

**Hospital Authority – Queen Elizabeth Hospital, Department of Pathology**

醫院管理局-伊利沙伯醫院病理學部

**ADDRESS** : Queen Elizabeth Hospital, 30 Gascoigne Road, Kowloon, Hong Kong  
**地址** 香港九龍加士居道 30 號伊利沙伯醫院

**ENQUIRY** : Mr CHENG Chun-wah  
**查詢** 鄭俊華先生

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**WEBSITE ADDRESS** : <http://www.ha.org.hk/qeh>  
**網址**

**CLIENTELE** : Public and private hospitals and clinics  
**服務對象** 公營及私營醫院和診所

**Hospital Authority – Queen Elizabeth Hospital, Department of Pathology**

醫院管理局-伊利沙伯醫院病理學部

**ADDRESS :**

**地址**

**Main Facility**

Queen Elizabeth Hospital, 30 Gascoigne Road, Kowloon, Hong Kong

香港九龍加士居道30號伊利沙伯醫院

- (i) Anatomical Pathology Laboratory, 9/F & 10/F, Block M
- (ii) Autopsy Service, Room 1, LG, Block B
- (iii) Chemical Pathology Laboratory, 8/F, Block M
- (iv) Core Laboratory and Blood Bank, 6/F, Block M
- (v) Haematology Laboratory, 7/F, Block M
- (vi) Molecular Pathology Laboratory, 7/F, Block M
- (vii) Microbiology Laboratory, 11/F, Block M
- (viii) Virology Laboratory, 12/F, Block M

**Branch Facility**

Department of Pathology, 2/F, Main Building, Kowloon Hospital, 147A Argyle Street, Kowloon, Hong Kong

香港九龍亞皆老街147A九龍醫院主座2樓病理學部

**LABORATORY  
DIRECTOR**

**化驗所主管**

**: Pathologist Director 病理學主管:**

Dr CHEUK Wah

卓華醫生

BSc(Hons), M.B.B.S.(H.K.), F.R.C.P.A., F.H.K.C.Path, F.H.K.A.M.(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 (Cytogenomics and Molecular Genetics)

醫學遺傳學 (細胞遺傳學 及 分子遺傳學)

**Hospital Authority – Queen Elizabeth Hospital, Department of Pathology**

醫院管理局-伊利沙伯醫院病理學部

Autopsy Service: Room 1, LG, Block B, Queen Elizabeth Hospital

伊利沙伯醫院 B 座地下低層一號房

| MEDICAL TESTING   |  |  |  |
|---|--|--|--|
| DISCIPLINE<br>專科範疇  | TEST AREA<br>OR SAMPLE TYPE<br>測試範圍或樣本種類         | SPECIFIC EXAMINATION OR<br>PROPERTY MEASURED<br>特定測試或量度的特性 | METHOD<br>OR TECHNIQUE USED<br>方法或應用技術   |
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| Anatomical Pathology  | Autopsy<br>Adult, fetal and perinatal<br>autopsy | Autopsy examination by<br>Routine and special staining     | Autopsy method and specimen preparation:<br>Specimen preparation as documented in<br>MT/PC/SPE<br>MT/PC/SOP<br><br>Haematoxylin & eosin stain, special stain, method as<br>Documented in AP/PC/STA |

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Anatomical Pathology Laboratory: 9/F & 10/F, Block M, Queen Elizabeth Hospital

解剖病理學實驗室：伊利沙伯醫院 M 座 9 至 10 樓

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| Anatomical Pathology<br>(cont'd)  | Cytopathology                            |  |  |
|   | Fine needle aspirates                    | Fine needle aspiration cytology examination by<br>H&E, Papanicolaou and special staining | Specimen preparation as documented in<br>AP/PC/FNA, AP/PC/CSP<br>Haematoxylin and Eosin stain<br>Papanicolaou stain<br>Special stains<br>Methods as documented in AP/PC/CNL, AP/PC/STA   |
|   | Gynaecological specimens                 | Gynaecological cytology examination by Papanicolaou staining                             | Specimen preparation as documented in<br>AP/PC/CTP<br>Papanicolaou staining<br>Method as documented in AP/PC/CNL   |
|   | Non-gynaecological specimens             | Non-gynaecological cytology examination by Papanicolaou and special staining             | Specimen preparation as documented in<br>AP/PC/SRC<br>AP/PC/CNL<br>AP/PC/CSP<br>AP/PC/CTP<br><br>Papanicolaou staining<br>Giemsa stain<br>Eosinophil granules by Carbol Chromotrope<br>Method as documented in AP/PC/CNL<br><br>Special stains<br>Fungi, Pneumocystis jirovecii by Grocott's Methenamine Silver<br>Haemosiderin by Perls' Prussian blue<br>Melanin-laden macrophages by Masson Fontana<br>Methods as documented in AP/PC/STA<br><br>Fat-laden macrophages by Oil Red O<br>Methods as documented in AP/PC/ENZ |

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解剖病理學實驗室：伊利沙伯醫院 M 座 9 至 10 樓

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| Anatomical Pathology<br>(cont'd)  | <b>Electron microscopy</b><br>Renal, skeletal muscle,<br>nerve, skin, nasal brush<br>for cilia, tumour,<br>cytology specimens,<br>miscellaneous samples | Histology examination by<br>Transmission electron microscopy | Specimen preparation as documented in AP/PC/EMP  |
|   | <b>Histopathology</b><br>Surgical pathology   | Histology examination by<br>H&E and special staining         | Specimen preparation as documented in<br>AP/PC/HSR<br>AP/PC/ALL<br>AP/PC/SUR<br>AP/PC/PRO<br>AP/PC/EMB<br>AP/PC/SEC<br><br>H&E Staining<br>Special staining (manual method)<br>Acid fast bacteria by Ziehl-Neelsen<br>Acidic mucins by Alcian Blue<br>Acidic and neutral mucins by Alcian Blue-PAS<br>Acidic mucins by Southgate's Mucicarmine<br>Amyloid by Highman's Congo Red<br>Amyloid by Crystal Violet<br>Argentaffin granules by Masson Fontana<br>Bacteria by Gram stain<br>Basement membrane by Periodic acid-Silver-Methenamine<br>Calcium salts by Von Kossa<br>Collagen and fibrin by Masson Trichrome<br>Collagen and Mallory bodies by Chromotrope-Aniline Blue<br>Connective tissues by Van Gieson's stain<br>Copper by Rhodanine method<br>Elastic fibres by Verhoeff's – van Gieson stain<br>Fungi by Grocott's Methenamine Silver<br>General histology by Haematoxylin & Eosin<br>Glycol groups by Periodic Acid Schiff (digestion)<br>Haemosiderin by Perls' Prussian Blue<br>HBsAg & elastic fibres by Orcein<br>Leprosy bacilli by Wade-Fite<br>Lipofuscin by Long Ziehl-Neelsen<br>Microorganisms by Gram Twort<br>Mucin by Hyaluronidase digestion-Alcian blue |

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| Anatomical Pathology<br>(cont'd)  | Histopathology (cont'd)  |   |   |
|   | Surgical pathology<br>(cont'd)   | Histology examination by<br>H&E and special staining (cont'd)   | Special staining (manual method) (cont'd)<br>Myelin by Luxol Fast Blue<br>Myelin by Solochrome Cyanine<br>Neurofibrils by Bielschowsky's Silver<br>Reticulin by Gordon & Sweet's (modified)<br>Collagen and fibrin by Martius yellow-Scarlet-aniline Blue<br>Spirochetes & other microorganism by modified<br>Warthin-Starry method<br>Methods as documented in AP/PC/STA |
|   | Intra-operative frozen<br>section for fresh tissue<br>specimens and biopsies | Histology examinations by<br>H&E and Toluidine blue staining  | Specimen preparation and staining as documented in<br>AP/PC/IFS   |
|   | Fresh tissue specimens<br>and biopsies, special<br>specimens                 | Histology examination and enzyme<br>histochemistry by<br>Special staining (manual) and<br>Enzyme histochemistry tests | Specimen preparation, enzyme histochemistry staining, special<br>stains as documented in AP/PC/ENZ<br>NADH-tetrazolium reductase<br>Succinic dehydrogenase (SDH)<br>Phosphorylase<br>Cytochrome C oxidase (COX)<br>COX + SDH<br>Non-specific esterase<br>Van Gieson's stain<br>Modified Gomori trichrome<br>Oil Red O<br>Periodic Acid Schiff                             |

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Anatomical Pathology Laboratory: 9/F & 10/F, Block M, Queen Elizabeth Hospital

解剖病理學實驗室：伊利沙伯醫院 M 座 9 至 10 樓

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| Anatomical Pathology<br>(cont'd)  | Histopathology (cont'd)<br>Histological specimens | Immunohistochemical examination for<br>various antigen markers by<br>Automated staining method | <p>Slide preparation and staining (Dako Cytomation Autostainer Link 48):<br/>Method as documented in AP/PC/IHC<br/>Detection system: Dako Cytomation Envision<br/>Antigen retrieval: Heat-induced epitope retrieval</p> <p>Slide preparation and staining (BOND-III):<br/>Method as documented in AP/PC/IHC<br/>Detection system: BOND Polymer detection kit<br/>Antigen retrieval: Heat-induced epitope retrieval or enzymatic digestion</p> <p>Slide preparation and staining (VENTANA Benchmark ULTRA):<br/>Method as documented in AP/PC/IHC<br/>Detection system: OptiView DAB detection kit<br/>Antigen retrieval: Heat-induced epitope retrieval or enzymatic digestion</p> <p>Slide preparation and staining (VENTANA Discovery ULTRA):<br/>Method as documented in AP/PC/IHC<br/>Detection system: Universal HQ Kit and ChromoMAP DAB Kit<br/>Antigen retrieval: Heat-induced epitope retrieval or enzymatic digestion</p> |
|   | Renal and skin biopsies                           | Immunofluorescence examination by<br>Manual method   | <p>Specimen preparation and staining by<br/>Direct Immunofluorescence:<br/>Renal biopsy: IgA / IgM / IgG / C1q / Complement 3 /<br/>Fibrinogen / Kappa / Lambda<br/>Skin biopsy: IgA / IgM / IgG / Fibrinogen / Complement 3<br/>Method as documented in AP/PC/IMF</p> <p>Specimen preparation and staining by<br/>Indirect Immunofluorescence:<br/>PLA2R<br/>Method as documented in AP/PC/IMF</p>   |

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| Medical Genetics  | Histopathology (cont'd)<br>Tissue specimens                   | Epstein-Barr Virus Early RNA (EBV EBER) by<br>In-situ Hybridization (ISH)  | Slide preparation and staining (BOND-III):<br>Method as documented in AP/PC/ISH<br>Detection system: BOND Polymer detection kit  |
|   |   | Kappa and Lambda mRNA by<br>In-situ Hybridization (ISH)  | Slide preparation and staining (BOND-III):<br>Method as documented in AP/PC/ISH<br>Detection system: BOND Polymer detection kit  |
|   | Molecular Genetics (anatomical pathology)<br>Tissue specimens | Human Papilloma Virus RNA (HPV) by<br>In-situ Hybridization (ISH)  | Slide preparation and staining (VENTANA Discovery ULTRA):<br>Method as documented in AP/PC/ISH<br>Detection system: ACD RNAscope VS<br>Universal HRP Reagent Kit                 |
|   | Breast and gastric tissues                                    | Amplification of Erb-B2 receptor tyrosine kinase 2 (ERBB2, HER2) by<br>Silver In-situ Hybridization (SISH)       | Slide preparation and staining<br>(VENTANA Benchmark ULTRA):<br>Method as documented in AP/PC/SIS<br>Detection system: Ventana HER2 Dual ISH DNA probe and kits                  |
|   |   | Fluorescence In-situ Hybridization (FISH)  | Slide preparation and detection with<br>Abbott reagents and PathVysion HER-2 DNA probe kit<br>Method as documented in AP/PC/FIS<br>Analysis with Automated Bioview Duet System   |
|   | Formalin fixed paraffin embedded lung cancer specimens        | Detection of Anaplastic Lymphoma Kinase (ALK) gene rearrangement by<br>Fluorescence In-situ Hybridization (FISH) | Slide preparation and detection with Abbott reagents and<br>Vysis Break Apart FISH probe kit<br>Method as documented in AP/PC/FIS<br>Analysis with Automated Bioview Duet System |

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醫院管理局-伊利沙伯醫院病理學部

Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital

化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

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| Chemical Pathology  | Biogenic Amine<br>EDTA plasma            | Plasma Free Metanephrines include:  |   |
|   |  | Free Metanephrine by<br>Liquid chromatography-tandem<br>mass spectrometry (LC-MS/MS)      | Method as documented in CC-PC-PMET using<br>Waters Xevo TQ-S micro system |
|   |  | Free Normetanephrine by<br>Liquid chromatography-tandem<br>mass spectrometry (LC-MS/MS)   | Method as documented in CC-PC-PMET using<br>Waters Xevo TQ-S micro system |
|   | Urine                                    | Free 3-Methoxytyramine by<br>Liquid chromatography-tandem<br>mass spectrometry (LC-MS/MS) | Method as documented in CC-PC-PMET using<br>Waters Xevo TQ-S micro system |
|   |  | Urine Catecholamines and Free<br>Methanephrines include:                                  |   |
|   |  | Adrenaline by<br>Liquid chromatography-tandem<br>mass spectrometry (LC-MS/MS)             | Method as documented in CC-PC-UMET using<br>Waters Xevo TQ-S micro system |
|   |  | Noradrenaline by<br>Liquid chromatography-tandem<br>mass spectrometry (LC-MS/MS)          | Method as documented in CC-PC-UMET using<br>Waters Xevo TQ-S micro system |
|   |  | Dopamine by<br>Liquid chromatography-tandem<br>mass spectrometry (LC-MS/MS)               | Method as documented in CC-PC-UMET using<br>Waters Xevo TQ-S micro system |
|   |  | Free Metanephrine by<br>Liquid chromatography-tandem<br>mass spectrometry (LC-MS/MS)      | Method as documented in CC-PC-UMET using<br>Waters Xevo TQ-S micro system |
|   |  | Free Normetanephrine by<br>Liquid chromatography-tandem<br>mass spectrometry (LC-MS/MS)   | Method as documented in CC-PC-UMET using<br>Waters Xevo TQ-S micro system |
|   |  | Free 3-Methoxytyramine by<br>Liquid chromatography-tandem<br>mass spectrometry (LC-MS/MS) | Method as documented in CC-PC-UMET using<br>Waters Xevo TQ-S micro system |

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醫院管理局-伊利沙伯醫院病理學部

Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital

化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

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| Chemical Pathology<br>(cont'd)  | Biogenic Amine (cont'd)<br>Urine (cont'd)                                  | 5-Hydroxyindole-3-Acetic Acid by<br>Liquid chromatography-tandem<br>mass spectrometry (LC-MS/MS) | Method as documented in CC-PC-VMA using<br>Waters Xevo TQ-S micro system                               |
|   |  | Homovanillic Acid by<br>Liquid chromatography-tandem<br>mass spectrometry (LC-MS/MS)             | Method as documented in CC-PC-VMA using<br>Waters Xevo TQ-S micro system                               |
|   |  | Vanilmandelic Acid by<br>Liquid chromatography-tandem<br>mass spectrometry (LC-MS/MS)            | Method as documented in CC-PC-VMA using<br>Waters Xevo TQ-S micro system                               |
|   | General Chemistry<br>Li-heparin plasma,<br>body fluid, urine               | Osmolality by<br>Freezing point depression   | Arkray OM-6000 Osmometer<br>Method as documented in CC-PC-OSM  |
|   |  |  |  |
|   | Heavy metals and trace<br>elements<br>EDTA plasma, urine<br><br>EDTA blood | Copper by<br>Inductively Coupled Plasma Mass<br>Spectrometry (ICP-MS)                            | PerkinElmer NexION 2000G system ICP Mass Spectrometer<br>(ICP-MS)<br>Method as documented in CC-PC-CU  |
|   |  | Lead by<br>Inductively Coupled Plasma Mass<br>Spectrometry (ICP-MS)                              | PerkinElmer NexION 2000G system ICP Mass Spectrometer<br>(ICP-MS)<br>Method as documented in CC-PC-BPB |
|   |  | Lead (Pregnancy/Lactation) by<br>Inductively Coupled Plasma Mass<br>Spectrometry (ICP-MS)        | PerkinElmer NexION 2000G system ICP Mass Spectrometer<br>(ICP-MS)<br>Method as documented in CC-PC-BPB |
|   |  | Zinc by<br>Inductively Coupled Plasma Mass<br>Spectrometry (ICP-MS)                              | PerkinElmer NexION 2000G system ICP Mass Spectrometer<br>(ICP-MS)<br>Method as documented in CC-PC-PZN |
|   |  |  |  |

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化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

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| Chemical Pathology<br>(cont'd)  | Hormones                                 |   |  |
|   | EDTA plasma                              | Adrenocorticotrophic Hormone (ACTH) by<br>Immunoassay (Electrochemiluminescent<br>label)              | Roche cobas 8000 system<br>Elecsys ACTH assay          |
|   | CSF                                      | Beta Human Chorionic Gonadotropin, Total,<br>CSF by<br>Immunoassay (Electrochemiluminescent<br>label) | Roche cobas 8000 system<br>Elecsys HCG+β assay         |
|   | Serum                                    | Beta Human Chorionic Gonadotropin, Total<br>by<br>Immunoassay (Electrochemiluminescent<br>label)      | Roche cobas 8000 system<br>Elecsys HCG+β assay         |
|   |  | Calcitonin by<br>Immunoassay (Electrochemiluminescent<br>label)                                       | Roche cobas 8000 system<br>Elecsys Calcitonin assay    |
|   |  | Cortisol by<br>Immunoassay (Electrochemiluminescent<br>label)   | Roche cobas 8000 system<br>Elecsys Cortisol II assay   |
|   |  | Estradiol (E2) by<br>Immunoassay (Electrochemiluminescent<br>label)                                   | Roche cobas 8000 system<br>Elecsys Estradiol III assay |
|   |  | Follicle Stimulating Hormone (FSH) by<br>Immunoassay (Electrochemiluminescent<br>label)               | Roche cobas 8000 system<br>Elecsys FSH assay           |
|   |  | Growth Hormone (GH) by<br>Immunoassay (Electrochemiluminescent<br>label)                              | Roche cobas 8000 system<br>Elecsys hGH assay           |
|   |  | Insulin by<br>Immunoassay (Electrochemiluminescent<br>label)  | Roche cobas 8000 system<br>Elecsys Insulin assay       |
|   |  | Luteinizing Hormone (LH) by<br>Immunoassay (Electrochemiluminescent<br>label)                         | Roche cobas 8000 system<br>Elecsys LH assay            |

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化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

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| Chemical Pathology<br>(cont'd)  | Hormones (cont'd)                        |   |   |
|   | Serum (cont'd)                           | Parathyroid Hormone (PTH) by<br>Immunoassay (Electrochemiluminescent label)           | Roche cobas 8000 system<br>Elecsys PTH (PTH, 18 minutes application) assay                |
|   | EDTA plasma                              | Parathyroid Hormone (Rapid) by<br>Immunoassay (Electrochemiluminescent label)         | Roche cobas 8000 system<br>Elecsys PTH (PTHST, 9 minutes application) assay               |
|   | Serum                                    | Progesterone by<br>Immunoassay (Electrochemiluminescent label)                        | Roche cobas 8000 system<br>Elecsys Progesterone III assay                                 |
|   |  | Prolactin by<br>Immunoassay (Electrochemiluminescent label)                           | Roche cobas 8000 system<br>Elecsys Prolactin II assay                                     |
|   |  | Prolactin (post PEG) by<br>Immunoassay (Electrochemiluminescent label)                | Roche cobas 8000 system<br>Elecsys Prolactin II assay<br>Method as documented in CC-PC-PL |
|   |  | Sex Hormone Binding Globulin (SHBG) by<br>Immunoassay (Electrochemiluminescent label) | Roche cobas 8000 system<br>Elecsys SHBG assay   |
|   |  | Testosterone by<br>Immunoassay (Electrochemiluminescent label)                        | Roche cobas 8000 system<br>Elecsys Testosterone II assay                                  |
|   |  | Testosterone (bioavailable, free) by<br>Calculation                                   | Calculation from serum testosterone, serum SHBG, serum albumin                            |
|   |  | Thyroid Stimulating Hormone (TSH) by<br>Immunoassay (Electrochemiluminescent label)   | Roche cobas 8000 system<br>Elecsys TSH assay  |
|   |  | Thyroxine, Free (FT4) by<br>Immunoassay (Electrochemiluminescent label)               | Roche cobas 8000 system<br>Elecsys FT4 IV assay   |

**Hospital Authority – Queen Elizabeth Hospital, Department of Pathology**

醫院管理局-伊利沙伯醫院病理學部

Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital

化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

| MEDICAL TESTING   |  |  |  |
|---|--|--|--|
| DISCIPLINE<br>專科範疇  | TEST AREA<br>OR SAMPLE TYPE<br>測試範圍或樣本種類 | SPECIFIC EXAMINATION OR<br>PROPERTY MEASURED<br>特定測試或量度的特性   | METHOD<br>OR TECHNIQUE USED<br>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<br>(cont'd)  | Hormones (cont'd)<br>Serum (cont'd)      | Triiodothyronine, Free (FT3) by<br>Immunoassay (Electrochemiluminescent<br>label)<br><br>Free Light Chains (Kappa, Free and<br>Lambda, Free) by<br>Immunoturbidimetry<br><br>Kappa/Lambda Ratio by<br>Calculation<br><br>Heavy/Light Chain Pairs<br>(IgA Kappa & IgA Lambda,<br>IgG Kappa & IgG Lambda,<br>IgM Kappa & IgM Lambda) by<br>Immunoturbidimetry<br><br>Heavy/Light Chain Pair Ratios<br>(IgA Kappa/IgA Lambda,<br>IgG Kappa/IgG Lambda,<br>IgM Kappa/IgM Lambda) by<br>Calculation | Roche cobas 8000 system<br>Elecsys FT3 III assay<br><br>The Binding Site Optilite Optimised Protein System<br>Freelite Kappa Free assay and<br>Freelite Lambda Free assay<br><br>Calculation from serum kappa, free and serum lambda, free<br><br>The Binding Site Optilite Optimised Protein system<br>Hevylite IgA Kappa assay, IgA Lambda assay, IgG Kappa assay,<br>IgG Lambda assay, IgM Kappa assay, IgM Lambda assay<br><br>Calculation from<br>serum IgA kappa & serum IgA lambda,<br>serum IgG kappa & serum IgG lambda and<br>serum IgM kappa & serum IgM lambda |

**Hospital Authority – Queen Elizabeth Hospital, Department of Pathology**

醫院管理局-伊利沙伯醫院病理學部

Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital

化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

| MEDICAL TESTING   |  |   |   |
|---|--|---|---|
| DISCIPLINE<br>專科範疇  | TEST AREA<br>OR SAMPLE TYPE<br>測試範圍或樣本種類 | SPECIFIC EXAMINATION OR<br>PROPERTY MEASURED<br>特定測試或量度的特性  | METHOD<br>OR TECHNIQUE USED<br>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<br>(cont'd)  | Proteins, qualitative analysis           |   |   |
|   | Serum                                    | Protein Pattern by<br>Capillary Electrophoresis             | Sebia Capillarys 3 Tera System  |
|   | Urine                                    | Protein Pattern by<br>Electrophoresis                       | Sebia Hydrasys 2 Scan Focusing System                                   |
|   | Serum                                    | Monoclonal Protein by<br>- Immunotyping<br>- Immunofixation | Sebia Capillarys 3 Tera System<br>Sebia Hydrasys 2 Scan Focusing System |
|   | Urine                                    | Monoclonal Protein by<br>Immunofixation                     | Sebia Hydrasys 2 Scan Focusing System                                   |
|   | Serum                                    | Cryoglobulin by<br>Precipitation in cold                    | Method as documented in CC-PC-CRY                                       |

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Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital

化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

| MEDICAL TESTING   |  |  |  |
|---|--|--|--|
| DISCIPLINE<br>專科範疇  | TEST AREA<br>OR SAMPLE TYPE<br>測試範圍或樣本種類 | SPECIFIC EXAMINATION OR<br>PROPERTY MEASURED<br>特定測試或量度的特性   | METHOD<br>OR TECHNIQUE USED<br>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<br>(cont'd)  | Special Chemistry                        |  |  |
|   | Urine                                    | Porphobilinogen by<br>Spectrophotometry  | PerkinElmer Lambda 25 UV/VIS Spectrophotometer<br>Method as documented in CC-PC-PBG                                |
|   | Faeces                                   | Faecal Occult Blood by<br>Latex agglutination reaction<br>(Faecal Immunochemical Test, FIT)                | OC-SENSOR PLEDIA system using<br>OC-SENSOR DIANA latex reagent and buffer  |
|   | Serum                                    | Indocyanine Green by<br>Spectrophotometry  | PerkinElmer Lambda 25 UV/VIS Spectrophotometer<br>Method as documented in CC-PC-ICG                                |
|   | Blood                                    | Pyruvate by<br>Spectrophotometry   | PerkinElmer Lambda 25 UV/VIS Spectrophotometer<br>Method as documented in CC-PC-PYR                                |
|   | Li-heparin plasma                        | Heat Labile Alkaline Phosphatase<br>(Heat Stability Index, ALP) by<br>Spectrophotometry and heat treatment | Roche cobas 8000 system<br>ALP2 assay<br>Roche cobas pro system<br>ALP2 assay<br>Method as documented in CC-PC-HAP |
|   | Serum                                    | 25-Hydroxy-Vitamin D, Total by<br>Immunoassay (Electrochemiluminescent<br>label)                           | Roche cobas 8000 system<br>Elecsys Vitamin D total III<br>Method as documented in CC-PC-VITDT                      |
|   |  | 25-Hydroxy-Vitamin D by<br>Liquid chromatography-tandem mass<br>spectrometry (LC-MS/MS)                    | Waters Xevo TQ-S micro system<br>Method as documented in CC-PC-25OHD   |
|   | Li-heparin plasma                        | Plasma amino acids by<br>Liquid chromatography-tandem mass<br>spectrometry (LC-MS/MS)                      | Waters Xevo TQ-S micro system<br>Method as documented in CC-PC-PAA   |
|   | Urine                                    | Urine amino acids by<br>Liquid chromatography-tandem mass<br>spectrometry (LC-MS/MS)                       | Waters Xevo TQ-S micro system<br>Method as documented in CC-PC-PAA   |

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醫院管理局-伊利沙伯醫院病理學部

Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital

化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

| MEDICAL TESTING   |  |  |   |
|---|--|--|---|
| DISCIPLINE<br>專科範疇  | TEST AREA<br>OR SAMPLE TYPE<br>測試範圍或樣本種類 | SPECIFIC EXAMINATION OR<br>PROPERTY MEASURED<br>特定測試或量度的特性                     | METHOD<br>OR TECHNIQUE USED<br>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<br>(cont'd)  | Special Chemistry<br>(cont'd)            |  |   |
|   | Serum                                    | Aldosterone by<br>Liquid chromatography-tandem mass spectrometry (LC-MS/MS)    | Waters Xevo TQ-XS system<br>Method as documented in CC-PC-ALDOMS        |
|   | EDTA plasma                              | Renin activity by<br>Liquid chromatography-tandem mass spectrometry (LC-MS/MS) | Waters Xevo TQ-S micro system<br>Method as documented in CC-PC-PRAMS    |
|   | 24 hour urine                            | Cortisol by<br>Liquid chromatography-tandem mass spectrometry (LC-MS/MS)       | Waters Xevo TQ-S micro system<br>Method as documented in CC-PC-UCOT     |
|   | Serum                                    | Folate by<br>Immunoassay (Electrochemiluminescent label)                       | Roche cobas 8000 system<br>Elecsys Folate III assay                     |
|   |  | Active Vitamin B12 by<br>Immunoassay (Electrochemiluminescent label)           | Roche cobas 8000 system<br>Elecsys Active B12 assay                     |
|   | CSF                                      | Xanthochromia by<br>Spectrophotometry  | CARY 3500 UV/VIS Spectrophotometer<br>Method as documented in CC-PC-CAN |

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Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital

化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

| MEDICAL TESTING   |  |   |  |
|---|--|---|--|
| DISCIPLINE<br>專科範疇  | TEST AREA<br>OR SAMPLE TYPE<br>測試範圍或樣本種類     | SPECIFIC EXAMINATION OR<br>PROPERTY MEASURED<br>特定測試或量度的特性  | METHOD<br>OR TECHNIQUE USED<br>方法或應用技術   |
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| Chemical Pathology<br>(cont'd)  | Therapeutic Drug<br>Monitoring<br>EDTA blood | Cyclosporine A by<br>Liquid chromatography-tandem mass<br>spectrometry (LC-MS/MS)                     | Waters Xevo TQ-S micro system<br>Method as documented in CC-PC-ISD   |
|   |  | Everolimus by<br>Liquid chromatography-tandem mass<br>spectrometry (LC-MS/MS)                         | Waters Xevo TQ-S micro system<br>Method as documented in CC-PC-ISD   |
|   |  | Sirolimus by<br>Liquid chromatography-tandem mass<br>spectrometry (LC-MS/MS)                          | Waters Xevo TQ-S micro system<br>Method as documented in CC-PC-ISD   |
|   |  | Tacrolimus by<br>Liquid chromatography-tandem mass<br>spectrometry (LC-MS/MS)                         | Waters Xevo TQ-S micro system<br>Method as documented in CC-PC-ISD   |
|   |  |   |  |
|   | Toxicology<br>Serum                          | Methanol Screening by<br>Colorimetric Method  | Method as documented in CC-PC-MOH  |
|   | Urine  | Paraquat Screening by<br>Colorimetric Method  | Method as documented in CC-PC-PQA  |
|   |  | General unknown screening by<br>Liquid Chromatography Time-of-Flight<br>Mass Spectrometry (LC-TOF-MS) | Waters Xevo G2-XS QToF system<br>Method as documented in CC-PC-DRUG<br>Waters SYNAPT XS Ion Mobility ToF Mass Spectrometer<br>Method as documented in CC-PC-SYNAPT |

**Hospital Authority – Queen Elizabeth Hospital, Department of Pathology**

醫院管理局-伊利沙伯醫院病理學部

Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital

化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

| MEDICAL TESTING   |  |   |   |
|---|--|---|---|
| DISCIPLINE<br>專科範疇  | TEST AREA<br>OR SAMPLE TYPE<br>測試範圍或樣本種類 | SPECIFIC EXAMINATION OR<br>PROPERTY MEASURED<br>特定測試或量度的特性                                  | METHOD<br>OR TECHNIQUE USED<br>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<br>(cont'd)  | Tumour markers                           |   |   |
|   | CSF                                      | Alpha-Fetoprotein, CSF (CSF AFP) by<br>Immunoassay (Electrochemiluminescent<br>label)       | Roche cobas 8000 system<br>AFP assay                |
|   | Serum                                    | Alpha-Fetoprotein (AFP) by<br>Immunoassay (Electrochemiluminescent<br>label)                | Roche cobas 8000 system<br>AFP assay                |
|   |  | CA 125 by<br>Immunoassay (Electrochemiluminescent<br>label)                                 | Roche cobas 8000 system<br>Elecsys CA 125 II assay  |
|   |  | CA 19.9 by<br>Immunoassay (Electrochemiluminescent<br>label)                                | Roche cobas 8000 system<br>Elecsys CA 19-9 assay    |
|   |  | Carcinoembryonic Antigen (CEA) by<br>Immunoassay (Electrochemiluminescent<br>label)         | Roche cobas 8000 system<br>Elecsys CEA assay        |
|   |  | Cyfra 21-1 by<br>Immunoassay (Electrochemiluminescent<br>label)                             | Roche cobas 8000 system<br>Elecsys CYFRA 21-1 assay |
|   |  | Prostate Specific Antigen, Total (PSA) by<br>Immunoassay (Electrochemiluminescent<br>label) | Roche cobas 8000 system<br>Elecsys total PSA assay  |

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Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital

化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

| MEDICAL TESTING   |  |   |  |
|---|--|---|--|
| DISCIPLINE<br>專科範疇  | TEST AREA<br>OR SAMPLE TYPE<br>測試範圍或樣本種類 | SPECIFIC EXAMINATION OR<br>PROPERTY MEASURED<br>特定測試或量度的特性  | METHOD<br>OR TECHNIQUE USED<br>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. |  |   |  |
| Immunology  | Immunochemistry<br>Serum                 | Alpha-1-Antitrypsin (AAT) by<br>Immunoturbidimetry  | Roche cobas 8000 system<br>AAT2 assay                      |
|   |  | Beta C-Terminal Cross-Linking Telopeptide<br>of Type 1 Collagen (Beta-CTX) by<br>Immunoassay (Electrochemiluminescent<br>label) | Roche cobas 8000 system<br>Elecsys β-CrossLaps/serum assay |
|   |  | Ceruloplasmin by<br>Immunoturbidimetry  | Roche cobas 8000 system<br>CERU assay                      |
|   |  | Complement C3 (C3) by<br>Immunoturbidimetry   | Roche cobas 8000 system<br>C3C-2 assay                     |
|   |  | Complement C4 (C4) by<br>Immunoturbidimetry   | Roche cobas 8000 system<br>C4-2 assay                      |
|   |  | Dehydroepiandrosterone Sulphate<br>(DHEA-sulphate) by<br>Immunoassay (Electrochemiluminescent<br>label)                         | Roche cobas 8000 system<br>Elecsys DHEA-S assay            |
|   |  | Haptoglobin by<br>Immunoturbidimetry  | Roche cobas 8000 system<br>HAPT2 assay                     |
|   | Fluoride plasma, serum                   | Homeostatic Model Assessment (HOMA)<br>(Beta Cell Function, Insulin Sensitivity,<br>Insulin Resistance) by<br>Calculation       | Calculation from serum insulin and fasting plasma glucose  |
|   | Serum                                    | Immunoglobulin A (IgA) by<br>Immunoturbidimetry   | Roche cobas 8000 system<br>IGA-2 assay                     |
|   |  | Immunoglobulin G (IgG) by<br>Immunoturbidimetry   | Roche cobas 8000 system<br>IGG-2 assay                     |

**Hospital Authority – Queen Elizabeth Hospital, Department of Pathology**

醫院管理局-伊利沙伯醫院病理學部

Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital

化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

| MEDICAL TESTING   |   |   |   |
|---|---|---|---|
| DISCIPLINE<br>專科範疇  | TEST AREA<br>OR SAMPLE TYPE<br>測試範圍或樣本種類          | SPECIFIC EXAMINATION OR<br>PROPERTY MEASURED<br>特定測試或量度的特性  | METHOD<br>OR TECHNIQUE USED<br>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. |   |   |   |
| Immunology<br>(cont'd)  | Immunochemistry<br>(cont'd)<br><br>Serum (cont'd) | Immunoglobulin G4 (IgG4) by<br>Immunoturbidimetry   | The Binding Site Optilite Optimised Protein system<br>Optilite IgG4 assay                               |
|   |   | Immunoglobulin M (IgM) by<br>Immunoturbidimetry   | Roche cobas 8000 system<br>IGM-2 assay  |
|   |   | Procollagen Type 1 N-Terminal Propeptide,<br>Total (PINP, Total) by<br>Immunoassay (Electrochemiluminescent<br>label) | Roche cobas 8000 system<br>Elecsys total PINP assay   |
|   |   | Thyroglobulin by<br>Immunoassay (Electrochemiluminescent<br>label)  | Roche cobas 8000 system<br>Elecsys Tg II assay  |
|   | Li-heparin plasma                                 | N-Terminal pro B Type Natriuretic Peptide<br>(NT-proBNP) by<br>Immunoassay (Electrochemiluminescent<br>label)         | Roche cobas 8000 system<br>Elecsys proBNP II assay<br>Roche cobas pro system<br>Elecsys proBNP II assay |

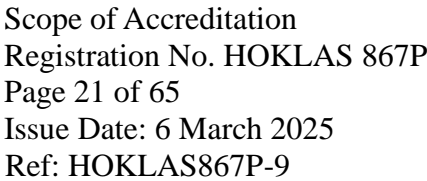
**Hospital Authority – Queen Elizabeth Hospital, Department of Pathology**

醫院管理局-伊利沙伯醫院病理學部

Chemical Pathology Laboratory: 8/F, Block M, Queen Elizabeth Hospital

化學病理學實驗室：伊利沙伯醫院 M 座 8 樓

| MEDICAL TESTING   |  |  |   |
|---|--|--|---|
| DISCIPLINE<br>專科範疇  | TEST AREA<br>OR SAMPLE TYPE<br>測試範圍或樣本種類                 | SPECIFIC EXAMINATION OR<br>PROPERTY MEASURED<br>特定測試或量度的特性   | METHOD<br>OR TECHNIQUE USED<br>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. |  |  |   |
| Medical Genetics  | Molecular Genetics<br>(chemical pathology)<br>EDTA blood | <p>Genetic analysis of <i>TPMT/NUDT15</i> genes by<br/>Polymerase chain reaction (PCR) and<br/>Sanger sequencing method<br/>(Target regions: <i>TPMT</i> exon 4, 6 and 9;<br/><i>NUDT15</i> exons 1 and 3)</p> <p>Genetic analysis of <i>CYP21A2</i> gene by<br/>Polymerase chain reaction (PCR),<br/>Sanger sequencing and Multiplex<br/>Ligation-Probe Dependent Amplification<br/>(MLPA) methods<br/>(Target region: <i>CYP21A2</i> gene)</p> <p>Genetic analysis of <i>VHL</i> gene by<br/>Polymerase chain reaction (PCR),<br/>Sanger sequencing and Multiplex<br/>Ligation-Probe Dependent Amplification<br/>(MLPA) methods<br/>(Target region: <i>VHL</i> gene)</p> <p>Genetic analysis of <i>ATP7B</i> gene by<br/>Polymerase chain reaction (PCR),<br/>Sanger sequencing and Multiplex<br/>Ligation-Probe Dependent Amplification<br/>(MLPA) methods<br/>(Target region: <i>ATP7B</i> gene)</p> <p>Genetic analysis of <i>PTEN</i> gene by<br/>Polymerase chain reaction (PCR),<br/>Sanger sequencing and Multiplex<br/>Ligation-Probe Dependent Amplification<br/>(MLPA) methods<br/>(Target region: <i>PTEN</i> gene)</p> | <p>Nucleic acid extraction, nucleic acid amplification and<br/>post-amplification processing as documented in<br/>CC-PC-GEN and CC-PC-NUDT15</p> <p>Nucleic acid extraction, nucleic acid amplification and<br/>post-amplification processing as documented in<br/>CC-PC-GEN and CC-PC-CYP21A2</p> <p>Nucleic acid extraction, nucleic acid amplification and<br/>post-amplification processing as documented in<br/>CC-PC-GEN and CC-PC-VHL</p> <p>Nucleic acid extraction, nucleic acid amplification and<br/>post-amplification processing as documented in<br/>CC-PC-GEN and CC-PC-ATP7B</p> <p>Nucleic acid extraction, nucleic acid amplification and<br/>post-amplification processing as documented in<br/>CC-PC-GEN and CC-PC-PTEN</p> |



醫院管理局-伊利沙伯醫院病理學部  
Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital  
二十四小時綜合化驗室和血庫：伊利沙伯醫院 M 座 6 樓

| MEDICAL TESTING   |   |   |  |
|---|---|---|--|
| DISCIPLINE<br>專科範疇  | TEST AREA<br>OR SAMPLE TYPE<br>測試範圍或樣本種類                  | SPECIFIC EXAMINATION OR<br>PROPERTY MEASURED<br>特定測試或量度的特性                    | METHOD<br>OR TECHNIQUE USED<br>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  | Blood gases and<br>Co-oximetry<br>Heparinized whole blood | Blood Gas include:  |  |
|   |   | pCO <sub>2</sub> by<br>Potentiometry pCO <sub>2</sub> -Sensing Electrode)     | Siemens RapidLab 1265 system           |
|   |   | pH by<br>Potentiometry (Ion Selective Electrode)                              | Siemens RapidLab 1265 system           |
|   |   | pO <sub>2</sub> by<br>Polarography (Oxygen-Sensing<br>Amperometric Electrode) | Siemens RapidLab 1265 system           |
|   |   | Bass Excess by<br>Auto calculation  | Siemens RapidLab 1265 system           |
|   |   | Bicarbonate by<br>Auto calculation  | Siemens RapidLab 1265 system           |
|   |   | O <sub>2</sub> Saturation by<br>Auto calculation                              | Siemens RapidLab 1265 system           |
|   |   | Carboxyhaemoglobin by<br>Co-oximetry  | Siemens RapidLab 1265 system           |
|   |   | Deoxyhaemoglobin by<br>Co-oximetry  | Siemens RapidLab 1265 system           |
|   |   | Methaemoglobin by<br>Co-oximetry  | Siemens RapidLab 1265 system           |
|   |   | Oxyhaemoglobin by<br>Co-oximetry  | Siemens RapidLab 1265 system           |
|   |   | Total haemoglobin by<br>Co-oximetry   | Siemens RapidLab 1265 system           |

醫院管理局-伊利沙伯醫院病理學部

Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital

二十四小時綜合化驗室和血庫：伊利沙伯醫院M座6樓

| MEDICAL TESTING   |   |   |  |
|---|---|---|--|
| DISCIPLINE<br>專科範疇  | TEST AREA<br>OR SAMPLE TYPE<br>測試範圍或樣本種類                              | SPECIFIC EXAMINATION OR<br>PROPERTY MEASURED<br>特定測試或量度的特性                    | METHOD<br>OR TECHNIQUE USED<br>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<br>(cont'd)  | Blood gases and<br>Co-oximetry (cont'd)<br><br>Heparinized cord blood | Arterial Cord Blood Gases:  |  |
|   |   | pH by<br>Potentiometry (Ion Selective Electrode)                              | Siemens RapidLab 1265 system           |
|   |   | pO <sub>2</sub> by<br>Polarography (Oxygen-Sensing<br>Amperometric Electrode) | Siemens RapidLab 1265 system           |
|   |   | pCO <sub>2</sub> by<br>Potentiometry (pCO <sub>2</sub> -Sensing Electrode)    | Siemens RapidLab 1265 system           |
|   |   | HCO <sub>3</sub> by<br>Autocalculation  | Siemens RapidLab 1265 system           |
|   |   | O <sub>2</sub> sat by<br>Autocalculatoin                                      | Siemens RapidLab 1265 system           |
|   |   | Base Excess by<br>Autocalculation   | Siemens RapidLab 1265 system           |
|   |   | Venous Cord Blood Gases:  |  |
|   |   | pH by<br>Potentiometry (Ion Selective Electrode)                              | Siemens RapidLab 1265 system           |
|   |   | pO <sub>2</sub> by<br>Polarography (Oxygen-Sensing<br>Amperometric Electrode) | Siemens RapidLab 1265 system           |
|   |   | pCO <sub>2</sub> by<br>Potentiometry (pCO <sub>2</sub> -Sensing Electrode)    | Siemens RapidLab 1265 system           |
|   |   | HCO <sub>3</sub> by<br>Autocalculation  | Siemens RapidLab 1265 system           |
|   |   | O <sub>2</sub> sat by<br>Autocalculatoin                                      | Siemens RapidLab 1265 system           |
|   |   | Base Excess by<br>Autocalculation   | Siemens RapidLab 1265 system           |

**Hospital Authority – Queen Elizabeth Hospital, Department of Pathology**

醫院管理局-伊利沙伯醫院病理學部

Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital

二十四小時綜合化驗室和血庫：伊利沙伯醫院 M 座 6 樓

| MEDICAL TESTING   |  |  |  |
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| DISCIPLINE<br>專科範疇  | TEST AREA<br>OR SAMPLE TYPE<br>測試範圍或樣本種類 | SPECIFIC EXAMINATION OR<br>PROPERTY MEASURED<br>特定測試或量度的特性 | METHOD<br>OR TECHNIQUE USED<br>方法或應用技術   |
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| Chemical Pathology<br>(cont'd)  | General Chemistry                        |  |  |
|   | Li-heparin plasma                        | Alanine Aminotransferase (ALT) by<br>Spectrophotometry     | Roche cobas 8000 system<br>ALTPM assay<br>Roche cobas pro system<br>ALTP2 assay  |
|   | Li-heparin plasma,<br>body fluid         | Albumin by<br>Spectrophotometry                            | Roche cobas 8000 system<br>ALBP assay<br>Roche cobas pro system<br>ALBP assay    |
|   | Urine                                    | Albumin (Microalbumin) by<br>Immunoturbidimetry            | Roche cobas 8000 system<br>ALBT2 assay   |
|   |  | Albumin creatinine ratio by<br>Calculation                 | Calculation from urine albumin and urine creatinine                              |
|   | Li-heparin plasma                        | Alkaline Phosphatase (ALP) by<br>Spectrophotometry         | Roche cobas 8000 system<br>ALP2 assay<br>Roche cobas pro system<br>ALP2 assay    |
|   | EDTA Plasma                              | Ammonia by<br>Spectrophotometry                            | Roche cobas pro system<br>NH3L2 assay  |
|   | Li-heparin plasma,<br>body fluid         | Amylase by<br>Spectrophotometry                            | Roche cobas 8000 system<br>AMYL2 assay<br>Roche cobas pro system<br>AMYL2 assay  |
|   | Urine                                    | Amylase by<br>Spectrophotometry                            | Roche cobas 8000 system<br>AMYL2 assay<br>Roche cobas pro system<br>AMYL2U assay |

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| Chemical Pathology<br>(cont'd)  | General Chemistry<br>(cont'd)            |  |   |
|   | Li-heparin plasma,<br>urine              | Amylase Creatinine Clearance Ratio by<br>Calculation       | Calculation from plasma amylase, plasma creatinine, urine<br>amylase and urine creatinine   |
|   | Li-heparin plasma                        | Anion Gap by<br>Calculation                                | Calculation from plasma sodium, potassium, chloride and<br>bicarbonate  |
|   | Urine                                    | Anion Gap by<br>Calculation                                | Calculation from urine sodium, potassium and chloride   |
|   | Li-heparin plasma                        | Aspartate Aminotransferase (AST) by<br>Spectrophotometry   | Roche cobas 8000 system<br>ASTPM assay<br>Roche cobas pro system<br>ASTP2 assay   |
|   | Serum                                    | Beta-Hydroxybutyrate by<br>Spectrophotometry               | Roche cobas 8000 system<br>Stanbio Chemistry for EKF Diagnostics Beta-hydroxybutyrate<br>assay<br>Roche cobas pro system<br>Stanbio Chemistry for EKF Diagnostics Beta-hydroxybutyrate<br>assay |
|   | Li-heparin plasma                        | Bicarbonate by<br>Spectrophotometry                        | Roche cobas 8000 system<br>CO2-L assay<br>Roche cobas pro system<br>CO2-L assay   |
|   |  | Bilirubin, Direct by<br>Spectrophotometry                  | Roche cobas pro system<br>BILD2-J assay   |
|   |  | Bilirubin, Indirect by<br>Calculation                      | Calculation from plasma bilirubin, total and<br>plasma bilirubin, direct  |

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| Chemical Pathology<br>(cont'd)  | General Chemistry<br>(cont'd)            |  |   |
|   | Li-heparin plasma,<br>body fluid         | Bilirubin, Total by<br>Spectrophotometry                           | Roche cobas 8000 system<br>BILT3 assay<br>Roche cobas pro system<br>BILT3 assay           |
|   |  | Calcium by<br>Spectrophotometry                                    | Roche coabs 8000 system<br>CA2 assay<br>Roche cobas pro system<br>CA2 assay               |
|   | Urine                                    | Calcium by<br>Spectrophotometry                                    | Roche cobas 8000 system<br>CA2 assay<br>Roche cobas pro system<br>CA2U assay              |
|   | Li-heparin plasma and<br>urine           | Calcium Creatinine Clearance Ratio by<br>Calculation               | Calculation from plasma calcium, plasma creatinine,<br>Urine calcium and urine creatinine |
|   | Urine                                    | Calcium Creatinine Ratio by<br>Calculation                         | Calculation from urine calcium and urine creatinine                                       |
|   | Heparinized whole blood                  | Calcium, Ionized by<br>Potentiometry (Ion Selective Electrode)     | Siemen RapidLab 1265 system   |
|   | Li-heparin plasma,<br>body fluid         | Chloride by<br>Potentiometry (Indirect Ion Selective<br>Electrode) | Roche cobas 8000 system<br>ISE CL assay<br>Roche cobas pro system<br>ISE CL assay         |
|   | Urine                                    | Chloride by<br>Potentiometry (Indirect Ion Selective<br>Electrode) | Roche cobas 8000 system<br>ISE CL assay<br>Roche cobas pro system<br>ISE CL-U assay       |

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| Chemical Pathology<br>(cont'd)  | General Chemistry<br>(cont'd)<br><br>Li-heparin plasma | Cholesterol, High Density Lipoprotein (HDL-C) by Spectrophotometry | Roche cobas 8000 system<br>HDL-C4 assay  |
|   |  | Cholesterol, Low Density Lipoprotein (LDL-C) by Calculation        | Calculation from plasma cholesterol, total, plasma HDL-C and plasma triglycerides                        |
|   |  | Cholesterol, Low Density Lipoprotein (LDL-C) by Spectrophotometry  | Roche cobas 8000 system<br>LDL-C3 assay  |
|   |  | Cholesterol, Non-HDL (Non-HDL-C) by Calculation                    | Calculation from plasma cholesterol, total and plasma HDL-C  |
|   |  | Cholesterol, Total by Spectrophotometry                            | Roche cobas 8000 system<br>CHOL2 assay   |
|   |  |  |  |
|   | Li-heparin plasma, body fluid                          | Creatine Kinase (CK) by Spectrophotometry                          | Roche cobas 8000 system<br>CK (CK2) assay<br>Roche cobas pro system<br>CK (CK2) assay                    |
|   | Li-heparin plasma, body fluid                          | Creatinine by Spectrophotometry                                    | Roche cobase 8000 system<br>CREA2 (Enzymatic) assay<br>Roche cobas pro system<br>CREP2 (Enzymatic) assay |
|   | Urine  | Creatinine by Spectrophotometry                                    | Roche cobas 8000 system<br>CRE2U (Enzymatic) assay<br>Roche cobas pro system<br>CREP2U (Enzymatic) assay |
|   |  |  |  |

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| Chemical Pathology<br>(cont'd)  | General Chemistry<br>(cont'd)            |   |   |
|   | Li-heparin plasma,<br>urine              | Creatinine clearance by<br>Calculation                                  | Calculation from plasma creatinine and urine creatinine                         |
|   | Li-heparin plasma                        | Estimated Glomerular Filtration Rate (eGFR)<br>by<br>Calculation        | Calculation from plasma creatinine  |
|   | Serum                                    | Fructosamine by<br>Spectrophotometry                                    | Roche cobas 8000 system<br>FRA assay  |
|   | Li-heparin plasma                        | Gamma-Glutamyl Transferase (GGT) by<br>Spectrophotometry                | Roche cobas 8000 system<br>GGT-2 assay<br>Roche cobas pro system<br>GGT-2 assay |
|   |  | Globulin by<br>Calculation  | Calculation from plasma protein, total and plasma albumin                       |
|   | CSF                                      | Glucose by<br>Spectrophotometry   | Roche cobas pro system<br>GLUC3C assay  |
|   | Fluoride plasma,<br>body fluid           | Glucose by<br>Spectrophotometry   | Roche cobas 8000 system<br>GLUC3 assay<br>Roche cobas pro system<br>GLUC3 assay |
|   | Fluoride plasma                          | Glucose, Fasting by<br>Spectrophotometry                                | Roche cobas 8000 system<br>GLUC3 assay<br>Roche cobas pro system<br>GLUC3 assay |
|   | Li-heparin plasma                        | Haemoglobin, Free by<br>Spectrophotometry (Calculation from<br>H-index) | Roche cobas 8000 system<br>S12 assay<br>Roche cobas pro system<br>S12 assay     |

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| Chemical Pathology<br>(cont'd)  | General Chemistry<br>(cont'd)            |  |   |
|   | Serum                                    | Iron by<br>Spectrophotometry   | Roche cobas 8000 system<br>IRON2 assay  |
|   |  | Iron Binding Capacity, Total (TIBC) by<br>Calculation                | Calculation from serum iron and serum UIBC                                      |
|   |  | Iron Binding Capacity, Unsaturated (UIBC)<br>by<br>Spectrophotometry | Roche cobas 8000 system<br>UIBC assay   |
|   |  | Iron Saturation by<br>Calculation                                    | Calculation from serum iron and serum UIBC                                      |
|   | CSF                                      | L-Lactate by<br>Spectrophotometry                                    | Roche cobas pro system<br>LACT2C assay  |
|   | Fluoride plasma                          | L-Lactate by<br>Spectrophotometry                                    | Roche cobas pro system<br>LACT2P assay  |
|   | Li-heparin plasma,<br>body fluid         | Lactate Dehydrogenase (LDH) by<br>Spectrophotometry                  | Roche cobas 8000 system<br>LDHI2 assay<br>Roche cobas pro system<br>LDHI2 assay |
|   | Li-heparin plasma                        | Magnesium by<br>Spectrophotometry                                    | Roche cobas pro system<br>MG2 assay   |
|   | Urine                                    | Magnesium by<br>Spectrophotometry                                    | Roche cobas pro system<br>MG2U assay  |

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| Chemical Pathology<br>(cont'd)  | General Chemistry<br>(cont'd)            |   |   |
|   | Li-heparin plasma,<br>body fluid, urine  | Osmolality by<br>Freezing point depression                          | Arkray OM-6060 Osmometer<br>Method as documented in CC-PC-OSM                     |
|   | Li-heparin plasma,<br>body fluid         | Phosphate by<br>Spectrophotometry                                   | Roche cobas 8000 system<br>PHOS2 assay<br>Roche cobas pro system<br>PHOS2 assay   |
|   | Urine                                    | Phosphate by<br>Spectrophotometry                                   | Roche cobas 8000 system<br>PHO2U assay<br>Roche cobas pro system<br>PHOS2U assay  |
|   | Li-heparin plasma,<br>body fluid         | Potassium by<br>Potentiometry (Indirect Ion Selective<br>Electrode) | Roche cobas 8000 system<br>ISE K assay<br>Roche cobas pro system<br>ISE K assay   |
|   | Urine                                    | Potassium by<br>Potentiometry (Indirect Ion Selective<br>Electrode) | Roche cobas 8000 system<br>ISE K assay<br>Roche cobas pro system<br>ISE K-U assay |
|   | CSF                                      | Protein, Total by<br>Turbidimetry                                   | Roche cobas pro system<br>TPC3 assay  |

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| Chemical Pathology<br>(cont'd)  | General Chemistry<br>(cont'd)            |   |   |
|   | Li-heparin plasma,<br>body fluid         | Protein, Total by<br>Spectrophotometry  | Roche cobas 8000 system<br>TP2 assay<br>Roche cobas pro system<br>TP2 assay                   |
|   | Urine                                    | Protein, Total by<br>Turbidimetry   | Roche cobas 8000 system<br>TPU3 assay   |
|   |  | Protein Creatinine Ratio by<br>Calculation  | Calculation from urine protein, total and urine creatinine                                    |
|   | Li-heparin plasma,<br>urine              | Ratio of Renal Tubular Maximum<br>Reabsorption Rate of Phosphate of<br>Glomerular Filtration Rate (TmP/GFR) by<br>Calculation | Calculation from plasma creatinine, plasma phosphate,<br>urine creatinine and urine phosphate |
|   | Li-heparin plasma,<br>body fluid         | Sodium by<br>Potentiometry (Indirect Ion Selective<br>Electrode)  | Roche cobas 8000 system<br>ISE NA assay<br>Roche cobas pro system<br>ISE NA assay             |
|   | Urine                                    | Sodium by<br>Potentiometry (Indirect Ion Selective<br>Electrode)  | Roche cobas 8000 system<br>ISE NA assay<br>Roche cobas pro system<br>ISE NA-U assay           |
|   | Li-heparin plasma,<br>urine              | Trans-Tubular Potassium Gradient (TTKG) by<br>Calculation   | Calculation from plasma osmolality, plasma potassium, urine<br>osmolality and urine potassium |
|   | Li-heparin plasma                        | Triglycerides by<br>Spectrophotometry   | Roche cobas 8000 system<br>TRIGL assay  |

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| Chemical Pathology<br>(cont'd)  | General Chemistry<br>(cont'd)<br><br>Li-heparin plasma<br>(cont'd) | Troponin I, High Sensitivity (hs TnI) by<br>Immunoassay (Chemiluminescent label) | Abbott Architect i2000SR system<br>STAT High Sensitive Troponin-I assay         |
|   |  | Urate by<br>Spectrophotometry  | Roche cobas 8000 system<br>UA2 assay<br>Roche cobas pro system<br>UA2 assay     |
|   |  | Urate, on Uricase by<br>Spectrophotometry  | Roche cobas 8000 system<br>UA2 assay<br>Roche cobas pro system<br>UA2 assay     |
|   | Body fluid   | Urate by<br>Spectrophotometry  | Roche cobas 8000 system<br>UA2 assay<br>Roche cobas pro system<br>UA2 assay     |
|   |  | Urate by<br>Spectrophotometry  | Roche cobas 8000 system<br>UA2-U assay<br>Roche cobas pro system<br>UA2U assay  |
|   | Urine  | Urea by<br>Spectrophotometry   | Roche cobas 8000 system<br>UREAL assay<br>Roche cobas pro system<br>UREAL assay |
|   |  | Urea by<br>Spectrophotometry   | Roche cobas 8000 system<br>URELU assay<br>Roche cobas pro system<br>URELU assay |
|   | Urine  | Urea by<br>Spectrophotometry   | Roche cobas 8000 system<br>URELU assay<br>Roche cobas pro system<br>URELU assay |
|   |  | Urea by<br>Spectrophotometry   | Roche cobas 8000 system<br>URELU assay<br>Roche cobas pro system<br>URELU assay |
|   |  | Urea by<br>Spectrophotometry   | Roche cobas 8000 system<br>URELU assay<br>Roche cobas pro system<br>URELU assay |

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| Chemical Pathology<br>(cont'd)  | Protein, quantitative analysis<br>Li-heparin plasma, serum | C-Reactive Protein (CRP) by<br>Immunoturbidimetry                      | Roche cobas 8000 system<br>CRP4 assay<br>Roche cobas pro system<br>CRP4 assay                         |
|   |  | C-Reactive Protein, high sensitive (hsCRP)<br>by<br>Immunoturbidimetry | Roche cobas 8000 system<br>CRPHS assay<br>Roche cobas pro system<br>CRPHS assay                       |
|   | Serum  | Ferritin by<br>Immunoassay (Electrochemiluminescent label)             | Roche cobas 8000 system<br>Elecsys Ferritin assay<br>Roche cobas pro system<br>Elecsys Ferritin assay |
|   |  |  |   |
|   | Therapeutic Drug Monitoring<br>Serum                       | Carbamazepine by<br>Immunoassay (Chemiluminescent label)               | Abbott Architect i2000SR system<br>iCarbamazepine assay   |
|   |  | Digoxin by<br>Immunoassay (Chemiluminescent label)                     | Abbott Architect i2000SR system<br>iDigoxin assay   |
|   |  | Gentamicin by<br>Immunoassay (Chemiluminescent label)                  | Abbott Architect i2000SR system<br>iGentamicin assay  |
|   |  | Methotrexate by<br>Immunoassay (Chemiluminescent label)                | Abbott Architect i2000SR system<br>Methotrexate assay   |
|   |  | Phenobarbital by<br>Immunoassay (Chemiluminescent label)               | Abbott Architect i2000SR system<br>iPhenobarbital assay   |
|   |  |  |   |
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| Chemical Pathology<br>(cont'd)  | Therapeutic Drug<br>Monitoring (cont'd)<br>Serum (cont'd) | Phenytoin by<br>Immunoassay (Chemiluminescent label)                              | Abbott Architect i2000SR system<br>iPhenytoin assay     |
|   |   | Theophylline by<br>Immunoassay (Chemiluminescent label)                           | Abbott Architect i2000SR system<br>iTheophylline assay  |
|   |   | Valproic Acid by<br>Immunoassay (Chemiluminescent label)                          | Abbott Architect i2000SR system<br>iValproic Acid assay |
|   |   | Vancomycin by<br>Immunoassay (Chemiluminescent label)                             | Abbott Architect i2000SR system<br>iVancomycin assay    |
|   |   | Amikacin by<br>Immunoassay (Kinetic interaction of<br>Microparticles in solution) | Roche cobas pro system<br>AMIK2 assay                   |
|   |   | Lithium by<br>Spectrophotometry   | Roche cobas pro system<br>LI assay                      |
|   | Toxicology<br>Serum                                       | Pseudocholinesterase by<br>Spectrophotometry                                      | Roche cobas pro system<br>CHE2 assay                    |
|   |   | Ethanol by<br>Spectrophotometry   | Roche cobas pro system<br>ETOH2 assay                   |
|   |   | Paracetamol by<br>Homogeneous enzyme immunoassay                                  | Roche cobas pro system<br>ACET2 assay                   |
|   |   | Salicylate by<br>Spectrophotometry  | Roche cobas pro system<br>SALI assay                    |
|   |   |   |   |

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| Haematology   | <b>Blood Bank -<br/>Antenatal screening</b><br>EDTA blood | ABO / Rh(D) typing by<br>Red cell agglutination<br>- Automated<br>- Manual<br><br>Antibody screening by<br>- Red cell agglutination, automated<br>- Red cell agglutination, manual<br>- Saline indirect antiglobulin test  | BioRad IH-1000<br>Method as documented in KCC/QEH/PAT/HS/WI/ANS<br><br>BioRad IH-1000<br>Method as documented in KCC/QEH/PAT/HS/WI/ANS  |
|   | <b>Blood Bank -<br/>General</b><br>EDTA blood             | ABO / Rh(D) typing by<br>Red cell agglutination<br>- Automated<br>- Manual<br><br>Antibody screening by<br>- Red cell agglutination, automated<br>- Red cell agglutination, manual<br>- Saline indirect antiglobulin test<br><br>Red cell phenotyping by<br>- Red cell agglutination<br>- Indirect antiglobulin test (IAT)<br><br>Crossmatch by<br>- Computer crossmatch<br>- Immediate spin<br>- Indirect antiglobulin test (IAT) | BioRad IH-1000<br>Method as documented in KCC/QEH/PAT/BB/PC/MET<br><br>BioRad IH-1000<br>Method as documented in KCC/QEH/PAT/BB/PC/MET<br>Method as documented in KCC/QEH/PAT/BB/PC/MET<br><br>Method as documented in KCC/QEH/PAT/HS/PC/STQ<br><br>Method as documented in KCC/QEH/PAT/BB/PC/MET |
|   | <b>Blood Bank -<br/>Immunohaematology</b><br>EDTA blood   | Direct antiglobulin test (DAT) by<br>Conventional method<br><br>Antibody identification by<br>Red cell agglutination, manual<br><br>Antibody titration<br><br>Antibody elution and identification  | Method as documented in KCC/QEH/PAT/HS/PC/STQ<br><br>Method as documented in KCC/QEH/PAT/HS/WI/ABID<br><br>Method as documented in KCC/QEH/PAT/HS/PC/SMIS<br>Method as documented in KCC/QEH/PAT/HS/PC/STQ  |

**Hospital Authority – Queen Elizabeth Hospital, Department of Pathology**

醫院管理局-伊利沙伯醫院病理學部

Core Laboratory and Blood Bank: 6/F, Block M, Queen Elizabeth Hospital

二十四小時綜合化驗室和血庫：伊利沙伯醫院 M 座 6 樓

| MEDICAL TESTING   |  |   |   |
|---|--|---|---|
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| Haematology<br>(cont'd)   | Coagulation<br>Citrate blood             | Coagulation studies, automated including <ul style="list-style-type: none"> <li>- Prothrombin time (PT)</li> <li>- International Normalised Ratio (INR)</li> <li>- Activated Partial Thromoboplastin Time (APTT)</li> <li>- Fibrinogen</li> <li>- Thrombin Time (TT)</li> </ul> | Werfen ACL TOP 750 CTS<br>Method as documented in KCC/QEH/PAT/HS/PC/TOP |
|   |  | D-dimer by<br>latex-enhanced turbidimetric immunoassay  | Werfen ACL TOP 750 CTS<br>Method as documented in KCC/QEH/PAT/HS/PC/TOP |

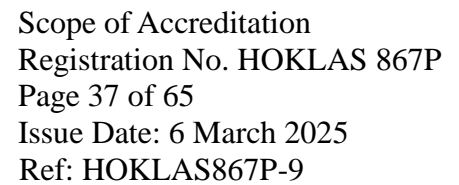
**Hospital Authority – Queen Elizabeth Hospital, Department of Pathology**

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| Haematology<br>(cont'd)   | Haematology -<br>General<br>EDTA blood   | Complete blood count, including <ul style="list-style-type: none"> <li>- Haemoglobin</li> <li>- Haematocrit</li> <li>- Red cell count</li> <li>- Mean corpuscular volume (MCV)</li> <li>- Mean corpuscular haemoglobin (MCH)</li> <li>- Mean corpuscular haemoglobin concentration (MCHC)</li> <li>- Red cell distribution width (RDW)</li> <li>- Leukocyte count</li> <li>- Platelet count</li> <li>- Mean platelet volume (MPV)</li> </ul> | Abbott Alinity iq, Sysmex XN9100<br>Method as documented in KCC/QEH/PAT/HS/PC/SC1 |
|   |  | Leukocyte differential count <ul style="list-style-type: none"> <li>- Automated</li> <li>- Manual</li> </ul>   | Abbott Alinity iq, Sysmex XN9100<br>Method as documented in KCC/QEH/PAT/HS/PC/BF1 |
|   |  | Reticulocyte count <ul style="list-style-type: none"> <li>- Automated</li> </ul>   | Abbott Alinity iq, Sysmex XN9100<br>Method as documented in KCC/QEH/PAT/HS/PC/BS1 |
|   |  | Peripheral blood smear examination<br>Smear staining by <ul style="list-style-type: none"> <li>- May Grunwald-Gimsa stain</li> <li>- Automated method</li> </ul>   | Method as documented in KCC/QEH/PAT/HS/PC/BF1<br>Siemens Hematek 3000             |
|   |  | Malaria parasite examination by<br>Thick and thin smears   | Method as documented in KCC/QEH/PAT/HS/PC/DMP                                     |
|   |  |  |   |



醫院管理局-伊利沙伯醫院病理學部

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| Haematology<br>(cont'd)   | Haematology -<br>General (cont'd)<br><br>EDTA blood (cont'd)  | Erythrocyte sedimentation rate (ESR) by<br><br>Automated method   | Diesse CUBE 30 Touch<br>Method as documented in KCC/QEH/PAT/HS/PC/C30T                |
|   | EDTA bone marrow<br>blood aspirate, clot,<br>trephine imprint | Bone marrow examination<br><br>Bone marrow smear staining by<br>- May Grunwald-Giemsa stain<br><br>- Perl's Prussian Blue stain | Leica ST4020<br>Rushabh HistoPro 620<br>Method as documented in KCC/QEH/PAT/HS/PC/BS1 |

**Hospital Authority – Queen Elizabeth Hospital, Department of Pathology**

醫院管理局-伊利沙伯醫院病理學部

Microbiology Laboratory: 11/F, Block M, Queen Elizabeth Hospital

微生物學實驗室：伊利沙伯醫院 M 座 11 樓

| MEDICAL TESTING   |  |  |   |
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| Clinical<br>Microbiology<br>and Infection   | Bacteriology -<br>culture and sensitivity<br>tests and/or microscopy |  |   |
|   | Blood culture  | Culture and antimicrobial susceptibility tests<br>for pathogens by<br>Aerobic and anaerobic broth culture  | Method as documented in KCC/QEH/PAT/MM/PC/BLD |
|   | Blood transfusion<br>remnants  | Microscopy for microorganisms by<br>Gram stain   | Method as documented in KCC/QEH/PAT/MM/PC/BLD |
|   |  | Culture and antimicrobial susceptibility tests<br>for pathogens by<br>Aerobic and anaerobic broth culture  | Method as documented in KCC/QEH/PAT/MM/PC/BLD |
|   | CSF  | Microscopy for<br>- Cell count by<br>counting chamber<br>- Microorganisms by<br>Gram stain<br>- Encapsulated yeast by<br>Nigrosin stain solution | Method as documented in KCC/QEH/PAT/MM/PC/CSF |
|   |  | Microscopy for cell count by<br>Automated method   | Sysmex XN-1000                                |
|   |  | Culture and antimicrobial susceptibility tests<br>for pathogens by<br>Aerobic and anaerobic culture  | Method as documented in KCC/QEH/PAT/MM/PC/CSF |
|   | Enteric samples<br>(including stool and<br>rectal swab)              | Microscopy for RBC and WBC   | Method as documented in KCC/QEH/PAT/MM/PC/STO |
|   |  | Culture and antimicrobial susceptibility tests<br>for enteric pathogens by<br>Aerobic and microaerophilic culture                                | Method as documented in KCC/QEH/PAT/MM/PC/STO |
|   |  |  |   |

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Microbiology Laboratory: 11/F, Block M, Queen Elizabeth Hospital

微生物學實驗室：伊利沙伯醫院 M 座 11 樓

| MEDICAL TESTING   |   |  |   |
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| Clinical<br>Microbiology<br>and Infection (cont'd)  | Bacteriology -<br>culture and sensitivity<br>tests and/or microscopy<br>(cont'd)<br><br>Genital samples<br>(including HVS, LVS,<br>endocervical swab, and<br>urethral swab, etc.) | Microscopy for cell morphology and<br>Microorganisms by<br>Gram stain  | Method as documented in KCC/QEH/PAT/MM/PC/HVS |
|   |   | Microscopy for <i>Trichomonas</i> and <i>Candida</i> by<br>Direct wet smear  | Method as documented in KCC/QEH/PAT/MM/PC/HVS |
|   |   | Culture and antimicrobial susceptibility tests<br>for pathogens by<br>Aerobic culture  | Method as documented in KCC/QEH/PAT/MM/PC/HVS |
|   |   | Culture and antimicrobial susceptibility tests<br>for <i>Neisseria gonorrhoeae</i>   | Method as documented in KCC/QEH/PAT/MM/PC/HVS |
|   |   | Vaginal-rectal swab<br><br>Culture and antimicrobial susceptibility tests<br>for Group B Streptococcus by<br>Aerobic culture | Method as documented in KCC/QEH/PAT/MM/PC/HVS |
|   | Urine   | Culture and antimicrobial susceptibility tests<br>for pathogens by<br>Standard loop method                                   | Method as documented in KCC/QEH/PAT/MM/PC/URI |
|   | Miscellaneous samples<br>(including body fluid from<br>sterile sites, pus, tissues,<br>etc.)  | Microscopy for cell morphology and<br>microorganisms by<br>Gram stain  | Method as documented in KCC/QEH/PAT/MM/PC/MIS |
|   |   | Culture and antimicrobial susceptibility tests<br>for pathogens by<br>Aerobic and anaerobic culture                          | Method as documented in KCC/QEH/PAT/MM/PC/MIS |
|   | Body fluid from sterile<br>sites  | Cell count by<br>Automated method  | Sysmex XN-1000                                |
|   | Joint fluid, bile,<br>pus-like body fluid   | Semi-quantitative cell count by<br>Gram stain  | Method as documented in KCC/QEH/PAT/MM/PC/MIS |
|   | Peritoneal dialysate<br>fluid   | Microscopy for eosinophil count by<br>Giemsa stain   | Method as documented in KCC/QEH/PAT/MM/PC/MIS |

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Microbiology Laboratory: 11/F, Block M, Queen Elizabeth Hospital

微生物學實驗室：伊利沙伯醫院 M 座 11 樓

| MEDICAL TESTING   |  |   |   |
|---|--|---|---|
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| Clinical<br>Microbiology<br>and Infection (cont'd)  | <b>Bacteriology -<br/>culture and sensitivity<br/>tests and/or microscopy<br/>(cont'd)</b> |   |   |
|   | Miscellaneous samples<br>(including eye swabs,<br>other swabs, etc.)                       | Microscopy for cell morphology and<br>microorganisms by<br>Gram stain   | Method as documented in KCC/QEH/PAT/MM/PC/MIS |
|   | Miscellaneous samples<br>(including swabs,<br>catheters, etc.)                             | Culture and antimicrobial susceptibility tests<br>for pathogens by<br>Aerobic and anaerobic culture                     | Method as documented in KCC/QEH/PAT/MM/PC/MIS |
|   | Nasopharyngeal swab  | Culture for <i>Bordetella pertussis</i> and<br><i>Bordetella parapertussis</i> by<br>Aerobic culture                    | Method as documented in KCC/QEH/PAT/MM/PC/SPT |
|   | Lower respiratory tract<br>samples (including<br>sputum, tracheal<br>aspirate, etc.)       | Microscopy for WBC and epithelial cells by<br>Safranin  | Method as documented in KCC/QEH/PAT/MM/PC/SPT |
|   |  | Culture and antimicrobial susceptibility tests<br>for respiratory tract pathogens by<br>Aerobic culture                 | Method as documented in KCC/QEH/PAT/MM/PC/SPT |
|   |  | Culture for <i>Legionella</i> species by<br>Aerobic culture   | Method as documented in KCC/QEH/PAT/MM/PC/SPT |
|   | Bronchial aspirate,<br>bronchoalveolar lavage,<br>and protected bronchial<br>brush         | Microscopy for cell morphology and<br>microorganism by<br>Gram stain  | Method as documented in KCC/QEH/PAT/MM/PC/SPT |
|   | Bronchoalveolar lavage<br>and protected bronchial<br>brush                                 | Quantitative culture and antimicrobial<br>susceptibility tests for respiratory tract<br>pathogens by<br>Aerobic culture | Method as documented in KCC/QEH/PAT/MM/PC/SPT |
|   | Upper respiratory tract<br>samples (including throat<br>swab, nasal swab, etc.)            | Culture and antimicrobial susceptibility tests<br>for respiratory tract pathogens by<br>Aerobic culture                 | Method as documented in KCC/QEH/PAT/MM/PC/SPT |

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Microbiology Laboratory: 11/F, Block M, Queen Elizabeth Hospital

微生物學實驗室：伊利沙伯醫院 M 座 11 樓

| MEDICAL TESTING   |   |  |   |
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| Clinical<br>Microbiology<br>and Infection (cont'd)  | Bacteriology -<br>culture and sensitivity<br>tests and/or microscopy<br>(cont'd)<br>Rectal swab, stool, urine | Culture and antimicrobial susceptibility tests for Carbapenemase Producing <i>Enterobacteriaceae</i> (CPE)   | Method as documented in KCC/QEH/PAT/MM/PC/SUR   |
|   |   | Culture and antimicrobial susceptibility tests for Vancomycin Resistant <i>Enterococcus</i> (VRE)            | Method as documented in KCC/QEH/PAT/MM/PC/SUR   |
|   | Nasal swab and other samples (including axilla swab, sputum, wound swab, etc.)                                | Culture and antimicrobial susceptibility tests for Methicillin Resistant <i>Staphylococcus aureus</i> (MRSA) | Method as documented in KCC/QEH/PAT/MM/PC/SUR   |
|   | Throat swab, rectal swab, sputum, urine, wound swab, etc.   | Culture and antimicrobial susceptibility tests for Multidrug Resistant <i>Acinetobacter</i>                  | Method as documented in KCC/QEH/PAT/MM/PC/SUR   |
|   |   | Culture and antimicrobial susceptibility tests for Multidrug Resistant <i>Pseudomonas aeruginosa</i>         | Method as documented in KCC/QEH/PAT/MM/PC/SUR   |
|   | Nasal swab, combined swab (axilla and groin)  | Culture for <i>Candida auris</i> by Aerobic method   | Method as documented in KCC/QEH/PAT/MM/PC/SUR   |
|   | Clinical isolates   | Identification of clinical isolates by<br>- Conventional biochemical tests                                   | Method as documented in KCC/QEH/PAT/MM/PC/MRS   |
|   |   | - MALDI-TOF mass spectrometry  | Method as documented in KCC/QEH/PAT/MM/PC/MAL using MALDI Biotyper® IVD System based on microflex® LT and MALDI Biotyper-BD Sirius IVD System |
|   |   | Identification of Carbapenemase Producing <i>Enterobacteriaceae</i> by<br>- Rapid carbapenemase detection    | BIO-RAD β CARBA test  |
|   |   | - Immunochromatographic assay  | NG-Test CARBA 5 test  |

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| Clinical<br>Microbiology<br>and Infection (cont'd)  | <b>Mycology –<br/>Culture and ID</b>                              |  |   |
|   | Dermatological samples<br>(including hair, nail,<br>skin, etc.)   | Microscopy of fungal elements by<br>KOH direct smear   | Method as documented in KCC/QEH/PAT/MM/PC/MYC   |
|   |   | Culture for mould and yeasts by<br>Conventional method   | Method as documented in KCC/QEH/PAT/MM/PC/MYC   |
|   | Blood culture   | Fungal culture by<br>Automated blood culture method  | Method as documented in KCC/QEH/PAT/MM/PC/BLD   |
|   | Stool   | Culture for Mucorales by<br>Conventional method  | Method as documented in KCC/QEH/PAT/MM/PC/MYC   |
|   | All samples (except for<br>corneal scraping, swabs,<br>and stool) | Microscopic examination of fungal elements<br>by<br>Gram stain   | Method as documented in KCC/QEH/PAT/MM/PC/MYC   |
|   | All samples   | Fungal culture by<br>Conventional method   | Method as documented in KCC/QEH/PAT/MM/PC/MYC   |
|   | Fungal isolates   | Identification of filamentous fungi by<br>Macroscopic and microscopic<br>examinations                    | Method as documented in KCC/QEH/PAT/MM/PC/MYC   |
|   |   | Identification of yeasts by<br>MALDI-TOF mass spectrometry   | Method as documented in KCC/QEH/PAT/MM/PC/MAL<br>using MALDI Biotyper® IVD System based on<br>microflex® LT and MALDI Biotyper-BD Sirius IVD System |
|   | <b>Microbiology -<br/>Miscellaneous tests</b>                     |  |   |
|   | Urine   | Pregnancy test for human chorionic<br>gonadotrophin (hCG), qualitative by<br>Immunochromatographic assay | RightSign Pregnancy test kit  |
|   | Serum   | Procalcitonin by<br>Enzyme linked fluorescent assay (ELFA)   | bioMérieux VIDAS BRAHMS PCT assay   |

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| Clinical<br>Microbiology<br>and Infection (cont'd)  | Parasitology   |  |   |
|   | Stool  | Microscopic examination for intestinal ova and parasite by<br>Concentration method                                       | Method as documented in KCC/QEH/PAT/MM/PC/PAR |
|   |  | Microscopic examination for intestinal amoeba by<br>Direct wet smear   | Method as documented in KCC/QEH/PAT/MM/PC/PAR |
|   |  | Fecal permanent stain by<br>- Wheatley's Trichrome stain<br>- Cold Kinyoun acid-fast stain<br>- Modified trichrome stain | Method as documented in KCC/QEH/PAT/MM/PC/PAR |
|   | Corneal scraping   | Microscopy for amoeba by<br>Direct wet smear   | Method as documented in KCC/QEH/PAT/MM/PC/MIS |
|   |  | Culture and identification for amoeba by<br>Conventional method  | Method as documented in KCC/QEH/PAT/MM/PC/MIS |
|   | Urine, sputum, liver aspirates, duodenal fluid             | Microscopic examination for ova and parasites by<br>Concentration method   | Method as documented in KCC/QEH/PAT/MM/PC/PAR |
|   | Skin scraping, worm, worm segment, cellulose tape on slide | Macroscopic and microscopic examination for parasite   | Method as documented in KCC-QEH/PAT/MM/PC/PAR |
|   | Urinalysis and/or urine microscopy                         |  |   |
|   | Urine  | Urine microscopy for dysmorphic RBC  | Method as documented in KCC/QEH/PAT/MM/PC/URI |
|   |  | Urine chemical test by visual, including:<br>- Glucose<br>- Protein  | Method as documented in KCC/QEH/PAT/MM/PC/URI |
|   |  | Urine microscopy for semi-quantitative count for RBC, WBC and casts by<br>Fixed volume microtiter plate method           | Method as documented in KCC/QEH/PAT/MM/PC/URI |

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| Clinical<br>Microbiology<br>and Infection (cont'd)  | Molecular Genetics<br>(microbiology)<br>Respiratory specimens | Severe Acute Respiratory Syndrome<br>Coronavirus 2 (SARS-CoV-2) – detection by<br>Real-time Polymerase Chain Reaction,<br>qualitative<br>(Target region: E gene and N gene)<br><br>Severe Acute Respiratory Syndrome<br>Coronavirus 2 (SARS-CoV-2) – detection by<br>Real-time Polymerase Chain Reaction,<br>qualitative<br>(Target region:<br>E gene and ORF1ab gene) | Method as documented in KCC/QEH/PAT/MM/PC/MPE and<br>KCC/QEH/PAT/MM/PC/SCVT using TIB Molbio LightMix<br>SARS-CoV-2 E+N UBC kit, Roche LightCycler 480 II system<br><br>Method as documented in KCC/QEH/PAT/MM/PC/SCVC<br>using Cobas SARS-CoV-2 kit, Roche cobas 6800 |

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Virology Laboratory: 12/F, Block M, Queen Elizabeth Hospital

病毒學實驗室：伊利沙伯醫院 M 座 12 樓

| MEDICAL TESTING   |  |  |  |
|---|--|--|--|
| DISCIPLINE<br>專科範疇  | TEST AREA<br>OR SAMPLE TYPE<br>測試範圍或樣本種類 | SPECIFIC EXAMINATION OR<br>PROPERTY MEASURED<br>特定測試或量度的特性                                       | METHOD<br>OR TECHNIQUE USED<br>方法或應用技術   |
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| Clinical<br>Microbiology<br>and Infection (cont'd)  | <b>Bacteriology – Serology</b>           |  |  |
|   | Urine                                    | Detection of <i>Legionella pneumophila</i> serogroup 1 antigen by<br>Immunochromatographic assay | Binax NOW <i>Legionella</i> Urinary Antigen Test   |
|   | Serum                                    | <i>Brucella</i> antibody by<br>Agglutination test  | Method as documented in KCC/QEH/PAT/MM/PC/BRU  |
|   |  | Anti-Streptolysin O antibody by<br>Latex agglutination assay                                     | Method as documented in KCC/QEH/PAT/MM/PC/ASO  |
|   | <b>Mycology – Serological Tests</b>      |  |  |
|   | CSF, serum                               | <i>Cryptococcal</i> antigen by<br>Quantitative lateral flow assay                                | IMMY Cryptococcal antigen lateral flow assay   |
|   | Serum                                    | (1,3)-Beta-D-Glucan by<br>Protease zymogen-based colorimetric assay                              | Fungitell assay  |
|   | <b>Virology – Serology</b>               |  |  |
|   | Serum                                    | Hepatitis B virus antibody Anti-HBs, quantitative by<br>Immunoassay (Chemiluminescent label)     | Abbott ARCHITECT i1000SR Anti-HBs Assay  |
|   |  | Hepatitis B virus antigen (HBsAg) by<br>- Immunoassay<br>(Chemiluminescent label)                | Method as documented in KCC/QEH/PAT/MM/PC/HBV<br>Abbott ARCHITECT i1000SR HBsAg Qualitative II Assay<br>Abbott ARCHITECT i1000SR HBsAg Qualitative II Confirmatory Assay |
|   |  | Hepatitis C virus antibody by<br>- Immunoassay<br>(Chemiluminescent label)                       | Method as documented in KCC/QEH/PAT/MM/PC/HCV<br>Abbott ARCHITECT i1000SR Anti-HCV Assay   |

**Hospital Authority – Queen Elizabeth Hospital, Department of Pathology**

醫院管理局-伊利沙伯醫院病理學部

Virology Laboratory: 12/F, Block M, Queen Elizabeth Hospital

病毒學實驗室：伊利沙伯醫院 M 座 12 樓

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| Clinical<br>Microbiology<br>and Infection (cont'd)  | Virology – Serology<br>(cont'd)<br>Serum (cont'd) | Human immunodeficiency virus antibody and p24 antigen by <ul style="list-style-type: none"> <li>- Immunoassay (Chemiluminescent Label) (Screening)</li> <li>- Immunochromatographic assay (Confirmation)</li> </ul> Hepatitis A virus IgM antibody by<br>Enzyme linked fluorescent assay (ELFA)<br>Hepatitis A virus IgG antibody by<br>Immunoassay (Chemiluminescent label)<br>Anti-HBc (Total) by<br>Enzyme linked fluorescent assay (ELFA)<br>Anti-HBc (IgM) by<br>Enzyme linked fluorescent assay (ELFA)<br>HBeAg by <ul style="list-style-type: none"> <li>- Immunoassay (Chemiluminescent label)</li> <li>- Enzyme linked fluorescent assay (ELFA)</li> </ul> Anti-HBe by<br>Enzyme linked fluorescent assay (ELFA)<br>Varicella zoster virus IgG antibody by <ul style="list-style-type: none"> <li>- Enzyme linked fluorescent assay (ELFA)</li> <li>- Immunoassay (Enzyme-based label)</li> </ul> | Method as documented in KCC/QEH/PAT/MM/PC/HIV<br>Abbott ARCHITECT i1000SR HIV Ag/Ab Combo Assay<br>Geenius HIV 1/2 Confirmatory Assay<br>bioMérieux VIDAS HAV IgM Assay<br>Abbott ARCHITECT i1000SR HAVAb-IgG Assay<br>bioMérieux VIDAS Anti-HBc Total II Assay<br>bioMérieux VIDAS HBc IgM II Assay<br>Abbott ARCHITECT i1000SR HBeAg Assay<br>bioMérieux VIDAS HBe/Anti-HBe Assay<br>bioMérieux VIDAS HBe/Anti-HBe Assay<br>bioMérieux VIDAS Varicella-Zoster IgG Assay<br>Serion ELISA classic Varicella Zoster Virus IgG Assay |

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| Clinical<br>Microbiology<br>and Infection (cont'd)  | Virology – Serology<br>(cont'd)<br>Serum (cont'd) | Measles IgG antibody by<br>Enzyme linked fluorescent assay (ELFA)             | bioMérieux VIDAS Measles IgG Assay         |
|   |   | Mumps IgG antibody by<br>Enzyme linked fluorescent assay (ELFA)               | bioMérieux VIDAS Mumps IgG Assay           |
|   |   | Toxoplasma IgM antibody by<br>Enzyme linked fluorescent assay (ELFA)          | bioMérieux VIDAS TOXO IgM Assay            |
|   |   | Rubella IgG antibody by<br>Enzyme linked fluorescent assay (ELFA)             | bioMérieux VIDAS RUB IgG II Assay          |
|   |   | Cytomegalovirus IgG antibody by<br>Enzyme linked fluorescent assay (ELFA)     | bioMérieux VIDAS CMV IgG Assay             |
|   |   | <i>Treponema pallidum</i> antibody by<br>Immunoassay (Chemiluminescent label) | Abbott ARCHITECT i1000SR Syphilis TP Assay |

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| Clinical<br>Microbiology<br>and Infection (cont'd)  | Molecular Genetics<br>(microbiology)     |  |  |
|   | CSF                                      | <i>Escherichia coli</i> K1, <i>Haemophilus influenza</i> ,<br><i>Listeria monocytogenes</i> , <i>Neisseria</i><br><i>Meningitides</i> , <i>Streptococcus agalactiae</i> ,<br><i>Streptococcus pneumonia</i> , Cytomegalovirus,<br>Enterovirus, Herpes simplex virus 1, Herpes<br>Simplex virus 2, Human herpesvirus 6,<br>Human parechovirus, <i>Varicella zoster</i> virus<br>and <i>Cryptococcus neoformans/gattii</i> -<br>detection by<br><br>Polymerase Chain Reaction, qualitative<br>(Target region: proprietary) | FilmArray Meningitis / Encephalitis (ME) panel,<br>Nucleic acid amplification and detection by<br>BioFire FilmArray Multiplex PCR System |
|   | Respiratory specimens                    | Influenza A virus, Influenza B virus and<br>Respiratory syncytial virus – detection by<br>Real-time Polymerase Chain Reaction,<br>qualitative<br>(Target region:<br>Influenza virus: M, PB2 and PA gene;<br>Influenza B virus: M and NS gene;<br>RSV: RSV A and RSV B nucleocapsid<br>gene)  | Cepheid Xpert Xpress Flu/RSV Assay,<br>Nucleic acid amplification and detection by<br>Cepheid GeneXpert System                           |
|   |  | Severe Acute Respiratory Syndrome<br>Coronavirus 2 (SARS-CoV-2) – detection by<br>Real-time Polymerase Chain Reaction,<br>qualitative<br>(Target region:<br>E gene and N gene)   | Cepheid Xpert Xpress SARS-CoV-2 Assay,<br>Nucleic acid amplification and detection by<br>Cepheid GeneXpert System                        |
|   |  | Severe Acute Respiratory Syndrome<br>Coronavirus 2 (SARS-CoV-2),<br>Influenza A virus, Influenza B virus and<br>RSV – detection by<br>Real-time Polymerase Chain Reaction,<br>qualitative<br>(Target region:<br>E gene and N gene and RdRP gene)   | Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV Plus Assay,<br>Nucleic acid amplification and detection by<br>Cepheid GeneXpert System           |

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病毒學實驗室：伊利沙伯醫院 M 座 12 樓

| MEDICAL TESTING   |  |   |  |
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| Clinical<br>Microbiology<br>and Infection (cont'd)  | Molecular Genetics<br>(microbiology) (cont'd)<br>Respiratory specimens<br>(cont'd) | Respiratory syncytial virus, Severe Acute<br>Respiratory Syndrome Coronavirus 2<br>(SARS-CoV-2), Middle East Respiratory<br>Syndrome Coronavirus (MERS-CoV),<br>Influenza A virus, Influenza B virus,<br>Coronavirus 229E, OC43, NL63 and HKU1,<br>Parainfluenza virus type 1, 2, 3 and 4,<br>Human metapneumovirus, Adenovirus,<br>Enterovirus/Rhinovirus, <i>Bordetella pertussis</i> ,<br><i>Bordetella parapertussis</i> , <i>Chlamydia<br/>pneumonia</i> and <i>Mycoplasma pneumonia</i> –<br>detection by<br>Polymerase Chain Reaction, qualitative<br>(Target region: proprietary) | FilmArray Respiratory Panel 2.1 plus,<br>Nucleic acid amplification and detection by<br>BioFire FilmArray Multiplex PCR System |

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醫院管理局-伊利沙伯醫院病理學部

Haematology Laboratory: 7/F, Block M, Queen Elizabeth Hospital

血液學實驗室：伊利沙伯醫院 M 座 7 樓

| MEDICAL TESTING   |  |  |  |
|---|--|--|--|
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| This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below. |  |  |  |
| Haematology   | Coagulation<br>Citrate blood             | Platelet Function Assay  | PFA200<br>Method as documented in KCC/QEH/PAT/HS/PC/PFA  |
|   |  | Inhibitor screening test by<br>mixing study  | Werfen ACL TOP 750 CTS<br>Method as documented in KCC/QEH/PAT/HS/PC/TOP and<br>KCC/QEH/PAT/HS/PC/CO5 |
|   |  | Factor assay (II, V, VIII, IX, X, XI, XII) by<br>optical detection                                   | Werfen ACL TOP 750 CTS<br>Method as documented in KCC/QEH/PAT/HS/PC/TOP and<br>KCC/QEH/PAT/HS/PC/CO5 |
|   |  | Factor VIII/IX/V inhibitor assay by<br>optical detection   | Werfen ACL TOP 750 CTS<br>Method as documented in KCC/QEH/PAT/HS/PC/TOP and<br>KCC/QEH/PAT/HS/PC/CO5 |
|   |  | Protein C by<br>chromogenic method   | Werfen ACL TOP 750 CTS<br>Method as documented in KCC/QEH/PAT/HS/PC/TOP and<br>KCC/QEH/PAT/HS/PC/CO5 |
|   |  | Free Protein S by<br>Immunoturbidimetric detection of<br>aggregates                                  | Werfen ACL TOP 750 CTS<br>Method as documented in KCC/QEH/PAT/HS/PC/TOP and<br>KCC/QEH/PAT/HS/PC/CO5 |
|   |  | Protein S by<br>optical detection  | Werfen ACL TOP 750 CTS<br>Method as documented in KCC/QEH/PAT/HS/PC/TOP and<br>KCC/QEH/PAT/HS/PC/CO5 |
|   |  | Antithrombin by<br>chromogenic method  | Werfen ACL TOP 750 CTS<br>Method as documented in KCC/QEH/PAT/HS/PC/TOP and<br>KCC/QEH/PAT/HS/PC/CO5 |
|   |  | Detection of Lupus Anticoagulant by<br>Dilute Russell's Viper Venom Time and<br>Silica clotting time | Werfen ACL TOP 750 CTS<br>Method as documented in KCC/QEH/PAT/HS/PC/TOP and<br>KCC/QEH/PAT/HS/PC/CO5 |
|   |  |  |  |

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Haematology Laboratory: 7/F, Block M, Queen Elizabeth Hospital

血液學實驗室：伊利沙伯醫院 M 座 7 樓

| MEDICAL TESTING   |  |  |  |
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| Haematology<br>(cont'd)   | Coagulation (cont'd)<br>Citrate blood (cont'd) | Dabigatran by<br>optical detection                         | Werfen ACL TOP 750 CTS<br>HemosIL Direct Thrombin Inhibitor (DTI) assay<br>Method as documented in KCC/QEH/PAT/HS/PC/CO5 |
|   |  | Rivaroxaban by<br>Chromogenic method                       | Werfen ACL TOP 750 CTS<br>HemosIL Liquid Anti-Xa assay<br>Method as documented in KCC/QEH/PAT/HS/PC/CO5                  |
|   |  | Apixaban by<br>Chromogenic method                          | Werfen ACL TOP 750 CTS<br>HemosIL Liquid Anti-Xa assay<br>Method as documented in KCC/QEH/PAT/HS/PC/CO5                  |
|   |  | Low molecular weight heparin by<br>Chromogenic method      | Werfen ACL TOP 750 CTS<br>HemosIL Liquid Anti-Xa assay<br>Method as documented in KCC/QEH/PAT/HS/PC/CO5                  |

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| Haematology<br>(cont'd)   | Haematology - Special<br>EDTA blood      | Measurement of Feto-Maternal Haemorrhage (FMH) in RhD negative pregnant women          | Method as documented in KCC/QEH/PAT/HS/PC/FMH   |
|   |  | Haemoglobin A1c quantitation by High Performance Liquid Chromatography (HPLC)          | D100 HPLC analyser<br>Method as documented in KCC/QEH/PAT/HS/PC/SH11  |
|   |  | Haemoglobin A2 and F quantitation by High Performance Liquid Chromatography (HPLC)     | BioRad Variant II HPLC analyser<br>Method as documented in KCC/QEH/PAT/HS/PC/SH2  |
|   |  | Haemoglobin Electrophoresis  | Electrophoresis Systems, Capillary<br>Method as documented in KCC/QEH/PAT/HS/PC/SBA<br>Electrophoresis Systems Hydrasys 2 Scan Focusing<br>Method as documented in KCC/QEH/PAT/HS/PC/SH10 |
|   |  | Haemoglobin H inclusion bodies by New Methylene Blue Stain                             | Method as documented in KCC/QEH/PAT/HS/PC/SH6   |
|   |  | Alpha-thalassemia detection by IC strip  | Method as documented in KCC/QEH/PAT/HS/PC/SH6   |
|   |  | Foetal haemoglobin in maternal circulation by Kleihauer test                           | Method as documented in KCC/QEH/PAT/HS/PC/SH3   |
|   |  | Semen  | Method as documented in KCC/QEH/PAT/HS/PC/SH3   |
|   | EDTA blood                               | Demonstration of microfilariae by Concentration method                                 | Method as documented in KCC/QEH/PATH/HS/PC/SH3  |
|   |  | Glucose-6-phosphate dehydrogenase (G6PD) deficiency screening by Fluorescent Spot Test | Method as documented in KCC/QEH/PAT/HS/PC/SH3   |
|   |  | Demonstration of Heinz Bodies  | Method as documented in KCC/QEH/PAT/HS/PC/SH3   |

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| Haematology<br>(cont'd)   | Haematology - Special<br>(cont'd)<br>EDTA/Bone marrow<br>aspirate | Cytochemical staining <ul style="list-style-type: none"> <li>- Sudan Black B (SBB)</li> <li>- Myeloperoxidase (MPO)</li> <li>- Periodic acid-Schiff (PAS)</li> <li>- Chloroacetate Esterase (CAE)</li> <li>- Non-Specific Esterase (NSE)</li> <li>- Tartrate-resistant acid phosphatase stain (TRAP)</li> <li>- Dual Esterase (DEA)</li> <li>- Acid Phosphatase (AP)</li> <li>- Toluidine Blue Stain</li> </ul> | Method as documented in KCC/QEH/PAT/HS/PC/SH4 |

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| Immunology  | Autoantibodies<br>Serum                  | Antinuclear Antibody by<br>Indirect immunofluorescence method   | QUANTA-Lyser160<br>Method as documented in KCC/QEH/PAT/HS/PC/QL160 and<br>KCC/QEH/PAT/HS/PC/ANA<br>QUANTA-Lyser3000<br>Method as documented in KCC/QEH/PAT/HS/PC/QL3000 and<br>KCC/QEH/PAT/HS/PC/ANA               |
|   |  | Anti-ds DNA Antibody by<br>Enzyme-linked immunosorbent assay<br>(ELISA)   | QUANTA-Lyser160<br>Method as documented in KCC/QEH/PAT/HS/PC/QL160 and<br>KCC/QEH/PAT/HS/PC/Anti-dsDNA<br>QUANTA-Lyser3000<br>Method as documented in KCC/QEH/PAT/HS/PC/QL3000 and<br>KCC/QEH/PAT/HS/PC/Anti-dsDNA |
|   |  | Extractable nuclear antigens (ENA)<br>Screening including<br>Ro/SS-A (52 and 60kDa), La/SS-B, Sm,<br>RNP/SM, Scl-70, and Jo-1 by<br>Enzyme-linked immunosorbent assay<br>(ELISA)  | QUANTA-Lyser160<br>Method as documented in KCC/QEH/PAT/HS/PC/QL160 and<br>KCC/QEH/PAT/HS/PC/ENA  |
|   |  | Extractable nuclear antigens (ENA)-6-Profile<br>including<br>Ro/SS-A (52 and 60kDa), La/SS-B, Sm,<br>RNP/SM, Scl-70-, and Jo-1 by<br>Enzyme-linked immunosorbent assay<br>(ELISA) | QUANTA-Lyser160<br>Method as documented in KCC/QEH/PAT/HS/PC/QL160 and<br>KCC/QEH/PAT/HS/PC/ENA  |
|   |  | Anti-Neutrophil Cytoplasmic Antibody by<br>Indirect immunofluorescence method   | QUANTA-Lyser160<br>Method as documented in KCC/QEH/PAT/HS/PC/QL160 and<br>KCC/QEH/PAT/HS/PC/ANCA<br>QUANTA-Lyser3000<br>Method as documented in KCC/QEH/PAT/HS/PC/QL3000 and<br>KCC/QEH/PAT/HS/PC/ANCA             |

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| Immunology<br>(cont'd)  | Autoantibodies (cont'd)<br>Serum (cont'd) | Anti-Myeloperoxidase Antibody by<br>Enzyme-linked immunosorbent assay<br>(ELISA)  | QUANTA-Lyser160<br>Method as documented in KCC/QEH/PAT/HS/PC/QL160 and<br>KCC/QEH/PAT/HS/PC/MPO<br>QUANTA-Lyser3000<br>Method as documented in KCC/QEH/PAT/HS/PC/QL3000 and<br>KCC/QEH/PAT/HS/PC/MPO           |
|   |   | Thyroglobulin autoantibodies by<br>Enzyme-linked immunosorbent assay<br>(ELISA)   | QUANTA-Lyser160<br>Method as documented in KCC/QEH/PAT/HS/PC/QL160 and<br>KCC/QEH/PAT/HS/PC/ATGELISA<br>QUANTA-Lyser3000<br>Method as documented in KCC/QEH/PAT/HS/PC/QL3000 and<br>KCC/QEH/PAT/HS/PC/ATGELISA |
|   |   | Thyroid peroxidase autoantibodies by<br>Enzyme-linked immunosorbent assay<br>(ELISA)  | QUANTA-Lyser160<br>Method as documented in KCC/QEH/PAT/HS/PC/QL160 and<br>KCC/QEH/PAT/HS/PC/TPOELISA<br>QUANTA-Lyser3000<br>Method as documented in KCC/QEH/PAT/HS/PC/QL3000 and<br>KCC/QEH/PAT/HS/PC/TPOELISA |
|   |   | Anti-Mitochondrial / Anti-Smooth Muscle /<br>Anti-Gastric Parietal Cell Antibodies by<br>Indirect immunofluorescence method       | Mosaic Kidney (Rat) / Stomach (Rat) substrate<br>Method as documented in KCC/QEH/PAT/HS/PC/AMA   |
|   |   | Anti-Cardiolipin Antibodies (IgG) by<br>Enzyme-linked immunosorbent assay<br>(ELISA)  | QUANTA-Lyser160<br>Method as documented in KCC/QEH/PAT/HS/PC/QL160 and<br>KCC/QEH/PAT/HS/PC/ACL  |
|   |   | Semi-quantitative detection of IgG<br>Autoantibodies to serine protease (PR-3) by<br>Enzyme-linked immunosorbent assay<br>(ELISA) | QUANTA-Lyser160<br>Method as documented in KCC/QEH/PAT/HS/PC/QL160 and<br>KCC/QEH/PAT/HS/PC/PR3<br>QUANTA-Lyser3000<br>Method as documented in KCC/QEH/PAT/HS/PC/QL3000 and<br>KCC/QEH/PAT/HS/PC/PR3           |
|   |   |   |  |

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醫院管理局-伊利沙伯醫院病理學部

Haematology Laboratory: 7/F, Block M, Queen Elizabeth Hospital

血液學實驗室：伊利沙伯醫院 M 座 7 樓

| MEDICAL TESTING   |   |   |   |
|---|---|---|---|
| DISCIPLINE<br>專科範疇  | TEST AREA<br>OR SAMPLE TYPE<br>測試範圍或樣本種類              | SPECIFIC EXAMINATION OR<br>PROPERTY MEASURED<br>特定測試或量度的特性                                  | METHOD<br>OR TECHNIQUE USED<br>方法或應用技術  |
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| Immunology<br>(cont'd)  | Autoantibodies (cont'd)<br>Serum (cont'd)             | Rheumatoid Factor by<br>Latex agglutination   | Method as documented in KCC/QEH/PAT/HS/PC/RAF   |
|   |   | Infectious mononucleosis heterophile<br>Antibody by<br>Latex agglutination                  | Method as documented in KCC/QEH/PAT/HS/PC/MONO  |
|   | EDTA blood  | Investigation of haemolysis -<br>Hereditary Spherocytosis                                   | Method as documented in KCC/QEH/PAT/HS/PC/FWH   |
|   |   | Paroxysmal nocturnal haemoglobinuria<br>(PNH) screening                                     | Method as documented in KCC/QEH/PAT/HS/PC/FWH   |
|   | Immune cell function and<br>enumeration<br>EDTA blood | Complete Lymphocyte Subsets Profile<br>for immunological disorder by<br>Flow Cytometry      | AQUIOS<br>Method as documented in KCC/QEH/PAT/HS/PC/AQ  |
|   |   | T cell subsets (CD4 count and CD8 count)<br>for immunological disorder by<br>Flow Cytometry | AQUIOS<br>Method as documented in KCC/QEH/PAT/HS/PC/AQ  |
|   |   | Immunophenotyping for haematological<br>disorder by<br>Flow Cytometry                       | Beckman Coulter Navios flow cytometer<br>Method as documented in KCC/QEH/PAT/HS/PC/NAV and<br>KCC/QEH/PAT/HS/PC/FLD |
|   |   |   |   |

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| Medical Genetics  | Cytogenomics<br>EDTA blood,<br>bone marrow | <p>Detection of chromosomal abnormalities by<br/>Fluorescence in-situ hybridization (FISH)</p> <p>Culture and chromosome analysis by<br/>G-banding</p> | <p>Method as documented in<br/>KCC/QEH/PAT/HS/PC/FSH and<br/>KCC/QEH/PAT/HS/PC/KYN</p> <p>Method as documented in<br/>KCC/QEH/PAT/HS/WI/CY1,<br/>KCC/QEH/PAT/HS/PC/CUL and<br/>KCC/QEH/PAT/HS/PC/STN</p> |

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醫院管理局-伊利沙伯醫院病理學部

Molecular Pathology Laboratory: 7/F, Block M, Queen Elizabeth Hospital

分子病理學實驗室：伊利沙伯醫院 M 座 7 樓

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| Medical Genetics  | Molecular Genetics<br>(anatomical pathology)<br>Histological and<br>cytological specimens | <p>Epidermal Growth Factor Receptor (EGFR)<br/>Exons 18, 19, 20 and 21 mutations by<br/>Real-time Polymerase Chain Reaction</p> <p>KRAS and NRAS genes Exon 2, 3 and 4<br/>mutations by<br/>Real-time Polymerase Chain Reaction</p> <p>T cell receptor beta chain and gamma chain<br/>gene rearrangement by<br/>Fragment Analysis<br/>(Target region:<br/>T-cell receptor-<math>\gamma</math> and<br/>T-cell receptor-<math>\beta</math> locus)</p> <p>Immunoglobulin heavy chain gene<br/>rearrangement by<br/>Fragment Analysis</p> <p>Microsatellite Instability by<br/>PCR and Fragment Analysis</p> <p>Specimen Identity by<br/>Microsatellite PCR and Fragment<br/>Analysis</p> | <p>Nucleic acid extraction, amplification and detection by<br/>therascreen® EGFR RGQ PCR Kit as documented in<br/>MP-PC-EGF</p> <p>Nucleic acid extraction, amplification and mutations detection<br/>By Idylla KRAS mutation kit, NRAS-BRAF mutation kit on<br/>Biocartis Idylla system as documented in MP-PC-IDY</p> <p>Nucleic acid extraction, amplification and detection by<br/>InvivoScribe IdentiClone TCR Gene Clonality Assay Kit as<br/>documented in MP-PC-TCR</p> <p>Nucleic acid extraction, amplification and detection by<br/>InvivoScribe IdentiClone IgH Gene Clonality Assay Kit as<br/>documented in MP-PC-IGH</p> <p>Nucleic acid extraction, amplification and detection by<br/>Promega MSI analysis system as documented in<br/>MP-PC-MSI</p> <p>Nucleic acid extraction, amplification and detection by<br/>GenePrint 24 system as documented in MP-PC-MSGP24</p> |

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| Medical Genetics<br>(cont'd)  | Molecular Genetics<br>(anatomical pathology)<br>(cont'd)<br>Histological and<br>cytological specimens<br>(cont'd) | C250T and C228T mutations in TERT gene<br>promoter region by<br>Allele-specific Real-time Polymerase<br>Chain Reaction  | Nucleic acid extraction, amplification and detection as<br>documented in MP-PC-TERT  |
|   |   | IDH mutation by<br>Real-time Polymerase Chain Reaction  | Nucleic acid extraction, amplification and detection by<br>Qiagen IDH1/2 RQ PCR kit as documented in<br>MP-PC-IDHQ   |
|   | EDTA blood  | Epidermal Growth Factor Receptor (EGFR)<br>Exons 18, 19, 20 and 21 mutations by<br>Real-time Polymerase Chain Reaction  | Nucleic acid extraction, amplification and detection by<br>Roche Cobas Z480 using Cobas® EGFR Mutation Test as<br>documented in MP-PC-EGFP   |
|   |   | Epidermal Growth Factor Receptor (EGFR)<br>mutations by<br>Droplet Digital Polymerase Chain<br>Reaction<br>(Target region: EGFR L858R, Exon 19<br>deletion and T790M) | Nucleic acid extraction, amplification and detection by<br>cfDNA Sample Preparation Kit (Roche) and QX200 droplet<br>digital PCR using Biorad ddPCR EGFR mutation assay as<br>documented in MP-PC-790P |
|   | Molecular Genetics<br>(microbiology)<br>Respiratory specimens   | Detection of Mycobacterium tuberculosis<br>complex and non-tuberculosis mycobacteria<br>by<br>Polymerase Chain Reaction   | Nucleic acid extraction, amplification and detection using<br>Quantstudio 7 Flex Real time PCR system<br>as documented in MP-PC-MTB  |
|   | Molecular Genetics<br>(haematology)<br>EDTA whole blood or<br>marrow aspirate                                     | JAK2 V617F mutation by<br>Allele-specific Real-time Polymerase<br>Chain Reaction  | Nucleic acid extraction, amplification and detection as<br>documented in MP-PC-JAK   |

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| Medical Genetics<br>(cont'd)  | Molecular Genetics<br>(haematology) (cont'd)<br>EDTA whole blood or<br>marrow aspirate (cont'd) | <p>Alpha Globin Genotyping for<br/>α thalassemia gene deletion by<br/>GAP Polymerase Chain Reaction</p> <p>BCR/ABL1 t(9;22) translocation<br/>- P210 BCR/ABL1 transcript<br/>- P190 BCR/ABL1 transcript<br/>by<br/>Real-time quantitative reverse<br/>Transcription – Polymerase Chain<br/>Reaction, qualitative</p> <p>BCR/ABL1 t(9;22) translocation by<br/>Reverse transcription – Polymerase<br/>Chain Reaction, qualitative</p> <p>PML/RARA t(15;17) translocation by<br/>Real-time reverse transcription -<br/>Polymerase Chan Reaction, qualitative</p> <p>RUNX1-RUNZ1T1 fusion transcripts by<br/>Real-time reverse transcription -<br/>Polymerase Chan Reaction, qualitative</p> <p>CBFB-MYH11 fusion transcripts by<br/>Real-time reverse transcription -<br/>Polymerase Chan Reaction, qualitative</p> <p>Acute Lymphoblastic Leukemia (ALL)<br/>fusion gene transcripts<br/>ETV6-RUNX1, TCF3-PBX1,<br/>KMT2A-AFF1, SIL-TAL1<br/>by<br/>Real-time reverse transcription -<br/>Polymerase Chan Reaction, qualitative</p> | <p>Nucleic acid extraction, amplification and detection as<br/>documented in MP-PC-THA</p> <p>Nucleic acid extraction, amplification and detection by<br/>QIAGEN Ipsogen BCR-ABL1 Mber IS-MMR DX kit as<br/>documented in MP-PC-CMQ</p> <p>Nucleic acid extraction, amplification and detection as<br/>documented in MP-PC-CML</p> <p>Nucleic acid extraction, amplification and detection as<br/>documented in MP-PC-PMLR</p> <p>Nucleic acid extraction, amplification and detection as<br/>documented in MP-PC-RUNX</p> <p>Nucleic acid extraction, amplification and detection as<br/>documented in MP-PC-CBFQ</p> <p>Nucleic acid extraction, amplification and detection as<br/>documented in MP-PC-ALLQ</p> |

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| Medical Genetics<br>(cont'd)  | Molecular Genetics<br>(haematology) (cont'd)<br>EDTA whole blood or<br>marrow aspirate (cont'd) | <p>Monitoring Measurable Residual Disease (MRD) by</p> <p>Real time quantitative Reverse transcription Polymerase Chain Reaction<br/>(Target region: BCR::ABL1<br/>ela2 transcript,<br/>RUNX1::RUNX1T1,<br/>CBFB-MYH11 type A fusion transcript,<br/>NPM1 type A mutation)</p> <p>FLT3 exon 14 duplication and insertion,<br/>exon 20 mutation by</p> <p>Polymerase Chain Reaction and Sanger sequencing</p> <p>NPM1 exon 11 duplication and insertion<br/>mutation by</p> <p>Polymerase Chain Reaction and Sanger sequencing</p> | <p>Nucleic acid extraction, amplification and detection by Ipsogen BCR-ABL1 mber kit CE, Ipsogen CBFB-MYH11A kit<br/>Ipsogen FusionQuant RUNX1-RUNX1T1 kit,<br/>Ipsogen NPM1 mutA MutaQuant Kit as documented in<br/>MP-PC-MRDE, MP-PC-MRDC, MP-PC-RMRD,<br/>MP-PC-MRDN</p> <p>Nucleic acid extraction, amplification and detection by<br/>Applied Biosystems Genetic Analyser 3500<br/>Method as documented in MP-PC-FLT and MP-PC-FA1</p> <p>Nucleic acid extraction, amplification and detection by<br/>Applied Biosystems Genetic Analyser 3500<br/>Method as documented in MP-PC-NPM and MP-PC-FA1</p> |

# Hospital Authority – Queen Elizabeth Hospital, Department of Pathology

醫院管理局-伊利沙伯醫院病理學部

Department of Pathology in Kowloon Hospital: 2/F, Main Building, Kowloon Hospital, 147A Argyle Street, Kowloon

九龍醫院病理學部：九龍亞皆老街 147A 九龍醫院主座 2 樓

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| Clinical<br>Microbiology and<br>Infection   | <b>Microbiology -<br/>Miscellaneous tests</b><br>Stool  | <i>Clostridioides difficile</i> glutamate dehydrogenase (GDH) detection by Immunoassay (Enzyme-based label)  | TECHLAB C. DIFF CHEK – 60 ELISA assay  |
|   | <b>Mycobacteriology -<br/>Culture</b><br>Blood, CSF, respiratory tract samples, miscellaneous samples, urine, etc.    | Culture for acid fast bacilli (AFB) by<br>- Conventional Method<br>- Automated culture method                | Method as documented in KCC/QEH/PAT/MM/PC/TBC<br>BD BACTEC MGIT 960 System and<br>BD BACTEC FX40 system                            |
|   | Culture isolates from solid and liquid culture media  | <i>Mycobacterium tuberculosis</i> complex<br>Specific MPB64 antigen detection by Immunochromatographic assay | Capilia TB-Neo antigen test kit  |
|   | <b>Mycobacteriology -<br/>Microscopy</b><br>Blood, CSF, respiratory tract samples, miscellaneous samples, urine, etc. | Microscopy for acid fast bacilli (AFB) by<br>- Auramine O fluorescent stain<br>- Ziehl-Neelsen stain         | Method as documented in KCC/QEH/PAT/MM/PC/TBC  |
|   | <b>Virology – Serology</b><br>Blood   | Interferon-Gamma Releasing Assay by Immunoassay (Enzyme-based label)   | QuantiFERON-TB Gold Plus (QFT Plus) kit using DYNEX DS2 automated ELISA processor<br>Method as documented in KCC/QEH/PAT/MM/PC/IGR |

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| Medical Genetics  | Molecular Genetics<br>(microbiology)     |   |  |
|   | Respiratory specimens                    | <p><i>Legionella pneumophila</i> – detection of target DNA by</p> <p>Real-time Polymerase Chain Reaction, qualitative<br/>(Target region: MIP gene)</p> <p><i>Mycoplasma pneumonia</i> – detection of target DNA by</p> <p>Real-time Polymerase Chain Reaction, qualitative<br/>(Target region: P1 gene)</p> <p><i>Mycobacterium tuberculosis</i> and rifampin resistance – detection by</p> <p>Real-time Polymerase Chain Reaction, qualitative<br/>(Target region: rpoB gene, IS1081, IS6110)</p> | <p>Manual nucleic acid extraction and real-time amplification as documented in KCC/QEH/PAT/MM/PC/MOL, using LightMix® Kit <i>Legionella pneumophila</i> (MIP), Roche LightCycler 480 II system</p> <p>Manual nucleic acid extraction and real-time amplification as documented in KCC/QEH/PAT/MM/PC/MOL, using LightMix® Kit <i>Mycoplasma pneumonia</i> EC, Roche LightCycler 480 II system</p> <p>Cepheid Xpert MTB/RIF Ultra Assay<br/>Nucleic acid amplification and detection by Cepheid GeneXpert System</p> |
|   | Nasal swab                               | <p>Methicillin Resistant <i>Staphylococcus aureus</i> - detection by</p> <p>Real-time Polymerase Chain Reaction, qualitative<br/>(Target region: mecA, mecC &amp; SCCmec)</p>   | <p>Cepheid Xpert MRSA NxG Assay<br/>Nucleic acid amplification and detection by Cepheid GeneXpert System<br/>Method as documented in KCC/QEH/PAT/MM/PC/BGX</p>   |
|   | Stool                                    | <p><i>Clostridium difficile</i> – detection by</p> <p>Real-time Polymerase Chain Reaction, qualitative<br/>(Target region: genes for Toxin B tcdB, Binary Toxin (cdt), and tcdC deletion nt 117 (tcdCΔ117))</p>   | <p>Cepheid Xpert C. difficile Assay<br/>Nucleic acid amplification and detection by Cepheid GeneXpert System<br/>Method as documented in KCC/QEH/PAT/MM/PC/BGX</p>   |

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| Medical Genetics<br>(cont'd)  | Molecular Genetics<br>(microbiology) (cont'd)<br>Plasma | <p>Hepatitis B virus – detection by<br/>Real-time polymerase chain reaction,<br/>quantitative<br/>(Target region:<br/>pre-core and core region)</p> <p>Hepatitis C virus – detection by<br/>Real-time polymerase chain reaction,<br/>quantitative<br/>(Target region: 5' NTR)</p> <p>Hepatitis C virus – genotyping by<br/>Real-time polymerase chain reaction,<br/>quantitative<br/>(Target region:<br/>5' UTR, Core and NS5B gene)</p> <p>Human immunodeficiency virus – detection<br/>by<br/>Real-time reverse transcription<br/>polymerase chain reaction,<br/>quantitative<br/>(Target region:<br/>gag and LTR regions of HIV 1)</p> <p>Human immunodeficiency virus 1 (HIV-1)<br/>Genotypic Drug Resistance Testing by<br/>Sanger sequencing-based platform<br/>(Target regions:<br/>Regions under HIV-1 pop gene :-<br/>- Proteinase codons 1-99 and<br/>- Reverse transcriptase codons 1-305*<br/>- Integrase codons 30 – 266*)</p> | <p>cobas HBV Test by cobas 4800 System<br/>Nucleic acid extraction by cobas x 480<br/>Nucleic acid amplification and detection by cobas z 480</p> <p>cobas HCV Test by cobas 4800 System<br/>Nucleic acid extraction by cobas x 480<br/>Nucleic acid amplification and detection by cobas z 480</p> <p>cobas HCV GT Test by cobas 4800 System<br/>Nucleic acid extraction by cobas x 480<br/>Nucleic acid amplification and detection by cobas z 480</p> <p>cobas HIV Test by cobas 4800 System<br/>Nucleic acid extraction by cobas x 480<br/>Nucleic acid amplification and detection by cobas z 480</p> <p>Sample extraction by automated nucleic acid extraction platform:<br/>QIAxtractor as documented in KCC/QEH/PAT/MM/PA/QIX<br/>Sample processing, reverse transcription PCR, nested PCR,<br/>Sanger sequencing using ABI 3500 Genetic Analyser and<br/>result interpretation as documented in<br/>KCC/QEH/PAT/MM/PC/IHGRT<br/>Post-PCR processes including gel electrophoresis and PCR<br/>Product cleaning as documented in KCC/QEH/PAT/MM/PC/PPS</p> |

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| Medical Genetics<br>(cont'd)  | Molecular Genetics<br>(microbiology) (cont'd)<br>Urethral swab, oral swab,<br>rectal swab, endocervical<br>swab | <i>Chlamydia trachomatis</i> and <i>Neisseria gonorrhoeae</i> – detection by combination of target capture, transcription mediated amplification and dual kinetic assay, quantitative<br>(Target regions: 23S rRNA of <i>Chlamydia trachomatis</i> and 16S rRNA of <i>Neisseria gonorrhoeae</i> ) | Hologic Aptima Combo 2 for detection of rRNA from <i>Chlamydia trachomatis</i> and <i>Neisseria gonorrhoeae</i> on Panther system |