DIRECTORY OF SERVICES



DEPARTMENT OF MICROBIOLOGY

KING GEORGE'S MEDICAL UNIVERSITY, Lucknow (Uttar Pradesh) 226003

Email: microbiology@kgmcindia.edu

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Department of Microbiology

King George's Medical University, Lucknow (UP) 226003

Email ID: microbiology@kgmcindia.edu; srl.up.kgmc@gmail.com; irluplno@rnctp.org

GENERAL INFORMATION

LABORATORY WORKING HOURS

The working hours, for the various divisions and specimen acceptance timings are provided in the table below.

S. No.	Working Days	Working Hours
01	Monday- Saturday	09:00 am- 04:00 pm
02	Sundays & Holidays	10:00am- 12:30 pm

SPECIMEN ACCEPTANCE TIMINGS

	Timing	
OPD patients	9.00 a.m. – 2.00 p.m.	OPD counter
Indoor patients	9.00 a.m. – 2.00 p.m.	IPD counter
	2.00 p.m to 9.00 a.m (working days-	Urgent specimens will be received
	Round the clock on holidays)	in Emergency Laboratory

SAMPLE ACCEPTANCE AND REJECTION

Correctly collected, labeled and transported samples will be accepted for testing. If sample is too little and multiple tests are ordered, possible testing will be done and a request for further sample for remaining tests will be placed while receiving sample.

General Rejection Criteria

(Based on factors which could result in incorrect test results or breach of biosafety protocols)

- Leaking vials/sample containers
- Incorrect or unclear labeling of sample/requisition i.e., sample identification not clear
- Samples in incorrect vials (including syringes)/with incorrect anticoagulant for test
- Gross contamination of outer surface of sample
- Incorrectly transported samples likely to result in sample deterioration too much delay from time of collection, with no clear information on interim storage conditions

Additional criteria for rejection of serum samples

- Grossly hemolysed samples
- Excessively lipemic samples
- Visibly contaminated samples
- Clots in anticoagulated samples



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LIST OF AVAILABLE LABORATORY EXAMINATIONS

S	Test Name	Preferred Specimen	Specimen collection &	Optimum
N			Transport	sample
1	BACTERIOLOGY			
1	SMEAR FOR EXA	MINATION		
a				
1	Conjunctival Smear Examination	Conjunctival Smear	sterile swab	1 Swab
2	Smear Examination for Diphtheria	Throat Swab	sterile swab	1 Swab
3	Smear Examination for Gonococcus	Vaginal Swab	sterile swab	1 Swab
4	Smear Examination for bacterial vaginosis	High Vaginal Swab	sterile swab	1 Swab
1	DIRECT MICROS	СОРУ		
b				
1	DFA for Chlamydia	cervical swab	sterile swab	1 Swab
	trachomatis			
	cervical swab			
2	Microscopy for			
	Bacterial Vaginosis			
3	Wet Mount for			
	Trichomonas			
	vaginalis			
1	CULTURE & SENS	SITIVITY		
c			,	,
1	Blood Culture &	Whole Blood	inoculated	2 sets
	Sensitivity		blood culture	
	(Automated		bottle	
	Aerobic &			
	Anaerobic) With ID/AST (MIC)-			
	ID/AST (MIC)- Bacteria			
2	Blood Culture &	Whole Blood	inoculated	2 sets
	Sensitivity (THOIC DIOOG	blood culture	2 5015
	Aerobic Bacterial)		bottle	
	Manual ID/AST			
3	CSF Culture &	CSF	universal	1-3 ml
	Sensitivity		sterile	
	(Automated		container	
	ID/AST)			



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	(Bacterial)			
4	CSF Culture &	CSF	universal	1-3 ml
	Sensitivity(Aerobic		sterile	
	Bacterial) Manual		container	
	ID and AST			
5	Pus Culture &	Pus/ Swab	universal	1-5 ml
	Sensitivity		sterile	
	(Automated		container	
	ID/AST with MIC)			
	(Bacterial)	D / G 1		1.5.1
6	Pus Culture &	Pus/ Swab	universal	1-5 ml
	Sensitivity		sterile	
	(Aerobic Bacterial) Manual ID & AST		container	
7	Pus Culture &	Pus	universal	1-5 ml
/	Sensitivity	1 us	sterile	1-J IIII
	(Anaerobic-		container	
	Bacterial)		Container	
8	Urine Culture &	Early Morning Urine	universal	2-40 ml
	Sensitivity		sterile	
	(Automated		container	
	ID/AST)			
	(Bacterial)			
9	Urine Culture &	Early Morning Urine	universal	2-40 ml
	Sensitivity		sterile	
	(Aerobic-		container	
	Bacterial) Manual	K'		
	ID and AST			7 10 1
1	Sputum Culture &	Sputum	universal	5-10 ml
0	Sensitivity		sterile	
	(Automated ID/AST)		container	
	(Bacterial)			
1	Throat swab	Throat Swab	sterile swab	1 swab
1	Culture &	Amout Sindo	Sterrie B Wall	1 5 11 40
	Sensitivity			
	(Aerobic -			
	Bacterial) Manual			
1	Throat swab	Throat Swab	sterile swab	1 swab
2	Culture &			
	Sensitivity			
	(Automated			
	ID/AST)			
	(Bacterial)	DAY		0.10
1	BAL Culture &	BAL	universal	2-10 ml
3	Sensitivity		sterile	



	(Automated		container	
	ID/AST)			
	(Bacterial))			
1	Stool Culture &	Stool	universal	2-40 ml of
4	Sensitivity		sterile	liquid/1
	(Aerobic -		container	gm of
	Bacterial) Manual			semisolid
	ID and AST			stool
1	Stool Culture &	Stool	universal	2-40 ml of
5	Sensitivity		sterile	liquid/1
	(Automated		container	gm of
	ID/AST) (Bacterial			semisolid
				stool
1	Vaginal Swab	Vaginal Swab	sterile swab	1 swab
6	Culture &			
	Sensitivity(Automa			
	ted ID/AST)			
1	(Bacterial) Trichomonas			
7	vaginalis Culture &			
'	Sensitivity			
1	Gonococcus	Vaginal Swab	sterile swab	1 swab
8	Bacterial Culture &	Vaginar 5 wab	sterife swab	1 Swab
	Sensitivity			
1	Body fluids	Body Fluid	universal	2- 10 ml
9	Culture &		sterile	
	Sensitivity(Automa		container	
	ted ID/AST)			
	(Bacterial)			
2	CVP line Culture	CVP	tip of venous	5 cm of
0	& Sensitivity	A	catheter in	length
	(Aerobic)		universal	
			sterile	
_		<u> </u>	container	
2	Tissue Culture &	Tissue	universal	visible
1	Sensitivity		sterile	tissue
	(Automated		container	
	ID/AST)			
1	(Bacterial)			
1	BACTERIAL SER	ULUGI		
<u>d</u>	Widal Test	Serum	plain vials	3 ml
2	RPR (Rapid	Serum	plain vials	3 ml
	Plasma Reagin)			
	Test			



3	V.D.R.L. Test	Serum	plain vials	3 ml
4	TPHA	Serum	plain vials	3 ml
5	Anti Brucella IgM	Serum	plain vials	3 ml
	antibodies		1	
6	Anti Brucella IgG	Serum	plain vials	3 ml
	antibodies			
7	Anti- Scrub typhus	Serum	plain vials	3 ml
	IgM by ELISA			. 1
8	Anti Pertussis IgG	Serum	plain vials	3 ml
	ELISA	G.	1	2 1
9	Anti Leptospira	Serum	plain vials	3 ml
	IgM by ELISA			
1	RACTERIAL IMM	UNOLOGY & BIOMARKERS		
e	Dite LERINE INIV	TOTOLOGI & BIOMERICAN		
1	A.S.O. Titre	Serum	plain vials	3 ml
2	C- Reactive Protein	Serum	plain vials	3 ml
	(Quantitative)			
3	C- Reactive Protein	Serum	plain vials	3 ml
	(Qualitative)			
4	Procalcitonin	Serum	plain vials	3 ml
_	(Rapid)		1	2 1
5	Procalcitonin (Overtitative)	Serum	plain vials	3 ml
6	(Quantitative) Rheumatoid Factor	Serum	plain vials	3 ml
0	(Latex	Scruii	piam viais	3 IIII
	Agglutination)	X'		
2	PARASITOLOGY			I
2	MICROSCOPY			
a				
1	Microscopy FOR	Stool	universal	2-40 ml of
	OVA & CYST		sterile	liquid/1
	(Routine)		container	gm of
	Migragage	Stool/Othors	ymiyyana a 1	semisolid
2	Microscopy for opportunistic	Stool/Others	universal sterile	2-40 ml of liquid/1
	parasite		container	gm of
	· parasite		Container	semisolid/
				3ml
3	Microscopy for	Blood	plain vials	3 ml
	Malarial Parasite			
4	Microscopy for	Blood	plain vials	3 ml
	Microfilaria			
5	Microscopy for	BAL/Sputum	universal	2-5 ml
	Pneumocystis		sterile	



	carinii		container	
2	PARASITIC SERO	LOGY	I	
b			,	,
1	Rapid Malaria Test (HRP-2 based)	Blood/Serum	plain vials	3 ml
2	Rapid Malaria Test (p-LDH based)	Blood/Serum	plain vials	3 ml
3	Filaria antigen (Rapid)	Blood/Serum	plain vials	3 ml
4	Echinococcus IgG ELISA	Blood/Serum	plain vials	3 ml
5	Entamoeba histolytica antigen ELISA	Blood/Serum	plain vials	3 ml
6	Entamoeba histolytica IgM ELISA	Blood/Serum	plain vials	3 ml
7	Entamoeba histolytica IgG ELISA	Blood/Serum	plain vials	3 ml
8	Cysticercosis IgG ELISA	Blood/Serum	plain vials	3 ml
9	Cryptosporidium stool antigen ELISA	Blood/Serum	plain vials	3 ml
1 0	Leishmania antibody (Rapid)	Blood/Serum	plain vials	3 ml
1 1	Stool Antigen for Giardia (ELISA)	Blood/Serum	plain vials	3 ml
1 2	Toxoplasma IgM by ELISA	Blood/Serum	plain vials	3 ml
2	RAPID TEST		•	
c			T .	
1	Stool for occult blood	Stool	universal sterile container	2-40 ml of liquid/1 gm of semisolid
3	MYCOLOGY		L	1
3 a	FUNGAL MICROS	SCOPY		
1	Smear for Fungus (KOH Mount)	Skin/Nail/Hair Scraping	sterile petri plate/black paper	visible sample
2	Immunofluorescen ce for	Sputum	universal sterile	2-5 ml



	Pneumocystis		container	
3	Smear examination	Vaginal Swab	sterile swab	1 swab
	for Candida	, uganuz s mue		1 5 11 415
3	FUNGAL CULTUR	RE & SENSTIVITY	<u> </u>	I
b				
1	Skin/Nail for C/S	Skin/Nail Scraping	sterile petri	visible
			plate/black	sample
			paper	
2	Pus for C/S	Pus	universal	1-5 ml
			sterile	
2	G , C , C , C	G .	container	0.5.1
3	Sputum for C/S	Sputum	universal	2-5 ml
			sterile container	
4	Throat swab	Throat Swab	sterile swab	1 swab
	(Automated) With	Timoat Swab	sterile swab	1 Swab
	ID/AST (MIC)-			
	Yeast (Fungal)			
5	BAL for Fungal	BAL	universal	20-50 ml
	C/S		sterile	
			container	
6	CSF C/S	CSF	universal	1-3 ml
	(Automated) With		sterile	
	ID/AST (MIC)-	Y	container	
_	Yeast (Fungal)	DI I	1 . 1 .	1 4 1
7	Blood Culture for	Blood	biphasic blood culture	1-4 ml
	Filamentous Fungi (Manual)		bottle	pediatrics/ 8-10 ml
	(Manual)		bottle	adults
8	Blood Culture	Blood	bactec bottle	1-4 ml
	(Automated) With	Biode		pediatrics/
	ID/AST (MIC)-			8-10 ml
	Yeast (Fungal)			adults
9	Body Fluids for	Pleural/Pericardial	universal	20-50
	C/S fungal		sterile	ml/2-5 ml
			container	
1	Body fluids C/S	Pleural/Pericardial	universal	20-50
0	(Automated		sterile	ml/2-5 ml
	ID/AST) Fungal		container	20.50
1	Urine C/S	Early Morning Urine	universal	20-50 ml
1	(Automated		sterile	
1	ID/AST) Fungal Urine for C/S	Early Morning Urine	container universal	20-50 ml
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Fungal	Larry Morning Office	sterile	20-30 IIII
	Tungai		container	
Ш			Comanici	



1 3	Vaginal swab for C/S Fungal	Vaginal Swab	sterile swab	1 swab
1	Stool for C/S	Stool	universal	2-40 ml of
4	Fungal		sterile	liquid/1
	C		container	gm of
				semisolid
3 c	FUNGAL SEROLO	OGY		4
1	Cryptococcal	Blood/Serum	plain vials	1-5 ml
	antigen lateral flow	2100 6 801 611	printi (interprint)	
	(Rapid)			
2	Galactomannan	Blood/Serum	plain vials	1-5 ml
	ELISA			
4	TB LABORATORY			
1	AFB Microscopy	Sputum, CSF, Pus, Body fluids (Pleural,	universal	2-5 ml
	(ZN Stain)	pericardial, synovial, ascitic, BAL, Gastric	sterile screw	
		lavage) Bone marrow aspirates, Tissue aspirates	caped	
2	AFB Microscopy	and biopsies, urine and other suitable samples Sputum, CSF, Pus, Body fluids (Pleural,	container universal	2-5 ml
2	(Auramin O Stain)	pericardial, synovial, ascitic, BAL, Gastric	sterile screw	2-3 1111
	(Autanini O Stani)	lavage) Bone marrow aspirates, Tissue aspirates	caped	
		and biopsies, urine and other suitable samples	container	
3	AFB Culture -	Sputum, CSF, Pus, Body fluids (Pleural,	universal	2-5 ml
	Solid	pericardial, synovial, ascitic, BAL, Gastric	sterile screw	
	(Manual)	lavage) Bone marrow aspirates, Tissue aspirates	caped	
		and biopsies, urine and other suitable samples	container	
4	AFB Culture -	Sputum, CSF, Pus, Body fluids (Pleural,	universal	2-5 ml
	Liquid	pericardial, synovial, ascitic, BAL, Gastric	sterile screw	
	(Automated)	lavage) Bone marrow aspirates, Tissue aspirates	caped	
_	A ED. C14 1	and biopsies, urine and other suitable samples -	container	2.51
5	AFB Culture and DST- First line	Sputum, CSF, Pus, Body fluids (Pleural,	universal sterile screw	2-5 ml
	drugs	pericardial, synovial, ascitic, BAL, Gastric lavage) Bone marrow aspirates, Tissue aspirates	caped	
	(Solid/Manual)	and biopsies, urine and other suitable samples	container	
6	AFB Culture and	Sputum, CSF, Pus, Body fluids (Pleural,	universal	2-5 ml
	DST- First line	pericardial, synovial, ascitic, BAL, Gastric	sterile screw	
	drugs	lavage) Bone marrow aspirates, Tissue aspirates	caped	
	(Liquid/Automated	and biopsies, urine and other suitable samples	container	
7	AFB Culture and	Sputum, CSF, Pus, Body fluids (Pleural,	universal	2-5 ml
	DST- Second line	pericardial, synovial, ascitic, BAL, Gastric	sterile screw	
	drugs	lavage) Bone marrow aspirates, Tissue aspirates	caped	
	(Liquid/Automated	and biopsies, urine and other suitable samples	container	
8	Gene Xpert/	Sputum, CSF, Pus, Body fluids (Pleural,	universal	2-5 ml
U	Cono riporu	Spatiality Colly 1 aby Dody Halab (1 lealar)	uni verbui	



	CBNAAT	pericardial, synovial, ascitic, BAL, Gastric	sterile screw	
	(Identification and	lavage) Bone marrow aspirates, Tissue aspirates	caped	
	drug susceptibility	and biopsies, urine and other suitable samples	caped	
	testing)	and biopsies, time and other suitable samples	Container	
8	Identification	AFB culture isoalte	Culture tube/	
	(AFB culture)		cryovial	
9	Line Probe Assay	AFB Positive Sputum Sample; TB Culture	universal	2-5 ml
	(Identification and	Isolate	sterile screw	4
	susceptibility		caped	
	testing)		container	
1	Drug susceptibility	AFB culture isolate	culture tube/)
0	testing (Manual-		cryovial	
	Solid)			
1	Drug susceptibility	AFB culture isolate	Culture tube/	
1	testing		cryovial	
	(Automated-			
1	Liquid)	Clain Comming/ Negal Cyyob	sterile slide/	visible
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Smear For Lepra Bacilli	Skin Scraping/ Nasal Swab	swab	sample/1
	Daciiii	V	Swau	swab
5	ICTC			Swao
1	Anti-HIV	Blood/Serum	plain vials	3 ml
	antibodies	2100di Serdin	prairi viais	
2	CD4 count	Blood/Serum	plain vials	3 ml
6	VIROLOGY			
6	VIRAL SEROLOG	Y		
1	HBsAg ELISA	Blood/Serum	plain vials	3 ml
2	HBeAg ELISA	Blood/Serum	plain vials	3 ml
3	Anti- Hepatitis B	Blood/Serum	plain vials	3 ml
	Core Antigen IgM	Brood, Seram	piani viais	3 1111
	(Anti-HBc IgM)			
	ELISA			
4	Anti-Hepatitis B	Blood/Serum	plain vials	3 ml
	Surface Antigen		_	
	(Anti-HbsAg)			
\vdash	HBeAb ELISA	Blood/Serum	plain vials	3 ml
6	Anti HBs Antibody	Blood/Serum	plain vials	3 ml
	ELISA			
7	Anti- Hepatitis A	Blood/Serum	plain vials	3 ml
	Virus IgM			
	Antibodies (anti-			
	HAV IgM)			
0	(ELISA)	Dlood/Compa	mloin viala	2 ml
8	Anti- Hepatitis E	Blood/Serum	plain vials	3 ml



	777		1	1
	Virus IgM			
	Antibodies (anti-			
	HEV IgM)(ELISA)			
9	Anti- Hepatitis D	Blood/Serum	plain vials	3 ml
	Virus IgM			
	Antibodies (anti-			
	HDV			
	IgM)(ELISA)			
1	Anti HCV Total	Blood/Serum	plain vials	3 ml
		Diood/Setuin	plani viais	3 1111
0	2			
	ELISA			
1	Anti-	Blood/Serum	plain vials	3 ml
1	Cytomegalovirus			
	IgM Antibodies			
	(Anti- CMV			
	IgM)(ELISA)			
1	Anti-	Blood/Serum	plain vials	3 ml
2	Cytomegalovirus	Blood, serum	plani viais	3 1111
	IgG Antibodies			
	C			
	(Anti- CMV IgG)			
	(ELISA)	71 1/9		
1	CMV IgM ELISA	Blood/Serum	plain vials	3 ml
3				
1	TORCH (IgM	Blood/Serum	plain vials	3 ml
4	ELISA)			
1	Anti-Chikungunya	Blood/Serum	plain vials	3 ml
5	Virus IgM			
	Antibodies (Anti-			
	ChikV IgM)			
	(ELISA)			
1	Anti-Herpes	Blood/Serum	plain vials	3 ml
6	Simplex IgM	7	P. T.	
	Antibodies (Anti-			
	The state of the s			
1	(ELISA)	D1 1/0	1 ' ' 1	2 1
1	Anti-Measles Virus	Blood/Serum	plain vials	3 ml
7	IgM Antibodies			
	(Anti-Measles			
	IgM)(ELISA)			
1	Anti-Measles Virus	Blood/Serum	plain vials	3 ml
8	IgG Antibodies		_	
	(Anti-Measles			
	IgG)(ELISA)			
1	Anti-Mumps Virus	Blood/Serum	plain vials	3 ml
9	IgM Antibodies	Diood/Detuin	Piain viais	3 1111
7	<u> </u>			
	(Anti-Mumps IgM)			



	(ELIGA)		<u> </u>	I
	(ELISA)			
2	Anti-Mumps Virus	Blood/Serum	plain vials	3 ml
0	IgG Antibodies			
	(Anti-Mumps IgG)			
	(ELISA)			
2	Anti-Varicella	Blood/Serum	plain vials	3 ml
1	Zoster Virus IgM			
	Antibodies (Anti-			
	VZV IgM)			
	(ELISA)			
2	Anti-Varicella	Blood/Serum	plain vials	3 ml
2	Zoster Virus IgG			
	Antibodies (Anti-			
	VZV IgG)			
	(ELISA)			
2	Anti-Human	Blood/Serum	plain vials	3 ml
3	Parvovirus B19			
	IgM Antibodies			
	(Anti- B19V IgM)			
	(ELISA)			
2	Anti-Human	Blood/Serum	plain vials	3 ml
4	Parvovirus B19		1	
	IgG Antibodies			
	(Anti- B19V IgG)			
	(ELISA)			
2	Anti- Dengue	Blood/Serum	plain vials	3 ml
5	Virus IgM			
2	Dengue Virus	Blood/Serum	plain vials	3 ml
6	NS1Ag			
2	Anti- Japanese	Blood/Serum	plain vials	3 ml
7	Encephalitis Virus	Y		
	IgM			
2	Anti- West Nile	Blood/Serum	plain vials	3 ml
8	Virus IgM			
	Antibodies (Anti-			
	WNV IgM)			
	(ELISA)			
2	Anti-Epstein Barr	Blood/Serum	plain vials	3 ml
9	Virus IgM			
	Antibodies (Anti-			
	EBV IgM)			
	(ELISA)			
3	Anti-Rubella Virus	Blood/Serum	plain vials	3 ml
0	IgM Antibodies			
	(Anti Rubella IgM)			
	(ELISA)			



3	Rotavirus Antigen in stool by ELISA	Stool	Universal container	1-5 ml liquid stool
6 b	MOLECULAR BIOLOGY			
1	Real Time PCR For Hepatitis B Virus (Qualitative)	Blood/Serum	plain vials	3 ml
2	Real Time PCR with Viral Load estimation For Hepatitis B Virus	Blood/Serum	plain vials	3 ml
3	Real Time PCR For Hepatitis B Virus + Hepatitis C Virus (Quantitative)	Blood/Serum	plain vials	3 ml
4	Genotype For Hepatitis B Virus	Blood/Serum	plain vials	3 ml
5	Genotype For Hepatitis C Virus	Blood/Serum	plain vials	3 ml
6	Real Time PCR For Hepatitis C Virus (Qualitative)	Blood/Serum	plain vials	3 ml
7	Real Time PCR with viral load estimation For Hepatitis C Virus	Blood/Serum	plain vials	3 ml
8	Real Time PCR For Influenza A Virus	Throat and Nasal swab	Polysterene/ dacron swab with VTM	-
9	For Influenza A Virus (subtype H1N1)	Throat and Nasal swab	Polysterene/ dacron swab with VTM	-
1 0	Real Time PCR For Influenza A Virus (subtype H3N2)	Throat and Nasal swab	Polysterene/ dacron swab with VTM	-
1	Real Time PCR For Influenza B Virus	Throat and Nasal swab	Polysterene/ dacron swab with VTM	-
1 2	Real Time PCR For Respiratory Syncytial Virus	Throat and Nasal swab	Polysterene/ dacron swab with VTM	-



3 For Parainfluenza Virus 1,2,3,4 1 Real Time PCR Genital ulcer swabs/ body fluids/ serum/ ulcer swab plain vials 3-10 1 Real Time PCR Genital ulcer swabs/ body fluids/ serum/ CSF Swab/ plain vials 3-10 1 Real Time PCR Genital ulcer swabs/ body fluids/ serum/ CSF Swab/ plain vials 1-5 1 Real Time PCR Blood/Serum/ CSF/ body fluids plain vials 1-10 1 Real Time PCR Real Time PCR Nasal /Throat Swab Polysterene/ dacron swab with VTM 1 Real Time PCR Serum/ CSF Plain vials 1-5 1 Real Time PCR Serum/ CSF Plain vials 1-5 1 Real Time PCR Nasal /Throat Swab/ CSF/ Serum Plain vials 1-5 2 Real Time PCR Nasal /Throat Swab/ CSF/ Serum Polysterene/ dacron swab with VTM/ Plain vials 2 Real Time PCR Nasal /Throat Swab/ CSF/ Serum Polysterene/ dacron swab with VTM/ Plain vials 2 Real Time PCR Nasal /Throat Swab/ Serum Polysterene/ dacron swab with VTM/ Plain vials 2 Real Time PCR Serum/ Nasal /Throat Swab/ Serum Polysterene/ dacron swab with VTM/ Plain vials 2 Real Time PCR Serum/ Serum/ Swab/ Serum Polysterene/ dacron swab with VTM/ Plain vials 2 Real Time PCR Serum/ Serum/ Swab/ Serum Polysterene/ dacron swab with VTM/ Plain vials 3 Real Time PCR Serum/ Serum/ Swab/ Serum Polysterene/ dacron swab with VTM/ Plain vials 4 For Enterovirus Serum/ Stool/ conjunctival swab/ Nasal /Throat Plain vial/ Polysterene/ As dacron swab with VTM/ Plain vials Polysterene/ As dacron swab with VTM/ Plain vial Swab/ Polysterene/ As dacron swab with VTM/ Plain vial Swab/ Polysterene/ As dacron swab with VTM/ Plain vial Swab/ P	1	D 1 III' DCD	TDI . 1 N. 1 1	D 1 /	
Virus 1,2,3,4 with VTM	1		Throat and Nasal swab	Polysterene/	-
1 Real Time PCR Herpes Simplex 1 Virus 1 Real Time PCR Genital ulcer swabs / body fluids/ serum/ CSF Swab/ plain vials 1 Real Time PCR Genital ulcer swabs / body fluids/ serum/ CSF Swab/ plain vials 1 Real Time PCR Genital ulcer swabs / body fluids Plain vials 1 Real Time PCR Blood/Serum/ CSF / body fluids Plain vials 1 Real Time PCR Arrows Polysterene / dacron swab with VTM 1 Real Time PCR Real Time PCR For Japanese Encephalitis Virus 2 Real Time PCR Serum/ CSF Plain vials 3 Real Time PCR Plain vials 4 For Bocavirus Polysterene / dacron swab with VTM / Plain vials 5 Real Time PCR Nasal /Throat Swab / CSF / Serum Polysterene / dacron swab with VTM / Plain vials 6 Real Time PCR Nasal /Throat Swab / CSF / Serum Polysterene / dacron swab with VTM / Plain vials 6 Real Time PCR Nasal /Throat Swab / CSF / Serum Polysterene / dacron swab with VTM / Plain vials 7 Real Time PCR Nasal /Throat Swab / Serum Polysterene / dacron swab with VTM / Plain vials 8 Real Time PCR	3				
For Herpes Simplex 1 Virus					
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For			Serum/ early morning Urine	Plain vial	3 ml
	5				
Cytomogolovima					
		Cytomegalovirus			
			Stool	Plain vial	1-5 ml
6 For Rotavirus	6	For Rotavirus			



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2	Conventional PCR	Stool	Plain vial	1-5 ml
7	For Norovirus			
2	Conventional PCR	Stool	Plain vial	1-5 ml
8	For Astrovirus			
2	Real Time PCR for	Blood/ Serum/ CSF	universal	2-15 ml
9	Scrub typhus		sterile	
			container	

Supplementary information for

HIV test: Page No. 11-13

CD4 test: Page No. 14

Tuberculosis tests: Page No. 15-16

For other tests, further information, if required, can be obtained from the respective sections of Department of Microbiology, KGMU.



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SUPPLEMENTARY INFORMATION FOR HIV TESTING.

- A. As per NACO guidelines, pre and post test counselling is a requirement of the HIV testing process. Pre and post test counseling is provided by trained ICTC counselors in counseling room no. 115, in the New OPD block. A male and female counsellor are available.
- B. The counselor's do the pre-test HIV counseling, take informed consent from individuals, and provide a unique PID no. after getting required information including name, age, sex, aadhar no(if available)., address and contact details. A yellow card(PID card) containing identifiers and the PID number is given to the individual to facilitate sample collection and collection of report. The individual is then directed to the sample collection room next door- room no. 116.
- C. For IPD patients, it is expected that the referring clinician has obtained the informed consent by explaining the test and reason for testing. However the attendant who brings the sample is briefly counselled and the patient details are obtained as above and noted. A PID card is issued. In case of any difficulties in inform consent, the clinician can contact the HIV counselors. In special cases the counselors may go to the bed side of admitted patients for counseling.
- D. After counseling patients go for registration at sample reception counter.
- E. For IPD samples- The blood samples(2-5ml)from the Wards/OTs of the hospital must be transported in red capped vacutainers/ plain sterile sample transport vials of suitable size and NOT IN SYRINGES and be accompanied by a requisition form.
- F. The following essential information **must** be present in a legible manner on the requisition form
 - > Patient identifiers- Name, Age, Sex.
 - > Sample Type
 - > Date of collection
 - Test(s) Requested
 - Name of Referring clinician
 - Vials should be labelled with patient name and one other identifier, test required and date of collection.
- G. The person collecting and labeling the samples will match the identity of the patient to the requisition form. The sample id barcode is placed on the PID card at the sample reception counter for easy traceability



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- H. For OPD and walk in clients, after registration at the sample collection counter, a trained technician/phlebotomist collects 3-5 ml blood by venipuncture after verifying details.
- I. Samples are transported to the HIV laboratory section for HIV testing.
- J. Samples are tested in the laboratory as per laboratory testing protocol following NACO strategy III. HIV NACO provided Rapid Tests based on three different principles are used and the process is closely quality monitored.

Negative reports are given to those individuals who are test **non-reactive** on HIV rapid test I, which is the most sensitive test.

Positive reports are given to those patients who are test reactive on all the three HIV Rapid tests (HIV Rapid Tests I, II & III).

If the sample is found **reactive on HIV rapid test I but either of two Rapid tests are found non-reactive**, it is **indeterminate sample** & no report issued to patient. This is an uncommon situation. A fresh sample will be requested from the individual after two week to confirm the HIV status. If upon re-testing the same result is obtained, the sample will be sent to higher lab (SRL/NRL) for further confirmation. It will take around four weeks to get confirmed results.

- K. Reports are sent to the counsellor after validation and signatures. The counselors deliver the report after appropriate post test counseling. For HIV positive individuals appropriate linkages, including to ART centre are provided by the counsellors.
- L. An attempt is made to ensure that all HIV positive individuals admitted to the wards are counselled by our trained counsellors and linkages provided to ART centre. The physician can also provide counselling and link the individual to the ART Plus centre. For negative IPD reports, it is expected that the physician will disclose results
- M. Note that due to heavy patient loads at the OPD, it might take some waiting time for counselling and sample collection.
- N. Turn Around Time for HIV Testing: One Working Day

 (Kindly note that for samples collected before 12:00 PM, report will be available on SAME DAY)
- O. User Charges: Nil (NACO sponsored)
- P. Contact for any help/queries:

Room No. 116, New OPD Building KGMU, Chowk, Lucknow



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Email: srl.up.kgmc@gmail.com

Dr. Vimala Venkatesh, Professor & In-charge, HIV Laboratory

Dr. Rajesh Kulshreshtha, Research Officer

Mr. Anuj Kumar Srivastava, Technical Officer, SRL (Mob: 9415433045)

Mr. Sapan Barua, Counselor, ICTC (Mob: 9415465633)

Dr Deepshika, Counsellor, ICTC (Mob. 7376419393)



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SUPPLEMENTARY INFORMATION FOR CD4 TESTING

- A. The CD4 testing offered by the department, in collaboration with ART Plus center, KGMU, is sponsored by NACO for the clinical management of HIV positive persons.
- B. As per NACO guidelines the HIV positive person attends the ART centre and receives Pre ART counseling, after initial diagnosis. The counsellor notes identifying information like name, age/sex, address, contact number etc. on the "Green ART Card" and in the ART center records and allocates a Pre-ART/ART number, and sends the person for blood sample collection in room no. 13.
- C. In the sample collection room 2-3 ml of blood is collected in EDTA vacutainers and a sample ID is allotted, which is also noted on the green ART card and on sample vacutainer.
- D. The collected blood samples are transported, to the CD4 laboratory section in cold chain.
- E. For In –patients please contact ART center. A nurse will be deputed for bedside sample collection and linkages.
- F. The following essential information must be present in a legible manner on the requisition form signed by the nodal officer/Medical officer

 Sample ID, Name Age, Sex, PreART/ART No./Previous CD4 count, Date and time of collection
- G. Laboratory technician collecting and labeling the sample will match the identity of the individual as per details on the requisition form
- H. Sample testing for CD4 is done in the CD4 laboratory section of Department of Microbiology, KGMU on the CyFlow counter.
- I. After testing the CD4 count are entered on the requisition slip. After verification and signature of authorized signatory, reports are issued to the ART center, as per NACO guidelines. The CD4 results are also entered online on "IMS NACO"
- J. Note: All registered HIV positive persons are tested at 6 monthly intervals for CD4 counts or more frequently, if clinically warranted.

K. Turn Around Time for CD4 Testing: One Working Day

L. Contact for any help/queries:

CD4 laboratory, Department of Microbiology, ART Plus Center, Old OPD Block.

Email: srl.up.kgmc@gmail.com

Dr. Vimala Venkatesh, Professor, In charge, CD4 laboratory

Dr. Ritu Tandon, Research Assistant

Mr. Jainender Rai, Laboratory Technician (CD4) (Mob. 9455551474)



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SUPPLEMENTARY INFORMATION FOR TUBERCULOSIS TESTING

OFFERED SERVICES AT TB LABORATORY:

Tests/Method	Offered to	
For diagnosis purpose		
AFB Microscopy (ZN Stain/ Auramin O)	Presumptive pulmonary TB case (new case)	
CBNAAT (GeneXpert MTB/RIF)	Presumptive TB case among following key population	
	i) Extra-pulmonary sites; ii) Pediatric age group; iii) People	
	living with HIV; iv) Smear negative with X-ray suggestive	
	of pulmonary TB	
Line Probe Assay	Smear positive drug resistant (DR) pulmonary TB case who	
(Genotype MTBDR <i>plus</i>)	are suspected for drug resistance	
First Line Liquid culture DST	Presumptive DR-TB case with indeterminate Rifampicin	
(MGIT 960)	result (in CBNAAT).	
Second line Liquid Culture DST	Confirmed MDR-TB cases or presumptive XDR-TB	
(MGIT 960)		
First Line Solid Culture DST (LJ Media)	Presumptive DR-TB case whose samples are in-appropriate	
	(blood or urine) for conducting CBNAAT/LPA.	
For treatment follow-up purpose	A	
AFB Microscopy (ZN Stain/Auramin O)	New TB case	
Culture (liquid/Solid)	Drug resistant TB case	

Note:

- Please consider above criteria for selecting suitable test.
- Avoid referring multiple tests at a time (except for smear microscopy) and repeat testing.
- For treatment follow-up only smear and culture tests (not CBNAAT & LPA) are recommended.

FFES:

FREE (provided that RNTCP-Test requisition slip is completed, test was selected as per above criteria and has been referred through OPD/IPD of KGMU or RNTCP recognized health facility).

SAMPLE COLLECTION PROCEDURE

- *Sputum (Expectorated):* The early morning sputum is preferred. However on-spot collection of sputum is also acceptable but whenever possible efforts should be done to collect a second early morning sputum sample from such patients if the first one is negative.
- **Sputum** (**Induced**): If the patient has difficulty producing a sputum specimen, then induction should be considered. Sputum production may be induced by the inhalation of a warm aerosol of sterile 5-10% sodium chloride in water produced by a nebulizer.
- *Gastric Lavage:* This procedure can be employed where sputum production is unsuccessful. This technique requires professional attention and should only be attempted in the hospital. Gastric lavage is performed early in the morning before eating and at least 8 hours after the



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patient has eaten or taken oral drugs. 5-10ml specimen is required and must be neutralized with 100 mg of sodium carbonate.

- *Fluids:* Body fluids (spinal, pleural, pericardial, synovial, ascitic, pus, and bone marrow) must be aseptically collected and submitted in sterile containers. Keep refrigerated until transport.
- *Urine:* An early morning midstream specimen should be collected. Send entire specimen. Multiple specimens over several days may be required to obtain a positive specimen. <u>Urine</u> sample is not appropriate for CBNNAT and LPA
- *Tissue:* Any tissue to be cultured must be collected aseptically into a sterile container without fixatives or preservatives. If the specimen may dry, add sterile saline to keep moist.
- Isolates or Cultures for Identification and/or drug susceptibility testing: Isolates should be submitted as pure, fresh subcultures on Middlebrook 7H9/10 media or Lowenstein-Jensen media whenever possible.

SAMPLE CONTAINER AND TEST REQUISITION SLIP

- Sterile, wide-mouth, universal specimen containers or 50 ml-conical shaped tubes.
- Vacutainer tube for CSF/other low volume fluids and aspirates.
- Dully filled RNTCP- TB Test Requisition Form is required

Note: Obtain sample container and Test Requisition Form by requesting Head, Department of Microbiology, KGMU.

USUAL TURN-AROUND TIME:

AFB Microscopy
 CBNAAT
 LPA
 Liquid Culture
 Liquid Culture DST (Ist/IInd line drugs)
 Solid Culture
 Solid Culture DST
 84 Days

Note: TAT may exceed in conditions when sample load is high (beyond the routine testing capacity of Lab) or wherever repeat testing is required.

CONTACT FOR ANY HELP/QUERIES:

"Room No. 116, New OPD Building, KGMU, Lucknow" or "TB Laboratory, Department of Microbiology, KGMU, Lucknow"

Email: irluplno@rntcp.org

Contact Persons: Dr. Amita Jain, Prof. & Head, Department of Microbiology, KGMU;

Dr. Urmila Singh (Mob: 9936057067)