

Hospital Authority - Yan Chai Hospital, Department of Pathology

醫院管理局仁濟醫院病理部

ADDRESS 地址 : Block B, Yan Chai Hospital, 7-11, Yan Chai Street, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣仁濟街7-11號仁濟醫院B座

(i) Anatomical Pathology Laboratory, 4/F
(ii) Autopsy Service, Basement
(iii) Blood Bank and Emergency Laboratory, 4/F
(iv) Core Laboratory, 4/F

LABORATORY DIRECTOR 化驗所主管 : **Pathologist Director 病理學主管:**

Dr TSANG Koon-ho
曾冠豪醫生
MBBS, FHKCPath, FHKAM(Path)

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 TSANG Koon-ho 曾冠豪醫生 | (Full-time 全職) |
| Chemical Pathology 化學病理學 | Dr NG Wai-yan 吳煒欣醫生 | (Consulting 諮詢) |
| Haematology 血液學 | Dr Kate LEUNG Fung-shan 梁鳳珊醫生 | (Consulting 諮詢) |

ACCREDITED TEST CATEGORY 認可測試類別 : **Medical Testing 醫務化驗**

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| Anatomical Pathology | 解剖病理學 |
| Chemical Pathology | 化學病理學 |
| Haematology | 血液學 |

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| MEDICAL TESTING | | | |
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| 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 Non-gynaecological specimen | Specimen preparation and routine staining by H&E, papanicolaou and special staining | Specimen preparation and routine staining (both automation and manual method): Method as documented in WI-APL-SOP-PUTUP, WI-APL-EQP-AUTOS, WI-APL-SOP-STAIN Special staining (manual method): Method as documented in WI-APL-SOP-STAIN Acid fast bacilli by Ziehl Neelsen Eosinophils by Carbol chromotrope Fungi and Pneumocystis by Grocott hexamine silver Haemosiderin by Perls' Prussian Blue Mucin by Southgate's Mucicarmine, PAS/PASD |
| | Fine needle aspirates | Fine needle aspirate cytology examination by H&E, Papanicolaou and Giemsa staining | Specimen preparation and routine staining (both automation and manual method): Method as documented in WI-APL-SOP-FINAC, WI-APL-SOP-STAIN |
| | Histopathology Surgical pathology | Histology examination by H&E and special staining | Specimen preparation as documented in WI-APL-SOP-SPERJ and WI-APL-SOP-TIEMB using Leica – Autostainer Special Staining (manual method): Method as documented in WI-APL-SOP-STAIN Acid fast bacilli by Ziehl Neelsen Acidic mucins by Alcian blue (pH 0.5 and pH 2.5) Amyloid by Crystal violet (Hucker & Conn)/Congo Red Argyrophil cells by Grimelius silver method Azurophilic granules and granulocytes by Giemsa technique Basement membrane by Periodic Acid Siver Methenamine (PASM) Bile pigment by Fouchet technique Calcium deposits by Alizarin red S Calcium salts by von Kossa Collagen and muscle by Masson Trichrome Copper by Rodamine technique Eosinophils by Carbol chromotrope Elastic fibre and connective tissue by Victoria Van Gieson |

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| Anatomical Pathology (cont'd) | Histopathology (cont'd) Surgical pathology (cont'd) | Histology examination by (cont'd) H&E and special staining | (Cont'd) 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 Perls' Prussian blue Hepatitis B antigens by Shikata's Orcein technique Histological architecture by Haematoxylin & Eosin Hyaluronidase digestion of Mucins by Alcian blue Lipofuscin by Long Ziehl-Neelsen Melanin, argentaffin, chromaffin cells by Schmorl/ Masson Fontana ± bleach Mucin and capsule of Cryptococcus neoformans by Southgate's mucicarmine Muscle, striated muscle, neuroglia fibres and connective tissue by PTAH technique (Mallory) Mycobacteria (M. leprae) by Wade Fite Periodate reactive carbohydrates by PAS with α-amylase digestion (PASD) Reticulin by Gordon & Sweet's technique Unsaturated cholesterol ester, triglycerides and phospholipids by Sudan Black Unsaturated hydrophobic lipid by Oil red O |
| | Intra-operative frozen section for fresh tissue specimens and biopsies | Histology examination by H&E staining | Specimen preparation and Haematoxylin and Eosin stain (manual) as documented in WI-APL-SOP- FROZE |
| | Fresh tissue specimens and biopsies; special specimens | Histology examination and enzyme histochemistry by H&E and special staining | Specimen preparation, Haematoxylin and Eosin stain and enzyme histochemistry test as documented in WI-APL-SOP-RENAL, WI-APL-SOP-SKIBI, WI-APL-SOP-HIRSD, WI-APL-SOP-ATTCU |

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| Anatomical Pathology (cont'd) | Immunohistochemistry Renal and skin biopsies Histological specimens | Immunofluorescence examination by Manual method Immunohistochemical examination for various antigen markers by Automated method | Specimen preparation and staining by Direct Immunofluorescence : Method as documented in WI-APL-SOP-IMMFL For IgA / IgM / IgG / Fibrinogen / Complement 3 / C1q Slide preparation and staining (Ventana Benchmark Ultra): Method as documented in WI-APL-EQP-VBUIIS Detection system: Roche UltraView DAB Detection Kit and Roche OptiView DAB Detection Kit Antigen retrieval: Roche CC1 heat-induced retrieval or Protease enzyme retrieval methods |

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Autopsy Service: Basement, Block B, 7-11, Yan Chai Street, Tsuen Wan, New Territories, Hong Kong.
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| Anatomical Pathology (cont'd) | Autopsy Adult, fetal and pediatric autopsy | Autopsy examination by H&E and special staining | Routine audit autopsy procedure: Method as documented in WI-MOR-ROU-AAUEN and WI-MOR-ROU-AAUCH Pediatric autopsy procedure: Method as documented in WI-MOR-AUT-PEDEH and WI-MOR-AUT-PEDCH Special autopsy procedure: Method as documented in WI-MOR-SPE-AUTEN and WI-MOR-SPE-AUTCH Routine staining: Method as documented in WI-APL-SOP-STAIN Haematoxylin and Eosin stain using Leica-Autostainer Special staining as in Histopathology: Method as documented in WI-APL-SOP-STAIN |

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Blood Bank and Emergency Laboratory: 4/F, Block B, 7-11, Yan Chai Street, Tsuen Wan, New Territories, Hong Kong.
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| Chemical Pathology | Blood gases and Co-oximetry Heparinized whole blood | Blood Gas include: pCO ₂ by Potentiometry | Siemens Rapid Lab 1265 blood gas analyser |
| | | pH by Potentiometry | Siemens Rapid Lab 1265 blood gas analyser |
| | | pO ₂ by Potentiometry | Siemens Rapid Lab 1265 blood gas analyser |
| | | Base Excess by Calculation | Siemens Rapid Lab 1265 blood gas analyser |
| | | Bicarbonate by Calculation | Siemens Rapid Lab 1265 blood gas analyser |
| | | Ionized Calcium by Potentiometry (Ion Selective Electrode) | Siemens Rapid Lab 1265 blood gas analyser |
| | | O ₂ Saturation by Calculation | Siemens Rapid Lab 1265 blood gas analyser |
| | | Carboxyhaemoglobin by Co-oximetry | Siemens, Rapid Lab 1265 blood gas analyser |
| | | Methaemoglobin by Co-oximetry | Siemens, Rapid Lab 1265 blood gas analyser |
| | | General Chemistry Plasma | Amylase by Spectrophotometry |
| | Alanine Aminotransferase (ALT) by Spectrophotometry | Roche cobas 8000 System, ALTPM assay | |
| | Albumin by Spectrophotometry | Roche cobas 8000 System, ALBP assay | |
| | Alkaline Phosphatase (ALP) by Spectrophotometry | Roche cobas 8000 System, ALP2 assay | |

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| Chemical Pathology (cont'd) | General Chemistry (cont'd) Plasma (cont'd) | Bilirubin, Total by Spectrophotometry | Roche cobas 8000 System, BILT3 assay |
| | | Calcium by Spectrophotometry | Roche cobas 8000 System, CA2 assay |
| | | Creatinine by Spectrophotometry | Roche cobas 8000 System, CREJ2 assay |
| | | Creatine Kinase (CK) by Spectrophotometry | Roche cobas 8000 System, CK assay |
| | | eGFR by Calculation | Roche cobas 8000 System, (Calculated from Creatinine) |
| | | Globulin by Calculation | Roche cobas 8000 System, (Calculated from Protein, Total and Albumin) |
| | Fluoride plasma, CSF | Glucose by Spectrophotometry | Roche cobas 8000 System, GLUC3 assay |
| | Plasma | Lactate dehydrogenase by Spectrophotometry | Roche cobas 8000 System, LDHI2 assay |
| | | Osmolality by Freezing point depression | Advanced A2O Osmometer |
| | | Phosphate, Inorganic by Spectrophotometry | Roche cobas 8000 System, PHOS2 assay |
| Potassium by Potentiometry | | Roche cobas 8000 System, K assay | |
| Pleural fluid | pH by Potentiometry | Siemens Rapid Lab 1265 blood gas analyser | |
| CSF | Protein, Total by Spectrophotometry | Roche cobas 8000 System, TPUC3 assay | |

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| Chemical Pathology (cont'd) | General Chemistry (cont'd) Plasma | Protein, Total by Spectrophotometry | Roche cobas 8000 System, TP2 assay |
| | | Sodium by Potentiometry | Roche cobas 8000 System, Na assay |
| | | High sensitive Troponin I by Immunoassay (Chemiluminescent label) | Beckman Coulter Access Immunoassay system, hs TnI Assay |
| | Plasma | Urea by Spectrophotometry | Roche cobas 8000 System, UREAL assay |
| | | Urate by Spectrophotometry | Roche cobas 8000 System, UA2 assay |
| | Toxicology Serum | Acetaminophen (Paracetamol) by Spectrophotometry | Roche cobas 8000 System, ACETA assay |
| | Salicylate by Spectrophotometry | Roche cobas 8000 System, SALI assay | |

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| Haematology | Blood Bank - General | | |
| | EDTA blood and clotted blood | ABO and Rh (D) typing by Red cell agglutination | Method as documented in WI-BBK-TEP-ABOD |
| | EDTA blood | ABO and Rh(D) typing by Red cell agglutination, automated | Automated system: WI-BBK-TEP-SOP-IH by IH-1000 |
| | EDTA blood and clotted blood | Antibody screening by Red cell agglutination | Method as documented in WI-BBK-TEP-ABSCM |
| | EDTA blood | Antibody screening by Red cell agglutination, automated | Automated system: WI-BBK-TEP-SOP-IH by IH-1000 |
| | Clotted blood | Red cell phenotyping by - Direct agglutination - Indirect antiglobulin test | Method as documented in WI-BBK-TEP-PHENO |
| | | Crossmatch by - Computer crossmatch - Immediate spin - DiaMed gel test | Method as documented in WI-BBK-TEP- ABSCM |
| | Blood Bank - Special | | |
| | EDTA blood and clotted blood | Transfusion reaction, including - ABO and Rh(D) typing - Antibody screening - Red cell antigen phenotyping - Antibody identification - Direct antiglobulin test - Crossmatching | Method as documented in WI-BBK-MIS-TXRXI |
| | Coagulation | | |
| | Citrate blood | Coagulation studies, automated including - Prothrombin Time (PT) - Activated partial thromboplastin time (APTT) | Beckman Coulter ACL Elite Pro |

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| Haematology (cont'd) | Haematology - General 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) - Mean Platelet Volume (MPV) Leucocyte differential count by Automated method Peripheral blood smear examination by - Wright – Giemsa stain - May-Grunwald Giemsa Stain | <p>Sysmex XE5000</p> <p>Sysmex XE5000</p> <p>Method as documented in WI-HAE-GEN-PBS Method as documented in WI-HAE-GEN-H2000 Method as documented in WI-HAE-GEN-MGG</p> |

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| Chemical Pathology | General Chemistry Plasma | Alanine Aminotransferase (ALT) by Spectrophotometry | Roche cobas 8000 System, ALTPM assay |
| | | Albumin by Spectrophotometry | Roche cobas 8000 System, ALBP assay |
| | | Alkaline Phosphatase (ALP) by Spectrophotometry | Roche cobas 8000 System, ALP2 assay |
| | | Amylase by Spectrophotometry | Roche cobas 8000 System, AMYL2 assay |
| | | Bilirubin, Total by Spectrophotometry | Roche cobas 8000 System, BILT3 assay |
| | | Calcium by Spectrophotometry | Roche cobas 8000 System, CA2 assay |
| | | Cholesterol, Total by Spectrophotometry | Roche cobas 8000 System, CHOL2 assay |
| | | Cholesterol High Density Lipoprotein, (HDL-C) by Spectrophotometry | Roche cobas 8000 System, HDLC3 assay |
| | | Cholesterol Low Density Lipoprotein,(LDL-C) by Calculation | Roche cobas 8000 System, (Calculated from Cholesterol, Total, HDL-C and Triglyceride) |
| | | Creatine Kinase (CK) by Spectrophotometry | Roche cobas 8000 System, CK assay |
| Creatinine by Spectrophotometry | Roche cobas 8000 System, CREJ2 assay | | |
| eGFR by Calculation | Roche cobas 8000 System, (Calculated from Creatinine) | | |
| Globulin by Calculation | Roche cobas 8000 System, (Calculated from Protein, Total and Albumin) | | |

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| Chemical Pathology (cont'd) | General Chemistry (cont'd) Fluoride plasma, CSF | Glucose by Spectrophotometry | Roche cobas 8000 System, GLUC3 assay |
| | | Lactate by Spectrophotometry | Roche cobas 8000 System, LACT2 assay |
| | Plasma | Lactate dehydrogenase by Spectrophotometry | Roche cobas 8000 System, LDHI2 assay |
| | | Osmolality by Freezing point depression | Advanced A2O Osmometer |
| | Plasma, urine | Phosphate, Inorganic by Spectrophotometry | Roche cobas 8000 System, PHOS2 assay |
| | | Potassium by Potentiometry | Roche cobas 8000 System, K assay |
| | Plasma | Protein, Total by Spectrophotometry | Roche cobas 8000 System, TP2 assay |
| | | Protein, Total by Spectrophotometry | Roche cobas 8000 System, TPUC3 assay |
| | CSF | Sodium by Potentiometry | Roche cobas 8000 System, Na assay |
| | Plasma | Triglyceride by Spectrophotometry | Roche cobas 8000 System, TRIGL assay |
| | | High sensitive Troponin I by Immunoassay (Chemiluminescent label) | Beckman Coulter Access Immunoassay system, hs TnI Assay |
| | | Urate by Spectrophotometry | Roche cobas 8000 System, UA2 assay |
| | | Urea by Spectrophotometry | Roche cobas 8000 System, UREAL assay |
| | | Spectrophotometry | Roche cobas 8000 System, SALI assay |

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| Chemical Pathology (cont'd) | Toxicology Serum | Acetaminophen (Paracetamol) by Spectrophotometry Salicylate by Spectrophotometry | Roche cobas 8000 System, ACETA assay Roche cobas 8000 System, SALI assay |

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| Haematology | Haematology - General 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) - Mean Platelet Volume (MPV) | Sysmex XE5000 |
| | | Leucocyte differential count by Automated method | Sysmex XE5000 |
| | | Malaria parasite examination by Thick and thin films | Method as documented in WI-HAE-MIS-MP |
| | | Peripheral blood smear examination by - Wright – Giemsa stain - May-Grunwald Giemsa Stain | Method as documented in WI-HAE-GEN-PBS Method as documented in WI-HAE-GEN-H2000 Method as documented in WI-HAE-GEN-MGG Sysmex Alpha_N |
| | | Reticulocyte Count by Automated method | Sysmex XE5000 |