS-CoV-2 IgG antibody (Quantitative) by Immunoassay (Chemiluminescent Label)	Abbott Alinity i system SARS-CoV2 IgG QT Assay
		Varicella zoster virus IgG antibody by Enzyme linked fluorescent assay (ELFA)	bioMerieux VIDAS Varicella-Zoster IgG Assay

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Medical Genetics	<b>Molecular Genetics</b> <b>(Anatomical Pathology)</b> Histological and cytological specimens	Epstein-Barr Virus Early RNA (EBER RNA) by In-situ Hybridization (ISH)	Method as documented in LP TA81 07 INFORM EBER Probe in conjunction with ISH iVIEWBlue Detection kit on Ventana BenchMark ULTRA
	FFPE tissue sections and liquid-based cytology specimens	Detection of <i>Mycobacterium tuberculosis</i> complex and non-tuberculosis <i>mycobacteria</i> by Polymerase Chain Reaction and Sanger Sequencing (Target region: IS6110 and 16S – 23S rRNA ITS) T cell receptor beta chain and gamma chain gene rearrangement by Polymerase chain reaction (Target region: T-cell receptor- $\gamma$ and T-cell receptor- $\beta$ locus) Immunoglobulin heavy chain rearrangement by Polymerase chain reaction (Target region: FR2 and FR3 regions) Kappa and Lambda mRNA by In-situ Hybridization (ISH) HPV detection and typing by Polymerase Chain Reaction and Sanger Sequencing (Target region: L1 gene)	Nucleic acid extraction as documented in LP TA81 02 Nucleic acid amplification and detection as documented in LP TA81 04 using ABI 3500 Genetic Analyser Nucleic acid extraction as documented in LP TA81 02 Nucleic acid amplification and detection as documented in LP TA81 05 Nucleic acid extraction as documented in LP TA81 02 Nucleic acid amplification and detection as documented in LP TA81 06 Method as documented in LP TA81 07 Nucleic acid extraction as documented in LP TA81 02 Nucleic acid amplification and detection as documented in LP TA81 03 using ABI 3500 Genetic Analyser

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Medical Genetics (cont'd)	Molecular Genetics (Anatomical Pathology) (cont'd) EDTA Blood	Epidermal Growth Factor Receptor (EGFR) Gene Exon 18-21 mutations by Real-time Polymerase Chain Reaction	Cobas EGFR Mutation Test v2 Nucleic acid extraction by cobas cfDNA Sample Preparation Kit Nuclei acid amplification and detection by cobas z 480
		Epidermal Growth Factor Receptor (EGFR) Gene Exon 18-21 mutations by Real-time Polymerase Chain Reaction	Cobas EGFR Mutation Test v2 Nucleic acid extraction by cobas DNA Sample Preparation Kit Nuclei acid amplification and detection by cobas z 480
	Histological and cytological specimens	KRAS Gene Mutations in Codon 12, 13 and 61 by Real-time Polymerase Chain Reaction	Cobas KRAS Mutation Test Nucleic acid extraction by cobas DNA Sample Preparation Kit Nuclei acid amplification and detection by cobas z 480
		KRAS Gene Exon 2-4 Mutations by Polymerase Chain Reaction and Sanger sequencing	Nucleic acid extraction, amplification and detection as documented in LP TA81 11 using ABI 3500 Genetic Analyser
		NRAS Gene Exon 2-4 Mutations by Polymerase Chain Reaction and Sanger sequencing	Nucleic acid extraction, amplification and detection as documented in LP TA81 11 using ABI 3500 Genetic Analyser
		Amplification of erb-b2 receptor tyrosine kinase 2 (ERBB2, HER2) by Fluorescence in-situ hybridisation	PathVysion HER-2 DNA Probe Kit Slide preparation and staining as documented in LP TA81 10

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Medical Genetics (cont'd)	Molecular Genetics (Haematology) EDTA Blood / bone marrow	BCR/ABL1 t(9;22) translocation - p210 BCR/ABL1 transcript - p190 BCR/ABL1 transcript by Reverse transcription – Polymerase chain reaction, qualitative  PML/RARA t(15;17) translocation by Reverse transcription – Polymerase chain reaction, qualitative  JAK2 V617F Mutation by Allele-specific polymerase chain reaction  T cell receptor beta chain and gamma chain gene rearrangement by Polymerase chain reaction (Target region: T-cell receptor- $\gamma$ and T- cell receptor- $\beta$ locus)  Immunoglobulin heavy chain rearrangement by Polymerase chain reaction (Target region: FR2 and FR3 regions)	Nucleic acid extraction as documented in LP TH15 03 Nucleic acid amplification and detection as documented in LP TH15 07  Nucleic acid extraction as documented in LP TH15 03 Nucleic acid amplification and detection as documented in LP TH15 09  Nucleic acid extraction as documented in LP TH15 05 Nucleic acid amplification and detection as documented in LP TH15 10  Nucleic acid extraction as documented in LP TH15 05 Nucleic acid amplification and detection as documented in LP TA81 05  Nucleic acid extraction as documented in LP TH15 05 Nucleic acid amplification and detection as documented in LP TA81 06

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Medical Genetics (cont'd)	Molecular Genetics (Microbiology) Clinical isolates	Identification of bacterial isolates by 16S rRNA gene sequencing	Method as documented in LP TM06 46 using ABI3500 Genetic Analyser
		Identification of fungal isolates by D2 region of the LSU rRNA gene sequencing	Method as documented in LP TM06 46 using ABI3500 Genetic Analyser
		Identification of carbapenemase-producing Enterobacteriaceae by Real-time Polymerase Chain Reaction, qualitative (Target gene: IPM-1, KPC, NDM, OXA-48, VIM)	Cepheid Xpert Carba-R, Nucleic acid amplification and detection by Cepheid GeneXpert DX system
	Nasal swab	Methicillin resistant <i>Staphylococcus aureus</i> detection by Real-time Polymerase Chain Reaction, qualitative (Target region: proprietary)	Cepheid Xpert MRSA NxG Test Nucleic acid amplification and detection by Cepheid GeneXpert DX system
	Urine and Genital samples (including endocervical swab and urethral swab, etc.)	<i>Chlamydia trachomatis</i> – detection by Real- time Polymerase Chain Reaction, qualitative (Target region: Proprietary)	Cepheid Xpert CT/NG Test Nucleic acid amplification and detection by Cepheid GeneXpert DX system

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香港新界青松觀路 23 號屯門醫院病理學大樓二樓

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Medical Genetics (cont'd)	Molecular Genetics (Microbiology) (cont'd)  EDTA Blood	Hepatitis B virus – detection by Real-time Polymerase Chain Reaction, quantitative (Target region: pre-core and core region)	cobas HBV Test Nucleic acid extraction by Cobas x480 Nucleic acid amplification and detection by Cobas z480
		Hepatitis C Virus RNA - detection by Real-time Polymerase Chain Reaction, quantitative (Target region: proprietary)	cobas HCV Test Nucleic acid extraction by Cobas x480 Nucleic acid amplification by Cobas z480
		Hepatitis C Virus Genotyping – detection by Real-time Polymerase Chain Reaction, quantitative (Target region: proprietary)	cobas HCV GT Nucleic acid extraction by Cobas x480 Nucleic acid amplification by Cobas z480
	Respiratory specimens	<i>Bordetella pertussis</i> – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: IS481)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 49 using ABI 7900HT
		<i>Bordetella parapertussis</i> – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: IS1001)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 49 using ABI 7900HT
		<i>Chlamydomonada pneumoniae</i> –detection by Real-time Polymerase Chain Reaction, qualitative (Target region: Major Outer Membrane Protein)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 58 using ABI 7900HT

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香港新界青松觀路 23 號屯門醫院病理學大樓二樓

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Medical Genetics (cont'd)	Molecular Genetics (Microbiology) (cont'd) Respiratory specimens (cont'd)	<p>Human Metapneumovirus – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: fusion protein gene)</p> <p>Influenza A virus – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: M gene)</p> <p>Influenza A virus (Swine H1 subtype) – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: HA gene)</p> <p>Influenza A virus (Seasonal H1 subtype) – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: HA gene)</p> <p>Influenza A virus (Seasonal H3 subtype) – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: HA gene)</p> <p>Influenza A virus (H5 subtype) – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: HA gene)</p> <p>Influenza A virus (H7 subtype) – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: HA gene)</p>	<p>Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 92 using LightCycler 480</p> <p>Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 83 using LightCycler 2.0</p> <p>Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 85 using LightCycler 2.0</p> <p>Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 64 using LightCycler 2.0</p> <p>Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 84 using LightCycler 2.0</p> <p>Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 86 using LightCycler 2.0</p> <p>Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 87 using LightCycler 2.0</p>

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Medical Genetics (cont'd)	Molecular Genetics (Microbiology) (cont'd) Respiratory specimens (cont'd)	<p>Influenza A virus, Influenza B virus and, Respiratory syncytial virus – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: Influenza virus: M, PB2 and PA gene; Influenza B virus: M and NS gene; RSV: RSV A and RSV B nucleocapsid gene)</p> <p>SARS Coronavirus-2, Influenza A virus, Influenza B virus and Respiratory syncytial virus – detection by Real-time Polymerase Chain Reaction, Qualitative (Target region: Influenza virus: M, PB2 and PA gene; Influenza B virus: M and NS gene; RSV: RSV A and RSV B nucleocapsid gene; SARS-CoV-2 E gene and N2 gene)</p> <p>Influenza A virus, Influenza B virus, Respiratory syncytial virus, Coronavirus 229E, OC43, NL63 and HKU1, Middle East Respiratory Syndrome Coronavirus (MERS), Severe Acute Respiratory Syndrome Coronavirus (SARS-CoV-2), Parainfluenza virus type 1,2,3 and 4, Human metapneumovirus, Enterovirus/Rhinovirus, Adenovirus, <i>Bordetella pertussis</i>, <i>Chlamydia pneumoniae</i> and <i>Mycoplasma pneumoniae</i> - detection by Polymerase Chain Reaction, qualitative (Target region: proprietary)</p>	<p>Cepheid Xpert Xpress Flu/RSV Nucleic acid amplification and detection by Cepheid GeneXpert system</p> <p>Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV Nucleic acid amplification and detection by Cepheid GeneXpert system</p> <p>FilmArray Respiratory Panel 2.1 <i>plus</i> Nucleic acid amplification and detection by BioFire FilmArray Torch system</p>



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香港新界青松觀路 23 號屯門醫院病理學大樓二樓

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Medical Genetics (cont'd)	Molecular Genetics (Microbiology) (cont'd)  Respiratory specimens (cont'd)	<p><i>Legionella pneumophila</i> – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: MIP gene)</p> <p><i>Mycobacterium tuberculosis</i> – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: ropB gene)</p> <p><i>Mycoplasma pneumoniae</i> – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: P1 gene)</p> <p>SARS-Coronavirus – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: ORF1ab gene)</p> <p>(Target region: ORF1ab gene)</p> <p>(Target region: E gene)</p> <p>(Target region: E gene and N2 gene)</p>	<p>Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 60 using ABI 7900HT</p> <p>Cepheid Xpert MTB/RIF, Nucleic acid amplification and detection by Cepheid GeneXpert Dx system</p> <p>Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 59 using ABI 7900HT</p> <p>Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 40 using ABI 7900HT</p> <p>Hologic Panther Fusion SARS-CoV-2 Assay Nucleic acid amplification and detection by Hologic Panther Fusion</p> <p>Nucleic acid extraction by MagNA Pure 96 and eMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 116 using LightCycler 480</p> <p>Cepheid Xpert Xpress SARS-CoV-2 Nucleic acid amplification and detection by Cepheid GeneXpert system and GeneXpert Infinity system</p>

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Medical Genetics (cont'd)	Molecular Genetics (Microbiology) (cont'd)		
	Respiratory specimens (cont'd)	SARS-Coronavirus 2 – detection by Real-time Polymerase Chain Reaction, Qualitative (cont'd) (Target region: E gene and N gene)	Nucleic acid extraction by MagNA Pure 96 and eMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 123 using LightCycler 480
	Blister/Vesicular swab, vesicular fluid	Varicella Zoster Virus – detection by Real-time Polymerase Chain Reaction, Quantitative (Target region: proprietary)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 114 using LightCycler 480
	Stool	<i>Clostridium difficile</i> – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: tcdB, cdt and tcdC gene)  Norovirus – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: ORF1 – ORF2 junction)  Rotavirus – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: non-structural protein gene, NSP3) (Target region: non-structural protein gene, NSP5)	Cepheid Xpert C. difficile Assay Nucleic acid amplification and detection by Cepheid GeneXpert system  Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 54 using ABI 7000 and ABI 7900HT in LP TM06 115 using LightCycler 480  Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in LP TM06 62 using ABI 7900HT Nucleic acid amplification and detection as documented in LP TM06 115 using LightCycler 480

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Medical Genetics (cont'd)	Molecular Genetics (Microbiology) (cont'd) CSF	Meningitis - Encephalitis pathogens – molecular detection of <i>Escherichia coli</i> K1, <i>Haemophilus influenzae</i> , <i>Listeria monocytogenes</i> , <i>Neisseria meningitidis</i> , <i>Streptococcus agalactiae</i> , <i>Streptococcus pneumoniae</i> , Cytomegalovirus (CMV), Enterovirus, <i>Herpes simplex virus</i> 1 (HSV-1), <i>Herpes simplex virus</i> 2 (HSV-2), Human herpes Virus 6 (HHV-6), Human parechovirus, <i>Varicella zoster virus</i> (VZV) and <i>Cryptococcus neoformans/gattii</i> ) by Multiplex polymerase chain reaction (Target region: proprietary)	FilmArray Meningitis-Encephalitis Panel Nucleic acid amplification and detection by Biofire FilmArray Torch system

# Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology

醫院管理局-屯門醫院臨床病理學部

Haematology & Serology Laboratory and Blood Bank: G/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.

香港新界青松觀路 23 號屯門醫院病理學大樓地下

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Haematology	Blood Bank – General EDTA whole blood	ABO and Rh(D) typing by Red cell agglutination	Tile and tube method as documented in LPTB0202
		ABO and Rh(D) typing by Red cell agglutination, automated	Automated system: LPTB0220 using Bio-Rad IH-1000
		Antibody screen by - Red cell agglutination, automated - Saline-Indirect antiglobulin test	Automated system: LPTB0202 using Bio-Rad IH-1000 Bio-Rad gel technique as documented in LPTB0219
		Crossmatch by - Computer crossmatch - Immediate spin - NISS Indirect antiglobulin test - LISS Indirect antiglobulin test, manual - LISS Indirect antiglobulin test, automated	Method as documented in LPTB0107 Method as documented in LPTB0107 Method as documented in LPTB0206 Method as documented in LPTB0206 Automated system: LPTB0220 using Bio-Rad IH-1000
	Blood Bank – Immunohaematology Serum	Cold agglutinin titre	Method as documented in LPTB0214
	EDTA whole blood	Direct agglutination test by Red cell agglutination	Method as documented in LPTB0204
		Red cell phenotyping by Direct agglutination Indirect Antiglobulin test	Method as documented in LPTB0213
	Blood Bank – Special EDTA whole blood and serum	Antibody identification by - NISS Indirect antiglobulin test - LISS Indirect antiglobulin test - LISS Indirect antiglobulin test, automated	Method as documented in LPTB0205 Method as documented in LPTB0219 Automated system: LPTB0220 using Bio-Rad IH-1000
		Transfusion reaction, including - ABO and Rh(D) typing - Red cell antigen phenotyping - Antibody identification - Crossmatching	Method as documented in LPTB0218

# Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology

醫院管理局-屯門醫院臨床病理學部

Haematology & Serology Laboratory and Blood Bank: G/F, Pathology Block, Tuen Mun Hospital, 23 Tsing Chung Koon Road, N.T., H.K.

香港新界青松觀路 23 號屯門醫院病理學大樓地下

MEDICAL TESTING			
DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	Coagulation Citrate plasma	Coagulation studies including <ul style="list-style-type: none"> <li>- Prothrombin Time (PT)</li> <li>- Activated partial thromboplastin time (APTT)</li> <li>- Thrombin Time (TT)</li> <li>- Fibrinogen</li> </ul> Activated partial thromboplastin time (APTT) by manual method           Anti-thrombin activity by Chromogenic assay           D-Dimer by Enzyme linked fluorescent assay (ELFA)           Factor assays including <ul style="list-style-type: none"> <li>- Factor II</li> <li>- Factor V</li> <li>- Factor VII</li> <li>- Factor VIII</li> <li>- Factor IX</li> <li>- Factor X</li> <li>- Factor XI</li> <li>- Factor XII</li> </ul> Factor inhibitor screening           Free Protein S antigen by Photometric method           Lupus Anticoagulant detection by <ul style="list-style-type: none"> <li>- PT, APTT, TT</li> <li>- Dilute Russells' Viper Venom Time (DRVVT) Screen, confirm and mixing</li> <li>- PTT LA</li> <li>- Staclot LA (PNP)</li> </ul>	Automated system: Sysmex CS-5100           Method as documented in LPTH0508           Sysmex CS-5100           BioMerieux mini Vidas D-Dimer Exclusion II Assay           Automated Coagulation systems: Sysmex CS-5100           Method as documented in LPTH0510 and LPTH0511 using Sysmex CS-5100           Sysmex CS-5100           Method as documented in LPTH0524 and LPTH0526A using Sysmex CS-5100

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Haematology (cont'd)	Coagulation (cont'd) Citrate plasma (cont'd)	Protein C activity by Chromogenic assay  Prothrombin time (PT) by manual method  von Willebrand factor antigen by Turbidimetric method	Sysmex CS-5100  Method as documented in LPTH0508  Sysmex CS-5100
	Haematology – General EDTA whole blood	Complete blood count including - White blood cell count (WBC) - Red blood cell count (RBC) - Haemoglobin (HGB) - Haematocrit (HCT) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Red cell distribution width (RDW) - Platelet count - Mean Platelet Volume (MPV) - Reticulocyte count - WBC differential count	Automated Haematology systems: Beckman Coulter DxH800
	EDTA marrow blood aspirate, clot and trephine biopsy	Bone marrow examination	Specimen preparation and staining as documented in LPTH0414 Marrow smear by May Grunwald - Giemsa and Perl's Prussian Blue stain as documented in LPTH0405 Peripheral blood smear by May Grunwald –Giemsa or Wright –Giemsa stain Cytochemical stain: Method as documented in - Sudan Black (LPTH0708) - Specific esterase of Naphthol AS-D Chloroacetate Esterase (LPTH0703) - Non specific Naphthyl Acetate Esterase (LPTH0706) - Periodic Acid Schiff (LPTH0707)

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香港新界青松觀路 23 號屯門醫院病理學大樓地下

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Haematology (cont'd)	Haematology – General (cont'd)  EDTA whole blood	Erythrocyte Sedimentation Rate (ESR) by Automated method	Alifax Test 1 Analyser Method as documented in LPTH0416B
		Glucose-6-phosphate dehydrogenase (G6PD) Screening by fluorescence test	Method as documented in LPTH0804
	EDTA whole blood	Haemoglobin A1c (HbA1c) by Turbidimetric Inhibition Immunoassay	Cobas c513 Method as documented in LPTH0811
		Haemoglobin pattern by - High performance liquid chromatography - Alkaline gel electrophoresis - Acid gel electrophoresis	Bio-Rad Variant II Haemoglobin Analyser  Interlab G26 Analyser Method as documented in LPTH0617
		Haemoglobin H inclusion bodies by - New Methylene Blue stain - Lateral Flow Chromatographic Immunoassay	Method as documented in LPTH0610 i-Lab IC Strip Method as documented in LPTH0618
		Malaria parasite examination by Thick and thin films	Method as documented in LPTH0409
		Peripheral blood smear examination by - May Grunwald Giemsa stain	Elite Tech Autospray stainer Method as documented in LPTH0404A
		Reticulocyte count by Manual method	Method as documented in LPTH0406

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香港新界青松觀路 23 號屯門醫院病理學大樓地下

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This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	Haematology – Miscellaneous  Semen	Microscopy for count, morphology and motility by Conventional method	Method as documented in LPTH0418
	Haematology – Special EDTA whole blood	Kleihauer test by acid elution	Method as documented in LPTH0803
		Monospot test by Latex agglutination	Method as documented in LPTH0904
		Immunophenotyping for haematological disorder by Flow Cytometry	Becton Dickinson FACSLytic Analyser Method as documented in LPTH1020
		Lymphocyte subsets by Flow Cytometry	Becton Dickinson FACSLytic Analyser Method as documented in LPTH1020
		CD34+ cell enumeration by Flow Cytometry	Becton Dickinson FACSLytic Analyser Method as documented in LPTH1020



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MEDICAL TESTING			
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This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Immunology	Autoantibodies Serum	Anti-cardiolipin antibody (ACL) by Immunoassay (Enzyme-based label)	BioRad EVOLIS Twin Plus system
		Anti - dsDNA antibody by Immunoassay (Enzyme-based label)	Euroimmun I-2P Analyser Method as documented in LPTH0905B
		Anti-extractable nuclear antigen (ENA) Immunoassay (Enzyme-based label)	Euroimmun I-2P Analyser Method as documented in LPTH0910B
		Anti-nuclear antibody (ANA) by Indirect Immunofluorescence Test	Aesku Helios Analyser Method as documented in LPTH0916
		Anti-thyroglobulin antibody (ATG) by Immunoassay (Enzyme-based label)	BioRad EVOLIS Twin Plus system
		Anti-thyroid peroxidase antibody (TPO) by Immunoassay (Enzyme-based label)	BioRad EVOLIS Twin Plus system
		Rheumatoid Factor by Immunoassay (Enzyme-based label)	BioRad EVOLIS Twin Plus system

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醫院管理局-屯門醫院臨床病理學部

Core Laboratory: Department of Clinical Pathology 2/F, Pok Oi Hospital, Au Tau, Yuen Long, N.T., H.K.  
香港新界元朗凹頭博愛醫院二樓臨床病理學部

MEDICAL TESTING			
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This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology	Blood gases and Co-oximetry Heparinized whole blood	Blood Gas include: - pCO <sub>2</sub> by Potentiometry (pCO <sub>2</sub> Sensing Electrode) - pH by Potentiometry (Ion-Selective Electrode) - pO <sub>2</sub> by Polarography (Oxygen Sensing Amperometric Electrode)	Siemens RapidLab 1265 system Siemens RapidLab 1265 system Siemens RapidLab 1265 system
		Carboxyhaemoglobin by Co-oximetry	Siemens RapidLab 1265 system
		Methaemoglobin by Co-oximetry	Siemens RapidLab 1265 system
	General Chemistry Plasma	Alanine Aminotransferase (ALT) by Spectrophotometry	Roche Diagnostics cobas 8000 system, ALTPM (IFCC) assay
		Albumin by Spectrophotometry	Roche Diagnostics cobas 8000 system, ALB BCG assay
		Alkaline Phosphatase (ALP) by Spectrophotometry	Roche Diagnostics cobas 8000 system, ALP2 (IFCC) assay
	Fluid, plasma	Amylase by Spectrophotometry	Roche Diagnostics cobas 8000 system, AMYL2 (IFCC) assay
	Plasma	Anion Gap by Calculation	Calculated from plasma, sodium, chloride and bicarbonate

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香港新界元朗凹頭博愛醫院二樓臨床病理學部

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This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	General Chemistry (cont'd)  Plasma (cont'd)	Aspartate Aminotransferase (AST) by Spectrophotometry	Roche Diagnostics cobas 8000 system, ASTPM (IFCC) assay
		Bilirubin, Direct by Spectrophotometry	Roche Diagnostics cobas 8000 system, BILD2 Diazo assay
		Bilirubin, Indirect by Calculation	Calculated from plasma total and direct bilirubin
		Bilirubin, Total by Spectrophotometry	Roche Diagnostics cobas 8000 system, BLT3 Diazo assay
		Calcium, albumin-adjusted by Calculation	Calculated from plasma albumin and calcium
	Heparinized whole blood	Calcium, ionized by Potentiometry (Ion-Selective Electrode)	Siemens RapidLab 1265 system
	Plasma	Calcium by Spectrophotometry	Roche Diagnostics cobas 8000 system, CA2 assay
		Bicarbonate by Spectrophotometry	Roche Diagnostics cobas 8000 system, CO2-L assay
		Chloride by Potentiometry (Ion-Selective Electrode)	Roche Diagnostics cobas 8000 system, ISE indirect Na, K, Cl for Gen 2 assay

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香港新界元朗凹頭博愛醫院二樓臨床病理學部

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This laboratory is accredited for the performing examinations listed in the scope below.			
Chemical Pathology (cont'd)	General Chemistry (cont'd)  Plasma (cont'd)	Cholesterol by Spectrophotometry	Roche Diagnostics cobas 8000 system, CHOL2 assay
		Cholesterol, HDL by Spectrophotometry	Roche Diagnostics cobas 8000 system, HDL-C3 assay
		Cholesterol, LDL by Calculation	Calculated from Cholesterol, HDL Cholesterol and Triglycerides
		Cholesterol – non-HDL (high density lipoprotein) by Calculation	Calculated from Cholesterol and HDL Cholesterol
		Creatine Kinase (CK) by Spectrophotometry	Roche Diagnostics cobas 8000 system, CK (IFCC) assay
		Creatinine by Spectrophotometry	Roche Diagnostics cobas 8000 system, CREJ2 assay
	Serum	Fructosamine by Spectrophotometry	Roche Diagnostics cobas 8000 system, FRA assay
	Plasma	Gamma-Glutamyl Transferase (GGT) by Spectrophotometry	Roche Diagnostics cobas 8000 system, GGT-2 (IFCC) assay
		Globulin by Calculation	Calculated from plasma total protein and albumin
		Glomerular Filtration Rate (GFR), estimated by Calculation	Roche Diagnostics cobas 8000 system (calculated from creatinine assay)

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香港新界元朗凹頭博愛醫院二樓臨床病理學部

MEDICAL TESTING			
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This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	General Chemistry (cont'd)		
	CSF	Glucose, CSF by Spectrophotometry	Roche Diagnostics cobas 8000 system, GLU3 assay
	Fluoride plasma	Glucose, plasma by Spectrophotometry	Roche Diagnostics cobas 8000 system, GLU3 assay
	Plasma	Iron by Spectrophotometry	Roche Diagnostics cobas 8000 system, Iron2 assay
		Lactate Dehydrogenase (LDH) by Spectrophotometry	Roche Diagnostics cobas 8000 system, LDHI2 (IFCC) assay
	Serum	Osmolality Gap by Calculation	Calculated from serum osmolality, plasma sodium, plasma urea and plasma glucose
	Serum, urine	Osmolality by freezing point depression	Arkray Osmometer OM-6060
	Plasma	Phosphate by Spectrophotometry	Roche Diagnostics cobas 8000 system, PHOS2 assay

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香港新界元朗凹頭博愛醫院二樓臨床病理學部

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This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	General Chemistry (cont'd)		
	Plasma (cont'd)	Potassium by Potentiometry (Ion-Selective Electrode)	Roche Diagnostics cobas 8000 system, ISE indirect Na, K, Cl for Gen 2 assay
	CSF	Protein, Total by Spectrophotometry	Roche Diagnostics cobas 8000 system, TPUC3 assay
	Plasma	Protein, Total by Spectrophotometry	Roche Diagnostics cobas 8000 system, TP2 assay
		Sodium by Potentiometry (Ion-Selective Electrode)	Roche Diagnostics cobas 8000 system, ISE indirect Na, K, Cl for Gen 2 assay
		Total Iron Binding Capacity by Calculation	Calculated from plasma iron and UIBC
		Triglycerides by Spectrophotometry	Roche Diagnostics cobas 8000 system, TRIGL assay
	EDTA plasma	Troponin I by Immunoassay (Chemiluminescent label)	Abbott Architect i1000 SR system, STAT HS Troponin-I assay
	Plasma	Uric Acid by Spectrophotometry	Roche Diagnostics cobas 8000 system, UA2 assay
		Urea by Spectrophotometry	Roche Diagnostics cobas 8000 system, UREAL assay
		Unsaturated iron binding capacity by Spectrophotometry	Roche Diagnostics cobas 8000 system, UIBC assay
	Hormones Serum	Parathyroid Hormone by Immunoassay (Chemiluminescent Label)	Abbott Architect i1000SR system, Parathyroid Hormone assay

**Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology**

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香港新界元朗凹頭博愛醫院二樓臨床病理學部

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This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	Toxicology Serum	Ethanol by Spectrophotometry  Paracetamol (Acetaminophen) by Spectrophotometry  Salicylate by Spectrophotometry	Roche Diagnostics cobas 8000 system, ETOH2 assay  Roche Diagnostics cobas 8000 system, ACETA assay  Roche Diagnostics cobas 8000 system, SALI assay

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This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	Blood Bank – General EDTA whole blood	ABO and Rh(D) typing by Tile and tube method	Method as documented in LPTB0202
		ABO and Rh(D) typing by Red cell agglutination, automated	Automated system: LPTB0220 using Bio-Rad IH-1000
		Antibody screen by - Red cell agglutination, automated - Saline-Indirect antiglobulin test	Automated system: LPTB0220 using Bio-Rad IH-1000 Bio-Rad gel technique as documented in LPTB 0219
		Crossmatch by - Computer crossmatch - Immediate spin - NISS Indirect antiglobulin test - LISS Indirect antiglobulin test, manual - LISS Indirect antiglobulin test, automated	Method as documented in LPTB0107 Method as documented in LPTB0107 Method as documented in LPTB0206 Method as documented in LPTB0206 Automated system: LPTB0220 using Bio-Rad IH-1000
	Coagulation Citrate plasma	Coagulation studies including - Prothrombin Time (PT), automated - Activated partial thromboplastin time (APTT), automated	Automated system: ACL TOP 750 system
		Activated partial thromboplastin time (APTT) by Manual method	Method as documented in LP PH 0508
		Prothrombin time (PT)/INR by Manual method	Method as documented in LP PH 0508



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This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	Haematology – General		
	EDTA whole blood	Complete blood count (CBC) including <ul style="list-style-type: none"> <li>- White cell count</li> <li>- Red cell count</li> <li>- Haemoglobin</li> <li>- Haematocrit</li> <li>- Mean corpuscular volume</li> <li>- Mean corpuscular haemoglobin</li> <li>- Mean corpuscular haemoglobin concentration</li> <li>- Red cell distribution width</li> <li>- Platelet count</li> <li>- Mean platelet volume</li> <li>- WBC Differential count (DC) including <ul style="list-style-type: none"> <li>- Neutrophil count</li> <li>- Lymphocyte count</li> <li>- Monocyte count</li> <li>- Eosinophil count</li> <li>- Basophil count</li> </ul> </li> </ul>	Automated system: Beckman Coulter UniCel DxH800
	EDTA whole blood	Erythrocyte Sedimentation Rate (ESR) by Automated method	Alifax Test 1 system
	EDTA whole blood	Peripheral blood smear examination by <ul style="list-style-type: none"> <li>- Wright – Giemsa staining</li> </ul>	Aerospray Haematology Pro 7152 slide stainer Method as documented in LPTH 0405
		Reticulocyte count, automated by New Methylene Blue Staining	Automated system: Beckman Coulter UniCel DxH800
		Reticulocyte count, manual by New Methylene Blue Staining	Method as documented in LPTH 0406

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醫院管理局-屯門醫院臨床病理學部

Core Laboratory: Department of Clinical Pathology 9/F, Tin Shui Wai Hospital, 11 Tin Tan Street, Tin Shui Wai, N.T., H.K.  
香港新界天水圍天壇街 11 號天水圍醫院九樓病理學部

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This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology	Blood gases and Co-oximetry Heparinized whole blood	Blood Gas include:	
		- pCO <sub>2</sub> by Potentiometry (pCO <sub>2</sub> -Sensing Electrode)	Siemens RapidLab 1265 system
		- pH by Potentiometry (Ion-Selective Electrode)	Siemens RapidLab 1265 system
		- pO <sub>2</sub> by Polarography (Oxygen-Sensing Amperometric Electrode)	Siemens RapidLab 1265 system
		Carboxyhaemoglobin by Co-oximetry	Siemens RapidLab 1265 system
		Methaemoglobin by Co-oximetry	Siemens RapidLab 1265 system
	General Chemistry Plasma	Alanine Aminotransferase (ALT) by Spectrophotometry	Roche Diagnostics cobas 6000 system ALTLP (IFCC) assay
		Albumin by Spectrophotometry	Roche Diagnostics cobas 6000 system ALB2 BCG assay
		Alkaline Phosphatase (ALP) by Spectrophotometry	Roche Diagnostics cobas 6000 system ALP2 (IFCC) assay
		Amylase by Spectrophotometry	Roche Diagnostics cobas 6000 system AMYL2 (IFCC) assay
	Fluid, plasma		
	Plasma	Anion Gap by Calculation	Calculated from plasma sodium, chloride and bicarbonate
		Aspartate Aminotransferase (AST) by Spectrophotometry	Roche Diagnostics cobas 6000 system ASTLP (IFCC) assay

# Hospital Authority – Tuen Mun Hospital, Department of Clinical Pathology

醫院管理局-屯門醫院臨床病理學部

Core Laboratory: Department of Clinical Pathology 9/F, Tin Shui Wai Hospital, 11 Tin Tan Street, Tin Shui Wai, N.T., H.K.  
香港新界天水圍天壇街 11 號天水圍醫院九樓病理學部

MEDICAL TESTING			
DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations listed in the scope below.			
Chemical Pathology (cont'd)	General Chemistry (cont'd)		
	Plasma (cont'd)	Bicarbonate by Spectrophotometry	Roche Diagnostics cobas 6000 system CO2-L assay
		Bilirubin, Direct by Spectrophotometry	Roche Diagnostics cobas 6000 system BILD2 Diazo assay
		Bilirubin, Indirect by Calculation	Calculated from Bilirubin Total and Bilirubin Direct
		Bilirubin, Total by Spectrophotometry	Roche Diagnostics cobas 6000 system BILT3 Diazo assay
	Plasma	Calcium by Spectrophotometry	Roche Diagnostics cobas 6000 system CA2 assay
	Heparinized whole blood	Calcium, ionized by Potentiometry (Ion-Selective Electrode)	Siemens RapidLab 1265 system
	Plasma	Chloride by Potentiometry (Ion-Selective Electrode)	Roche Diagnostics cobas 6000 system ISE indirect Na, K, Cl for Gen2 assay
		Cholesterol by Spectrophotometry	Roche Diagnostics cobas 6000 system CHOL2 assay
		Cholesterol - high density lipoproteins (HDL) by Spectrophotometry	Roche Diagnostics cobas 6000 system HDL-C3 assay
		Cholesterol - low density lipoproteins (LDL) by Calculation	Calculated from Cholesterol, HDL Cholesterol and Triglycerides
		Cholesterol – non-HDL (high density lipoprotein) by Calculation	Calculated from Cholesterol and HDL Cholesterol

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Chemical Pathology (cont'd)	General Chemistry (cont'd)		
	Plasma (cont'd)	Creatine Kinase (CK) by Spectrophotometry	Roche Diagnostics cobas 6000 system CK2 (IFCC) assay
		Creatinine by Spectrophotometry	Roche Diagnostics cobas 6000 system CREJ2 assay
	Plasma	Gamma Glutamyl Transpeptidase (GGT) by Spectrophotometry	Roche Diagnostics cobas 6000 system GGT-2 (IFCC) assay
		Glomerular Filtration Rate (GFR), estimated by Calculation	Roche Diagnostics cobas 6000 system (calculated from creatinine using Modification of Diet in Renal Disease (MDRD) equation)
		Globulin by Calculation	Calculated from total Protein and Albumin
	CSF	Glucose by Spectrophotometry	Roche Diagnostics cobas 6000 system GLU3 assay
	Fluoride plasma	Glucose by Spectrophotometry	Roche Diagnostics cobas 6000 system GLU3 assay
	Plasma	Iron by Spectrophotometry	Roche Diagnostics cobas 6000 system Iron2 assay
		Lactate dehydrogenase (LDH) by Spectrophotometry	Roche Diagnostics cobas 6000 system LDH2 (IFCC) assay
	Serum, urine	Osmolality by Freezing point depression	Arkray Osmometer OM-6060
	Serum	Osmolality gap by Calculation	Calculated from plasma sodium, plasma glucose, serum osmolality and plasma urea

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Chemical Pathology (cont'd)	General Chemistry (cont'd) Plasma (cont'd)	Phosphate by Spectrophotometry	Roche Diagnostics cobas 6000 system PHOS2 assay
		Potassium by Potentiometry (Ion-Selective Electrode)	Roche Diagnostics cobas 6000 system ISE indirect Na, K, Cl for Gen2 assay
	CSF	Protein, Total by Spectrophotometry	Roche Diagnostics cobas 6000 system TPU3 assay
	Plasma	Protein, Total by Spectrophotometry	Roche Diagnostics cobas 6000 system TP2 assay
		Sodium by Potentiometry (Ion-Selective Electrode)	Roche Diagnostics cobas 6000 system ISE indirect Na, K, Cl for Gen2 assay
		Total iron binding capacity by Calculation	Calculated from plasma iron and UIBC
		Triglycerides by Spectrophotometry	Roche Diagnostics cobas 6000 system TRIGL assay
	EDTA plasma	Troponin I by Immunoassay (Chemiluminescent label)	Abbott Architect i2000SR system STAT HS Troponin I assay
		Urea by Spectrophotometry	Roche Diagnostics cobas 6000 system UREAL assay
		Uric acid by Spectrophotometry	Roche Diagnostics cobas 6000 system UA2 assay
		Unsaturated iron binding capacity by Spectrophotometry	Roche Diagnostics cobas 6000 system UIBC assay

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Chemical Pathology (cont'd)	Toxicology Serum	Acetaminophen (paracetamol) by Spectrophotometry  Ethanol by Spectrophotometry  Salicylate by Spectrophotometry	Roche Diagnostics cobas 6000 system ACETA assay  Roche Diagnostics cobas 6000 system ETOH2 assay  Roche Diagnostics cobas 6000 system SALI assay

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Haematology	Blood Bank – General EDTA whole blood	ABO and Rh(D) typing by Red cell agglutination	Method as documented in LPTB0202
		ABO and Rh(D) typing by Red cell agglutination, automated	Automated system: LPTB0220 using Bio-Rad IH-1000
		Antibody screen by - Red cell agglutination, automated - Saline-Indirect antiglobulin test	Automated system: LPTB0220 using Bio-Rad IH-1000 Bio-Rad gel technique as documented in LPTB0219
		Crossmatch by - Computer crossmatch - Immediate spin - NISS Indirect antiglobulin test - LISS Indirect antiglobulin test, manual	Method as documented in LPTB0107 Method as documented in LPTB0107 Method as documented in LPTB0206 Method as documented in LPTB0206
		- LISS Indirect antiglobulin test, automated	Automated system: LPTB0220 using Bio-Rad IH-1000

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Haematology (cont'd)	Coagulation Citrate plasma	Coagulation studies including - Prothrombin Time (PT) - Activated partial thromboplastin time (APTT)	Automated system: ACL TOP 750 system
	Haematology – General EDTA whole blood	Complete blood count including - White blood cell count (WBC) - Red blood cell count (RBC) - Haemoglobin (HGB) - Haematocrit (HCT) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Red cell distribution width (RDW) - Platelet count - Mean Platelet Volume (MPV) - Reticulocyte count - WBC differential count	Automated Haematology systems: Beckman Coulter DxH800
	Citrated whole blood	Erythrocyte Sedimentation Rate (ESR) by Automated method	Diesse Vesmatic 30 ESR Analyser
	EDTA whole blood	Peripheral blood smear examination by Wright – Giemsa staining	Aerospray Haematology Stat 7122 Slide Stainer