



Hospital Authority – Hong Kong Children’s Hospital, Department of Pathology
醫院管理局-香港兒童醫院病理學部

- ADDRESS** : 6/F, Tower A, Hong Kong Children’s Hospital, 1 Shing Cheong Road, Kowloon Bay,
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服務對象 公營及私營醫院

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(i) Division of Anatomical Pathology, 6/F, Tower A
(ii) Division of Chemical Pathology, 7/F, Tower A
(iii) Division of Clinical Microbiology and Infection, 6/F and 7/F, Tower A
(iv) Division of Haematology, 7/F, Tower A
(v) Division of Genetic and Genomic Pathology, 6/F, Tower A
(vi) Division of Newborn Screening for Inborn Errors of Metabolism, G/F and 7/F, Tower A

LABORATORY DIRECTOR : **Pathologist Director 病理學主管:**
化驗所主管 Dr Jason SO Chi-chiu
蘇志釗醫生
BSc (HK), MBBS (HK), FHKCPath, FHKAM (Pathology), FRCPath

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 KAN Nim-chi 簡念慈醫生 (Full-time 全職)
Chemical Pathology 化學病理學
Dr MAK Miu 麥苗醫生 (Full-time 全職)
Clinical Microbiology and Infection 臨床微生物學及傳染病
Dr Sally WONG Cheuk-ying 黃卓凝醫生 (Full-time 全職)
Haematology 血液學
Dr Jason SO Chi-chiu 蘇志釗醫生 (Full-time 全職)
Immunology 免疫學
Dr MAK Miu 麥苗醫生 (Full-time 全職)
Medical Genetics (Molecular Genetics) 醫學遺傳學 (分子遺傳學)
Dr YUEN Yuet-ping 袁月冰醫生 (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
Clinical Microbiology and Infection
臨床微生物學及傳染病
Haematology
血液學
Immunology
免疫學
Medical Genetics (Cytogenomics and Molecular Genetics)
醫學遺傳學 (細胞遺傳學 及 分子遺傳學)

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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.			
Anatomical Pathology	Histopathology Surgical pathology	Histology examination by H&E and special staining	Specimen preparation as documented in WI-ANP-HIS-ALLEB, WI-ANP-HIS-ATCUT & WI-ANP-SBX-HANDL H&E Staining Special staining (automated method) Leica – Tissue Stainer ST5020 Special staining (manual method) Method as documented in WI-ANP-QLT-STAN Acid fast bacilli by Ziehl-Neelsen Acidic mucins by Alcian Blue (pH 0.5 and pH 2.5) Amyloid by Highmans Congo Red Basement membrane by Periodic Acid Silver Methenamine (PASM) Collagen and muscle by Masson Trichrome Elastic fibre and connective tissue by Victoria Blue Van Gieson 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 Lipids by Oil Red O stain Mucin by Southgate’s mucicarmine Normal myelin by Luxol Fast Blue Nemaline rods by Gomori trichrome technique (modified) Periodate reactive carbohydrates by PAS with alpha- amylase digestion (PASD) Reticulin by Gordon & Sweet’s technique Calcium salts by von Kossa
	Intra-operative frozen section for fresh tissue specimens and biopsies	Histology examination by H&E and Giemsa staining	Specimen preparation as documented in WI-ANP-HIS-FROZN H&E and Giemsa staining (manual)

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Anatomical Pathology (cont’d)	Histopathology (cont’d) Fresh specimens and biopsies and special specimens	Histology examination and enzyme histochemistry by Special staining (manual) and Enzyme histochemistry tests	Method as documented in WI-ANP-HIS-ENZYM ATPase 4.2, ATPase 4.6, ATPase 9.4 Succinic dehydrogenase (SDH) NADH-Tetrazolium Reductase Cytochrome C oxidase (COX) COX + SDH Acetylcholine esterase
	Histological specimens and cell blocks from cytological specimens	Immunohistochemical examination for various antigen markers by Automated staining method	Slide preparation and staining (Leica Bond III & Ventana BenchMark Ultra Autostainer) Method as documented in WI-ANP-IHC-BOND and WI-ANP-IHC-VENTA Detection system: Bond III: Polymer detection system Ventana: Optiview detection system
	Renal and skin biopsies	Immunofluorescence examination by Automated method	Specimen preparation and staining by Direct Immunofluorescence (automated): IgA / IgM / IgG / C1q / Complement 3 / Fibrinogen Method as documented in WI-ANP-SBX-IMF

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Chemical Pathology (cont'd)	General Chemistry Plasma	Alanine aminotransferase (ALT) by Spectrophotometry	Roche cobas 8000 system, ALTPM assay
		Albumin by Spectrophotometry	Roche cobas 8000 system, ALBP assay
		Alkaline phosphatases (ALP) by Spectrophotometry	Roche cobas 8000 system, ALP2 assay
		Ammonia by Spectrophotometry	Roche cobas 8000 system, NH3L2 assay
		Amylase by Spectrophotometry	Roche cobas 8000 system, AMYL2 assay
		Aspartate aminotransferases (AST) by Spectrophotometry	Roche cobas 8000 system, ASTPM assay
		Bilirubin, Conjugated (Bc) by Spectrophotometry	VITROS XT 7600 Integrated Chemistry, BuBc Slide dual wavelength, dry chemistry
		Bilirubin, Unconjugated (Bu) by Spectrophotometry	VITROS XT 7600 Integrated Chemistry, BuBc Slide dual wavelength, dry chemistry
		Bilirubin, Direct by Spectrophotometry	Roche cobas 8000 system, BILD2 assay
		Bilirubin, Total by Spectrophotometry	Roche cobas 8000 system, BILT3 assay
		Calcium by Spectrophotometry	Roche cobas 8000 system, CA2 assay
		Chloride by Potentiometry	Roche cobas 8000 system, ISE CL assay
Cholesterol, Total by Spectrophotometry	Roche cobas 8000 system, CHOL2 assay		

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Chemical Pathology (cont’d)	General Chemistry (cont’d) Plasma (cont’d) Plasma, CSF Plasma Serum Plasma, CSF Plasma	Cholesterol, High Density Lipoprotein (HDL-C) by Spectrophotometry	Roche cobas 8000 system, HDLC4 assay
		Creatine kinase (CK) by Spectrophotometry	Roche cobas 8000 system, CK2 assay
		Creatinine by Enzymatic method	Roche cobas 8000 system, CREA2 assay
		Gamma-Glutamyl Transferase (GGT) by Spectrophotometry	Roche cobas 8000 system, GGT2 assay
		Glucose by Enzymatic method	Roche cobas 8000 system, GLUC3 assay
		Haemoglobin, Free by Spectrophotometry (no reagent reaction)	Roche cobas 8000 system, SI2 assay
		Iron by Spectrophotometry	Roche cobas 8000 system, IRON2 assay
		Unsaturated Iron Binding Capacity (UIBC) by Spectrophotometry	Roche cobas 8000 system, UIBC assay
		Lactate by Spectrophotometry	Roche cobas 8000 system, LACT2 assay
		Lactate dehydrogenase (LDH) by Spectrophotometry	Roche cobas 8000 system, LDHI2 assay
Magnesium by Spectrophotometry	Roche cobas 8000 system, MG2 assay		
N-Terminal pro B Type Natriuretic Peptide (NT-proBNP) by Immunoassay (Electrochemiluminescence)	Roche cobas 8000 system, PBNPX assay		
Osmolality by Freezing Point Depression	Arkray osmo station		

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Chemical Pathology (cont'd)	General Chemistry (cont'd) Plasma (cont'd)	Phosphate by Spectrophotometry	Roche cobas 8000 system, PHOS2 assay
		Potassium by Potentiometry	Roche cobas 8000 system, ISE-K assay
		Protein, Total by Spectrophotometry	Roche cobas 8000 system, TP2 assay
	CSF	Protein, Total by Turbidimetry	Roche cobas 8000 system, TPUC3 assay
	Plasma	Sodium by Potentiometry	Roche cobas 8000 system, ISE-NA assay
		Triglycerides by Spectrophotometry	Roche cobas 8000 system, TRIGL assay
		Troponin T by Immunoassay (Electrochemiluminescence)	Roche cobas 8000 system, TNTHSSTX assay
		Urea by Spectrophotometry	Roche cobas 8000 system, UREAL assay
Uric acid by Spectrophotometry		Roche cobas 8000 system, UA2 assay	

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Chemical Pathology (cont'd)	General Chemistry (cont'd) Urine	Albumin by Immunoturbidimetry	Roche cobas 6000 and 8000 system, ALBT2 assay
		Amylase by Spectrophotometry	Roche cobas 6000 and 8000 system, AMYL2 assay
		Calcium by Spectrophotometry	Roche cobas 6000 and 8000 system, CA2 assay
		Chloride by Potentiometry	Roche cobas 6000 and 8000 system, ISE-CL assay
		Creatinine by Enzymatic method	Roche cobas 6000 system, CREA2 assay Roche cobas 8000 system, CRE2U assay
		Magnesium by Spectrophotometry	Roche cobas 6000 and 8000 system, MG2U assay
		Osmolality by Freezing Point Depression	Arkray osmo station
		Phosphate by Spectrophotometry	Roche cobas 6000 and 8000 system, PHOS2U assay
		Potassium by Potentiometry	Roche cobas 6000 and 8000 system, ISE-K assay
		Protein, Total by Turbidimetry	Roche cobas 6000 and 8000 system, TPU3 assay
		Sodium by Potentiometry	Roche cobas 6000 and 8000 system, IES-NA assay
		Urea by Spectrophotometry	Roche cobas 6000 system, UREAL assay Roche cobas 8000 system, URELU assay
		Uric acid by Spectrophotometry	Roche cobas 6000 system, UA2 assay Roche cobas 8000 system, UA2U assay

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Chemical Pathology (cont’d)	Hormones Serum	Cortisol by Immunoassay (Electrochemiluminescence)	Roche cobas 8000 system, Elecsys Cortisol II assay
		Tri-iodothyronine, Free (FT3) by Immunoassay (Electrochemiluminescence)	Roche cobas 8000 system, Elecsys FT3 III assay
		Thyroxine, Free (FT4) by Immunoassay (Electrochemiluminescence)	Roche cobas 8000 system, Elecsys FT4 IV assay
		Human chorionic gonadotrophin (β-HCG), Total by Immunoassay (Electrochemiluminescence)	Roche cobas 8000 system, Elecsys HCG-BETA assay
		Thyroid stimulating hormone (TSH) by Immunoassay (Electrochemiluminescence)	Roche cobas 8000 system, Elecsys TSH assay
	Protein, quantitative analysis Serum	C-Reactive Protein by Immunoturbidimetry	Roche cobas 8000 system, CRP4 assay
		Ferritin by Immunoassay (Electrochemiluminescence)	Roche cobas 8000 system, Elecsys Ferritin assay

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Chemical Pathology (cont’d)	Therapeutic Drug Monitoring Serum	Carbamazepine by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, CARB4 assay
		Digoxin by Immunoassay (Electrochemiluminescence)	Roche cobas 8000 system, Elecsys DIGO assay
		Phenobarbital by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, PHNO2 assay
		Phenytoin by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, PHNY2 assay
		Theophylline by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, THEO2 assay
		Valproic acid by Homogenous enzyme immunoassay	Roche cobas 8000 system, VALP2 assay
	Tumour Markers Serum	Alpha-Fetoprotein (AFP) by Immunoassay (Electrochemiluminescence)	Roche cobas 8000 system, Elecsys AFP assay

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Immunology	Immunochemistry Serum	Ceruloplasmin by Immunoturbidimetry Haptoglobin by Immunoturbidimetry	Roche cobas 8000 system, CERU3 assay Roche cobas 8000 system, HAPT2 assay

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Division of Newborn Screening for Inborn Errors of Metabolism:

G/F and 7/F, Tower A, Hong Kong Children’s Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK

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Chemical Pathology	Inborn Errors of Metabolism Dried Blood Spot	Amino Acids and Acylcarnitines, Semi-quantitative by Tandem Mass Spectrometry	Flow Injection Analysis – Tandem Mass Spectrometry, Waters Xevo TQD system Revvity NeoBase 2 Non-derivatized MSMS kit
		17 α -OH-progesterone by Immunoassay (Solid phase time-resolved fluoroimmunoassay)	Perkin Elmer Genetic Screening Processor, GSP Neonatal 17 α -OH-progesterone Kit
		Biotinidase by Immunoassay (Solid phase time-resolved fluoroimmunoassay)	Perkin Elmer Genetic Screening Processor, GSP Neonatal Biotinidase Kit
		Galactose-1-Phosphate Uridyltransferase, Semi-quantitative by Enzymatic assay	Perkin Elmer Genetic Screening Processor, GSP Neonatal GALT Kit

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Division of Clinical Microbiology and Infection: 6/F & 7/F, Tower A, Hong Kong Children’s Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK

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Clinical Microbiology and Infection	Bacteriology – culture and sensitivity tests and/or microscopy		
	Blood culture	Culture and antimicrobial susceptibility tests for pathogens by Aerobic and anaerobic broth culture	Culture: Method as documented in WI-CMI-SOP-BLD and WI-CMI-SOP-BPR Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST
	CSF	Microscopy for cell morphology - Cell count by • counting chamber • automated method - Microorganisms by Gram stain - Acid fast bacilli (AFB) by Auramine O fluorescent stain and Ziehl-Neelsen stain - Encapsulated yeast by India ink stain	Method as documented in WI-CMI-SOP-CNS
	Enteric samples (including stool and rectal swab)	Culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO ₂ culture	Culture: Method as documented in WI-CMI-SOP-CNS Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST
	Enteric samples (including stool and rectal swab)	Culture and antimicrobial susceptibility tests for pathogens by Aerobic, anaerobic and microaerophilic culture	Culture: Method as documented in WI-CMI-SOP-STO Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST

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Clinical Microbiology and Infection (cont’d)	Bacteriology – culture and sensitivity tests and/or microscopy (cont’d)		
	Miscellaneous samples (including body fluid, dialysate, pus, swab, etc.)	Microscopy for cell morphology and microorganisms by Gram stain	Method as documented in WI-CMI-SOP-MIS
		Cell count (body fluid) by - counting chamber - automated method	Method as documented in WI-CMI-SOP-MIS Sysmex XN-350 Method as documented in WI-CMI-OPM-XNC
		Culture and antimicrobial susceptibility tests for pathogens by Aerobic, CO ₂ and anaerobic culture	Culture: Method as documented in WI-CMI-SOP-MIS Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST
	Lower respiratory tract samples (including sputum, bronchoalveolar lavage, tracheal aspirate, etc.)	Microscopy for cell morphology and microorganisms by Gram stain Culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO ₂ culture	Method as documented in WI-CMI-SOP-RES Culture: Method as documented in WI-CMI-SOP-RES Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST
Bronchoalveolar lavage and protected bronchial brush	Quantitative culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO ₂ culture	Culture: Method as documented in WI-CMI-SOP-RES Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST	
Upper respiratory tract samples (including throat swab, nasal swab, etc.)	Culture and antimicrobial susceptibility tests for respiratory tract pathogens by Aerobic and CO ₂ culture	Culture: Method as documented in WI-CMI-SOP-RES Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST	

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Division of Clinical Microbiology and Infection: 6/F & 7/F, Tower A, Hong Kong Children’s Hospital, 1 Shing Cheong Rd, Kowloon Bay, Kln, HK

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Clinical Microbiology and Infection (cont’d)	Bacteriology – culture and sensitivity tests and/or microscopy (cont’d) Urine	Culture and antimicrobial susceptibility tests for pathogens by Standard loop method and aerobic culture	Culture: Method as documented in WI-CMI-SOP-URI Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST
	Rectal swab, stool, urine	Culture and antimicrobial susceptibility tests for Vancomycin-resistant <i>Enterococcus</i> (VRE)	Culture: Method as documented in WI-CMI-SOP-MDR Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST
	Nasal swab and other samples (including axilla swab, combined swab, perineal swab, umbilical swab, wound swab, etc.)	Culture and antimicrobial susceptibility tests for Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)	Culture: Method as documented in WI-CMI-SOP-MDR Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST
	Throat swab, stool, rectal swab, sputum, urine, wound swab, etc.	Culture and antimicrobial susceptibility tests for - Carbapenem-resistant <i>Enterobacterales</i> (CRE) - Carbapenem-resistant <i>Acinetobacter</i> / Multidrug-resistant <i>Acinetobacter</i> (CRA/MDRA) - ESBL-producing <i>Enterobacterales</i>	Culture: Method as documented in WI-CMI-SOP-MDR Antimicrobial susceptibility tests: Method as documented in PD-CMI-SOP-AST
	Nasal swab and pooled swab (including axilla and groin, etc.)	Identification of <i>Candida auris</i> by Culture, Aerobic method	Method as documented in WI-CMI-SOP-MDR
	Clinical isolates	Identification of clinical isolates by - MALDI-TOF mass spectrometry - Conventional biochemical tests	bioMerieux VITEK MS Method as documented in WI-CMI-SOP-VMS and WI-CMI-SOP-BIO

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MEDICAL TESTING			
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Clinical Microbiology and Infection (cont’d)	Mycology - Culture, ID and Serology		
	Blood culture	Culture for fungi by Automated broth culture method	Method as documented in WI-CMI-SOP-BLD and WI-CMI-SOP-FUN
	Samples from central nervous system, enteric samples, respiratory samples, miscellaneous samples and urine	Microscopy of fungal elements and yeasts by Gram stain Culture for fungi by Conventional method	Method as documented in WI-CMI-SOP-FUN Method as documented in WI-CMI-SOP-FUN
	Fungal isolates	Identification by - MALDI-TOF mass spectrometry - Conventional identification tests	bioMerieux VITEK MS Method as documented in WI-CMI-SOP-VMS and WI-CMI-SOP-FUN
	CSF, serum	Cryptococcal antigen by Immunochromatographic test	Method as documented in WI-CMI-SOP-BIO
	Microbiology - Miscellaneous tests		
	Urine	Pregnancy test for human chorionic gonadotrophin (hCG), qualitative by Immunochromatographic assay	Method as documented in WI-CMI-SOP-URI
	Serum	Procalcitonin by Enzyme linked fluorescent assay (ELFA) (Chemiluminescent label)	bioMerieux VIDAS BRAHMS PCT assay Method as documented in WI-CMI-SOP-PCT
	Urinalysis and Urine Microscopy		
	Urine	Urine chemical test by Automated method, including - Bilirubin - Blood - Glucose - Ketone - Leucocytes - Nitrate - pH - Protein - Urobilinogen	Sysmex UC-3500 Method as documented in WI-CMI-SOP-URI

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Clinical Microbiology and Infection (cont’d)	Urinalysis and Urine Microscopy (cont’d) Urine (cont’d)	Formed elements and cell morphology for <ul style="list-style-type: none"> - Semi-quantitative count for WBC, RBC, casts and crystal by Fixed volume microtitre plate method - Crystal by Fixed volume microtitre plate method - Dysmorphic RBC by Counting chamber 	Method as documented in WI-CMI-SOP-URI
	Virology – Serology Serum	Hepatitis B virus antigen (HBsAg) by Immunoassay (Chemiluminescent label)	Abbott ARCHITECT i1000SR HBsAg Qualitative Assay Abbott ARCHITECT i1000SR HBsAg Confirmatory Assay
		Hepatitis B virus antibody (anti-HBs), quantitative by Immunoassay (Chemiluminescent label)	Abbott ARCHITECT i1000SR Anti-HBs Assay
		Hepatitis B virus antibody (anti-HBc), total by Immunoassay (Chemiluminescent label)	Abbott ARCHITECT i1000SR Anti-HBc Assay
		Hepatitis C virus antibody by Immunoassay (Chemiluminescent label)	Abbott ARCHITECT i1000SR Anti-HCV Assay
		Varicella zoster virus IgG antibody by Enzyme linked fluorescent assay (ELFA)	bioMerieux VIDAS Varicella-Zoster IgG Assay
		Cytomegalovirus IgG antibody by Enzyme linked fluorescent assay (ELFA)	bioMerieux VIDAS Cytomegalovirus IgG Assay

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Medical Genetics	Molecular Genetics (microbiology) CSF	Multiple meningitis and encephalitis pathogens detection and identification by multiplexed nucleic acid test, qualitative <ul style="list-style-type: none"> - <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> - <i>Cryptococcus neoformans/gattii</i> - Cytomegalovirus (CMV) - Enterovirus (EV) - Herpes simplex virus 1 (HSV-1) - Herpes simplex virus 2 (HSV-2) - Human herpesvirus 6 (HHV-6) - Human parechovirus (HPeV) - Varicella zoster virus (VZV) (Target regions: proprietary)	BioFire FilmArray Meningitis/Encephalitis (ME) Panel Method as documented in WI-CMI-SOP-MOL
	Nasal swab	Detection of Methicillin-resistant <i>Staphylococcus aureus</i> by Real time Polymerase Chain Reaction, qualitative (Target regions: <i>mecA</i> gene, <i>mecC</i> gene and <i>SCCmec</i>)	Cepheid Xpert MRSA NXG Assay Nucleic acid amplification and detection by Cepheid GeneXpert Method as documented in WI-CMI-SOP-MOL
	Respiratory samples (nasopharyngeal aspirate (NPA), nasopharyngeal swab (NPS))	Detection of Influenza A virus, Influenza B virus and Respiratory Syncytial Virus (RSV) by Real time Polymerase Chain Reaction, qualitative (Target regions: Influenza A virus: M, PB2 and PA gene; Influenza B virus: M and NS gene; RSV: RSV A and RSV B nucleocapsid gene)	Cepheid Xpert Xpress Flu/RSV Assay Nucleic acid amplification and detection by Cepheid GeneXpert Method as documented in WI-CMI-SOP-MOL

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Medical Genetics (cont’d)	Molecular Genetics (microbiology) (cont’d) Respiratory samples (nasopharyngeal aspirate (NPA), nasopharyngeal swab (NPS)) (cont’d)	Multiple respiratory pathogens – Detection and identification by Multiplex Polymerase Chain Reaction, qualitative (Viruses) <ul style="list-style-type: none"> - Adenovirus - Coronavirus 229E - Coronavirus HKU1 - Coronavirus NL63 - Coronavirus OC43 - Human Metapneumovirus - Human Rhinovirus/Enterovirus - Influenza A virus subtype H1 - Influenza A virus subtype H3 - Influenza A virus subtype 2009 H1N1 - Influenza B virus - Middle East Respiratory Syndrome Coronavirus (MERS-CoV) - Parainfluenza virus 1 - Parainfluenza virus 2 - Parainfluenza virus 3 - Parainfluenza virus 4 - Respiratory Syncytial Virus, - Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) (Bacteria) <ul style="list-style-type: none"> - <i>Bordetella parapertussis</i>, - <i>Bordetella pertussis</i>, - <i>Chlamydia pneumoniae</i> and - <i>Mycoplasma pneumoniae</i> (Target regions: proprietary)	BioFire Respiratory Panel RP2.1 plus Method as documented in WI-CMI-SOP-MOL
	Stool	Detection of toxigenic <i>Clostridioides difficile</i> by Real time Polymerase Chain Reaction, qualitative (Target region: tcdB gene, cdt gene and tcdC deletion nt 117)	

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Haematology	Blood Bank - General EDTA whole blood	ABO and Rh(D) typing by <ul style="list-style-type: none"> - Red cell agglutination, automated - Red cell agglutination, manual Antibody Screening by <ul style="list-style-type: none"> - Gel Column Agglutination Technology, automated - Gel Column Agglutination Technology, manual - Saline – Indirect antiglobulin test - Prewarmed – Indirect antiglobulin test Crossmatch by <ul style="list-style-type: none"> - Electronic crossmatch - Gel Column Agglutination Technology, automated - Gel Column Agglutination Technology, manual - Saline – Indirect antiglobulin test - Prewarmed – Indirect antiglobulin test - Immediate spin Red cell phenotyping by <ul style="list-style-type: none"> - Direct agglutination - Indirect antiglobulin test 	Bio-Rad IH-500 Method as documented in BBK-WI-106 Method as documented in BBK-WI-107 Method as documented in BBK-WI-115 Bio-Rad IH-500 Method as documented in BBK-WI-108 Method as documented in BBK-WI-109 Method as documented in BBK-WI-110 Method as documented in BBK-WI-111 Method as documented in BBK-WI-105 Bio-Rad IH-500 Method as documented in BBK-WI-105 Method as documented in BBK-WI-105 Method as documented in BBK-WI-110 Method as documented in BBK-WI-111 Method as documented in BBK-WI-105 Method as documented in BBK-WI-117
	Blood Bank - Special EDTA whole blood and serum	Antibody investigation by <ul style="list-style-type: none"> - Gel Column Agglutination Technology, automated - Gel Column Agglutination Technology, manual - Saline – Indirect antiglobulin test 	Bio-Rad IH-500 Method as documented in BBK-WI-116 Method as documented in BBK-WI-109 Method as documented in BBK-WI-110
	EDTA whole blood, serum and donor unit	Transfusion reaction investigation by <ul style="list-style-type: none"> - ABO and Rh(D) typing - Antibody screening - Crossmatching - Direct antiglobulin test 	Bio-Rad IH-500 Method as documented in BBK-WI-118

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Haematology (cont'd)	Blood Bank - Immunohaematology EDTA whole blood	Direct antiglobulin test by		
		- Gel Column Agglutination Technology, automated	Bio-Rad IH-500 Method as documented in BBK-WI-112	
		- Gel Column Agglutination Technology, manual	Method as documented in BBK-WI-113	
			- Conventional method	Method as documented in BBK-WI-114
	Coagulation Citrate blood		Coagulation studies including:	Sysmex CS-2500 Analyser
			- Prothrombin Time (PT)	Method as documented in HAE-WI-21-03
			- Activated partial thromboplastin time (APTT)	Method as documented in HAE-WI-21-03
			- Fibrinogen Quantitation	Method as documented in HAE-WI-21-05
			- D Dimer	Method as documented in HAE-WI-21-08
			- Thrombin Time	Method as documented in HAE-WI-21-06
- Protamine Sulphate test			Method as documented in HAE-WI-21-07	
Anti-Xa (Low Molecular Weight Heparin)			Sysmex CS-2500 Analyser Method as documented in HAE-WI-22-05	
Anti-Xa (Unfractionated Heparin)			Sysmex CS-2500 Analyser Method as documented in HAE-WI-22-05	
Anti-Thrombin Assay			Sysmex CS-2500 Analyser Method as documented in HAE-WI-22-01	
Factor Assay including:	Sysmex CS-2500 Analyser			
- Factor II	Method as documented in HAE-WI-22-02			
- Factor V				
- Factor VII				
- Factor VIII				
- Factor IX				
- Factor X				
- Factor XI				
- Factor XII				
Factor Inhibitor Screening	Sysmex CS-2500 Analyser Method as documented in HAE-WI-22-04			
FVIII Inhibitor Assay	Sysmex CS-2500 Analyser Method as documented in HAE-WI-22-03			

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Haematology (cont'd)	Coagulation (cont'd) Citrate blood (cont'd)	FIX Inhibitor Assay	Sysmex CS-2500 Analyser Method as documented in HAE-WI-22-03
	Haematology – General EDTA whole blood	Complete blood count including: - Haematocrit (HCT) - Haemoglobin (HGB) - Leucocyte differential count, automated - Mean corpuscular haemoglobin (MCH) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular volume (MCV) - Mean Platelet Volume (MPV) - Platelet count - Red blood cell (RBC) count - Red cell distribution width (RDW) - White blood cell (WBC) count	Sysmex XN-20 Analyser Method as documented in HAE-WI-11-02
		Reticulocyte count by Automated method	Sysmex XN-20 Analyser Method as documented in HAE-WI-11-02 and HAE-WI-11-15
		Cerebrospinal Fluid (CSF) examination for abnormal cell identification by CSF smear	Method as documented in HAE-WI-11-16
		Malaria parasite examination by Thick and thin films	Method as documented in HAE-WI-11-17
		Peripheral blood smear examination by Wright’s Stain	Slide prepared and stained by Sysmex SP50 Method as documented in HAE-WI-11-09 and HAE-WI-11-11
	Haematology – Special EDTA whole blood	Haemoglobin Pattern Study	Bio-Rad Variant II HPLC Analyser Method as documented in HAE-WOI-33-01
	EDTA marrow blood aspirate, clot, trephine	Bone Marrow Examination: - Specimen preparation and routine staining - Marrow smear - Wright & Giemsa stain - Perls’ Prussian Blue stain	Method as documented in HAE-WI-13-01 and HAE-WI-13-02

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Medical Genetics	Cytogenomics Bone marrow / Peripheral blood	Culture and chromosome analysis by G-banding Detection of chromosomal abnormalities by Fluorescence In-situ Hybridisation (FISH)	Method as documented in HAE-WI-41-01 HAE-WI-41-03 HAE-WI-41-04 HAE-WI-41-05 Method as documented in HAE-WI-42-01 HAE-WI-42-11 HAE-WI-42-12

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醫院管理局-香港兒童醫院病理學部

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Medical Genetics	Molecular Genetics (haematology) Fresh samples (including blood, buccal swabs, and bone marrow)	Thalassemia genotyping by Gap-PCR, Sanger sequencing and Multiplex Ligation-dependent Probe Amplification (MLPA)	Thermo Fisher 3500 / 3500XL Genetic Analysers Methods as documented in <ul style="list-style-type: none"> - Handling, Storage and Disposal of Primary Samples and Nucleic Acids in GG Lab (WI-GGP-SOP-SPE-GG) - DNA Extraction (WI-GGP-SOP-EXT-DNA) - Automated DNA Extraction (WI-GGP-SOP-EXT-ADNA) - Thalassemia Genotyping (WI-GGP-SOP-TES-THAL) - Polymerase Chain Reaction (PCR) (WI-GGP-SOP-TES-PCR) - Cycle Sequencing (WI-GGP-SOP-TES-CYCSEQ) - Capillary Sequencing (WI-GGP-SOP-TES-CAPSEQ) - Multiplex Ligation-dependent Probe Amplification (MLPA) (WI-GGP-SOP-TES-MLPA)
	Bone marrow and blood	AML / ALL common gene fusion by Reverse Transcription Real-time Polymerase Chain Reaction (RT-qPCR)	DNA Diagnostics HemaVision® - 28Q Thermo Fisher QuanStudio7 Methods as documented in <ul style="list-style-type: none"> - RNA Extraction (WI-GGP-SOP-EXT-RNA) - AML/ALL Common Gene Fusion Panel (WI-GGP-SOP-TES-HEMA)
	Molecular Genetics (chemical pathology) Blood	DiGeorge syndrome by Multiplex Ligation-dependent Probe Amplification (MLPA)	Thermo Fisher 3500 / 3500XL Genetic Analysers Methods as documented in DiGeorge MLPA (WI-GGP-SOP-TES-DIG-MLPA)
		Spinal Muscular Atrophy (SMA) by Multiplex Ligation-dependent Probe Amplification (MLPA)	Thermo Fisher 3500 / 3500XL Genetic Analysers Methods as documented in Spinal Muscular Atrophy MLPA (WI-GGP-SOP-TES-SMA-MLPA)