

SUMMARY OF TESTS AVAILABLE IN PATHOLOGY DEPARTMENT, HOSPITAL SEBERANG JAYA

NO	TEST	UNIT	CONTAINER	SPECIMEN	VOLUME	SCHEDULE	TAT (RESULT)
1.	ABO –Rh grouping	Trans	EDTA (4ml)	Whole blood	4 ml	Daily	1 hour
2.	Activated prothrombin time (aPTT)	Haem	3.8% Na citrate	Plasma	1.8 ml	Daily	Within 1 hour*
3.	AFB Direct Smear	Microb	Sterile container	Sputum/BAL/tracheal aspirate/body fluids	3-5 ml	Daily (Working days)	1 working day
4.	Alanine Transaminase	Chem	Heparinised tube	Blood	4 ml	Daily	3 hours
5.	Albumin	Chem	Heparinised tube	Blood	4 ml	Daily	3 hours
6.	Alkaline phosphatase	Chem	Heparinised tube	Blood	4 ml	Daily	3 hours
7.	Ammonia	Chem	EDTA tube (send in ice)	Blood	1 ml	Daily	45 minutes
8.	Amylase/Diastase	Chem	Heparinised tube Universal container	Blood Random urine	4 ml 30 ml	Daily Daily	3 hours 1 working day
9.	Antibody Identification (based on complexity)	Trans	EDTA (4ml)	Whole blood	2 x 4 ml	Daily	7 working days
10.	Anti-HCV	Microb	Plain tube	Serum	3-5 ml (Adult) 3ml (Paeds)	Daily (Working days)	3 working days
11.	HIV Combo Ag /Ab	Microb	Plain tube	Serum	3-5 ml (Adult) 3ml (Paeds)	Daily (Working days)	3 working days
12.	Anti-Streptolysin O test (ASOT)	Microb	Plain tube	Serum	3-5 ml (Adult) 3ml (Paeds)	Daily	1 working day
13.	Aspartate transaminase	Chem	Heparinised tube	Blood	4 ml	Daily	3 hours
14.	Aspirate Bronchial C&S	Microb	Sterile container	Bronchial aspirate	3-5 ml	Daily	Min: 3 days
15.	Aspirate Tracheal C&S	Microb	Sterile container	Tracheal aspirate	3-5 ml	Daily	3 days

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16.	Beta-HCG, Total	Chem	Heparinised tube	Blood	4 ml	Daily	1 working day
17.	Bilirubin – total/direct (adult)	Chem	Heparinised tube	Blood	4 ml	Daily	3 hours
18.	Bilirubin – total/direct (neonates)	Chem	Heparinised microtainer	Blood	0.6 ml	Daily	3 hours
19.	Biological Test for Autoclave Performance	Microb	Attest indicator tube	Attest vial (Control and Test vial)-post incubation		Daily	1 day
20.	Blood C&S –Adult (aerobic)	Microb	Bactec aerobic/F blood bottle (blue cap)	Blood	8-10 ml	Daily	5 days Preliminary report : 2 days
21.	Blood C&S –Adult (anaerobic)	Microb	Bactec anaerobic blood bottle (Orange cap)	Blood	8-10 ml	Daily	5 days Preliminary report : 2 days
22.	Blood C&S –Fungus	Microb	Bactec aerobic/F blood bottle (blue cap)	Blood	8-10 ml	Daily	7 days
23.	Blood C&S –Paediatric	Microb	Bactec paed /Fblood bottle (pink cap)	Blood	3-5 ml	Daily	5 days Preliminary report : 2 days
24.	Blood Film for Malaria Parasite (BFMP)	Microb	EDTA tube Labeled glass slide with smear	Blood in EDTA and thick & thin blood smear	3-5 ml blood Thick smear : Size of 10 cent coin Thin smear: spread smear	Daily	2 hours * Air- dry the slide before dispatch to the lab.

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25.	Blood Film for Filaria Parasite (BFFP)	Microb	EDTA tube Labeled glass slide with smear	Blood in EDTA and thick & thin blood smear	3-5 ml blood Thick smear : Size of 10 cent coin Thin smear: spread smear	Daily	24 hours * Air-dry the slide before dispatch to the lab.
26.	Blood for AFB C&S	Microb	Blood In MycoF Lytic Bactec Bottle (Red cap)	Blood	8-10ml	Daily	42 days
27.	Blood gases	Chem	Heparinised syringe	Blood arterial	1 ml	Daily	15 minutes
28.	Body Fluid C&S	Microb	Sterile containers	Body fluids (please specify)	3-5 ml	Daily	3 days
29.	Body Fluid Cell Count	Microb	Sterile Container	Body fluids	3-5 ml	Daily	1 day
30.	Body fluids Biochemistry (protein, glucose)	Chem	Universal container	Body fluids	5 ml	Daily	1 working day
31.	Bone marrow aspirate	Haem	Bone marrow film	Bone marrow	8 slides	By appointment	Min: 3 days* Max: 5 days
32.	Calcium	Chem	Heparinised tube 24 hours urine container	Blood Urine	4 ml 24 hours urine collection	Daily Daily	3 hours 1 working day
33.	Cervical cytology - Urgent - Non urgent	Histo/ Cyto	Microscope slide with frosted end	Cervical smear	Not applicable	Daily	14 working days 6 weeks

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34.	Chloride	Chem	Heparinised tube	Blood	4 ml	Daily	3 hours
			Universal container	Random urine	30 ml	Daily	1 working day
			24 hours urine container	Urine	24 hours urine collection	Daily	1 working day
35.	Cholesterol	Chem	Heparinised tube	Blood	4 ml	Daily	3 hours
36.	Clostridium Difficile toxin detection	Microb	Sterile container	Stool	2-3 ml	Daily	1 day
37.	Cold Agglutinin Test	Trans	EDTA (4ml)	Whole blood	2 X 4 ml	Office hour only	7 days
38.	Coomb's Test- Direct/indirect	Trans	EDTA tube	Whole blood	Adult: 4 ml Baby: 2 ml	Daily	2 hours
39.	C-Reactive Protein (CRP)	Chem	Heparinised tube (adult)	Blood	4 ml	Daily	3 hours
			Heparinised Microtainer (peads)	Blood	0.6 ml	Daily	3 hours
40.	Creatine kinase	Chem	Heparinised tube	Blood	4 ml	Daily	3 hours
41.	Creatinine	Chem	Heparinised tube	Blood	4 ml	Daily	3 hours
			Universal container	Random urine	30 ml	Daily	1 working day
			24 hours urine container	Urine	24 hours urine collection	Daily	1 working day
42.	Creatinine clearance	Chem	Heparinised tube and 24 hours urine	Blood/Urine	Blood: 4 ml Urine: 24 hours	Daily	1 working day

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			container		urine collection		
43.	Cross-matching	Trans	EDTA (4ml)	Whole blood	4 ml	Daily	2 hours
44.	CSF Biochemistry Appearance (Protein, Globulin, Glucose, Chloride)	Chem	Universal container	CSF	5 ml	Daily	30 minutes
45.	CSF C&S	Microb	Sterile bijou bottle (obtain from micro)	CSF	3-4ml	Daily	4 days
46.	CSF for bacterial antigen test, Cryptococcal latex antigen and India Ink/Gram Stain/Cell Count	Microb	Sterile bijou bottle (obtain from micro)	CSF	3-4ml	Daily	1 hour
47.	D-dimer	Haem	3.8% Na citrate	Plasma	1.8 ml	Daily	1 hour
48.	Ear swab C&S	Microb	Amies transport media	Ear swab		Daily	3 days
49.	Environmental C&S (request through Infection Control team)	Microb	Amies transport media	Environmental swab		Daily	3 days – only to be taken by Infection Control Team.
50.	ESR	Haem	ESR tube	Whole blood	2 ml	Daily	1 ¼ hours
51.	Eye swab C&S	Microb	Amies transport media	Eye swab	-	Daily	3 days
52.	Fat Globules	Chem	Universal container	Urine/stool	30 ml	Daily	1 working day
53.	Ferric chloride	Chem	Universal container	Urine	30 ml	Daily	1 working day

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54.	Fibrinogen	Haem	3.8% Na citrate	Plasma	2 ml	Daily	4 hours
55.	Fine needle aspiration (FNAC) - Urgent - Non urgent	Histo/ Cyto	Microscope slide with frosted end	Aspiration from lump	Not applicable	Daily (by appointment)	3 days 14 working days
56.	Fluid cytology - Urgent - Non urgent	Histo/ Cyto	Microscope slide with frosted end	Smear	Not applicable	Daily	3 days 10 working days
57.	Frozen section	Histo/ Cyto	Universal container	Tissue without formalin	Not applicable	Daily (by appointment)	30 minutes
58.	Full blood count	Haem	EDTA	Whole blood	2 ml	Daily	Within 1 hour*
59.	Full blood picture	Haem	EDTA	Whole blood	2 ml	Daily	Min: 3 working days Max: 7 working days
60.	Fungal Culture	Micro	Sterile container	Corneal scrapping/ nail cuttings/ tissue/ contact lens		Daily	14 day
61.	G6PD	Haem	Filter paper	A drop of whole blood on filter paper	Spot	Daily	Within 1 hour*
62.	Glucose (Fasting Plasma Glucose, Random Plasma Glucose, Glucose	Chem	Flouride/oxalate tube (adult)	Blood	2ml	Daily	3 hours

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	Tolerance Test)		Fluoride/oxalate microtainer (peads)	Blood	0.6 ml	Daily	3 hours
63.	GSH	Trans	EDTA (4ml)	Whole blood	4 ml	Daily	
64.	Haemosiderin urine	Haem	Universal container	Urine	10 ml Urine	Daily	3 days
65.	Hb Analysis	Haem	EDTA TUBE	Blood	4ml	Daily	6 weeks
66.	HBsAg	Microb	Plain tube	Serum	3-5 ml (Adult) 3ml (Paeds)	Daily	3 working days
67.	HBsAg Confirmatory	Microb	Plain tube	Serum	3-5 ml (Adult) 3ml (Paeds)	Once a week	7 working days
68.	HDL-Cholesterol	Chem	Heparinised tube	Blood	4 ml	Daily	3 hours
69.	Helminths for identification	Microb	Universal container	Helminth in saline	-	Daily	1 day
70.	Histopathology specimen - Small biopsy - Urgent large specimen - Other surgical specimen	Histo/ cyto	Plain Container with 10% formalin	Tissue	Not applicable	Daily	3 working days 14 working days 21 working days
71.	HVS C&S	Microb	Amies/Stuart transport medium	HVS swab	-	Daily	3 days
72.	Inorganic Phosphate	Chem	Heparinised tube 24 hours urine container	Blood Urine	4 ml 24 hours urine collection	Daily Daily	3 hours 1 working day
73.	Investigation of Blood Transfusion	Trans	EDTA (4ml)	Blood	4ml	Immediate and	7 working days

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NO	TEST	UNIT	CONTAINER	SPECIMEN	VOLUME	SCHEDULE	TAT (RESULT)
	Reaction		Universal Container	Urine	20ml	after 24 hours (daily)	
74.	Kleihauer Test	Haem	EDTA tube	Mother's blood only	2 ml blood	Daily	3 working days
75.	Lactate	Chem	Sodium fluoride/ Potassium oxalate tube	Blood	2 ml	Daily	45 minutes
			Universal container	CSF	1 ml	Daily	1 hour
76.	Lactate dehydrogenase (LDH)	Chem	Heparinised tube	Blood	4 ml	Daily	3 hours
77.	LDL-Cholesterol	Chem	Heparinised tube	Blood	4 ml	Daily	3 hours
78.	Magnesium	Chem	Heparinised tube	Blood	4 ml	Daily	3 hours
			24 hours urine container	Urine	24 hours urine collection	Daily	1 working day
79.	Microalbumin	Chem	Universal container	Urine	30 ml	Daily	1 working day
80.	Morphine	Chem	Universal container	Urine	50 ml	Daily	Neg: 3 working days Pos: 5 working days
81.	Myoglobin	Chem	Universal container	Urine	30 ml	Daily	1 working day
82.	Nasal/ Perineal Swab for MRSA screening	Microb	Amies transport medium	Swab in transport media		Daily	3 days
83.	<i>Nesseria gonorrhoea</i> C&S and gram stain	Microb	Amies transport medium	Urethral or endocervical swab with swab smear	-	Daily	3 days
84.	Non gynae cytology	Histo/	Plain container	Body fluid		Daily	

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	- Urgent	Cyto	(without fixative)				3 working days
	- Non urgent						10 working days
85.	Paraquat	Chem	Universal container	Urine	30 ml	Daily	1 working days
86.	Porphobilinogen	Chem	Universal container	Urine	30 ml	Daily	1 working days
87.	Porphyrin	Chem	Universal container	Urine	30 ml	Daily	1 working days
88.	Potassium	Chem	Heparinised tube	Blood	4 ml	Daily	3 hours
			Universal container	Random urine	30 ml	Daily	1 working days
			24 hours urine container	Urine	24 hours urine collection	Daily	1 working days
89.	Protein Creatinine Index	Chem	Universal container	Random urine	30 ml	Daily	1 working days
90.	Protein, Total	Chem	Heparinised tube	Blood	4 ml	Daily	3 hours
			Universal container	Random urine	30 ml	Daily	1 working day
			24 hours urine container	Urine	24 hours urine collection	Daily	1 working day
91.	Prothrombin time	Haem	3.8% Na citrate	Plasma	1.8 ml	Daily	1 hour*
92.	Pus / Pus swab C&S	Microb	Pus in sterile container Swab in Amies transport media	Pus 3-5 ml/ Pus swab in transport media	3-5 ml pus	Daily	3 days
93.	RBC phenotyping	Trans	EDTA tube (4ml)	Blood	4 ml	Office hour	7 working days

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94.	Rh Antibody Titre	Trans	EDTA tube (4ml)	Blood	4 ml	Office hour	7 working days
95.	Rheumatoid Factor (RF)	Microb	Plain tube	Serum	3-5 ml (Adult) 3ml(Paeds)	Office hour	1 working day
96.	Rotavirus antigen detection	Micro	Sterile container	Stool	3-5 ml	Daily	1 day
97.	RPR Syphilis (VDRL)	Microb	Plain tube	Serum	3-5 ml (Adult) 3ml(Paeds)	Office hour	1 working day
98.	Seminal Fluid Analysis (appointment through O&G Clinic)	Microb	Sterile container	Seminal fluid	As collected	Every Wednesday (via Pakar 1)	1 working day
99.	Sodium	Chem	Heparinised tube Universal container 24 hours urine container	Blood Random urine Urine	4 ml 30 ml 24 hours urine collection	Daily Daily Daily	3 hours 1 working day 1 working day
100.	Sputum C&S	Microb	Sterile containers	Sputum	3-5 ml	Daily	3 days
101.	Sterility test (C&S)	Microb	Sterile container/ Amies transport media	Pharmacy solutions/ Milk/ TPN/ Swab from clean area	3-4 ml Swab	Daily	3 days
102.	Stool / Rectal swab C&S	Microb	Stool in clean container or rectal swab in Alkaline Peptone Water and Selenite F (obtain from micro)	Stool Rectal swab in Alkaline Peptone Water and Selenite F	Peanut size Or rectal swab	Daily	3 days
103.	Stool FEME (ova & cyst)	Microb	Sterile container	Stool	Peanut size	Daily	1 day

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104.	Stool Occult Blood	Microb	Sterile container	Stool	Peanut size	Daily	1 day
105.	Stool pH	Haem	Sterile container	Stool	Peanut size	Daily	1 hour
106.	Stool Reducing Sugar	Haem	Plain container	Stool	Ground nut size (small amount)	Daily	1 hour
107.	Thyroid stimulating hormone (TSH)	Chem	Heparinised tube	Blood	4 ml	Daily	2 working day
108.	Thyroxine, Free (Free T ₄)	Chem	Heparinised tube	Blood	4 ml	Daily	2 working day
109.	Tissue C&S	Microb	Sterile container (NO FORMALIN)	Tissue		Daily	3 days
110.	<i>Treponema pallidum</i> Particle Agglutination (TPPA)	Microb	Plain tube	Serum	3-5 ml (Adult) 3ml (Paeds)	Once a week	7 working days
111.	Triglycerides	Chem	Heparinised tube	Blood	4 ml	Daily	3 hours
112.	Urea	Chem	Heparinised tube	Blood	4 ml	Daily	3 hours
			Universal container	Random urine	30 ml	Daily	1 working day
			24 hours urine container	Urine	24 hours urine collection	Daily	1 working day
113.	Uric acid	Chem	Heparinised tube	Blood	4 ml	Daily	3 hours
			Universal container	Random urine	30 ml	Daily	1 working day
			24 hours urine container	Urine	24 hours urine collection	Daily	1 working day
114.	Urine C&S	Microb	Sterile container	Mid-stream urine/ Suprapubic tap	3-5 ml	Daily	1 day

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115.	Urine FEME Ketone, urobilinogen, pH, specific gravity, protein, glucose, bilirubin, blood, leucocytes, nitrite, WBC, epithelial cells, cast, bacteria	Chem	Sterile container	Urine	5 ml	Daily	1 hour
116.	Urine for ANC	Haem	Plain container	Urine	3-5 ml	During ANC clinic only	10 min
117.	Urine Pregnancy Test (UPT)	Microb	Sterile container	Urine	3-5 ml	Daily	30 min
118.	Urine reducing sugar	Haem	Plain container	Urine	5 ml	Daily	1 hour

Key:

Microb = Microbiology

Haem = Haematology

* Abnormal result will be informed by phone

Chem = Chemical Pathology

Trans = Transfusion Medicine

Histo/Cyto = Histopathology/Cytology