

**Hospital Authority - North District Hospital, Department of Pathology**

醫院管理局，北區醫院，病理部

**ADDRESS** : 2/F, North District Hospital, 9 Po Kin Road, Sheung Shui  
**地址** 香港新界上水保健路九號北區醫院二樓  
(i) Chemical Pathology Laboratory  
(ii) Haematology Laboratory and Blood Bank  
(iii) Emergency Laboratory

**LABORATORY DIRECTOR** : **Pathologist Director 病理學主管:**  
**化驗所主管** Dr Ronald CHAN Cheong-kin  
陳昌堅醫生  
MBBS, FHKCPath, FHKAM (Pathology)

**PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE** :  
**負責認可範疇的病理學專科醫生** Chemical Pathology 化學病理學  
Dr Jeffrey KWOK Sung-shing 郭崇聖醫生 (Consulting 諮詢)  
Haematology 血液學  
Dr Natalie CHAN Pui-ha 陳佩霞醫生 (Consulting 諮詢)

**ACCREDITED TEST CATEGORY** : **Medical Testing 醫務化驗**  
**認可測試類別** Chemical Pathology 化學病理學  
Haematology 血液學  
Immunology 免疫學

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<b>MEDICAL TESTING</b>				
<b>DISCIPLINE</b> 專科範疇	<b>TEST AREA</b> <b>OR SAMPLE TYPE</b> 測試範圍或樣本種類	<b>SPECIFIC EXAMINATION OR</b> <b>PROPERTY MEASURED</b> 特定測試或量度的特性	<b>METHOD</b> <b>OR TECHNIQUE USED</b> 方法或應用技術	
<b>This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.</b>				
<b>Chemical Pathology</b>	<b>Blood gas and co-oximetry</b> Whole blood, plasma, body fluid  Whole blood	Bicarbonate by Auto-calculation	Siemens Rapid Lab 1265 blood gases analyser	
		Base Excess-vt by Auto-calculation	Siemens Rapid Lab 1265 blood gases analyser	
		Carboxyhaemoglobin by Co-oximetry	Siemens Rapid Lab 1265 blood gases analyser	
		Ionized calcium by Potentiometry (Ion Selective Electrode)	Siemens Rapid Lab 1265 blood gases analyser	
		Methaemoglobin by Co-oximetry	Siemens Rapid Lab 1265 blood gases analyser	
		O <sub>2</sub> Saturation by Auto-calculation	Siemens Rapid Lab 1265 blood gases analyser	
		Oxyhaemoglobin by Co-oximetry	Siemens Rapid Lab 1265 blood gases analyser	
		pCO <sub>2</sub> by Potentiometry (pCO <sub>2</sub> -Sensing Electrode)	Siemens Rapid Lab 1265 blood gases analyser	
		pH by Potentiometry (Ion Selective Electrode)	Siemens Rapid Lab 1265 blood gases analyser	
		pO <sub>2</sub> by Potentiometry (Oxygen-Sensing Amperometric Electrode)	Siemens Rapid Lab 1265 blood gases analyser	
		<b>General chemistry</b> Plasma	Alanine transaminase (ALT) by Spectrophotometry	Beckman Coulter AU5800 ALT Assay
			Albumin by Spectrophotometry	Beckman Coulter AU5800 Albumin Assay
	Albumin adjusted calcium by Calculation		Beckman Coulter AU5800 – Calculated from albumin and calcium	

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<b>Chemical Pathology</b> (cont'd)	<b>General chemistry</b> (cont'd) Plasma (cont'd)	Alkaline Phosphatase (ALP) by Spectrophotometry	Beckman Coulter AU5800 ALP Assay	
		Ammonia by Spectrophotometry	Beckman Coulter AU5800 Ammonia Assay	
		Amylase by Spectrophotometry	Beckman Coulter AU5800 Amylase Assay	
		Anion Gap by Calculation	Beckman Coulter AU5800 and Siemens Rapid Lab 1265 blood gases analyzer – Calculated from sodium, potassium, chloride and CO <sub>2</sub> (Bicarbonate)	
		Aspartate Transaminase (AST) by Spectrophotometry	Beckman Coulter AU5800 AST Assay	
		Bilirubin, Direct by Spectrophotometry	Beckman Coulter AU5800 Direct Bilirubin Assay	
		Bilirubin, Indirect by Calculation	Beckman Coulter AU5800 – Calculated from total and direct bilirubin	
		Bilirubin, Total by Spectrophotometry	Beckman Coulter AU5800 Total Bilirubin Assay	
		Calcium by Spectrophotometry	Beckman Coulter AU5800 Calcium Assay	
		Plasma, CSF	Chloride by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800 Chloride Assay
	Plasma		Cholesterol by Spectrophotometry	Beckman Coulter AU5800 Cholesterol Assay
			Cholesterol, high density lipoproteins by Spectrophotometry	Beckman Coulter AU5800 HDL-Cholesterol Assay
		Creatine kinase by Spectrophotometry	Beckman Coulter AU5800 Creatine Kinase Assay	

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<b>Chemical Pathology</b> (cont'd)	<b>General chemistry</b> (cont'd) Plasma (cont'd)	Creatinine by Spectrophotometry	Beckman Coulter AU5800 Creatinine Assay
		Cholesterol, low density lipoproteins by Calculation	Beckman Coulter AU5800 – Calculated from Friedewald Formula from cholesterol, triglyceride and HDL-C
	Plasma, urine	Creatinine clearance by Calculation	Beckman Coulter AU5800 – Calculated from plasma and urine Creatinine
	Plasma	Estimated Glomerular Filtration Rate (eGFR) by Calculation	Beckman Coulter AU5800 – Calculated from plasma Creatinine
		Gamma glutamyl transferase (GGT) by Spectrophotometry	Beckman Coulter AU5800 GGT Assay
		Globulin by Calculation	Beckman Coulter AU5800 – Calculated from Protein, Total and Albumin
		Glucose, Fasting by Spectrophotometry	Beckman Coulter AU5800 Glucose Assay
	Plasma, CSF	Glucose, Spot by Spectrophotometry	Beckman Coulter AU5800 Glucose Assay
	Plasma	Glucose, OGTT (Dynamic Function Test) by Spectrophotometry	Beckman Coulter AU5800 Glucose Assay
		Iron by Spectrophotometry	Beckman Coulter AU5800 Iron Assay
% Iron Saturation by Calculation		Beckman Coulter AU5800 – Calculated from Iron and TIBC	
Plasma, CSF	Lactate by Spectrophotometry	Beckman Coulter AU5800 Lactate Assay	
Plasma,	Lactate Dehydrogenase (LDH) by Spectrophotometry	Beckman Coulter AU5800 LDH Assay	

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<b>Chemical Pathology</b> (cont'd)	<b>General chemistry (cont'd)</b> Serum, body fluid	Osmolality by Freezing point depression	Arkray Osmo Station OM-6060 Osmometer
	Serum	Osmolality Gap by Calculation	Beckman Coulter AU5800 and Arkray Osmo Station OM-6060 Osmometer – Calculated from serum osmolality, sodium, urea and fluoride plasma glucose
	Body fluid	pH by Potentiometry (Ion Selective Electrode)	Thermo pH meter
	Plasma	Phosphate by Spectrophotometry	Beckman Coulter AU5800 Inorganic phosphorus Assay
		Potassium by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800 Potassium Assay
		Protein, Total by Spectrophotometry	Beckman Coulter AU5800 Total Protein Assay
	CSF	Protein, Total by Spectrophotometry	Beckman Coulter AU5800 Urinary/CSF Protein Assay
	Plasma	Sodium by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800 Sodium Assay
		Total Iron Binding Capacity (TIBC) by Calculation	Beckman Coulter AU5800 – Calculated from plasma Iron and UIBC by formula
	Serum	Transtubular Potassium Gradient by Calculation	Beckman Coulter AU5800 and Arkray Osmo Station OM-6060 Osmometer – Calculated from serum osmolality and potassium
Plasma	Triglycerides by Spectrophotometry	Beckman Coulter AU5800 Triglycerides Assay	
	Troponin I, hypersensitive by Immunoassay (Chemiluminescent label)	Beckman Coulter DxI 800 HSTNI Assay	

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Chemical Pathology (cont'd)	General chemistry (cont'd) Plasma (cont'd)	Unsaturated Iron Binding Capacity (UIBC) (non-reportable) by Spectrophotometry	Beckman Coulter AU5800 UIBC Assay
		Urate by Spectrophotometry	Beckman Coulter AU5800 Uric Acid Assay
		Urea by Spectrophotometry	Beckman Coulter AU5800 Urea Assay
	Urine	Albumin by Immunoturbidimetry	Beckman Coulter AU5800 urine albumin Assay
		Albumin:creatinine ratio by Calculation	Beckman Coulter AU5800 - Calculated from urine albumin and creatinine
		Amylase by Spectrophotometry	Beckman Coulter AU5800 Amylase Assay
		Calcium by Spectrophotometry	Beckman Coulter AU5800 Calcium Assay
		Chloride by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800 Chloride Assay
		Creatinine by Spectrophotometry	Beckman Coulter AU5800 Creatinine Assay
		Creatinine by Spectrophotometry	Beckman Coulter AU5800 Creatinine Assay
		Osmolality by Freezing point depression	Arkray Osmo Station OM-6060 Osmometer
		pH by Potentiometry (Ion Selective Electrode)	Thermo pH meter
		Phosphate by Spectrophotometry	Beckman Coulter AU5800 Inorganic phosphorus Assay
		Potassium by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800 Potassium Assay

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<b>Chemical Pathology</b> (cont'd)	<b>General chemistry (cont'd)</b> Urine (cont'd)	Protein, Total by Spectrophotometry	Beckman Coulter AU5800 Urinary/CSF Protein Assay	
		Protein:Creatinine ratio by Calculation	Beckman Coulter AU5800 - Calculated from spot urine total protein and creatinine	
		Renal Tubular Reabsorption of Phosphate by Calculation	Beckman Coulter AU5800 - Calculated from Plasma/urine phosphate and creatinine	
		Sodium by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800 Sodium Assay	
		Transtubular Potassium Gradient by Calculation	Beckman Coulter AU5800 and Arkray Osmo Station OM-6060 Osmometer - Calculated from urine osmolality and potassium	
		Urate by Spectrophotometry	Beckman Coulter AU5800 Uric Acid Assay	
		Urea by Spectrophotometry	Beckman Coulter AU5800 Urea Assay	
		<b>Hormones</b>		
		Serum		
		Cortisol by Immunoassay (Chemiluminescent label)	Beckman Coulter DXI800 Cortisol Assay	
	Thyroid Stimulating Hormone (TSH) by Immunoassay (Chemiluminescent label)	Beckman Coulter DXI800 TSH Assay		
	Free Thyroxine (FT4) by Immunoassay (Chemiluminescent label)	Beckman Coulter DXI800 FT4 Assay		
	Free Triiodothyronine (FT3) by Immunoassay (Chemiluminescent label)	Beckman Coulter DXI800 FT3 Assay		

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<b>Chemical Pathology</b> (cont'd)	<b>Proteins, qualitative analysis</b> Serum	Cryoglobulin by Precipitation in cold	Method as documented in NC-TM-03-35
		Ferritin by Immunoassay (Chemiluminescent label)	Beckman Coulter DXI800 Ferritin Assay
	<b>Proteins, quantitative analysis</b> Plasma	C-Reactive Protein (CRP) by Immunoturbidimetry	Beckman Coulter AU5800 CRP Assay
	<b>Special chemistry</b> Serum	Folate by Immunoassay (Chemiluminescent label)	Beckman Coulter DXI800 Folate Assay
		Stool	Occult blood by Immuno method
	<b>Toxicology</b> Serum	Acetaminophen (Paracetamol) by Spectrophotometry	Beckman Coulter AU5800 Paracetamol Assay
		Ethanol by Spectrophotometry	Beckman Coulter AU5800 Ethanol Assay
		Salicylate by Spectrophotometry	Beckman Coulter AU5800 Salicylate Assay
	<b>Tumour Markers</b> Serum	Alpha Fetoprotein (AFP) by Immunoassay (Chemiluminescent label)	Beckman Coulter DXI800 AFP Assay
		Carcinoembryonic Antigen (CEA) by Immunoassay (Chemiluminescent label)	Beckman Coulter DXI800 CEA Assay
		Prostate Specific Antigen (PSA) by Immunoassay (Chemiluminescent label)	Beckman Coulter DXI800 PSA Assay
		CA 125 by Immunoassay (Chemiluminescent label)	Beckman DxI 800 CA 125 assay
		CA 15-3 by Immunoassay (Chemiluminescent label)	Beckman DxI 800 CA 15-3 assay



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<b>Chemical Pathology</b> <b>(cont'd)</b>	<b>Tumour Markers (cont'd)</b> Serum (cont'd)	CA 19-9 by Immunoassay (Chemiluminescent label)	Beckman DxI 800 CA 19-9 assay
	<b>Urinalysis</b> Urine	Urinalysis by dipstick method, including - Bilirubin - Haemoglobin - Ketone - Urobilinogen	Siemens Clinitek Status with Multistix 10
		Myoglobin by Filtration and dipstick method	Filtration and Siemens Clinitek Status with Multistix 10

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<b>Haematology</b>	<b>Blood bank – Antenatal screening</b> EDTA whole blood	ABO and Rh (D) typing for antenatal samples by Red cell agglutination	Tile and tube techniques as documented in NH-TM-07-03
	<b>Blood bank – General</b> EDTA whole blood	ABO and Rh (D) typing by Red cell agglutination, automated  Red cell agglutination, manual	Method as documented in NB-EM-02-08 Using Bio-Rad Gel Card and Bio-Rad IH-1000 System Tile and tube techniques as documented in NB-TM-02-01
		Red cell phenotyping by Direct agglutination Indirect antiglobulin test	Method as documented in NB-TM-02-07
	Plasma	Antibody screening by Gel-Indirect antiglobulin test Saline-Indirect antiglobulin test Red cell agglutination, automated	DiaMed gel technique Tube technique as documented in NB-TM-02-20 Method as documented in NB-EM-02-08 Using Bio-Rad Gel Card and Bio-Rad IH-1000 System
		Crossmatch by Electronic crossmatch Immediate spin Indirect antiglobulin test Red cell agglutination, automated	Method as documented in NB-TM-02-10  Method as documented in NB-EM-02-08 Using Bio-Rad Gel Card and Bio-Rad IH-1000 System
	<b>Blood bank – Immunohaematology</b> Serum and EDTA whole blood	Antibody detection and identification by Indirect antiglobulin test	Method as documented in NB-TM-02-04
	Clotted and EDTA whole blood	Autoimmune haemolytic anaemia by Indirect antiglobulin test	Method as documented in NB-TM-02-04
	EDTA whole blood	Direct antiglobulin test by Red cell agglutination	Method as documented in NH-TM-07-05
	Serum	Cold agglutinin titre by Red cell agglutination	Method as documented in NH-TM-07-02

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<b>Haematology</b> (cont'd)	<b>Blood bank – Special</b> Clotted and EDTA whole blood	Transfusion reaction by ABO and Rh(D) typing Red cell antigen phenotyping Antibody identification Crossmatching	Method as documented in NB-TM-02-19
	<b>Coagulation</b> Citrate blood	Coagulation studies by Automated method, including - Prothrombin time (PT) - Activated partial thromboplastin time (APTT)  D-Dimer by Enzyme linked fluorescent assay (ELFA)	Automated coagulation system: IL ACL TOP 750 coagulation system Semi-automated coagulation system: Sysmex CA-104  Mini VIDAS Method as documented in NH-TM-04-09
	<b>Haematology – General</b> EDTA whole blood	Complete blood count by Automated method, including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Mean Platelet Volume (MPV) - Platelet count - Red cell count - Red cell distribution width (RDW)  Leucocyte differential count by Automated method  Reticulocyte count by Automated method  Manual Reticulocyte count by New methylene blue stain	Automated systems: Beckman Coulter Unicel DxH800  Beckman Coulter Unicel DxH800  Beckman Coulter Unicel DxH800  Method as documented in NH-TM-06-03

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<b>Haematology</b> (cont'd)	<b>Haematology – General</b> (cont'd) EDTA whole blood (cont'd)	Peripheral blood smear examination by Romanowsky stained smear	Method as documented in NH-TM-03-01
		Erythrocyte sedimentation rate (ESR) by Automatic method	VES-MATIC 30
		Malaria parasite examination by Thick and thin films	Smear preparation and Giemsa staining as documented in NH-TM-05-10
	<b>Haematology – Special</b> EDTA whole blood	Glucose-6-Phosphate Dehydrogenase (G6PD) screening by Fluorescence	Method as documented in NH-TM-05-02
		Serum	Infectious mononucleosis screening by Latex agglutination
<b>Microscopy – Miscellaneous</b> Non-CSF body fluid	Cell count by Microscopy	Method as documented in NH-TM-05-01	
<b>Immunology</b>	<b>Autoantibodies</b> Serum	Rheumatoid factor by Immunonephelometry	SIEMENS BN ProSpec RF assay

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<b>Chemical Pathology</b>	<b>Blood gas and co-oximetry</b> Whole blood	Base Excess-vt by Auto-calculation	Siemens Rapid Lab 1265 blood gases analyser
		Bicarbonate by Auto-calculation	Siemens Rapid Lab 1265 blood gases analyser
		Carboxyhaemoglobin by Co-oximetry	Siemens Rapid Lab 1265 blood gases analyser
		Methaemoglobin by Co-oximetry	Siemens Rapid Lab 1265 blood gases analyser
		Oxyhaemoglobin by Co-oximetry	Siemens Rapid Lab 1265 blood gases analyser
		Ionized calcium by Potentiometry (Ion Selective Electrode)	Siemens Rapid Lab 1265 blood gases analyser
		O <sub>2</sub> Saturation by Auto-calculation	Siemens Rapid Lab 1265 blood gases analyser
		pCO <sub>2</sub> by Potentiometry (pCO <sub>2</sub> -Sensing Electrode)	Siemens Rapid Lab 1265 blood gases analyser
		pH by Potentiometry (Ion Selective Electrode)	Siemens Rapid Lab 1265 blood gases analyser
		pO <sub>2</sub> by Potentiometry (Oxygen-Sensing Amperometric Electrode)	Siemens Rapid Lab 1265 blood gases analyser

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<b>MEDICAL TESTING</b>			
<b>DISCIPLINE</b> 專科範疇	<b>TEST AREA</b> <b>OR SAMPLE TYPE</b> 測試範圍或樣本種類	<b>SPECIFIC EXAMINATION OR</b> <b>PROPERTY MEASURED</b> 特定測試或量度的特性	<b>METHOD</b> <b>OR TECHNIQUE USED</b> 方法或應用技術
<b>This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.</b>			
<b>Chemical Pathology</b> (cont'd)	<b>General chemistry</b>  Plasma	Albumin adjusted calcium by Calculation	Beckman Coulter AU5800 – Calculated from albumin and calcium
		Ammonia by Spectrophotometry	Beckman Coulter AU5800 Ammonia Assay
		Amylase by Spectrophotometry	Beckman Coulter AU5800 Amylase Assay
		Aspartate Transaminase (AST) by Spectrophotometry	Beckman Coulter AU5800 AST Assay
		Bilirubin, Direct by Spectrophotometry	Beckman Coulter AU5800 Direct Bilirubin Assay
		Bilirubin, Indirect by Spectrophotometry	Beckman Coulter AU5800 – Calculated from total and direct bilirubin
		Calcium by Spectrophotometry	Beckman Coulter AU5800 Calcium Assay
		Creatine kinase by Spectrophotometry	Beckman Coulter AU5800 Creatine Kinase Assay
		Plasma, CSF	Glucose by Spectrophotometry
	Lactate by Spectrophotometry		Beckman Coulter AU5800 Lactate Assay
	Plasma		Lactate Dehydrogenase (LDH) by Spectrophotometry
		Liver Function Test by Spectrophotometry, including - Albumin - ALP - ALT - Globulin (calculated) - Total Bilirubin - Total Protein	Beckman Coulter AU5800 respective assays

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<b>Chemical Pathology</b> (cont'd)	<b>General chemistry</b> (cont'd) Serum, urine	Osmolality by Freezing point depression	Arkray Osmo Station OM-6060 Osmometer
	Plasma	Phosphate by Spectrophotometry	Beckman Coulter AU5800 Inorganic Phosphorus Assay
	Urine	Potassium by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800 Potassium Assay
	CSF	Protein, Total by Spectrophotometry	Beckman Coulter AU5800 Urinary/CSF Protein Assay
	Plasma	Renal Function Test by Potentiometry and Spectrophotometry, including - Creatinine - Potassium - Sodium - Urea	Beckman Coulter AU5800 respective assays
	Urine	Sodium by Potentiometry (Ion Selective Electrode)	Beckman Coulter AU5800 Sodium Assay
	Plasma	Troponin I, hypersensitive, by Immunoassay (Chemiluminescent label)	Beckman Coulter DxI 800 HSTNI Assay
	<b>Toxicology</b> Serum	Acetaminophen (Paracetamol) by Spectrophotometry	Beckman Coulter AU5800 Paracetamol Assay
		Ethanol by Spectrophotometry	Beckman Coulter AU5800 Ethanol Assay
		Salicylate by Spectrophotometry	Beckman Coulter AU5800 Salicylate Assay
<b>Examination performed after consulting duty biochemist</b>			
<b>Chemical Pathology</b>	<b>General chemistry</b> Plasma	Iron by Spectrophotometry	Beckman Coulter AU5800 Iron Assay

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<b>Haematology</b>	<b>Blood bank – General</b> EDTA whole blood	ABO and Rh (D) typing by Red cell agglutination, automated  Red cell agglutination, manual	Method as documented in NB-EM-02-08 Using Bio-Rad Gel Card and Bio-Rad IH-1000 System  Tile and tube techniques as documented in NB-TM-02-01
	Plasma	Red cell phenotyping by Direct agglutination Indirect antiglobulin test  Antibody screening by Gel-Indirect antiglobulin test Saline-Indirect antiglobulin test Red cell agglutination, automated  Crossmatch by Electronic crossmatch Immediate spin Indirect antiglobulin test Red cell agglutination, automated	Method as documented in NB-TM-02-07  DiaMed gel technique Tube technique as documented in NB-TM-02-20 Method as documented in NB-EM-02-08 Using Bio-Rad Gel Card and Bio-Rad IH-1000 System  Method as documented in NB-TM-02-10  Method as documented in NB-EM-02-08 Using Bio-Rad Gel Card and Bio-Rad IH-1000 System



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<b>Haematology</b>	<b>Coagulation</b> Citrate blood	Coagulation studies by Automated method, including - Prothrombin time (PT) - Activated partial thromboplastin time (APTT)	Automated coagulation systems: IL ACL TOP 750 coagulation system Semi-automated coagulation system: Sysmex CA-104
	<b>Haematology – General</b> EDTA whole blood	Complete blood count by Automated method, including - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Mean Platelet Volume (MPV) - Platelet count - Red cell count - Red cell distribution width (RDW)	Automated system: Beckman Coulter Unicel DxH800
		Leucocyte differential count by Automated method	Beckman Coulter Unicel DxH800
		Malaria parasite examination by Thick and thin films	Smear preparation and Giemsa staining as documented in NH-TM-05-10