



**CUHK Medical Centre – Department of Pathology**

香港中文大學醫院 – 病理學部

<b>ADDRESS</b> 地址	: Level 3, CUHK Medical Centre, 9 Chak Cheung Street, Shatin, New Territories, Hong Kong 香港新界沙田澤祥街9號香港中文大學醫院3樓
<b>ENQUIRY</b> 查詢	: Mr SIU Long-kei 蕭朗基先生
<b>TELEPHONE</b> 電話	: 3946 6453
<b>FAX</b> 傳真	: 3504 3651
<b>E-MAIL</b> 電郵	: keilksiu@cuhkmc.hk
<b>WEBSITE ADDRESS</b> 網址	: <a href="https://www.cuhkmc.hk/">https://www.cuhkmc.hk/</a>
<b>CLIENTELE</b> 服務對象	: Private physicians, medical centres, private and public hospitals and other medically related institutions 私家醫生，醫療中心，私營及公營醫院和醫療有關的機構



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**LABORATORY DIRECTOR** : **Pathologist Director 病理學主管:**  
**化驗所主管** Dr IP Yiu-tung  
葉耀東醫生  
MB ChB (CUHK), FHKCPath, FHKAM (Pathology)

**PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE** : Anatomical Pathology 解剖病理學  
Dr IP Yiu-tung 葉耀東醫生 (Full-time 全職)  
**負責認可範疇的病理學專科醫生**

**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  
Clinical Microbiology and Infection 臨床微生物學及傳染病  
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	<b>Cytopathology</b> Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Specimen preparation and routine staining (both automated and manual) for: ThinPrep + Papanicolaou staining Method as documented in PAT-APS-022-P and PAT-APS-023-P Manual screening: Method as documented in PAT-APS-010-A
	Non-gynaecological specimens	Non-gynaecological cytology examination by H&E and Papanicolaou staining	Specimen preparation and routine staining of Haematoxylin and Eosin stain, and Papanicolaou stain (both automated and manual method): Method as documented in PAT-APS-022-P and PAT-APS-023-P Manual screening: Method as documented in PAT-APS-010-A
	<b>Histopathology</b> Surgical pathology and cytological specimens	Histology examination by H&E staining	Specimen preparation, with Haematoxylin and Eosin staining: Method as documented in PAT-APS-007-A, PAT-APS-003-P, PAT-APS-007-P, PAT-APS-012-P, PAT-APS-014-P, PAT-APS-016-P, PAT-APS-017-P, PAT-APS-019-P, and PAT-APS-025-P
	Intra-operative frozen section for fresh tissue specimens and biopsies	Histology examination by H&E staining	Specimen preparation and Haematoxylin and Eosin staining: Method as documented in PAT-APS-009-P

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Chemical Pathology	General Chemistry Plasma	Alanine aminotransferase (ALT) by Spectrophotometry	Roche cobas c503 system, ALTP2 assay
		Albumin by Spectrophotometry	Roche cobas c503 system, Albumin BCP assay
		Albumin/Globulin Ratio by Calculation	Roche cobas c503 system (calculated from Albumin and Globulin)
		Albumin adjusted calcium by Calculation	Roche cobas c503 system (calculated from Albumin and Calcium)
		Alkaline phosphatase (ALP) by Spectrophotometry	Roche cobas c503 system, ALP2 assay
		Aspartate aminotransferase (AST) by Spectrophotometry	Roche cobas c503 system, ASTP2 assay
		Bicarbonate by Spectrophotometry	Roche cobas c503 system, CO2-L assay
		Bilirubin, Total by Spectrophotometry	Roche cobas c503 system, BILT3 assay
		Bilirubin, Direct by Spectrophotometry	Roche cobas c503 system, BILD2 assay
		Bilirubin, Indirect by Calculation	Roche cobas c503 system (calculated from Bilirubin, Total and Bilirubin, Direct)
		Calcium by Spectrophotometry	Roche cobas c503 system, CA2 assay
		Chloride by Potentiometry (Indirect Ion Selective Electrode)	Roche cobas c503 system, ISE Indirect Na-K-Cl
		Cholesterol, Total by Spectrophotometry	Roche cobas c503 system, CHOL2 assay

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Chemical Pathology (cont'd)	General Chemistry (cont'd) Plasma (cont'd)	Cholesterol, high density lipoproteins (HDL) by Spectrophotometry	Roche cobas c503system, HDLC4 assay
		Cholesterol, low density lipoproteins (LDL) by Spectrophotometry	Roche cobas c503 system, LDLC3 assay
		Cholesterol, non-high density lipoproteins (non-HDL) by Calculation	Roche cobas c503 system (calculated from Cholesterol and HDL-Cholesterol)
		Cholesterol: HDL-Cholesterol ratio by Calculation	Roche cobas c503 system (calculated from Cholesterol and HDL-Cholesterol)
		Creatinine by Spectrophotometry	Roche cobas c503 system, CREJ2 assay
		Estimated Glomerular Filtration Rate (eGFR) by Calculation	Roche cobas c503 system (calculated from Creatinine using Chronic Kidney Disease Epidemiology Collaboration (CKD-EPI) Formula)
		Gamma-Glutamyl Transferase (GGT) by Spectrophotometry	Roche cobas c503 system, GGT-2 assay
		Globulin by Calculation	Roche cobas c503 system (calculated from Total Protein and Albumin)
	Fluoride plasma	Glucose by Spectrophotometry	Roche cobas c503 system, GLUC3 assay
	Plasma	Phosphate, Inorganic by Spectrophotometry	Roche cobas c503 system, PHOS2 assay
		Potassium by Potentiometry (Indirect Ion-Selective Electrode)	Roche cobas c503 system, ISE Indirect Na-K-Cl
		Protein, Total by Spectrophotometry	Roche cobas c503 system, TP2 assay

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Chemical Pathology (cont'd)	General Chemistry (cont'd) Plasma (cont'd)	Sodium by Potentiometry (Indirect Ion-Selective Electrode)	Roche cobas c503 system, ISE Indirect Na-K-Cl
		Triglycerides by Spectrophotometry	Roche cobas c503 system, TRIGL assay
		Urea by Spectrophotometry	Roche cobas c503 system, UREAL assay
		Uric Acid by Spectrophotometry	Roche cobas c503 system, UA2 assay
		Troponin T, high sensitive (hs-TNT) by Immunoassay (Chemiluminescent label)	Roche cobas e801 system, Troponin T hs assay
	Urine	Albumin by Immunoturbidimetry	Roche cobas c503 system, ALBT2 assay
		Creatinine by Spectrophotometry	Roche cobas c503 system, CREJ2 assay
		Protein, Total by Spectrophotometry	Roche cobas c503 system, TPUC3 assay
		Urine Albumin/Creatinine Ratio by Calculation	Roche cobas c503 system (calculated from Urine Albumin and Urine Creatinine)
		Urine Protein/Creatinine Ratio by Calculation	Roche cobas c503 system (calculated from Urine Protein and urine Creatinine)

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Chemical Pathology (cont'd)	<b>Hormones</b> Serum	Thyroxine, Free (FT4) by Immunoassay (Chemiluminescent label)	Roche cobas e801 system, FT4 IV assay
		Thyroid stimulating hormone (TSH) by Immunoassay (Chemiluminescent label)	Roche cobas e801 system, TSH assay
		Triiodothyronine, Free (FT3) by Immunoassay (Chemiluminescent label)	Roche cobas e801 system, FT3 III assay
	<b>Special Chemistry</b> EDTA whole blood	Haemoglobin A1C (HbA1c) by High performance liquid chromatography	Bio-Rad D-10 Haemoglobin A1c assay
	<b>Tumour Markers</b> Serum	Alpha-fetoprotein (AFP) by Immunoassay (Chemiluminescent label)	Roche cobas e801 system, Alpha-fetoprotein (AFP) assay
		Carcinoembryonic Antigen (CEA) by Immunoassay (Chemiluminescent label)	Roche cobas e801 system, Carcinoembryonic Antigen (CEA) assay
		Prostate Specific Antigen, Free (FPSA) by Immunoassay (Chemiluminescent label)	Roche cobas e801 system, Prostate Specific Antigen, Free (FPSA) assay
		Prostate Specific Antigen, Total (TPSA) by Immunoassay (Chemiluminescent label)	Roche cobas e801 system, Prostate Specific Antigen, Total (TPSA) assay
		PSA, Free / PSA, Total ratio by Calculation	Roche cobas e801 system (calculated from FPSA and TPSA)

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Clinical Microbiology and Infection	Bacteriology - culture, identification, sensitivity tests and/or microscopy Urine	Culture of urinary pathogens: - Culture and antimicrobial susceptibility tests for urinary pathogens by Aerobic and anaerobic culture  - Identification of clinical isolates by MALDI-TOF Mass Spectrometry	Culture: Method as documented in PAT-MBS-040-P Antimicrobial susceptibility tests: Method as documented in PAT-MBS-049-P  Method as documented in PAT-MBS-026-P using bioMerieux VITEK MS
	Lower respiratory tract samples (including sputum, bronchial aspirate, tracheal aspirate, etc.)	Culture of lower respiratory tract pathogens: - Microscopy for cell morphology and microorganisms by Gram stain - Culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO <sub>2</sub> culture  - Identification of clinical isolates by MALDI-TOF Mass Spectrometry	Manual method as documented in PAT-MBS-043-P  Culture: Method as documented in PAT-MBS-038-P Antimicrobial susceptibility tests: Method as documented in PAT-MBS-049-P  Method as documented in PAT-MBS-026-P using bioMerieux VITEK MS
	Upper respiratory tract samples (including throat swab, nasal swab, etc.)	Culture of upper respiratory tract pathogens: - Microscopy for cell morphology and microorganisms by Gram stain - Culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO <sub>2</sub> culture  - Identification of clinical isolates by MALDI-TOF Mass Spectrometry	Manual method as documented in PAT-MBS-043-P  Culture: Method as documented in PAT-MBS-038-P Antimicrobial susceptibility tests: Method as documented in PAT-MBS-049-P  Method as documented in PAT-MBS-026-P using bioMerieux VITEK MS



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Clinical Microbiology and Infection (cont'd)	Urinalysis and/or urine microscopy Urine	<p>Urine formed elements by</p> <p>Microscopic examination with fixed volume in microtitre plate</p> <p>Automated imaging and evaluation technology</p> <p>Urinalysis by dipstick method, including</p> <ul style="list-style-type: none"> <li>- Specific Gravity</li> <li>- pH</li> <li>- Glucose</li> <li>- Ketone</li> <li>- Protein</li> <li>- Blood</li> <li>- Leucocyte</li> <li>- Nitrite</li> <li>- Bilirubin</li> <li>- Urobilinogen</li> </ul>	<p>Method as documented in PAT-MBS-024-P</p> <p>Sysmex UF5000 Urine Particle Analyser and UD10 Urine Particle Digital Imaging Device Method as documented in PAT-MBS-024-P</p> <p>Sysmex UC3500 Urine Chemistry Analyser Method as documented in PAT-MBS-024-P</p>

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Haematology	Blood Bank – General EDTA whole blood	ABO and Rh(D) typing by <ul style="list-style-type: none"> <li>- Red cell agglutination, automated</li> <li>- Red cell agglutination, manual</li> </ul>	Bio-Rad IH500 system: Method as documented in PAT-BBS-016-P Method as documented in PAT-BBS-005-P
		Antibody screening by <ul style="list-style-type: none"> <li>- Red cell agglutination, automated</li> <li>- Saline indirect antiglobulin test</li> </ul>	Bio-Rad IH500 system: Method as documented in PAT-BBS-016-P Method as documented in PAT-BBS-005-P
		Crossmatch by <ul style="list-style-type: none"> <li>- Computer crossmatch method</li> <li>- Immediate spin method</li> <li>- Red cell agglutination, automated</li> <li>- Saline indirect antiglobulin test</li> </ul>	Method as documented in PAT-BBS-009-P
	Coagulation Citratd blood	Coagulation studies, automated including: <ul style="list-style-type: none"> <li>- Prothrombin Time (PT)</li> <li>- Activated partial thromboplastin time (APTT)</li> <li>- Fibrinogen (FIB)</li> <li>- Thrombin time (TT)</li> </ul> D-Dimer quantitation (DD) by Latex agglutination	Instrumentation Laboratory ACL TOP 350 CTS Method as documented in PAT-HMS-007-P  Instrumentation Laboratory ACL TOP 350 CTS Method as documented in PAT-HMS-034-P

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Haematology (cont'd)	Haematology – General EDTA whole blood	Complete blood count, including: <ul style="list-style-type: none"> <li>- While blood cell count (WBC)</li> <li>- Red blood cell count (RBC)</li> <li>- Haemoglobin (HGB)</li> <li>- Haematocrit (HCT)</li> <li>- Mean corpuscular volume (MCV)</li> <li>- Mean corpuscular haemoglobin (MCH)</li> <li>- Mean corpuscular haemoglobin concentration (MCHC)</li> <li>- Red cell distribution width (RDW)</li> <li>- Platelet count</li> <li>- Mean Platelet Volume (MPV)</li> </ul>	Sysmex XN-3100 Haematology System Method as documented in PAT-HMS-001-P
		Reticulocyte count by Automated method	Sysmex XN-3100 Haematology System Method as documented in PAT-HMS-001-P
		Leucocyte differential count by Automated method	Sysmex XN-3100 Haematology System Method as documented in PAT-HMS-001-P
		Peripheral blood smear examination by Wright Giemsa stain (automated method)	Method as documented in PAT-HMS-014-P and PAT-HMS-003-P
		Erythrocyte Sedimentation Rate (ESR) by Automated method	Diesse Cube 30 Touch Method as documented in PAT-HMS-006-P

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Medical Genetics	<b>Molecular Genetics (microbiology)</b> Deep throat saliva, nasopharyngeal swab, nasal swab and oropharyngeal swab	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Real time Multiplex Polymerase Chain Reaction, qualitative (Target regions: E2 gene, RdRp gene, and N2 gene)	Cepheid Xpert Xpress SARS-CoV-2 Plus Assay Nucleic acid extraction, amplification and detection as documented in PAT-MBS-104-P