



**Hospital Authority - Caritas Medical Centre, Department of Clinical Pathology**  
醫院管理局-明愛醫院病理科學部

**ADDRESS** : 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong  
**地址** : 香港九龍深水埗永康街 111 號

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

**Hospital Authority - Caritas Medical Centre, Department of Clinical Pathology**

醫院管理局-明愛醫院病理科學部

- ADDRESS** : 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong  
**地址** 香港九龍深水埗永康街 111 號
- (i) Histopathology & Cytopathology Laboratory, 12/F, Wai Oi Block  
(ii) Core Laboratory (Chemical Pathology, Hematology and Blood Bank), 8A, Wai Shun Block  
(iii) Mortuary, LG5, Wai Ming Block
- LABORATORY DIRECTOR** : **Pathologist Director 病理學主管:**  
**化驗所主管** Dr LO Yan-fai  
盧恩輝醫生  
MBChB, FRCPA, FHKCPath, FHKAM (Pathology)
- PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE** : Anatomical Pathology 解剖病理學  
**負責認可範疇的病理學專科醫生** Dr LO Yan-fai 盧恩輝醫生 (Full-time 全職)
- Chemical Pathology 化學病理學  
Dr Nike LAU Kwai-cheung 劉桂璋醫生 (Consulting 諮詢)
- Haematology 血液學  
Dr Kate LEUNG Fung-shan 梁鳳珊醫生 (Consulting 諮詢)
- Medical Genetics (Molecular Genetics) 醫學遺傳學 (分子遺傳學)  
Dr LO Yan-fai 盧恩輝醫生 (Full-time 全職)
- ACCREDITED TEST CATEGORY** : **Medical Testing 醫務化驗**  
**認可測試類別** Anatomical Pathology 解剖病理學  
Chemical Pathology 化學病理學  
Haematology 血液學  
Medical Genetics (Molecular Genetics) 醫學遺傳學 (分子遺傳學)

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<b>MEDICAL TESTING</b>			
<b>DISCIPLINE</b> 專科範疇	<b>TEST AREA</b> <b>OR SAMPLE TYPE</b> 測試範圍或樣本種類	<b>SPECIFIC EXAMINATION OR</b> <b>PROPERTY MEASURED</b> 特定測試或量度的特性	<b>METHOD</b> <b>OR TECHNIQUE USED</b> 方法或應用技術
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<b>Anatomical Pathology</b>	<b>Cytopathology</b> Fine needle aspiration	Fine needle aspiration cytology examination by H&E and Papanicolaou staining	Specimen preparation and routine staining (automated method): Method as documented in WI-CYT-FNA-PROCE and WI-CYT-STA-PROCE  Haematoxylin and Eosin stain Papanicolaou stain
	Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Specimen preparation and routine staining (automated method): ThinPrep + Papanicolaou stain Method as documented in WI-CYT-SPE-REGIS, WI-CYT-STA-PROCE, and WI-CYT-SPE-THINP
	Non-gynaecological specimens	Non-gynaecological cytology examination by H&E, Papanicolaou and special staining	Specimen preparation and routine staining (automated method): Haematoxylin and Eosin stain Papanicolaou stain  Method as documented in WI-CYT-SPE-REGIS, WI-CYT-NGN-PUTUP and WI-CYT-STA-PROCE  Special staining (manual method): Diff Quik stain Ziehl-Neelsen stain Grocott's Methenamine silver  Method as documented in WI-CYT-STA-PROCE and WI-ANP-STA-SPECI

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Anatomical Pathology (cont'd)	Histopathology Surgical pathology	Histology examination by H&E and special staining	<p>Specimen preparation as documented in            WI-ANP-SPE-RECPT, WI-ANP-CUT-BIOPS,            WI-ANP-CUT-MISCE, WI-ANP-CUT-SURGI,            WI-ANP-TIS-OPERA, WI-ANP-EMB-BLOCK and            WI-ANP-SEC-BLOCK</p> <p>H&amp;E staining (automated method)</p> <p>Special Staining (manual method): Method as documented            in WI-ANP-STA-SPECI</p> <p>Acid fast bacilli by Ziehl Neelsen            Acidic mucins by Alcian blue (pH 2.5)            Acidic &amp; neutral mucins by Alcian Blue/ PAS            Amyloid by Crystal violet (Hucker &amp; Conn)            Amyloid by Congo Red            Argyrophil cells by Grimelius silver method            Basement membrane by Periodic Acid Silver            Methanamine (PASM)            Calcium deposits by Alizarin red S            Calcium salts by von Kossa            Collagen and muscle by Masson trichrome            Connective tissue by van Gieson Stain            Copper by Rhodanine technique            Elastic fibre by Millers elastic Stain            Fibrin by Martius yellow-Brilliant Crystal            Scarlet-S-soluble blue            Fungi by Grocott hexamine silver            Glycol groups by Periodic acid-Schiff (PAS)            Gram positive and negative bacteria by Gram            Technique            Haemosiderin by Perl's Prussian blue            Hepatitis B antigens by Shikata's Orcein technique            Histological architecture by Haematoxylin &amp; Eosin            Hyaluronidase digestion of Mucins by Alcian blue            Mast cells by chloroacetate esterase            Melanin by Schmorl +/- bleaching            Melanin by Masson Fontana            Mucin by Southgate's mucicarmine            Mycobacteria (<i>M. leprae</i>) by Wade Fite</p>

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<b>Anatomical Pathology</b> (cont'd)	<b>Histopathology</b> (cont'd) Surgical pathology (cont'd)  Intra-operative frozen section for fresh tissue specimens and biopsies  Fresh tissue specimens and biopsies; special specimens  Renal and skin biopsies  Histological specimens	Histology examination by H&E and special staining (cont'd)  Histology examination by H&E and special staining  Histology examination and enzyme histochemistry by special staining  Immunofluorescence examination by Manual method  Immunohistochemical examination for various antigen markers by automatic method	Special staining (manual method) (cont'd): Periodate reactive carbohydrates by PAS with $\alpha$ -amylase digestion (PASD) Reticulin by Gordon & Sweet's technique Spirochetes by Warthin-Sary's Silver Unsaturated hydrophobic lipid by Oil red O Urate by Hexamine silver technique  Specimen preparation and H&E staining (manual) as documented in WI-ANP-UFS-FROZS  Specimen preparation and staining: Method as documented in WI-ANP-MUS-BIOPS  For muscle biopsies: ATPase pH 4.2, ATPase pH 4.6, ATPase pH 9.4 NADH-Tetrazolium Reductase Gomori's Modified Trichrome  Specimen preparation and staining: IgA / IgM / IgG / Fibrinogen / Complement 3/ C1q by Direct Immunofluorescence Method Method as documented in WI-ANP-IMF-PROCE  Slide preparation and staining (automatic method): as documented in WI-ANP-IHC-PROCE  Antigen retrieval : Enzymatic digestion or heat-induced epitope retrieval  Detection system: multimer detection

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Medical Genetics	Molecular Genetics (anatomical pathology) Tissue specimens	Epstein-Barr Virus Early RNA(EBV EBER) by In-situ Hybridization (ISH)	Method as documented in Section 1 of WI-ANP-ISH-PROCE

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Mortuary: LG5, Wai Ming Block, Caritas Medical Centre, 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong  
 香港九龍深水埗永康街 111 號明愛醫院懷明樓 LG5

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Anatomical Pathology	Autopsy Adult, fetal and pediatric autopsy	Autopsy examination by routine and special staining	Autopsy method and specimen preparation Method & Staining as documented in: WI-MOR-AUT-ROAAU WI-MOR-AUT-ROAAC WI-MOR-AUT-PAEDA WI-MOR-AUT-PAEDC WI-MOR-AUT-SPECA WI-MOR-AUT-SPECC  Routine and special staining in Histopathology: WI-ANP-STA-SPECI

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香港九龍深水埗永康街 111 號明愛醫院懷信樓 8A

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Chemical Pathology	<b>Blood gases and Co-oximetry (24 hours)</b> Heparinized whole blood	Blood Gas include: pCO <sub>2</sub> by Potentiometry (pCO <sub>2</sub> -Sensing Electrode)	Radiometer ABL90 Flex Blood Gas Analyser	
		pH by Potentiometry	Radiometer ABL90 Flex Blood Gas Analyser	
		pO <sub>2</sub> by Optical system to detect intensity changes of the phosphorescent dye	Radiometer ABL90 Flex Blood Gas Analyser	
		Base Excess by calculation	Radiometer ABL90 Flex Blood Gas Analyser	
		Bicarbonate by Co-oximetry	Radiometer ABL90 Flex Blood Gas Analyser	
		O <sub>2</sub> Saturation by Co-oximetry	Radiometer ABL90 Flex Blood Gas Analyser	
		Carboxyhaemoglobin by Co-oximetry	Radiometer ABL90 Flex Blood Gas Analyser	
		Methaemoglobin by Co-oximetry	Radiometer ABL90 Flex Blood Gas Analyser	
		<b>General Chemistry (24 hours)</b> Plasma, urine	Osmolality by Freezing Point Depression	Arkray Osmostation OM-6060
		Fluid (Pleural)	pH by Potentiometry (Ion Selective Electrode)	Radiometer ABL90 Flex Blood Gas Analyser
Plasma	Troponin I by Immunoassay (Enzyme-based label)	Beckman DXI-800, hsTNI assay Method as documented in WI-CCP-TSM-HSTNI		



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Chemical Pathology (cont'd)	General Chemistry (24 hours) (cont'd) Plasma, heparin	Alanine Aminotransferase (ALT) by Spectrophotometry	Roche Cobas c8000 ALT assay Method as documented in WI-CCP-TSM-P_ALT
		Albumin by Spectrophotometry	Roche Cobas c8000 Albumin assay Method as documented in WI-CCP-TSM-P_ALB
		Alkaline Phosphatase (ALP) by Spectrophotometry	Roche Cobas c8000 ALP assay Method as documented in WI-CCP-TSM-P_ALP
		Amylase by Spectrophotometry	Roche Cobas c8000 Amylase assay Method as documented in WI-CCP-TSM-P_AMY
		Aspartate Aminotransferase (AST) by Spectrophotometry	Roche Cobas c8000 AST assay Method as documented in WI-CCP-TSM-P_AST
		Bilirubin, Direct by Spectrophotometry	Roche Cobas c8000 Direct bilirubin assay Method as documented in WI-CCP-TSM-P_DBI
		Bilirubin, Neonatal by Spectrophotometry	Roche Cobas c8000 Total bilirubin assay Method as documented in WI-CCP-TSM-P_TBI
		Bilirubin, Total by Spectrophotometry	Roche Cobas c8000 Total bilirubin assay Method as documented in WI-CCP-TSM-P_TBI
		Calcium by Spectrophotometry	Roche Cobas c8000 Calcium assay Method as documented in WI-CCP-TSM-P_CAL
		Chloride by Potentiometry (Indirect Ion Selective Electrode)	Roche Cobas c8000 ISE assay Method as documented in WI-CCP-TSM-P_CHL
		Cholesterol by Spectrophotometry	Roche Cobas c8000 cholesterol assay Method as documented in WI-CCP-TSM-P_CHO

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<b>Chemical Pathology</b> (cont'd)	<b>General Chemistry</b> (24 hours) (cont'd) Plasma, heparin (cont'd)	High Density Cholesterol, (HDL-C) by Spectrophotometry (Direct measurement)	Roche Cobas c8000 HDL assay Method as documented in WI-CCP-TSM-P_HDL
		Creatine kinase (CK) by Spectrophotometry	Roche Cobas c8000 CK assay Method as documented in WI-CCP-TSM-P_CPK
		Creatinine by Spectrophotometry	Roche Cobas c8000 creatinine assay Method as documented in WI-CCP-TSM-P_CRE
		Gamma Glutamyl Transferase (GGT) by Spectrophotometry	Roche Cobas c8000 GGT assay Method as documented in WI-CCP-TSM-P_GGT
		Lactate dehydrogenase (LDH) by Spectrophotometry	Roche Cobas c8000 LDH assay Method as documented in WI-CCP-TSM-P_LDH
		Magnesium by Spectrophotometry	Roche Cobas c8000 magnesium assay Method as documented in WI-CCP-TSM-P_MAG
		Phosphate by Spectrophotometry	Roche Cobas c8000 phosphate assay Method as documented in WI-CCP-TSM-P_PO4
		Potassium by Potentiometry (Indirect Ion Selective Electrode)	Roche Cobas c8000 ISE assay Method as documented in WI-CCP-TSM-P_POT
		Protein, Total by Spectrophotometry	Roche Cobas c8000 total protein assay Method as documented in WI-CCP-TSM-P_TPR
		Sodium by Potentiometry (Indirect Ion Selective Electrode)	Roche Cobas c8000 ISE assay Method as documented in WI-CCP-TSM-P_SOD
		Triglyceride by Spectrophotometry	Roche Cobas c8000 triglyceride assay Method as documented in WI-CCP-TSM-P_TRI

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<b>Chemical Pathology</b> (cont'd)	<b>General Chemistry</b> (24 hours) (cont'd) Plasma, heparin (cont'd)	Urate by Spectrophotometry	Roche Cobas c8000 urate assay Method as documented in WI-CCP-TSM-P_URA
		Urea by Spectrophotometry	Roche Cobas c8000 urea assay Method as documented in WI-CCP-TSM-P_URE
		Ammonia by Spectrophotometry	Roche Cobas c8000 NH <sub>3</sub> assay Method as documented in WI-CCP-TSM-P_AMM
		Glucose by Spectrophotometry	Roche Cobas c8000 glucose assay Method as documented in WI-CCP-TSM-P_GLU
		Lactate by Spectrophotometry	Roche Cobas c8000 lactate assay Method as documented in WI-CCP-TSM-P_LAC
		Iron by Spectrophotometry	Roche Cobas c8000 iron assay Method as documented in WI-CCP-TSM-P_TFE
		Unsaturated Iron Binding Capacity (UIBC) by Spectrophotometry	Roche Cobas c8000 UIBC assay Method as documented in WI-CCP-TSM-P_TIB
	<b>Toxicology (24 hours)</b> Plasma, heparin	Paracetamol by Spectrophotometry	Roche Cobas c8000 acetaminophen assay Method as documented in WI-CCP-TSM-P_PAR
		Salicylates by Spectrophotometry	Roche Cobas c8000 salicylates assay Method as documented in WI-CCP-TSM-P_SAL
	<b>Urine Chemistry</b> (Spot or 24 hours) Urine	Calcium by Spectrophotometry	Roche Cobas c8000 Calcium assay Method as documented in WI-CCP-TSM-U_CAL

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<b>Chemical Pathology</b> (cont'd)	<b>Urine Chemistry</b> (Spot or 24 hours) (cont'd) Urine (cont'd)	Chloride by Potentiometry (Indirect Ion Selective Electrode)	Roche Cobas c8000 ISE assay Method as documented in WI-CCP-TSM- U_CHL
		Creatinine by Spectrophotometry	Roche Cobas c8000 creatinine assay Method as documented in WI-CCP-TSM- U_CRE
		Microalbumin / Creatinine ratio by Calculation	Roche Cobas c8000 Albumin assay Method as documented in WI-CCP-TSM- U_ALB
		Potassium by Potentiometry (Indirect Ion Selective Electrode)	Roche Cobas c8000 ISE assay Method as documented in WI-CCP-TSM- U_POT
		Protein, Total by Spectrophotometry	Roche Cobas c8000 urine total protein assay Method as documented in WI-CCP-TSM- U_UTP
		Protein / Creatinine ratio by Calculation	Roche Cobas c8000 urine total protein assay Method as documented in WI-CCP-TSM- U_UTP
		Sodium by Potentiometry (Indirect Ion Selective Electrode)	Roche Cobas c8000 ISE assay Method as documented in WI-CCP-TSM- U_SOD
		Urea by Spectrophotometry	Roche Cobas c8000 urea assay Method as documented in WI-CCP-TSM- U_URE
		Creatinine clearance by Calculation	Roche Cobas c8000 creatinine assay Method as documented in WI-CCP-TSM- U_CRE
		Microalbumin by Immunoturbidimetry	Roche Cobas c8000 Albumin assay Method as documented in WI-CCP-TSM- U_ALB

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<b>Chemical Pathology</b> (cont'd)	<b>CSF Chemistry (24 hours)</b> CSF	Glucose by Spectrophotometry	Roche Cobas c8000 glucose assay Method as documented in WI-CCP-TSM-CSF_G	
		Protein, Total by Spectrophotometry	Roche Cobas c8000 Urine total protein assay Method as documented in WI-CCP-TSM-CSF_P	
	<b>Hormones</b> (Normal office hours) Serum	Thyroid stimulating hormone (TSH) by Immunoassay (Enzyme-based label)	Beckman DXI-800, hypersensitive hTSH	
		Thyroxine, Free (FT4) by Immunoassay (Enzyme-based label)	Beckman DXI-800, Free T4	
		Tri-iodothyronine, Free (FT3) by Immunoassay (Enzyme-based label)	Beckman DXI-800, Free T3	
	<b>Special Chemistry</b> (Normal office hours)	EDTA whole blood	Haemoglobin A1c (HbA1c) by Immunoturbidimetry	Roche Cobas C513, Tina-quant Hemoglobin A1cDx Gen.3
		Faeces	Occult blood by Guaiac (Chemical) Test	Seracult Plus
		Serum	Folate by Immunoassay (Chemiluminescent label)	Beckman DXI-800, Folate
			Vitamin B12 by Immunoassay (Chemiluminescent label)	Beckman DXI-800, Vitamin B12

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Haematology	<b>Blood Bank – General (24 hours)</b> EDTA blood	ABO and Rh (D) typing by Red cell agglutination	Bio-rad gel card using Bio-rad IH-1000 and manual method Method as documented in WI-BBK-SOP-T0030 Method as documented in WI-BBK-SOP-T0029
		Antibody screening by Indirect antiglobulin test	Bio-rad gel card using Bio-rad IH-1000 and manual method by Bio-rad gel card Method as documented in WI-BBK-SOP-T0030
		Crossmatching by -Indirect antiglobulin test -Electronic cross-match -Saline-Indirect antiglobulin test	Bio-rad gel card using Bio-rad IH-1000 and manual method by Bio-rad gel card Method as documented in WI-BBK-SOP-T0030 Method as documented in WI-BBK-SOP-T0005 Method as documented in WI-BBK-SOP-T0028
	<b>Blood Bank – Immunohaematology (Normal office hours)</b> EDTA Blood	Direct antiglobulin test (DAT) by Red cell agglutination	Bio-rad gel card using Bio-rad IH-1000 Method as documented in WI-BBK-SOOP-T0022
		Indirect antiglobulin test by Red cell agglutination	Bio-rad gel card using Bio-rad IH-1000 and manual method by Bio-rad gel card Method as documented in WI-BBK-SOP-T0030
	<b>Blood Bank – Special (24 hours)</b> EDTA blood	Transfusion reaction including - ABO and Rh(D) typing - Antibody screening - Crossmatching - Direct antiglobulin test	Bio-rad gel card using Bio-rad IH-1000 and manual method by Bio-rad gel card Method as documented in WI-BBK-SOP-T0011
	<b>Coagulation (24 hours)</b> Citrate blood	Coagulation studies, automated including - Prothrombin Time (PT) - Activated partial thromboplastin time (APTT)	ACL TOP 550 coagulation analyser Method as documented in WI-HAE-COA-W0004

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<b>MEDICAL TESTING</b>			
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Haematology (cont'd)	Haematology - General (24 hours) EDTA whole blood	Complete blood count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Platelet count - Red cell count - Red cell distribution width (RDW) - Leucocyte differential count by automated method	Sysmex XN-3000 and Sysmex XN-1000 Method as documented in WI-HAE-HGN-E0010
		Leucocyte differential count by manual method	Hematek stain machine or Manual method as documented in WI-HAE-HGN-E0003 Manual method as documented in WI-HAE-HGN-P005
		Malaria parasite examination by Thick and thin films	Manual method as documented in WI-HAE-HGN-P008 documented in WI-HAE-HGN-P0010
		Peripheral blood smear examination by Wright – Giemsa stain	Hematek stain machine or manual method as documented in WI-HAE-HGN-E0003
		May-Grunwald Giemsa Stain	Leica ST 4020 stain machine or manual method as documented in WI-HAE-HGN-P0005

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<b>MEDICAL TESTING</b>			
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Haematology (cont'd)	Haematology - Special (Normal office hours) EDTA bone marrow aspirate	Bone Marrow Examination : Marrow smear by May-Grunwald-Giemsa and Perl's Prussian Blue stain	Specimen preparation and staining as documented in WI-HAE-HGN-P0003 and WI-HAE-HGN-P0009 using Leica ST 4020 stain machine
	EDTA whole blood	Glucose-6-phosphate dehydrogenase (G6PD) screening by Fluorescence test	Method as documented in WI-HAE-HSP-PM002
	EDTA bone marrow aspirate	Peripheral blood smear by May-Grunwald-Giemsa	Specimen preparation and staining as documented in WI-HAE-HSP-PM001