

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

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ADDRESS 地址	: 111 Wing Hong Street, Shamshuipo, Kowloon, Hong Kong 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) Autopsy Service, LG5, Wai Ming Block		
LABORATORY DIRECTOR 化驗所主管	: Pathologist Director 病理學主管: Dr LO Yan-fai 盧恩輝醫生 MBChB, FRCPA, FHKCPath, FHKAM (Pathology)		
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 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 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 Haematology 血液學 Medical Genetics (Molecular Genetics) 醫學遺傳學 (分子遺傳學)		

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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
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	Cytopathology 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&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 & neutral mucins by Alcian Blue/ PAS Amyloid by Crystal violet (Hucker & 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 & 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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Anatomical Pathology (cont'd)	Histopathology (cont'd) Surgical pathology (cont'd)	Histology examination by H&E and special staining (cont'd)	Special staining (manual method) (cont'd): Periodate reactive carbohydrates by PAS with α -amylase digestion (PASD) Reticulin by Gordon & Sweet's technique Spirochetes by Warthin–Starry's Silver Unsaturated hydrophobic lipid by Oil red O Urate by Hexamine silver technique
	Intra-operative frozen section for fresh tissue specimens and biopsies	Histology examination by H&E and special staining	Specimen preparation and H&E staining (manual) as documented in WI-ANP-UFS-FROZS
	Fresh tissue specimens and biopsies; special specimens	Histology examination and enzyme histochemistry by special staining	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
	Renal and skin biopsies	Immunofluorescence examination by Manual method	Specimen preparation and staining: IgA / IgM / IgG / Fibrinogen / Complement 3/ C1q by Direct Immunofluorescence Method Method as documented in WI-ANP-IMF-PROCE
	Histological specimens	Immunohistochemical examination for various antigen markers by automatic method	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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Autopsy Service: 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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Chemical Pathology	Blood gases and Co-oximetry Heparinized whole blood	Blood Gas include: pCO ₂ by Potentiometry	Radiometer ABL90 Flex Plus Blood Gas Analyzer
		pH by Potentiometry	Radiometer ABL90 Flex Plus Blood Gas Analyzer
		pO ₂ by Optical system for pO ₂	Radiometer ABL90 Flex Plus Blood Gas Analyzer
		Base Excess by Auto calculation	Radiometer ABL90 Flex Plus Blood Gas Analyzer
		Bicarbonate by Auto calculation	Radiometer ABL90 Flex Plus Blood Gas Analyzer
		O ₂ Saturation by Auto calculation	Radiometer ABL90 Flex Plus Blood Gas Analyzer
		Carboxyhaemoglobin by Co-oximetry	Radiometer ABL90 Flex Plus Blood Gas Analyzer
		Ionized Calcium by Potentiometry	Radiometer ABL90 Flex Plus Blood Gas Analyzer
		Methaemoglobin by Co-oximetry	Radiometer ABL90 Flex Plus Blood Gas Analyzer

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Chemical Pathology (cont'd)	General Chemistry (24 hours) 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
	Plasma, EDTA	Ammonia by Spectrophotometry	Roche Cobas c8000 NH3 assay Method as documented in WI-CCP-TSM-P_AMM
	Plasma, heparin	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

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Chemical Pathology (cont'd)	General Chemistry (24 hours) (cont'd) Plasma, heparin (cont'd)	Cholesterol by Spectrophotometry	Roche Cobas c8000 cholesterol assay Method as documented in WI-CCP-TSM-P_CHO
		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
	Plasma, fluoride	Glucose by Spectrophotometry	Roche Cobas c8000 glucose assay Method as documented in WI-CCP-TSM-P_GLU
	CSF	Glucose by Spectrophotometry	Roche Cobas c8000 glucose assay Method as documented in WI-CCP-TSM-CSF_G
	Serum, clotted blood	Iron by Spectrophotometry	Roche Cobas c8000 iron assay Method as documented in WI-CCP-TSM-P_TFE
	Plasma, heparin	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
	Plasma, urine	Osmolality by Freezing Point Depression	Arkray Osmostation OM-6060

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Chemical Pathology (cont'd)	General Chemistry (24 hours) (cont'd)		
	Fluid (Pleural)	pH by Potentiometry (Ion Selective Electrode)	Radiometer ABL90 Flex Blood Gas Analyser
	Plasma, heparin	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
	CSF	Protein, Total by Spectrophotometry	Roche Cobas c8000 Urine total protein assay Method as documented in WI-CCP-TSM- CSF_P
		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
	Plasma	Troponin I by Immunoassay (Enzyme-based label)	Beckman DXI-800, hsTNI assay Method as documented in WI-CCP-TSM-HSTNI
	Plasma, heparin	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

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Chemical Pathology (cont'd)	General Chemistry (24 hours) (cont'd)		
	Plasma, heparin (cont'd)	Lactate by Spectrophotometry	Roche Cobas c8000 lactate assay Method as documented in WI-CCP-TSM-P_LAC
	Serum, clotted blood	Unsaturated Iron Binding Capacity (UIBC) by Spectrophotometry	Roche Cobas c8000 UIBC assay Method as documented in WI-CCP-TSM-P_TIB
	Toxicology (24 hours)		
	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
	Urine Chemistry (Spot or 24 hours)		
	Urine	Calcium by Spectrophotometry	Roche Cobas c8000 Calcium assay Method as documented in WI-CCP-TSM-U_CAL
		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

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Chemical Pathology (cont'd)	Urine Chemistry (Spot or 24 hours) (cont'd) Urine (cont'd)	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
	Hormones (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

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Chemical Pathology (cont'd)	Special Chemistry (Normal office hours) EDTA whole blood	Haemoglobin A1c (HbA1c) by Immunoturbidimetry	Roche Cobas C513, Tina-quant Hemoglobin A1cDx Gen.3
	Stool	Occult blood by Guaiaac (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	Blood Bank – General (24 hours) EDTA blood	ABO and Rh (D) typing by Red cell agglutination Antibody screening by Indirect antiglobulin test Crossmatching by -Indirect antiglobulin test -Electronic cross-match -Saline-Indirect antiglobulin test	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 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 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
	Blood Bank – Immunohaematology (Normal office hours) EDTA Blood	Direct antiglobulin test (DAT) by Red cell agglutination Indirect antiglobulin test by Red cell agglutination	Bio-rad gel card using Bio-rad IH-1000 Method as documented in WI-BBK-SOOP-T0022 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
	Blood Bank – Special (24 hours) 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
	Coagulation (24 hours) 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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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)	Haematology - General (24 hours) EDTA whole blood	<p>Complete blood count including</p> <ul style="list-style-type: none"> - 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 <p>Leucocyte differential count by manual method</p> <p>Malaria parasite examination by Thick and thin films</p> <p>Peripheral blood smear examination by Wright – Giemsa stain</p> <p>May-Grunwald Giemsa Stain</p>	<p>Sysmex XN-3000 and Sysmex XN-1000 Method as documented in WI-HAE-HGN-E0010</p> <p>Hematek stain machine or Manual method as documented in WI-HAE-HGN-E0003 Manual method as documented in WI-HAE-HGN-P005</p> <p>Manual method as documented in WI-HAE-HGN-P008 documented in WI-HAE-HGN-P0010</p> <p>Hematek stain machine or manual method as documented in WI-HAE-HGN-E0003</p> <p>Leica ST 4020 stain machine or manual method as documented in WI-HAE-HGN-P0005</p>

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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