

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局 - 瑪嘉烈醫院病理部

ADDRESS : 2-10 Princess Margaret Hospital Road, Lai Chi Kok, Kowloon, Hong Kong
地址 香港九龍荔枝角瑪嘉烈醫院道二至十號

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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 - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

ADDRESS :

地址

Main Facility

2-10 Princess Margaret Hospital Road, Lai Chi Kok, Kowloon, Hong Kong
香港九龍荔枝角瑪嘉烈醫院道二至十號

- (i) Anatomical Pathology Laboratory, 13/F, Block G
- (ii) Autopsy Service, LG3, Block D
- (iii) Chemical Pathology Laboratory, 11/F, Block G
- (iv) Microbiology Laboratory, 12/F, Block G (Media preparation at Yan Chai Hospital)
- (v) Haematology Laboratory and Blood Bank, 10/F, Block G
- (vi) Toxicology Reference Laboratory, 7/F, Block P
- (vii) Genetics and Genomics Pathology Laboratory, 6/F, Block G
- (viii) Molecular Microbiology and Virology Laboratory, 16/F, Block S

Branch Facility

8 Chung Yan Road, Tung Chung, Lantau, New Territories, Hong Kong
香港新界大嶼山東涌松仁路八號

- (i) Clinical Laboratory, 7/F, North Lantau Hospital

**LABORATORY
DIRECTOR**

化驗所主管

: Pathologist Director 病理學主管:

Dr LUK Shik

陸爽醫生

MBBS(HK), PDipID(HK), MRCP(UK), FRCPath(UK), FRCPath(HK), FHKAM(Pathology)

**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
Clinical Microbiology and Infection	臨床微生物學及傳染病
Haematology	血液學
Immunology	免疫學
Medical Genetics (Molecular Genetics)	醫學遺傳學 (分子遺傳學)

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醫院管理局-瑪嘉烈醫院病理部

Autopsy Service: LG3, Block D, Princess Margaret Hospital

瑪嘉烈醫院 D 座地庫三層

MEDICAL TESTING			
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Anatomical Pathology	Autopsy Adult, fetal and perinatal autopsy	Autopsy examination by Routine and special staining	Autopsy method and specimen preparation: For routine audit autopsy procedure, method as documented in WI-MOR-ROU-AAUEN and WI-MOR-ROU-AAUCH. For perinatal autopsy procedure, method as documented in WI-MOR-AUT-PEREN Routine staining: Haematoxylin and Eosin staining Special staining as in Histopathology Method as documented in WI-APL-STA-STAIN

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Anatomical Pathology Laboratory: 13/F, Block G, Princess Margaret Hospital

瑪嘉烈醫院 G 座十三樓

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Anatomical Pathology	Cytopathology Fine needle aspirates	Fine needle aspiration cytology examination by H&E, Papanicolaou and May-Grunwald Giemsa Staining	Specimen collection and preparation as documented in WI-APL-CYT-FNA Routine staining: Haematoxylin and Eosin stain Papanicolaou stain May-Grunwald Giemsa Stain Methods as documented in WI-APL-STA-STAIN
	Electron microscopy Renal, Skeletal muscle, Nerve, Skin, Peripheral blood, Liver, Bronchial biopsy and Bronchial wash for cilia, Cytology material, Tumour, Misc samples	Histology examination by Transmission Electron Microscopy	Method as documented in WI-APL-TEM-SOP01 and WI-APL-TEM-FEIG2

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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-APL-SPE-RECPT; WI-APL-PRO-OUTLI; WI-APL-EMB-OUTLI and WI-APL-SEC-SECTN.</p> <p>H&E staining (Medité – Tissue Stainer TST30)</p> <p>Special staining (manual method): Method as documented in WI-APL-STA-STAIN.</p> <p>Acid fast bacilli by Ziehl Neelsen</p> <p>Acidic mucins by Alcian blue (pH 0.5 and pH 2.5) or Hale's dialysed iron technique</p> <p>Amyloid by Highma's Congo Red</p> <p>Amyloid by Crystal violet (Hucker & Conn)</p> <p>Axon, nerve endings, neurofibrillary tangles, neurotic plaques by Bielschowsky stain (modified)</p> <p>Azurophilic granules and granulocytes by Giemsa technique</p> <p>Basement membrane by Periodic Acid Silver Methenamine (PASM)</p> <p>Calcium salts by von Kossa</p> <p>Calcium salts by modified von Kossa</p> <p>Collagen and muscle by Masson trichrome</p> <p>Copper by Rhodamine technique</p> <p>Eosinophils by Carbol chromotrope</p> <p>Elastic fibre and connective tissue by Victoria Van Gieson</p> <p>Fibrin by Martius yellow-Brilliant Crystal Scarlet-S-soluble blue</p> <p>Fungi by Grocott hexamine silver</p> <p>Glycol groups by Periodic acid-Schiff (PAS)</p> <p>Gram positive and negative bacteria by Gram Technique</p> <p>Haemosiderin by Perl's Prussian blue</p> <p>Helicobacter pylori by Price's Giemsa</p> <p>Hepatitis B antigens by Shikata's Orcein technique</p> <p>Histological architecture by Haematoxylin & Eosin</p> <p>Hyaluronidasedigestion of Mucins by Alcian blue</p> <p>Lipofuscin by Long Ziehl-Neelsen</p> <p>Melanin, argentaffin, chromaffin cells by Schmorl</p> <p>Melanin, argentaffin, lipofuscin, chromaffincells by Masson Fontana</p> <p>Mucin and capsule of Cryptococcus neoformans by Southgate's mucicarmine</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): Mycobacteria (M. leprae) by Wade Fite Normal myelin by Luxol Fast Blue Nemaline rods by Gomori trichrome technique (modified) 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 Urate by Hexamine silver technique
	Intra-operative frozen section for fresh tissue specimens and biopsies	Histology examination by H&E staining	Specimen preparation and H&E staining (manual) as documented in WI-APL-FRZ-UFRZS
	Fresh tissue specimens and biopsies; special specimens	Histology examination and enzyme histochemistry by Special staining (manual) and enzyme histochemistry tests	Specimen preparation as documented in WI-APL-MUS-MUSLE Special staining (manual) for muscle: Method as documented in WI-APL-STA-STAIN. One step Gomori trichrome PAS Oil R O Enzyme histochemistry tests for muscle: Method as documented in WI-APL-ENZ-ENZYM NADH-Tetrazolium Reductase COX COX + SDH Alkaline phosphatase Acid phosphatase Phosphofructokinase Myophosphorylase Enzyme histochemistry tests for rectal biopsy: Method as documented in WI-APL-HIR-HIRSD Acetylcholine esterase

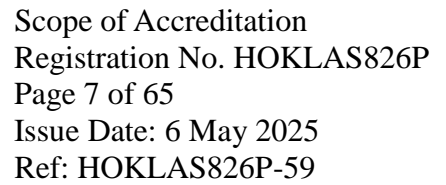
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Anatomical Pathology (cont'd)	Histopathology (cont'd) Fresh tissue specimens and biopsies; special specimens (cont'd) Immunohistochemistry Histological specimens	Histology examination and enzyme histochemistry by Special staining (manual) and enzyme histochemistry tests (cont'd) Immunohistochemical examination for various antigen markers by Automated staining method	Handling and processing of nerve biopsy: WI-APL-TEM-SOP01 Handling of un-decal metabolic bone: WI-APL-MET-BONE1 - resin embedding Slide preparation and staining (Dako Cytomation Austostainer Link48) : Method as documented in WI-APL-IHC-AUSTR Detection system: Dako Cytomation Envision detection system Slide preparation and staining (BOND III): Method as documented in WI-APL-IHC-AUBON Detection system: BOND Polymer Detection Kit Slide preparation and staining (VENTANA Benchmark ULTRA instrument): Method as documented in WI-APL-IHC-ULTRA Detection system: ultraView DAB Detection Kit Antigen retrieval: Dako PT Link with Dako EnVision Flex kit high pH retrieval buffer Trypsin digestion (37°C) Dako PT Link with Dako EnVision Flex kit low pH retrieval buffer Ventana Benchmark Ultra by using the CC1 retrieval reagent



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Anatomical Pathology (cont'd)	Immunohistochemistry (cont'd) Renal and skin biopsies	Immunofluorescence examination by Manual method	Specimen preparation and staining by Direct Immunofluorescence (manual): For renal biopsy: IgA / IgM / IgG / C1q/Complement 3/ Fibrinogen / Kappa / Lambda / HBsAg / HBcAg (Documented in WI-APL-REN-RENAL) For skin biopsy: IgA / IgM / IgG /Fibrinogen /Complement 3/ Type IV Collagen (MAB1, MAB3, MAB5)
		Automated method	Specimen preparation and staining by Direct Immunofluorescence (automated): For renal biopsy: IgA / IgM / IgG / C1q / Complement 3 / Fibrinogen / Kappa / Lambda For skin biopsy: IgA / IgM / IgG / Fibrinogen / Complement 3 Method as documented in WI-APL-IMF-IMF

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Medical Genetics	Molecular Genetics (anatomical pathology)		
	Formalin fixed paraffin embedded tissue	Epstein-Barr Virus Early RNA (EBV EBER) by In-situ Hybridization (ISH)	Slide stainer, BOND-III Method as documented in WI-APL-SOP-MTISH
		Kappa and Lambda mRNA by In-situ Hybridization (ISH)	Slide stainer, BOND-III Method as documented in WI-APL-SOP-MTISH
	Breast and gastric tissues	Amplification of Erb-B2 receptor tyrosine kinase 2 (ERBB2)- HER2 by Fluorescence In-situ Hybridization (FISH)	Fluorescence In-situ Hybridization (FISH) with PathVysion HER-2 DNA Probe and Dako histology FISH accessory kit Analysis with BioView FISH Instrumentation
	Formalin fixed paraffin embedded lung cancer specimens	Detection of Anaplastic Lymphoma Kinase (ALK) gene rearrangement by Fluorescence In-situ Hybridization (FISH)	Fluorescence In-situ Hybridization (FISH) with Vysis Break Apart FISH probe kit and Dako histology FISH accessory kit using method as documented in WI-APL-MGT-ALKFT and WI-MGT-ALKEG Analysis with BioView FISH instrumentation
	Formalin fixed paraffin embedded brain tumour	Detection of deletions involving the human chromosomal regions 1p36.31 and 19q13.32-q13.33 by Fluorescence In-situ Hybridization (FISH)	Fluorescence In-situ Hybridization (FISH) with Vysis LSI 1p36 SpectrumOrange/1q25 SpectrumGreen Probes and Vysis LSI 19q13 SpectrumOrange/19p13 SpectrumGreen Probes Kit and Dako histology FISH accessory kit using method as documented in WI-APL-MGT-FISHT Analysis with BioView FISH instrumentation
	Formalin fixed paraffin embedded tissue	Detection of <i>ROS1</i> gene rearrangement in chromosomal region 6q22.1 by Fluorescence In-situ Hybridization (FISH)	Fluorescence In-situ Hybridization (FISH) with Zytovision ROS1 dual color break apart probe and Dako histology FISH accessory kit using method as documented in WI-APL-MGT-FISHT Analysis with BioView FISH instrumentation

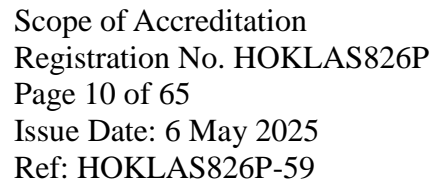
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醫院管理局-瑪嘉烈醫院病理部

Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital

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Chemical Pathology	Biogenic Amine Urine	Adrenaline by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-TCAT using Waters Xevo TQS LCMS/MS
		Dopamine by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-TCAT using Waters Xevo TQS LCMS/MS
		Noradrenaline by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-TCAT using Waters Xevo TQS LCMS/MS
		Homovanillic acid by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-THIAA using Waters Xevo TQS LCMS/MS
		Metanephrine by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-TCAT using Waters Xevo TQS LCMS/MS
		Normetanephrine by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-TCAT using Waters Xevo TQS LCMS/MS
		3-Methoxytyramine by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-TCAT using Waters Xevo TQS LCMS/MS
		5-Hydroxyindoleacetic acid by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-THIAA using Waters Xevo TQS LCMS/MS



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Chemical Pathology (cont'd)	Blood gases and co-oximetry Heparinized blood	Blood Gas include:	
		pCO ₂ by Potentiometry	Siemens RL 1265 Blood Gas Analyzer
		pH by Potentiometry	Siemens RL 1265 Blood Gas Analyzer
		pO ₂ by Potentiometry	Siemens RL 1265 Blood Gas Analyzer
		Base Excess by Auto calculation	Siemens RL 1265 Blood Gas Analyzer
		Bicarbonate by Auto calculation	Siemens RL 1265 Blood Gas Analyzer
		O ₂ Saturation by Auto calculation	Siemens RL 1265 Blood Gas Analyzer
		Carboxyhaemoglobin by Co-oximetry	Siemens RL 1265 Blood Gas Analyzer
		Ionized Calcium by Potentiometry	Siemens RL 1265 Blood Gas Analyzer
		Methaemoglobin by Co-oximetry	Siemens RL 1265 Blood Gas Analyzer

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Chemical Pathology (cont'd)	General Chemistry		
	Plasma	Alanine Aminotransferase (ALT) by Spectrophotometry	Roche cobas 8000 system, ALTPM assay
	Fluid, plasma	Albumin by Spectrophotometry	Roche cobas 8000 system, ALBP assay
	Urine	Albumin by Spectrophotometry	Roche cobas 8000 system, ALBT2 assay
	Plasma	Alkaline Phosphatase (ALP) by Spectrophotometry	Roche cobas 8000 system, ALP2 assay
		Ammonia by Spectrophotometry	Roche cobas 8000 system, NH3L2 assay
	Fluid, plasma, urine	Amylase by Spectrophotometry	Roche cobas 8000 system, AMYL2 assay
	Plasma	Aspartate Aminotransferase (AST) by Spectrophotometry	Roche cobas 8000 system, ASTPM assay
		Bicarbonate by Spectrophotometry	Roche cobas 8000 system, CO2-L assay
		Bilirubin, Direct by Spectrophotometry	Roche cobas 8000 system, BILD2 assay
	Fluid, plasma	Bilirubin, Total by Spectrophotometry	Roche cobas 8000 system, BILT3 assay
	Fluid, plasma, urine	Calcium by Spectrophotometry	Roche cobas 8000 system, CA2 assay
		Chloride by Potentiometry	Roche cobas 8000 system, ISE-CL assay
	Plasma, fluid	Cholesterol, Total by Spectrophotometry	Roche cobas 8000 system, CHOL2 assay

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Chemical Pathology (cont'd)	General Chemistry (cont'd) Plasma	Cholesterol High Density Lipoprotein, (HDL-C) by Spectrophotometry	Roche cobas 8000 system, HDLC4 assay
		Cholesterol Low Density Lipoprotein, (LDL-C) by Spectrophotometry	Roche cobas 8000 system, LDLC3 assay
		Creatine Kinase (CK) by Spectrophotometry	Roche cobas 8000 system, CK2 assay
	Fluid, plasma, urine	Creatinine by Enzymatic method	Roche cobas 8000 system, CREA2 assay
	Plasma	Gamma Glutamyl Transferase (GGT) by Spectrophotometry	Roche cobas 8000 system, GGT-2 assay
	CSF, plasma, fluid	Glucose by Enzymatic method	Roche cobas 8000 system, GLUC3 assay
	Serum	Iron by Spectrophotometry	Roche cobas 8000 system, IRON2 assay
	CSF, plasma	Lactate by Spectrophotometry	Roche cobas 8000 system, LACT2 assay
	Fluid, plasma	Lactate dehydrogenase (LDH) by Spectrophotometry	Roche cobas 8000 system, LDHI2 assay
	Plasma, urine	Magnesium by Spectrophotometry	Roche cobas c502 system, MG-2 assay
		Osmolality by Freezing Point Depression	Arkray osmo station
	Fluid, urine	pH by Potentiometry	Thermo Scientific Orion Star A111 pH Benchtop Meter

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Chemical Pathology (cont'd)	General Chemistry (cont'd)		
	Fluid, plasma, urine	Phosphate by Spectrophotometry	Roche cobas 8000 system, PHOS2 assay
		Potassium by Potentiometry	Roche cobas 8000 system, ISE-K assay
	CSF	Protein, Total by Turbidimetry	Roche cobas 8000 system, TPC3 assay
	Fluid, plasma	Protein, Total by Spectrophotometry	Roche cobas 8000 system, TP2 assay
	Fluid, plasma, urine	Sodium by Potentiometry	Roche cobas 8000 system, ISE-NA assay
	Plasma, fluid,	Triglycerides by Spectrophotometry	Roche cobas 8000 system, TRIGL assay
	Plasma	Triglycerides-Glycerol Blanked by Spectrophotometry	Roche cobas 8000 system, Triglycerides/Glycerol Blanked assay
	Serum	Unsaturated Iron Binding Capacity (UIBC) by Spectrophotometry	Roche cobas 8000 system, UIBC assay
	Fluid, plasma, urine	Urea by Spectrophotometry	Roche cobas 8000 system, UREAL assay
	Plasma, urine	Uric acid by Spectrophotometry	Roche cobas 8000 system, UA2 assay

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Chemical Pathology (cont'd)	Hormones		
	EDTA plasma	Adrenocorticotrophic Hormone (ACTH) by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys ACTH assay
	Serum	Cortisol by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys Cortisol II assay
		Estradiol (E2) by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys Estradiol III assay
		Follicle stimulating hormone (FSH) by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys FSH assay
		Human chorionic gonadotrophin (β -HCG), Total by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys HCG-BETA assay
		Insulin by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys Insulin assay
		Luteinizing hormone (LH) by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys LH assay
		Parathyroid hormone (PTH) by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys PTH assay

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Chemical Pathology (cont'd)	Hormones (cont'd) Serum (cont'd)	Progesterone by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys Progesterone III assay
		Prolactin by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys Prolactin II assay
		Macroprolactin screening by PEG precipitation	Methods as documented in WI-CCP-TSM-IMPRL using Roche cobas 8000 system, Elecsys Prolactin II assay
		Testosterone by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys Testosterone II assay
		Thyroid stimulating hormone (TSH) by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys TSH assay
		Thyroxine, Free (FT4) by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys FT4 IV assay
		Tri-iodothyronine, Free (FT3) by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys FT3 III assay
	Inborn Errors of Metabolism		
	Plasma	Acylcarnitine profile by Liquid Chromatography-Mass Spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-TPAC using Waters Xevo TQ
	Plasma	Beta-hydroxybutyrate by Spectrophotometry	Roche cobas 8000 system, Randox D-3-Hydroxybutyrate assay
	Urine	Metabolic profile by Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-TUMPLC using Waters Xevo TQ

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital

瑪嘉烈醫院 G 座十一樓

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Chemical Pathology (cont'd)	Inborn Errors of Metabolism (cont'd)		
	Urine (cont'd)	Mucopolysaccharides by Electrophoresis	Methods as documented in WI-CCP-TSM-TUMUC using Beckman Electrophoresis analyser
	Urine	Reducing substances, qualitative by Colorimetric method	Methods as documented in WI-CCP-TSM-TURS using Fisher Scientific Benedict's reagent
		Sulphite by Dipstick method	Merck, Merckoquant Sulfite Test Strip
	Protein, qualitative analysis		
	Serum	Cryoglobulin by Precipitation in cold	Methods as documented in WI-CCP-TSM-TCRY
	Protein, quantitative analysis		
	Serum	C-Reactive Protein (CRP) by Immunoturbidimetry	Roche cobas 8000 system, CRP4 assay
		Ferritin by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys Ferritin assay

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital

瑪嘉烈醫院 G 座十一樓

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Chemical Pathology (cont'd)	Special Chemistry		
	Urine	Chyle by Microscopy	Methods as documented in WI-CCP-TSM-TUCHY
	Serum	Indocyanine green by Spectrophotometry	Methods as documented in WI-CCP-TSM-TICG using Agilent Cary 60 UV-Vis spectrophotometer
	Urine	Porphobilinogen by Spectrophotometry	Methods as documented in WI-CCP-TSM-TUPBG using Agilent Cary 60 UV-Vis spectrophotometer
		Porphyrins by Spectrophotometry	Methods as documented in WI-CCP-TSM-TUPOR using Agilent Cary 60 UV-Vis spectrophotometer

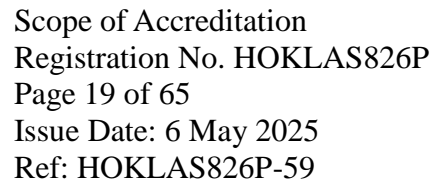
Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital

瑪嘉烈醫院 G 座十一樓

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Chemical Pathology (cont'd)	Therapeutic Drug Monitoring Serum	Amikacin by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, AMIK2 assay
		Carbamazepine by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, CARB4 assay
	EDTA blood	Cyclosporin A by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-YCYCTQS using Waters TQS LCMS/MS
	Serum	Digoxin by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, DIG assay
		Gentamicin by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, GENT2 assay
		Lithium by Spectrophotometry	Roche cobas 8000 system, LI assay
		Methotrexate by Spectrophotometry	Roche cobas 8000 system, ARK Methotrexate 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
		Tacrolimus by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-YTACTQS using Waters TQS LCMS/MS
	EDTA blood		
	Serum	Theophylline by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, THEO2 assay



醫院管理局-瑪嘉烈醫院病理部
Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital
瑪嘉烈醫院 G 座十一樓

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Chemical Pathology (cont'd)	Therapeutic Drug Monitoring (cont'd) Serum (cont'd)	Valproate by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, VALP2 assay
		Vancomycin by Immunoassay (Kinetic interaction of microparticles in solution)	Roche cobas 8000 system, VANC3 assay

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital

瑪嘉烈醫院 G 座十一樓

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Chemical Pathology (cont'd)	Toxicology Serum	Acetaminophen (Paracetamol) by Enzymatic method	Roche cobas 8000 system, ACET2 assay
		Cholinesterase by Spectrophotometry	Roche cobas 8000 system, CHE2 assay
	Gastric lavage, urine	Cyanide, Screening by Colorimetric method	Merck analytical Cyanide test strips
	Serum	Ethanol by Spectrophotometry	Roche cobas 8000 system, ETOH2 assay
		Methanol, Screening by Colorimetric method	Methods as documented in WI-CCP-TSM-EMETH
	Urine	Paraquat, Screening by Colorimetric method	Methods as documented in WI-CCP-TSM-TPARQ
	Serum	Salicylate by Spectrophotometry	Roche cobas 8000 system, SALI assay

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital

瑪嘉烈醫院 G 座十一樓

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Chemical Pathology (cont'd)	Tumour Markers Serum	Alpha-fetoprotein (AFP) by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys AFP assay
		CA 125 by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys CA 125 II assay
		CA 19-9 by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys CA 19-9 assay
		Carcinoembryonic antigen (CEA) by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys CEA assay
		Chromogranin A by Immunofluorescent assay	Thermo Scientific Kryptor Compact Plus Immunoanalyser B.R.A.H.M.S. CgA II Assay
		Prostate specific antigen (PSA) by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys total PSA assay
		Free prostate specific antigen by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys free PSA assay
	Urinalysis Urine	Myoglobin by Dipstick method	Bayer Haemastix reagent strips
		Urobilinogen by - Dipstick method - Confirmatory test by Ehrlich's reagent	Roche ComburTest® Test Strip Methods as documented in WI-CCP-TSM-TURO

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Chemical Pathology Laboratory: 11/F, Block G, Princess Margaret Hospital

瑪嘉烈醫院 G 座十一樓

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Immunology	Immunochemistry Serum	C3 Complement (C3) by Immunoturbidimetry	Roche cobas 8000 system, C3C-2 assay
		C4 Complement (C4) by Immunoturbidimetry	Roche cobas 8000 system, C4-2 assay
		Ceruloplasmin by Immunoturbidimetry	Roche cobas 8000 system, CERU assay
		Haptoglobin by Immunoturbidimetry	Roche cobas 8000 system, HAPT2 assay
		Immunoglobulins IgA by Immunoturbidimetry	Roche cobas 8000 system, IgA-2 assay
		Immunoglobulins IgG by Immunoturbidimetry	Roche cobas 8000 system, IgG-2 assay
		Immunoglobulins IgM by Immunoturbidimetry	Roche cobas 8000 system, IgM-2 assay
		Thyroglobulin by Immunoassay	Roche cobas 8000 system, Tg II assay
		Vitamin D by Immunoassay (Electrochemiluminescence label)	Roche cobas 8000 system, Elecsys Vitamin D total III assay

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Microbiology Laboratory: 12/F, Block G, Princess Margaret Hospital

瑪嘉烈醫院 G 座十二樓

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Clinical Microbiology and Infection	Bacteriology – Culture and sensitivity and/or gram microscopy Blood Culture	Culture and antimicrobial susceptibility tests for pathogens by Aerobic and anaerobic broth culture	Method as documented in WI-MIC-BAC-BLOOD BACT/ALERT Method as documented in WI-MIC-BAC-BLOOD Blood culture BD BACTEC FX
	CSF	Microscopy for - Cell count by Counting chamber - Microorganisms by Gram Stain - Encapsulated yeast by India Ink Stain Microscopy for - Cell count by automated method Culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO ₂ culture	Method as documented in WI-MIC-BAC-CSFCU Sysmex XN-350 Method as documented in WI-MIC-BAC-CSFCU
	Enteric samples (including stool and rectal swab)	Culture and antimicrobial susceptibility tests for enteric pathogens by Aerobic, anaerobic and microaerophilic culture	Method as documented in WI-MIC-BAC-FECAL
	Genital samples (including HVS, endo-cervical swab, urethral swab, 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-MIC-BAC-GENIT Method as documented in WI-MIC-BAC-GENIT

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Microbiology Laboratory: 12/F, Block G, Princess Margaret Hospital

瑪嘉烈醫院 G 座十二樓

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Clinical Microbiology and Infection (cont'd)	Bacteriology – Culture and sensitivity and/or gram microscopy (cont'd) Miscellaneous samples (including body fluid, swab, pus, tissue etc.)	Microscopy for cell morphology and microorganisms by Gram Stain	Method as documented in WI-MIC-BAC-MISCU Method as documented in WI-MIC-BAC-BODYF
		Cell count (internal body fluid) by counting chamber automated method	Method as documented in WI-MIC-BAC-BODYF Sysmex XN-350
		Culture and antimicrobial susceptibility tests for pathogens by Aerobic, CO ₂ and anaerobic culture	Method as documented in WI-MIC-BAC-BODYF Method as documented in WI-MIC-BAC-MISCU
	Lower respiratory tract samples (including sputum, bronchial aspirate, tracheal aspirate etc.)	Microscopy for cell morphology and microorganisms by Gram Stain	Method as documented in WI-MIC-BAC-LORTI
		Culture and antimicrobial susceptibility tests for respiratory tract pathogens by Aerobic and CO ₂ culture	Method as documented in WI-MIC-BAC-LORTI
	Bronchioalveolar lavage (BAL) and Protected bronchial brush	Microscopy for cell morphology and microorganisms by Gram Stain	Method as documented in WI-MIC-BAC-LORTI
		Quantitative culture and antimicrobial susceptibility tests for pathogens by Aerobic and CO ₂ culture	Method as documented in WI-MIC-BAC-LORTI
	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	Method as documented in WI-MIC-BAC-UPRTI
	Urine	Culture and antimicrobial susceptibility tests for pathogens by Standard loop method	Method as documented in WI-MIC-BAC-URINE

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Microbiology Laboratory: 12/F, Block G, Princess Margaret Hospital

瑪嘉烈醫院 G 座十二樓

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Clinical Microbiology and Infection (cont'd)	Bacteriology – Serology		
	Urine	Detection of <i>Legionella pneumophila</i> serogroup 1 antigen in urine by Rapid immunochromatographic assay	Binax NOW <i>Legionella</i> Urinary Antigen Test
		Detection of <i>Streptococcus pneumoniae</i> antigen in urine by Rapid immunochromatographic assay	Binax NOW <i>Streptococcus pneumoniae</i> Urinary Antigen Test
	Miscellaneous		
	Urine	Pregnancy Test (Urine hCG) by Rapid chromatographic Immunoassay for the qualitative detection of human chorionic gonadotropin in urine	SureStep One Step hCG Pregnancy Test
	Autoclave biological indicator	Processing of autoclave biological indicator	3M Attest 1262 B.I./Steam
	Clotted blood	Human procalcitonin, PCT by Enzyme-linked Fluorescent Assay Immunoassay (Chemiluminescent label)	bioMerieux VIDAS® B-R-A-H-M-S PCT™ Assay using VIDAS 3 Abbott Alinity i BRAHMS PCT reagent Assay Method as documented in WI-MIC-BAC-PCT ALINITY
	Mycobacteriology - Microscopy		
	Respiratory specimens	Microscopy for acid fast bacilli (AFB) by - Auramine O fluorescent stain - Ziehl-Neelsen stain	Method as documented in WI-MIC-BAC-STAIN
	Mycology – Culture, ID and serology		
	Blood culture, bone marrow, samples from central nervous system, enteric samples, genital samples, respiratory samples, miscellaneous samples (including body fluid, swab, pus, tissue etc.), and urological samples	Culture for fungi and identification by Conventional method	Method as documented in WI-MIC-BAC-MYCOL

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

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瑪嘉烈醫院 G 座十二樓

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Clinical Microbiology and Infection (cont'd)	Mycology – Culture, ID and serology (cont'd)		
	Nasal, axilla and Groin swabs	<i>Candida auris</i> culture	Chrom agar culture Method as documented in WI-MIC-BAC-MDROS Multi-drug resistant organisms screening
	CSF & Serum	Cryptococcal antigen by - Qualitative latex agglutination test - Quantitative latex agglutination test	Meridian Bioscience Cryptococcal Antigen Latex Agglutination System (CALAS)
	Serum	Galactomannan(<i>Aspergillus</i> antigen) by one-stage immunoenzymatic sandwich microplate assay	Platelia™ <i>Aspergillus</i> Ag test kit

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

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Clinical Microbiology and Infection (cont'd)	Mycology - Microscopy		
	Dermatological samples (including tissue, skin, hair and nail)	Microscopy for fungal filaments and yeasts by KOH preparation	Method as documented in WI-MIC-BAC-MYCOL
	BAL	Microscopy for - Fungal filament by Calcofluor white Stain - Yeasts by Gram Stain	Method as documented in WI-MIC-BAC-MYCOL Method as documented in WI-MIC-BAC-MYCOL
	Parasitology - Microscopy and Staining		
	Stool	Microscopy for enteric parasites by Concentration method	Method as documented in WI-MIC-BAC-PARAS
		Microscopy for Amoeba by Direct smear and concentration method	Method as documented in WI-MIC-BAC-PARAS
		Microscopy for fecal protozoa by - Wheatley's trichrome stain - Acid fast trichrome stain	Method as documented in WI-MIC-BAC-PARAS Method as documented in WI-MIC-BAC-PARAS
	Parasitology – Serology		
	Serum	<i>Entamoeba histolytica</i> antibody by Immunoassay (Enzyme-based label) (IgG)	RIDASCREEN <i>Entamoeba histolytica</i> IgG Method as documented in WI-MIC-VIR-AMOAB Antibody Amoebiasis Antibody Bordier <i>Entamoeba histolytica</i> ELISA kit Method as documented in WI-MIC-VIR-AMOAB Amoebiasis Antibody
	Syphilis - Serology		
	Serum	<i>Treponema pallidum</i> antibody by Immunoassay (Chemiluminescent label)	Abbott Alinity i Syphilis TP reagent Assay

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Microbiology Laboratory: 12/F, Block G, Princess Margaret Hospital

瑪嘉烈醫院 G 座十二樓

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Clinical Microbiology and Infection (cont'd)	Urinalysis and/or urine microscopy Urine	Urine chemical test by visual, including: - Glucose - Protein	Method as documented in WI-MIC-BAC-URINE
		Urine formed elements by Microscopic examination with fixed volume in microtitre plate	Method as documented in WI-MIC-BAC-URINE
		Human urine particles by Flow Cytometry	Automated System: Sysmex UF-5000 Urine Particle Analyser Method as documented in WI-MIC-BAC-URINE

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Microbiology Laboratory: 12/F, Block G, Princess Margaret Hospital

瑪嘉烈醫院 G 座十二樓

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Clinical Microbiology and Infection (cont'd)	Virology - Serology Serum	Cytomegalovirus antibody by Immunoassay (Chemiluminescent label)	Abbott Alinity i CMV IgG Assay
		Hepatitis A virus antibody (IgM) by Immunoassay (Chemiluminescent label)	Abbott Alinity i HAVAb IgM Assay
		Hepatitis B virus antibody anti-HBs (Semi-Quantitative) by Immunoassay (Chemiluminescent label)	Abbott Alinity i HBsAb (AUSAB) Assay
		anti-HBc by - Immunoassay (Chemiluminescent label) (IgM) - Immunoassay (Chemiluminescent label) (Total)	Abbott Alinity i HBc IgM Assay Abbott Alinity i HBcAb Assay
		anti-HBe by Immunoassay (Chemiluminescent label)	Abbott Alinity i HBeAb Assay
		Hepatitis B virus antigen HBsAg by Immunoassay (Chemiluminescent label)	Abbott Alinity i HBsAg qualitative Assay Abbott Alinity i HBsAg Confirmatory Assay
		HBeAg by Immunoassay (Chemiluminescent label)	Abbott Alinity i HBeAg Assay
		Hepatitis C virus antibody by Immunoassay (Chemiluminescent label)	Abbott Alinity i anti-HCV Assay
		Human immunodeficiency virus antibody by - Immunoassay (Chemiluminescent label) - Enzyme-linked Fluorescent Assay (ELFA)	Abbott Alinity i anti-HIV Combo Assay bioMerieux Vitek ImmunoDiagnostic Assay (VIDAS) HIV DUO for anti-HIV 1 and/or anti-HIV 2
		Varicella zoster virus antibody by - Enzyme-linked Fluorescent Assay (ELFA)	bioMerieux VIDAS Varicella-zoster IgG Assay

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Microbiology Laboratory: 12/F, Block G, Princess Margaret Hospital

瑪嘉烈醫院 G 座十二樓

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Clinical Microbiology and Infection (cont'd)	Molecular Genetics (microbiology) CSF	Central Nervous System (CNS) pathogens detection by Multiplex Polymerase Chain Reaction, qualitative (Target region: <i>Escherichia coli</i> K1, <i>Haemophilus influenza</i> , <i>Listeria monocytogenes</i> , <i>Neisseria meningitidis</i> (encapsulated), <i>Streptococcus agalactiae</i> , <i>Streptococcus pneumoniae</i> , <i>Cytomegalovirus</i> , <i>Enterovirus</i> , <i>Herpes simplex virus 1</i> , <i>Herpes simplex virus 2</i> , <i>Human herpesvirus 6</i> , <i>Human parechovirus</i> , <i>Varicella zoster virus</i> , and <i>Cryptococcus neoformans/gattii</i> : proprietary)	FilmArray Meningitis/Encephalitis (ME) panel Nucleic acid extraction, amplification and detection by FilmArray Meningitis/Encephalitis (ME) panel Method as documented in WI-MIC-VIR-FAME Multiplex PCR for pathogens detection in CSF by FilmArray Meningitis Encephalitis Panel

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Molecular Microbiology and Virology Laboratory: 16/F, Block S, Princess Margaret Hospital

瑪嘉烈醫院 S 座十六樓

MEDICAL TESTING			
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Clinical Microbiology and Infection	Bacteriology - Serology Serum	Brucella antibody by Agglutination test	Method as documented in WI-MIC-VIR-BRUC
		Scrub typhus group antibody by Indirect Immunofluorescence Test	Method as documented in WI-MIC-VIR-RICKE using Australia Rickettsial Reference Lab IFA slides
		Spotted fever group antibody by Indirect Immunofluorescence Test	Method as documented in WI-MIC-VIRC-RICKE using Australia Rickettsial Reference Lab IFA slides
		Streptolysin O antibody by polystyrene particle agglutination assay	Rheumajet ASO
		Typhus group antibody by Indirect Immunofluorescence Test	Method as documented in WI-MIC-VIR-RICKE using Australia Rickettsial Reference Laboratory IFA slides

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Molecular Microbiology and Virology Laboratory: 16/F, Block S, Princess Margaret Hospital

瑪嘉烈醫院 S 座十六樓

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
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Medical Genetics	Molecular Genetics (microbiology) EDTA Blood	<p>Hepatitis B virus – detection by Real time Polymerase Chain Reaction, quantitative (Target region: precore/core region)</p> <p>Hepatitis C virus – detection by Real time Polymerase Chain Reaction, quantitative (Target region: 5' NTR)</p> <p>Hepatitis C virus – genotyping by Real time Polymerase Chain Reaction (Target region: 5'UTR, Core and NS5B gene)</p> <p>Hepatitis C virus – detection and genotyping by Reverse Transcription Polymerase Chain Reaction (RT-PCR) and Sequencing of PCR Product (Target region: 5' Untranslated region)</p> <p>Human immunodeficiency virus-1 viral load - quantitative determination of RNA by Target capture, transcription mediated amplification, and detection of amplified products by fluorescent labelled probes (Target region : pol and LTR region of HIV-1 Genome)</p>	<p>Real Time PCR using Roche cobas HBV Nucleic acid extraction by Roche cobas x 480 instrument Nucleic acid amplification and detection by Roche cobas z 480 analyzer</p> <p>Real Time PCR using Roche cobas HCV Nucleic acid extraction by Roche cobas x 480 instrument Nucleic acid amplification and detection by Roche cobas z 480 analyzer</p> <p>Real Time PCR using Roche cobas HCV GT Nucleic acid extraction by Roche cobas x 480 instrument Nucleic acid amplification and detection by Roche cobas z 480 analyzer</p> <p>RT-PCR and sequencing <i>Primer and test conditions:</i> Young Y et. al. Detection of hepatitis C virus RNA by a combined reverse transcription polymerase chain reaction assay Journal of Clinical Microbiology 1993; 31: 882-886 DNA sequencing using ABI 3130x Genetic Analyzer</p> <p>Hologic Aptima HIV-1 Quant Dx Assay Nucleic acid extraction by Hologic Panther Nucleic acid amplification and detection by Hologic Panther as documented in WI-MIC-VIR-HIVQ Hologic Aptima HIV-1 RNA Quantification Test</p>

Hospital Authority - Princess Margaret Hospital, Department of Pathology

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Medical Genetics (cont'd)	Molecular Genetics (microbiology) (cont'd) EDTA blood (cont'd)	Human immunodeficiency virus-1 Genotyping Resistance test (HIV-1 GRT) by Detection of HIV-1 genomic mutations that confer resistance to specific antiretroviral drugs (Target region: pol gene of HIV-1 Genome)	HIV-1 genotyping Resistance Test (HIV-1 GRT) Nucleic acid extraction, amplification and sequencing by ViroSeq HIV-1 Genotyping System v2.0 PCR amplification by using ABI Veriti thermal cycler sequencing using ABI 3500xL sequencer Method as documented in WI-MIC-VIR-HIVGRT Test (POL gene) ViroSeq HIV-1 Genotyping Resistance Test and WI-MIC-VIR-ABI3500xL Operation guide of ABI 3500xL sequencer HIV-1 genotyping Resistance Test (HIV-1 GRT) Nucleic acid extraction by EZ1&2 Virus Mini Kit v2.0 and EZ1 Advanced XL instruments PCR amplification and sequencing by Thermo Fisher HIV-1 Genotyping Kit: Amplification and cycle sequencing module PCR amplification using ABI Veriti thermal cycler/Proflex and sequencing using ABI 3500xL Method as documented in WI-MIC-VIR-HIV1GRT ABI HIV-1 Genotyping Resistance Test
	Respiratory Samples (Nasopharyngeal aspirate (NPA), nasopharyngeal swab (NPS), throat & nasal swabs)	<i>Chlamydia pneumoniae</i> – detection by Real time Polymerase Chain Reaction, qualitative (Target region: J38 genomic region)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system or Roche Diagnostics High Pure PCR Template Preparation Kit Nucleic acid amplification and detection as documented in WI-MIC-VIR-CPPCR using LightCycler 2.0, Roche
	Respiratory Samples (Nasopharyngeal aspirate (NPA), bronchioalveolar lavage (BAL), endotracheal aspirate (ETA) & sputum)	Human Metapneumovirus (MPV) – detection by Real time Polymerase Chain Reaction, qualitative (Target region: viral fusion protein gene)	Nucleic acid extraction by MagNA Pure 96 automated nucleic acid extraction system or NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in WI-MIC-VIR-HPMV using LightCycler 480 II, Roche

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Molecular Microbiology and Virology Laboratory: 16/F, Block S, Princess Margaret Hospital

瑪嘉烈醫院 S 座十六樓

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Medical Genetics (cont'd)	Molecular Genetics (microbiology) (cont'd) Respiratory Samples (Nasopharyngeal aspirate (NPA), nasopharyngeal swab (NPS), throat & nasal swabs) Respiratory Samples (Nasopharyngeal aspirate (NPA), nasopharyngeal swab (NPS), throat & nasal swabs) (cont'd)	Influenza A and B virus – detection by Reverse Transcription and Real time Polymerase Chain Reaction , qualitative (Target region: Influenza A - M gene Influenza B - HA gene)	Nucleic acid extraction by MagNAPure 96automated nucleic acid extraction system or NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in WI-MIC-VIR-ABIC using LightCycler 480 II, Roche
		Influenza A virus (H1& H3 subtype) – detection by Reverse Transcription and Real time Polymerase Chain Reaction, qualitative (Target region: HA gene)	Nucleic acid extraction by MagNAPure 96automated nucleic acid extraction system or NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in WI-MIC-VIR-TYPE using LightCycler 480 II, Roche
		Influenza A virus (H5 subtype) – detection by Reverse Transcription and Real time Polymerase Chain Reaction, qualitative (Target region: HA gene)	Nucleic acid extraction by MagNAPure 96automated nucleic acid extraction system or NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in WI-MIC-VIR-TYPEusingLightCycler 480 II, Roche
		Influenza A virus (H7N9 subtype) – detection by Reverse Transcription and Real time Polymerase Chain Reaction, qualitative (Target region: H7 - HA gene N9 - NA gene)	Nucleic acid extraction by MagNAPure 96automated nucleic acid extraction system or NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in WI-MIC-VIR-TYPE using LightCycler 480 II, Roche
		<i>Mycoplasma pneumoniae</i> – detection by Real time Polymerase Chain Reaction, qualitative (Target region: P1 gene)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system or MagNA Pure 96 automated nucleic acid extraction system Nucleic acid amplification and detection as documented in WI-MIC- VIR-MPPCR using LightCycler 2.0, Roche and LightCycler 480 II, Roche

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Molecular Microbiology and Virology Laboratory: 16/F, Block S, Princess Margaret Hospital

瑪嘉烈醫院 S 座十六樓

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Medical Genetics (cont'd)	Molecular Genetics (microbiology) (cont'd) Respiratory Samples (Nasopharyngeal aspirate (NPA), nasopharyngeal swab (NPS), deep throat saliva (DTS), combined nasal and throat swab, sputum, endotracheal aspirate (ETA))	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Reverse Transcription and Real time Polymerase Chain Reaction, qualitative (Target region: E gene and N gene) Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Reverse Transcription and Real time Polymerase Chain Reaction, qualitative (Target region: E gene and N2 gene) Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), Influenza A virus, Influenza B virus and respiratory syncytial virus - detection by Reverse Transcription and Real time Polymerase Chain Reaction, qualitative (Target region: SARS-CoV-2: E gene and N2 gene Influenza A virus: M, PB2 and PA gene Influenza B virus: M and NS gene RSV: RSV A and RSV B nucleocapsid gene)	TibMolbiol LightMix Kits SARS-CoV-2 E+N UBC Assay Nucleic acid extraction by NucliSENS EMAG automated nucleic acid extraction system or MagNA Pure 96 automated nucleic acid extraction system Nucleic acid amplification and detection using Roche LightCycler 480 II machine Method as documented in WI-MIC-VIR-SARS CoV-2 PCR Assays in Kowloon West Cluster Cepheid Xpress SARS-CoV-2 Assay Nucleic acid amplification and detection of SARS-CoV-2 viral RNA in Cepheid GeneXpert System Method as documented in WI-MIC-VIR-XPRT XPRESS SARS-COV-2 PCR Cepheid Xpress SARS-CoV-2/Flu/RSV Assay Nucleic acid amplification and detection of SARS-CoV-2, Influenza A, Influenza B and Respiratory Syncytial viral RNA in Cepheid GeneXpert System. Method as documented in WI-MIC-VIR-COMBO XPRESS COMBO SARS-COV-2 FLU RSV PCR

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Molecular Microbiology and Virology Laboratory: 16/F, Block S, Princess Margaret Hospital

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Medical Genetics (cont'd)	Molecular Genetics (microbiology) (cont'd) Respiratory Samples (Nasopharyngeal aspirate (NPA), nasopharyngeal swab (NPS), deep throat saliva (DTS), combined nasal and throat swab, sputum, endotracheal aspirate (ETA)) (cont'd)	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) - detection by Reverse Transcription and Real time Polymerase Chain Reaction, qualitative (Target region: E gene) Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) - detection by Reverse Transcription and Real time Polymerase Chain Reaction, qualitative (Target region: Orf1ab gene and E gene)	TibMolbiol LightMix SarbecoV E-gene plus EAV control assay Nucleic acid extraction by NucliSENS easyMAG/EMAG automated nucleic acid extraction system or MagNA Pure 96 automated nucleic acid extraction system Nucleic acid amplification and detection using Roche LightCycler 480 II machine Method as documented in WI-MIC-VIR-SARS-CoV-2 detection by Roche TIBMIOL Realtime PCR kits cobas SARS-CoV-2 Nucleic acid extraction, amplification and detection by cobas 6800 system Method as documented in WI-MIC-VIR-COBASCOV2 cobas SARS-CoV-2 PCR in cobas 6800 and 8800 systems and WI-MIC-VIR-COBAS Operation guide of cobas 6800and cobas 8800 systems

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Molecular Microbiology and Virology Laboratory: 16/F, Block S, Princess Margaret Hospital

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Medical Genetics (cont'd)	Molecular Genetics (microbiology) (cont'd) Respiratory Samples (Nasopharyngeal aspirate (NPA), nasopharyngeal swab (NPS), deep throat saliva (DTS), combined nasal and throat swab, sputum, endotracheal aspirate (ETA)) (cont'd)	Respiratory viral nucleic acid detection by - Multiplex Polymerase Chain Reaction, qualitative (Target region: SARS-CoV-2: M gene and S gene; Bordetella pertussis: Petussis Toxin promotor, ptxP; Bordetella parapertussis: IS1001; Adenovirus, Human Metapneumovirus, Coronavirus 229E, Coronavirus HKU1, Coronavirus NL63, Coronavirus OC43, Influenza A virus H1, Influenza A virus H1-2009, Influenza A virus H3, Influenza B virus, Parainfluenza virus 1, Parainfluenza virus 2, Parainfluenza virus 3, Parainfluenza virus 4, Respiratory syncytial virus, Human Rhinovirus and/or Enterovirus, Chlamydia pneumoniae, and Mycoplasma pneumoniae: proprietary) - Reverse Transcription and Real Time Polymerase Chain Reaction, qualitative (Target region: SARS-CoV-2: M gene and S gene; Bordetella pertussis: Petussis Toxin promotor, ptxP; Bordetella parapertussis: IS1001; Adenovirus, Human Metapneumovirus, Coronavirus 229E, Coronavirus HKU1, Coronavirus NL63, Coronavirus OC43, Influenza A virus H1, Influenza A virus H1-2009, Influenza A virus H3, Influenza B virus, Parainfluenza virus 1, Parainfluenza virus 2, Parainfluenza virus 3, Parainfluenza virus 4, Respiratory syncytial virus, Human Rhinovirus and/or Enterovirus, Chlamydia pneumoniae, and Mycoplasma pneumoniae: proprietary)	BioFire Respiratory Panel 2.1 (RP2.1) Nucleic acid extraction, amplification and detection by BioFire Respiratory Panel 2.1 (RP2.1) Method as documented in WI-MIC-VIR-FARP Respiratory Pathogens Detection by FilmArray Respiratory and CoV Panel BioFire Respiratory Panel 2.1 (RP2.1 plus) Nucleic acid extraction, amplification and detection by BioFire Respiratory Panel 2.1 (RP2.1 plus) Method as documented in WI-MIC-VIR-FARP Respiratory Pathogens Detection by FilmArray Respiratory and CoV Panel

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Molecular Microbiology and Virology Laboratory: 16/F, Block S, Princess Margaret Hospital

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Medical Genetics (cont'd)	Molecular Genetics (microbiology) (cont'd)		
	Respiratory Samples (Nasopharyngeal aspirate (NPA), nasopharyngeal swab (NPS))	Influenza A virus, Influenza B virus and Respiratory syncytial virus – detection by Reverse Transcription and Real time Polymerase Chain Reaction, qualitative (Target region: 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 as documented in WI-MIC-VIR-XPCR using Cepheid GeneXpert
	Stool	<i>Clostridium difficile</i> – detection by Real time Polymerase Chain Reaction, qualitative (Target region: tcdC gene) Norovirus /Rotavirus / Astrovirus /Adenovirus / Sapovirus - detection by Real time Polymerase Chain Reaction, qualitative (Target region: Norovirus G1: ORF 1-2 junction Norovirus G2 : ORF 1-2 junction Rotavirus: segment 7, NSP3 gene Astrovirus: outer capsid protein gene Adenovirus: hexon gene Sapovirus: polymerase-capsid junction in ORF1)	Nucleic acid extraction by NucliSENS easyMAG automated nucleic acid extraction system or Roche Diagnostics High Pure PCR Template Preparation Kit Nucleic acid amplification and detection as documented in WI-MIC-VIR-CDPCR using LightCycler 2.0, Roche Nucleic acid extraction by MagNA Pure 96 automated nucleic acid extraction system or NucliSENS easyMAG automated nucleic acid extraction system Nucleic acid amplification and detection as documented in WI-MIC-VIR-FTDGV using LightCycler 480 II, Roche
	Genital specimen, HVS, ECS, urine specimen	<i>Chlamydia trachomatis</i> (CT) – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: CT1) <i>Neisseria gonorrhea</i> (NT) – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: NG2 and NG4)	Nucleic acid extraction, amplification and detection by The Cepheid Xpert CT/NG assay Method as documented in WI-MIC-VIR-CTNG Nucleic acid extraction, amplification and detection by The Cepheid Xpert CT/NG assay Method as documented in WI-MIC-VIR-CTNG

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

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Medical Genetics (cont'd)	Molecular Genetics (microbiology) (cont'd)		
	Axilla/groin swab, nasal swab	<i>Candida auris</i> – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: ITS2)	Nucleic acid extraction by MagNA Pure 96 automated nucleic acid extraction system Nucleic acid amplification and detection by Roche LightCycler LC 480 II Method as documented in WI-MIC-VIR-CAUR <i>Candida auris</i> detection by real time PCR
	Vesicle fluid, ulcer swab, oral swab, lesion swab	HSV-1/2/VZV – detection by Real-time Polymerase Chain Reaction, qualitative (Target region: proprietary)	AltoStar alpha Herpesvirus PCR kit Nucleic acid extraction by NucliSENS EMAG or MagNA Pure 96 automated nucleic acid system or EZ1&2 Virus Kit v2.0 and EZ2 advanced XL system Nucleic acid amplification and detection by Roche LightCycler 480 II Method as documented in WI-MIC-VIR-HSVVZVPCR <i>Herpes Simplex virus 1&2</i> and <i>Varicella Zoster virus</i> detection by real-time PCR
	Clinical isolates	Antimicrobial susceptibility test for yeast by Microbroth MIC determination	Thermo Fisher Sensititre™ YeastOne™ Method as document in WI-MIC-BAC-STSOP Antimicrobial susceptibility testing bench manual

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Molecular Microbiology and Virology Laboratory: 16/F, Block S, Princess Margaret Hospital

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This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology	Haematology – General EDTA blood	Complete blood count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Leucocyte differential count - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Nucleated red blood cell (NRBC) count - NRBC per 100WBC - Platelet count - Red cell count - Red cell distribution width (RDW) - Mean Platelet Volume (MPV)	Beckman Coulter Unice1 DxH800

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Haematology Laboratory and Blood Bank: 10/F, Block G, Princess Margaret Hospital

瑪嘉烈醫院 G 座十樓

MEDICAL TESTING			
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Haematology	Blood Bank - Antenatal screening EDTA blood	ABO and Rh(D) typing and antibody screening for anti-D for Rh(D) negative patients	Method as documented in WI-BBK-SOP-T0020, WI-BBK-SOP-T0021 and WI-BBK-SOP-T0022 + BioRad IH-1000
		Antibody screening for Rhesus antibodies	Method as documented in WI-HAE-HSP-PS001 + BioRad IH-1000
		Rhesus D antibody titration	Method as documented in WI-HAE-HSP-PS002
	Blood Bank - General EDTA blood	ABO and Rh (D) typing by Red cell agglutination	Method as documented in WI-BBK-SOP-T0020 and WI-BBK-SOP-T0021 + BioRad IH-1000
		Antibody screening by - Red cell agglutination	Method as documented in WI-BBK-SOP-T0022 using Bio-Rad gel card + BioRad IH-1000
		- Saline-Indirect antiglobulin test	Method as documented in WI-BBK-SOP-T0022
		Red cell phenotyping by - Direct agglutination - Indirect antiglobulin test - Red cell agglutination	Method as documented in WI-BBK-SOP-T0025
		Crossmatch by - Computer crossmatch - Immediate spin - Red cell agglutination	Method as documented in WI-BBK-SOP-T0023 Method as documented in WI-BBK-SOP-T0023 Method as documented in WI-BBK-SOP-T0023 using Bio-Rad gel card + BioRad IH-1000
		- Saline-Indirect antiglobulin test	Method as documented in WI-BBK-SOP-T0023

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Haematology Laboratory and Blood Bank: 10/F, Block G, Princess Margaret Hospital

瑪嘉烈醫院 G 座十樓

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Haematology (cont'd)	Blood Bank - Immunohaematology		
	EDTA blood	Direct antiglobulin test (DAT) by - Conventional method - Red cell agglutination	Method as documented in WI-BBK-SOP-T0024 Method as documented in WI-BBK-SOP-T0024 using Bio-Rad gel card + BioRad IH-1000
	Blood Bank - Special		
	EDTA blood	Antibody elution and identification by ELU Kit Plus	ImmucorGamma ELU Kit Plus Method as documented in WI-BBK-SOP-T0027
	EDTA blood	Antibody identification by Red cell agglutination	Method as documented in WI-BBK-SOP-T0026 using Bio-Rad gel card + BioRad IH-1000
		Investigation of ABO Blood Group Anomaly	Method as documented in WI-BBK-SOP-T0028
		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-SOP-T0011
	Coagulation		
	Citrate blood	Coagulation studies, automated including - Prothrombin Time (PT) - Activated partial thromboplastin time (APTT) - Fibrinogen	Automated coagulation system: IL ACL Top 700
		Activated partial thromboplastin time (APTT) by manual method	Method as documented in WI-HAE-COA-P0003
		Prothrombin Time (PT) by manual method	Method as documented in WI-HAE-COA-P0002

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Haematology Laboratory and Blood Bank: 10/F, Block G, Princess Margaret Hospital

瑪嘉烈醫院 G 座十樓

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Haematology (cont'd)	Coagulation (cont'd) Citrate blood (cont'd)	Factor assay(II, V, VII, VIII, IX, X, XI, XII) by optical detection	ILACL-Top700 Assay: FII-RP, FV-RP, FVII-RP, FVIII-RP, FIX-SS, FX-RP, FXI-SS, FXII-SS
		Factor VIII inhibitor assay by optical detection	Method as documented in WI-HAE-COA-P0011 using IL ACL-TOP 700
		Protein C by chromogenic method	IL ACL-Top 700 Assay: PC
		Free Protein S by latex ligand immunoassay	IL ACL-Top 700 Assay: Free PS
		Antithrombin by chromogenic method	IL ACL-Top 700 Assay: AT
		Detection of Lupus Anticoagulant by Dilute Russell's Viper Venom Time and Silica clotting time	Method as documented in WI-HAE-COA-P0006, WI-HAE-COA-P0015 and WI-HAE-COA-P0017 using IL ACL-Top 700
		D-Dimer by Enzyme-linked Fluorescent Assay	Biomerieux Vidas 3 System D-Dimer Exclusion II Kit
		von Willebrand Factor Antigen (VWF) by Latex enhanced immunoassay	IL ACL-Top 700 Assay: VWF:Ag
		von Willebrand Factor Ristocetin Cofactor Activity (VRC) by Latex enhanced immunoassay	IL ACL-Top 700 Assay: VWF:RCO

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Haematology Laboratory and Blood Bank: 10/F, Block G, Princess Margaret Hospital

瑪嘉烈醫院 G 座十樓

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This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	Haematology - General EDTA blood	Complete blood count including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Leucocyte differential count - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Nucleated red blood cell (NRBC) count - NRBC per 100WBC - Platelet count - Red cell count - Red cell distribution width (RDW) - Mean Platelet Volume (MPV)	Beckman Coulter UniceL DxH800
		Malaria parasite examination by Thick and thin films	Smear preparation and Giemsa staining (pH7.2) Method as documented in WI-HAE-HGN-P0011
		Rapid Diagnostic Test Kit (RDT)	Method as documented in PMH-PAT-WI-HAE-104 (Malaria Parasites Examination for Cases of Suspected Viral Haemorrhagic Fevers) Method as documented in PMH-PAT-WI-HAE-106 using RDT Kit-RDT Kit-NOW Malaria Binax
		Peripheral blood smear examination by - Wright – Giemsa stain - May-Grunwald Giemsa Stain - Automated staining method	Method as documented in WI-HAE-HGN-P0006 Method as documented in WI-HAE-HGN-P0005 Method as documented in WI-HAE-HGN-E0004 using Hematek Slide Stainer
		Reticulocyte Count by Immature reticulocyte fraction	Beckman Coulter UniceL DxH800
		Reticulocyte Count (Manual) by New Methylene Blue Stain	Method as documented in WI-HAE-HGN-P0010

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Haematology (cont'd)	Haematology - Special EDTA blood	Haemoglobin A2 and F quantitation by High Performance Liquid Chromatography (HPLC)	BioRad Variant II HPLC analyzer
		Haemoglobin Electrophoresis	Sebia Hydragel Haemoglobin (E), K20
		Haemoglobin H inclusion bodies by New Methylene Blue Stain	Method as documented in WI-HAE-HSP-PH005
		Glucose-6-phosphate dehydrogenase (G6PD) screening by Fluorescence test	Method as documented in WI-HAE-HSP-PM003
	Serum	Monospot Test	Meridian Bioscience Inc. Monospot Latex Kit
	EDTA / citrate 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-HSP-PM001, WI-HAE-HGN-P0005 and WI-HAE-HSP-PC006
		Peripheral blood smear by May-Grunwald-Giemsa	Method as documented in WI-HAE-HGN-P0005
		Cytochemical Staining: - Sudan Black - Periodic Acid Schiff - Leucocyte Acid Phosphatase - Alpha Naphthyl Acetate Esterase	Method as documented in WI-HAE HSP-PC001 to PC004

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

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Immunology	Autoantibodies Serum	Antinuclear Antibody by Indirect immunofluorescent method	AESKUSLIDES ANA-HEp-2 by HELIOS System
		Anti-ds DNA Antibody by Immunoassay (Enzyme-based label)	IBL dsDNA-Ab ELISA by Euroimmun Analyzer I
		Anti-Neutrophil Cytoplasmic Antibody by Indirect immunofluorescent method	NOVA Lite TM ANCA Reagent Kit
		Anti-Myeloperoxidase by Immunoassay (Enzyme-based label)	Anti-Myeloperoxidase ELISA (IgG) by Euroimmun Analyzer I
		Thyroid Autoantibodies by Immunoassay (Enzyme-based label)	Euroimmun Anti-Thyroglobulin ELISA(IgG) and Anti-TPO ELISA (IgG) test kits by Euroimmun Analyzer I
		Anti-Mitochondrial / Anti-Smooth Muscle Antibodies by Indirect Immunofluorescence method	Euroimmun Indirect Immunofluorescence Test Kit Mosaic substrate: Kidney (Rat) / Stomach (Rat)
		Anti-Cardiolipin Antibodies (IgG) by Immunoassay (Enzyme-based label)	Euroimmun Anti-Cardiolipin ELISA (IgG) by Euroimmun Analyzer I
		Rheumatoid Factor by Latex agglutination	Rheumajet RF, Biokit
		Anti-Parietal Cell Antibodies by Indirect Immunofluorescence method	Euroimmun Indirect Immunofluorescence Test Kit

Hospital Authority - Princess Margaret Hospital, Department of Pathology

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Chemical Pathology	Toxicology		
	Urine, non-biological samples	General unknown screening by Ultra performance liquid chromatography with mass spectrometry (UPLC-MS)	Method as documented in WI-TRL-TSM-ORBI using LC-Orbitrap WI-TRL-TSM-TOXU using SCIEX X500R QTOF
	Serum, non-biological samples	Quantitative toxic alcohol analysis by Gas chromatography (GC) with flame ionisation detection (GC-FID)	Method as documented in WI-TRL-TSM-ALCS using Agilent 7890A GC-FID
	Urine, serum, non-biological samples	Target screen for warfarin and superwarfarins by Ultra performance liquid chromatography with mass spectrometry (UPLC-MS)	Method as documented in WI-TRL-TSM-WAR using AB Sciex 5500 QTrap coupled with Waters Acquity UPLC
		Target analysis of toxic plant alkaloids by Ultra performance liquid chromatography with mass spectrometry (UPLC-MS)	Method as documented in WI-TRL-TSM-TPA using AB Sciex 5500 QTrap coupled with Waters Acquity UPLC
	Non-biological samples	Target screen for animal thyroid tissue by Ultra performance liquid chromatography with mass spectrometry (UPLC-MS)	Method as documented in WI-TRL-TSM-THY using AB Sciex 5500 QTrap coupled with Waters Acquity UPLC
		Target screen for corticosteroids by Ultra performance liquid chromatography with mass spectrometry (UPLC-MS)	Method as documented in WI-TRL-TSM-CORT using AB Sciex 5500+ QTrap coupled with Waters Acquity UPLC
	Urine	Target analysis of diuretics and laxatives by High performance liquid chromatography with mass spectrometry (HPLC-MS)	Method as documented in WI-TRL-TSM-DIUR using Agilent 6430 MS coupled with Agilent 1290 Infinity LC
		Target screen for oral antidiabetic agents by Ultra performance liquid chromatography with mass spectrometry (UPLC-MS)	Method as documented in WI-TRL-TSM-OADU using AB Sciex 5500+ QTrap coupled with Waters Acquity UPLC
		Urine Drug of Abuse Testing by Ultra performance liquid chromatography with mass spectrometry (UPLC-MS)	Method as documented in WI-TRL-TSM-UDOA using SCIEX X500R QTOF

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

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Chemical Pathology (cont'd)	Toxicology (cont'd)		
	Serum	Target analysis of glycols by Gas Chromatography with mass spectrometry (GC-MS)	Method as documented in WI-TRL-TSM-GLYCOL using Agilent7890B GC coupled with Agilent 5977A MSD
		Therapeutic drug monitoring of psychotropic drugs by Ultra performance liquid chromatography with mass spectrometry (UPLC-MS)	Method as documented in WI-TRL-TSM-TDMP using AB Sciex 5500+ QTrap coupled with Waters Acquity UPLC
	Heavy metals and Trace Elements		
	Serum, urine	Copper by Inductively Coupled Plasma- Mass Spectrometry	Methods as documented in WI-TRL-TSM-SMEMS and WI-TRL-TSM-UMEMS using Inductively Coupled plasma mass spectrometry Agilent 7900
	Whole blood	Lead by Inductively Coupled Plasma- Mass Spectrometry	Methods as documented in WI-TRL-TSM-BMEMS using Inductively Coupled plasma mass spectrometry Agilent 7900
	Serum	Zinc by Inductively Coupled Plasma- Mass Spectrometry	Method as documented in WI-TRL-TSM-SMEMS using Inductively Coupled plasma mass spectrometry Agilent 7900

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

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Medical Genetics	Molecular Genetics (anatomical pathology) Histological and cytological specimen	<p>Detection of mutations in exons 18, 19, 20 and 21 of EGFR (Epidermal Growth Factor Receptor) oncogene by Real-time polymerase chain reaction (Target region: exons 18, 19, 20, 21 of EGFR gene)</p> <p>Detection of mutations in exons 2, 3 and 4 of the KRAS (Kirsten Rat SarcomaViral Oncogene Homolog) gene by Polymerase chain reaction and Sanger sequencing (Target region: exons 2,3, 4 of KRAS gene)</p> <p>Detection of mutations in exons 2, 3 and 4 of the NRAS (Neuroblastoma RAS Viral Oncogene Homolog) gene by Polymerase chain reaction and Sanger sequencing (Target region: exons 2,3, 4 of NRAS gene)</p>	<p>Nucleic acid extraction as documented in WI-APL-MGT-FFPEE using Qiagen DNA FFPE Tissue Kit Nucleic acid amplification and post amplification processing as documented in WI-APL-MGT-QIARW, WI-APL-MGT-EGFRA,WI-APL-MGT-EGFRS and WI-APL-MGT-EGFRQ using Qiagen therascreen EGFR RGQ PCR Kit and Qiagen Rotor-Gene Q machine</p> <p>Nucleic acid extraction as documented in WI-APL-MGT-FFPEE using Qiagen DNA FFPE Tissue Kit Nucleic acid amplification as documented in WI-APL-MGT-KNRAS using ESCO Swift MaxPro Thermal Cycler/ Applied Biosystems Veriti Thermal Cycler Post amplification processing and Sanger sequencing as documented in WI-APL-MGT-SEQUE using Applied Biosystems 3130xl Genetic Analyzer</p> <p>Nucleic acid extraction as documented in WI-APL-MGT-FFPEE using Qiagen DNA FFPE Tissue Kit Nucleic acid amplification as documented in WI-APL-MGT-KNRAS using ESCO Swift MaxPro Thermal Cycler/ Applied Biosystems Veriti Thermal Cycler Post amplification processing and Sanger sequencing as documented in WI-APL-MGT-SEQUE using Applied Biosystems 3130xl Genetic Analyzer</p>

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

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Medical Genetics (cont'd)	Molecular Genetics (anatomical pathology) (cont'd) Tissue specimens	<p>Epstein-Barr Virus Early RNA (EBV EBER) by In-situ Hybridization (ISH)</p> <p>Human Papilloma Virus (HPV) screening by Polymerase Chain Reaction (PCR) (Target region: L1 gene)</p> <p>Immunoglobulin Heavy Chain (IgH) gene rearrangement by Invivoscribe IdentiClone IgH Gene Clonality Assay (Target regions: Fr1, Fr2 and Fr3 genes)</p> <p>Kappa and Lambda mRNA by In-situ Hybridization (ISH) examination (Target region: Light chain mRNA)</p> <p><i>Mycobacterium tuberculosis</i> complex by Polymerase Chain Reaction (PCR) (Target regions: IS6110 and mtp40)</p>	<p>Method as documented in WI-APL-SOP-MTISH</p> <p>Nucleic acid extraction as documented in WI-APL-SOP-MTPCR</p> <p>Nucleic acid amplification and detection as documented in WI-APL-SOP-MTPCR</p> <p>Polymerase chain reaction and Fluorescence detection. Nucleic acid extraction as documented in WI-APL-MGT-FFPEE using Qiagen DNA FFPE Tissue Kit Nucleic acid amplification and post amplification processing using ESCO Swift MaxPro Thermal Cycler/Applied Biosystems Veriti Thermal Cycler and Applied Biosystems 3130xl Genetic Analyzer</p> <p>Method as documented in WI-APL-SOP-MTISH</p> <p>Nucleic acid extraction as documented in WI-APL-SOP-MTPCR</p> <p>Nucleic acid amplification and detection as documented in WI-APL-SOP-MTPCR</p>

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Genetics and Genomics Pathology Laboratory: 6/F, Block G, Princess Margaret Hospital

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Medical Genetics (cont'd)	Molecular Genetics (anatomical pathology) (cont'd) Tissue specimens (cont'd)	T-cell receptor beta and gamma gene rearrangement by Invivoscribe IdentiClone TCRB + TCRG T-Cell Clonality Assay (Target regions: Beta and Gamma genes)	Polymerase chain reaction and Fluorescence detection. Nucleic acid extraction as documented in WI-APL-MGT-FFPEE using Qiagen DNA FFPE Tissue Kit Nucleic acid amplification and post amplification processing using ESCO Swift MaxPro Thermal Cycler/Applied Biosystems Veriti Thermal Cycler and Applied Biosystems 3130xl Genetic Analyzer
	Formalin fixed paraffin embedded brain tumour	Detection of mutations in exon 4 of IDH1 (Isocitrate Dehydrogenase 1) and IDH2 (Isocitrate Dehydrogenase 2) gene by Polymerase Chain Reaction (PCR) and Sanger sequencing (Target region: exon 4 of IDH1 and IDH2 gene)	Polymerase chain reaction and Sanger sequencing. Nucleic acid extraction as documented in WI-APL-MGT-FFPEE using Qiagen DNA FFPE Tissue Kit Nucleic acid amplification and post amplification processing as documented in WI-APL-MGT-IDH12 and WI-APL-MGT-SEQUE using ESCO Swift MaxPro Thermal Cycler/Applied Biosystems Veriti Thermal Cycler and Applied Biosystems 3130xl Genetic Analyzer
		Analysis of MGMT (O-6-Methylguanine-DNA Methyltransferase) gene methylation status by bisulfite treatment and methylation-specific PCR (MSP) (Target region: promotor region of MGMT gene)	Bisulfite treatment and methylation-specific PCR. Nucleic acid extraction as documented in WI-APL-MGT-FFPEE using Qiagen DNA FFPE Tissue Kit Bisulfite treatment using EZ DNA Methylation-Direct Kit of Zymo Research and methylation-specific PCR using CpG WIZ MGMT Amplification Kit of Chemicon, Sigma-Aldrich as documented in WI-APL-MGT-BSFTZ

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

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Medical Genetics (cont'd)	Molecular Genetics (chemical pathology)		
	EDTA blood	ATP7B mutations in Wilson disease by Polymerase Chain Reaction (PCR) and DNA sequencing (Target region: all coding exons)	Nucleic acid extraction as documented in WI-CCP-TSM-MDNA Nucleic acid amplification and post amplification processing as documented in WI-CCP-TSM-MATP7
	Plasma, pleural fluid	Circulating tumour DNA for EGFR mutations by Droplet Digital Polymerase Chain Reaction (Target region: EGFR L858R, Exon 19 Deletion and T790M)	Circulating tumour DNA extraction as documented in WI-CCP-TSM-MCFDNA (Test Manual of cfDNA Extraction from Plasma or Pleural Fluid Samples) Nucleic acid amplification as documented in WI-CCP-TSM-MPEGFR (Test Manual of Plasma Circulating Tumour DNA targeted mutations by QX One droplet digital PCR
	EDTA blood	Detection of <i>KCNH2</i> variants by Polymerase Chain Reaction (PCR) and Sanger sequencing (Target region: all coding exons and the 10-bp flanking regions of <i>KCNH2</i>) Detection of <i>KCNQ1</i> variants by Polymerase Chain Reaction (PCR) and Sanger sequencing (Target region: all coding exons and the 10-bp flanking regions of <i>KCNQ1</i>) Detection of <i>MYBPC3</i> variants by Polymerase Chain Reaction (PCR) and Sanger sequencing (Target region: all coding exons and the 10-bp flanking regions of <i>MYBPC3</i>)	Nucleic acid extraction using QIAGEN QIAamp DNA Blood MiniKit by manual method or QIAcube Amplification using Applied Biosystems Veriti Thermal Cycler Sanger sequencing using Applied Biosystems 3130xl and 3500xl Genetic Analyzer Nucleic acid extraction using QIAGEN QIAamp DNA Blood MiniKit by manual method or QIAcube Amplification using Applied Biosystems Veriti Thermal Cycler Sanger sequencing using Applied Biosystems 3130xl and 3500xl Genetic Analyzer Nucleic acid extraction using QIAGEN QIAamp DNA Blood MiniKit by manual method or QIAcube Amplification using Applied Biosystems Veriti Thermal Cycler Sanger sequencing using Applied Biosystems 3130xl and 3500xl Genetic Analyzer

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Medical Genetics (cont'd)	Molecular Genetics (chemical pathology) (cont'd) EDTA blood (cont'd)	<p>Detection of <i>MYH7</i> variants by Polymerase Chain Reaction (PCR) and Sanger sequencing (Target region: all coding exons and the 10-bp flanking regions of <i>MYH7</i>)</p> <p>OTC mutations in Ornithine transcarbamylase deficiency by Polymerase Chain Reaction (PCR) and DNA sequencing (Target region: all coding exons)</p> <p>Detection of <i>PKP2</i> variants by Polymerase chain reaction (PCR) and Sanger sequencing (Target region: all coding exons and the 10-bp flanking regions of <i>PKP2</i>)</p> <p>Repeat expansions of HD in Huntington disease by Polymerase Chain Reaction (PCR) and/or DNA sequencing (Target region: trinucleotide repeat numbers)</p>	<p>Nucleic acid extraction using QIAGEN QIAamp DNA Blood MiniKit by manual method or QIAcube Amplification using Applied Biosystems Veriti Thermal Cycler Sanger sequencing using Applied Biosystems 3130xl and 3500xl Genetic Analyzer</p> <p>Nucleic acid extraction as documented in WI-CCP-TSM-MDNA Nucleic acid amplification and post amplification processing as documented in WI-CCP-TSM-MOTC</p> <p>Nucleic acid extraction using QIAGEN QIAamp DNA Blood MiniKit by manual method or QIAcube Amplification using Applied Biosystems Veriti Thermal Cycler Sanger sequencing using Applied Biosystems 3130xl and 3500xl Genetic Analyzer</p> <p>Nucleic acid extraction as documented in WI-CCP-TSM-MDNA Nucleic acid amplification and post amplification processing as documented in WI-CCP-TSM-MHTT and WI-CCP-TSM-MGDNA</p>

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Genetics and Genomics Pathology Laboratory: 6/F, Block G, Princess Margaret Hospital

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Medical Genetics (cont'd)	Molecular Genetics (chemical pathology) (cont'd) EDTA blood (cont'd)	<p>Repeat expansions of spinocerebellar ataxia types 1, 2, 3, 6, 7, 12, and 17 by Polymerase Chain Reaction (PCR) and/or DNA sequencing (Target region: trinucleotide repeat numbers)</p> <p>Detection of <i>SCN5A</i> variants by Polymerase chain reaction (PCR) and Sanger sequencing (Target region: all coding exons and the 10-bp flanking regions of <i>SCN5A</i>)</p> <p>Detection of <i>TPMT</i> and <i>NUDT15</i> variants by Polymerase Chain Reaction (PCR) and Sanger sequencing (Target variants: <i>TPMT</i>*3C and <i>NUDT15</i>*2, *3, *4, *5, *6 and *9)</p> <p>SPG3A mutations in Spastic Paraplegia 3, autosomal dominant by Polymerase Chain Reaction (PCR) and DNA sequencing (Target region: all coding exons)</p>	<p>Nucleic acid extraction as documented in WI-CCP-TSM-MDNA</p> <p>Nucleic acid amplification and post amplification processing as documented in WI-CCP-TSM- MSCA and WI-CCP-TSM-MGDNA</p> <p>Nucleic acid extraction using QIAGEN QIAamp DNA Blood MiniKit by manual method or QIAcube</p> <p>Amplification using Applied Biosystems Veriti Thermal Cycler</p> <p>Sanger sequencing using Applied Biosystems 3130xl and 3500xl Genetic Analyzer</p> <p>Nucleic acid extraction as documented in WI-CCP-TSM-MDNA (Test Manual of DNA Extraction from Blood Samples)</p> <p>Nucleic acids amplification and post amplification processing as documented in WI-CCP-TSM-MTPMT (Test Manual of Genetic Analysis of TPMT and NUDT15)</p> <p>Nucleic acid extraction as documented in WI-CCP-TSM-MDNA</p> <p>Nucleic acids amplification and post amplification processing as documented in WI-CCP-TSM-MSPG3</p>

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Genetics and Genomics Pathology Laboratory: 6/F, Block G, Princess Margaret Hospital

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Medical Genetics (cont'd)	Molecular Genetics (chemical pathology) (cont'd) EDTA blood (cont'd)	<p>TH mutations in Tyrosine hydroxylase deficiency by Polymerase Chain Reaction (PCR) and DNA sequencing (Target region: all coding exons)</p> <p>TTR mutations in Hereditary Transthyretin-related Amyloidosis by Polymerase Chain Reaction (PCR) and DNA sequencing (Target region: all coding exons)</p> <p>VHL mutations in von Hippel-Lindau syndrome by Polymerase Chain Reaction (PCR) and DNA sequencing (Target region: all coding exons)</p>	<p>Nucleic acid extraction as documented in WI-CCP-TSM-MDNA Nucleic acids amplification and post amplification processing as documented in WI-CCP-TSM-MTH</p> <p>Nucleic acid extraction as documented in WI-CCP-TSM-MDNA Nucleic acid amplification and post amplification processing as documented in WI-CCP-TSM-MTTR</p> <p>Nucleic acid extraction as documented in WI-CCP-TSM-MDNA Nucleic acid amplification and post amplification processing as documented in WI-CCP-TSM-MVHL</p>

Hospital Authority - Princess Margaret Hospital, Department of Pathology

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Medical Genetics (cont'd)	Molecular Genetics (haematology) EDTA blood, EDTA marrow aspirate	<p>Immunoglobulin heavy chain (IgH) gene rearrangement by Polymerase Chain Reaction (PCR)</p> <p>JAK2 V617F kinase mutation by Allele-specific Polymerase Chain Reaction (AS-PCR)</p> <p>t(9;22) (q34;q11) fusion gene transcript -BCR-ABL p210 -BCR-ABL p190 by Reverse transcription-Polymerase Chain Reaction (RT-PCR)</p> <p>t(15;17)(q22;q12) fusion gene transcript by Reverse transcription-Polymerase Chain Reaction (RT-PCR)</p> <p>T – cell receptor (TCR) gene rearrangement by Polymerase Chain Reaction (PCR)</p>	<p>Nucleic acid extraction QIAamp DNA Blood Kit as documented in WI-HAE-HMB-P0002 and WI-HAE-HMB-P0026</p> <p>Nucleic acid amplification and detection by Invivoscribe: IdentiClone IGH Gene Clonality Assay Kit as documented in WI-HAE-HMB-P0024</p> <p>Nucleic acid extraction by QIAamp DNA Blood Kit as documented in WI-HAE-HMB-P0002 and WI-HAE-HMB-P0026</p> <p>Nucleic acid amplification and detection as documented in WI-HAE-HMB-P0018</p> <p>Nucleic acid extraction as documented in WI-HAE-HMB- P0003</p> <p>Nucleic acid amplification and detection as documented WI-HAE-HMB-P0008</p> <p>Nucleic acid extraction as documented in WI-HAE-HMB- P0003</p> <p>Nucleic acid amplification and detection as documented in WI-HAE-HMB-P0017</p> <p>Nucleic acid extraction by QIAamp DNA Blood Kit as documented in WI-HAE-HMB-P0002 and WI-HAE-HMB-P0026</p> <p>Nucleic acid amplification and detection by Invivoscribe: IdentiClone TCR Gene Clonality Assay Kit as documented in WI-HAE-HMB-P0025</p>

Hospital Authority - Princess Margaret Hospital, Department of Pathology

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Medical Genetics (cont'd)	Molecular Genetics (haematology) (cont'd)		
	EDTA blood, EDTA marrow aspirate (cont'd)	Alpha Globin Genotyping for SEA, 3.7, 4.2 deletion by Multiplex Polymerase Chain Reaction	Nucleic acid extraction QIAamp DNA Blood Kit as documented in WI-HAE-HMB-P0002 and WI-HAE-HMB-P0026 Nucleic acid amplification and detection as documented in WI-HAE-HMB-P0029
	EDTA blood	Factor VIII Genotyping of intron 1 and intron 22 inversion by Polymerase Chain Reaction (PCR) and Sanger sequencing Factor IX Genotyping by Sanger sequencing	Nucleic acid extraction QIAamp DNA Blood Kit as documented in WI-HAE-HMB-P0002 Nucleic acid amplification and detection as documented in WI-HAE-HMB-P0019 and WI-HAE-HMB-P0020 Nucleic acid extraction QIAamp DNA Blood Kit as documented in WI-HAE-HMB-P0002 Nucleic acid amplification and detection as documented in WI-HAE-HMB-P0021

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Testing Location: Core Laboratory, Department of Pathology, Yan Chai Hospital

Room 426, 4/F, Block B, 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 4 樓 426 室

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.			
Chemical Pathology	Therapeutic Drug Monitoring EDTA blood	Cyclosporin A by Liquid chromatography-tandem mass spectrometry (LC-MS/MS) Tacrolimus by Liquid chromatography-tandem mass spectrometry (LC-MS/MS) Everolimus by Liquid chromatography-tandem mass spectrometry (LC-MS/MS) Sirolimus by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Methods as documented in WI-CCP-TSM-YCYC using AB Sciex 3200 LCMS/MS Methods as documented in WI-CCP-TSM-YTAC using AB Sciex 3200 LCMS/MS Methods as documented in WI-CCP-TSM-YEVSI using AB Sciex 3200 LCMS/MS Methods as documented in WI-CCP-TSM-YEVSI using AB Sciex 3200 LCMS/MS

Hospital Authority - Princess Margaret Hospital, Department of Pathology

醫院管理局-瑪嘉烈醫院病理部

Clinical Laboratory: 7/F, North Lantau Hospital, 8 Chung Yan Road, Tung Chung, Lantau, New Territories, Hong Kong
香港新界大嶼山東涌松仁路八號北大嶼山醫院七樓

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Chemical Pathology	Blood gases and Co-oximetry Heparinised blood	Blood Gas include:	
		pCO ₂ by Potentiometry	Siemens RapidLab 1265 Blood Gas Analyzer
		pH by Potentiometry	Siemens RapidLab 1265 Blood Gas Analyzer
		pO ₂ by Amperometry	Siemens RapidLab 1265 Blood Gas Analyzer
		Base Excess by Auto calculation	Siemens RapidLab 1265 Blood Gas Analyzer
		Bicarbonate by Auto calculation	Siemens RapidLab 1265 Blood Gas Analyzer
		O ₂ Saturation by Auto calculation	Siemens RapidLab 1265 Blood Gas Analyzer
		Carboxyhaemoglobin by Co-oximetry	Siemens RapidLab 1265 Blood Gas Analyzer
		Ionized Calcium by Potentiometry	Siemens RapidLab 1265 Blood Gas Analyzer
		Methaemoglobin by Co-oximetry	Siemens RapidLab 1265 Blood Gas Analyzer
		Oxyhaemoglobin by Co-oximetry	Siemens RapidLab 1265 Blood Gas Analyzer
	General Chemistry Fluid, pleural, peritoneal, pericardial and cerebrospinal fluids	Adenosine deaminase by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Adenosine Deaminase Assay
		Plasma Alanine Aminotransferase (ALT) by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, ALT Assay

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This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	General Chemistry (cont'd) Plasma (cont'd)	Albumin by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Albumin Assay
		Alkaline Phosphatase (ALP) by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Alkaline Phosphatase Assay
		Ammonia by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Infinity Ammonia Assay
		Amylase by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Alpha Amylase Assay
		Bilirubin, Total by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Total Bilirubin Assay
		Calcium by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Calcium Arsenazo Assay
		Chloride by Potentiometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Chloride Assay
		Cholesterol, Total by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Cholesterol assay
		Cholesterol High Density Lipoprotein, (HDL-C) by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, HDL-Cholesterol assay

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This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Chemical Pathology (cont'd)	General Chemistry (cont'd) Plasma (cont'd)	Triglyceride by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Triglyceride assay
		Cholesterol Low Density Lipoprotein, (LDL-C) by Auto-calculation	Method as documented in NLT-PAT-WI-CCP-051
		Non-HDL-Cholesterol by Auto-calculation	Method as documented in NLT-PAT-WI-CCP-051
		Creatine Kinase (CK) by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Creatine Kinase Assay
		Creatinine by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Creatinine (Enzymatic) Assay
		Glucose by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Glucose Assay
	CSF, plasma Plasma	Lactate dehydrogenase (LDH) by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Lactate Dehydrogenase Assay
		Osmolality by Freezing Point Depression	Arkray OM-6060 Automatic Osmometer
		Phosphate by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Inorganic Phosphorous Assay
		Potassium by Potentiometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Potassium Assay

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Chemical Pathology (cont'd)	General Chemistry (cont'd)		
	Plasma	Protein, Total by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Total Protein Assay
	CSF	Protein, Total by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Urinary/CSF Protein Assay
	Plasma	Sodium by Potentiometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Sodium Assay
		Troponin I (high sensitivity) by Immunoassay (Chemiluminescent label)	Beckman Coulter Access 2 Immunoassay System High Sensitivity Troponin I Assay
		Urea by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Urea Assay
		Uric acid by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Uric Acid Assay
	Toxicology		
	Serum	Ethanol by Spectrophotometry	Beckman Coulter Olympus AU 680, Abbott Ethanol Assay
		Paracetamol by Spectrophotometry	Beckman Coulter Olympus AU 680 Clinical Chemistry Analyzer, Sekure Acetaminophen L3K assay
		Salicylate by Spectrophotometry	Beckman Coulter Olympus AU680 Clinical Chemistry System, Salicylate Acid Assay

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Haematology	Blood Bank – General EDTA blood, clotted blood	ABO and Rh(D) typing by - Red cell agglutination, automated method - Red cell agglutination, manual method Antibody screening by - Gel-Indirect antiglobulin test - Saline-Indirect antiglobulin test Crossmatch by - Computer crossmatch - Immediate spin - Manual gel test - Saline-Indirect antiglobulin test	Method as documented in NLT-PAT-WI-BBK-013 using Bio-Rad IH-1000 System Tile and tube techniques as documented in NLT-PAT-WI-BBK-003 and NLT-PAT-WI-BBK-017 DiaClon Gel technique as documented in NLT-PAT-WI-BBK-003 Methods as documented in NLT-PAT-WI-BBK-004 and NLT-PAT-WI-BBK-013 using Bio-Rad IH-1000 System Method as documented in NLT-PAT-WI-BBK-006 Method as documented in NLT-PAT-WI-BBK-006 Method as documented in NLT-PAT-WI-BBK-006 Method as documented in NLT-PAT-WI-BBK-006
	Blood Bank – Immunohaematology EDTA blood, clotted blood	Direct antiglobulin test (DAT) by Red cell agglutination	Gel and tube methods as documented in NLT-PAT-WI-BBK-010
	Blood Bank – Special EDTA blood, clotted blood	Antibody identification by Red cell panel Red cell phenotyping by - Direct agglutination - Indirect antiglobulin test (IAT)	Gel and tube methods as documented in NLT-PAT-WI-BBK-028 Methods as documented in NLT-PAT-WI-BBK-024
	Coagulation Citrate blood	Activated Partial Thromboplastin Time (APTT) by - photo-optical end point detection, automated method - clot detection, manual method - optical turbidimetric method	Method as documented in NLT-PAT-WI-HAE-006 using ACL Elite Pro Coagulation System Method as documented in NLT-PAT-WI-HAE-008 Werfen ACL TOP 350 CTS

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This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Haematology (cont'd)	Coagulation (cont'd) Citrate blood (cont'd)	Prothrombin Time (PT) by <ul style="list-style-type: none"> - photo-optical end point detection, automated method - clot detection, manual method - optical turbidimetric method D-Dimer by <ul style="list-style-type: none"> - Enzyme-linked Fluorescent Assay - turbidimetric immunoassay 	Method as documented in NLT-PAT-WI-HAE-006 using ACL Elite Pro Coagulation System Method as documented in NLT-PAT-WI-HAE-007 Werfen ACL TOP 350 CTS Biomerieux Mini-Vidas System D-Dimer HS 500 by Werfen ACL TOP 350 CTS
	Haematology - General EDTA blood	Peripheral blood smear examination by <ul style="list-style-type: none"> - Modified Wright-Giemsa stain, automated method - Romanowsky stain, manual method Platelet count, manual method by Neubauer counting chamber Reticulocyte count, manual by New Methylene Blue Stain Malaria parasite examination by Thick and thin films -	Method as documented in NLT-PAT-WI-HAE-005 Method as documented in NLT-PAT-WI-HAE-018 using Hematek 3000 automatic slide stainer Method as documented in NLT-PAT-WI-HAE-004 Method as documented in NLT-PAT-WI-HAE-017 Method as documented in NLT-PAT-WI-HAE-015 Smear preparation and Giemsa staining (pH 7.2) as documented in NLT-PAT-WI-HAE-010

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This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Immunology	Autoantibodies Serum	Antinuclear Antibody by Indirect immunofluorescent method	AESKUSLIDES ANA-HEp-2 by HELIOS System