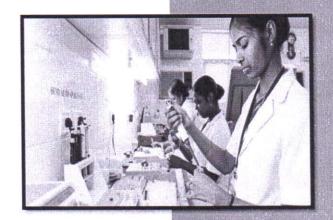




# Standard Operating Procedures for Public Health Facilities- Uttar Pradesh

## Laboratory Department





Quality Assurance Division SPMU, NHM, Uttar Pradesh

Name of facility	Standard Operating Procedure
Laboratory	SOP/NQAS/ /LAB - 1.0

## **Laboratory Services**

#### 1. Purpose:

To provide all kind of available diagnostic services to patients.

#### 2. Scope:

It covers all patient care areas of hospital.

### 3. Responsibility:

The Pathologist / Lab technician / Treating physician are responsible for prescribing, diagnosis and further treatment based on reports.

#### 4. Procedures:

SI. No.	Activity	Responsibility	Reference Document / Record
4.1	Laboratory services: SAMPLE COLLECTION AND RECEIPT		
	Out Patient Services: The Physician prescribes the various investigations on the Investigation request slip. The Lab technician (LT) receives the requisition forms and verifies the particulars. The LT then enters the request received in the Lab. Collection Register and allots a Lab / Hospital registration number.		
Α.	The Lab technician collects the sample after verifying the identity of the patient, puts a label and transports it to testing area of the lab. Patients are intimated about the time for collection of report.		Lab investigation requisition form Lab register Haematology
	The Lab technician segregates the specimens according to various testing areas and starts testing the samples. The Lab Technician records the details of the samples received in the respective registers.	Lab technician	register, Biochemistry register, Special test register
	In patient services The lab technician / nurse collects the samples of the patients admitted in the ward and sends it to the lab with request form and the patient details are labelled on the sample test tube / container.  The lab technician records all the details of the samples received in the respective registers		

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	Procedure for labelling and identification of samples:		
	Samples are identified by the Name, ID number, Age, Sex and Ward. The wards are provided with empty containers and samples are collected by the nursing staffs, who write the ID number, patient's name, age, location and investigations to be performed.		
	The OPD samples are collected by the technicians in the sample collection room. Patient sample taken as per laboratory protocols already known. Patient informed as to the time the reports can be collected.		
	All samples are labeled immediately, including patient name and ID no., sample type and then kept in respective laboratory repository (trays).		
	The samples for tests outsourced to other laboratories are sent in the original vials depending on the stability of the analyte to be determined and the specimen is maintained at appropriate temperature till received by the referral laboratory.		
	Procedure for handling and transportation of primary		
	samples with specification about time frame, temperature		
	and carrier: All samples are labeled with the patient's name, sample identification number, sample type and patient type i.e. OP or IP, in case IP the specific ward from where the patient's sample has been collected is also indicated in the label.		
	Sample without label is returned to the specific area from where it has been collected.	Lab Technician	
	Glass tubes / Vacutainers are used for transfer of samples from the specific point of collection to the main laboratory area, in closed container and transport the samples as per the test requirement within half an hour as from collection point to the testing lab.		
	Staff responsible for handling of patient samples puts on		

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SI. No.		Acti	vity	Responsibility	Reference Document / Record
	glove	es when handling samples.			
	The verifi of pa of sa mode met t	purpose is to define the mens are rejected before at sample is asked for to satisfied for Demographic detail tients, lab test request for ample, appropriate contains of temperature are. If the samples are accepted, rwise the samples will be	e conditions under which the ethe investigation starts and we precious time and cost.  ved in testing laboratory are als of testing patients, diagnosism, quantity of sample, quality mer, required temperature and the aforesaid requirements are rejected requested for a new		
	S. N.	Rejection Criteria		Lab Technician	
	1	Unlabelled specimen			
	2	Specimen with illegible	abel		
	3	Mislabelled specimen			
	4	Insufficient quantity of s	pecimen		
	5	Wrong container type			
	6	Mismatch between Paties specimen and test requisi	THE CO. SECTION CO.		
	7	processing is more than t	the sample collection to he permitted time limit condition of the specimen.		2
	S. N.	Specimen	Rejection Criteria		

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	8	Improperly or incompletely labelled specimen	If the primary sample is irreplaceable or critical, the sample is initially processed but the report is not released until the requesting physician or person responsible for primary sample collection takes responsibility for identifying and accepting the sample or for providing proper information.		
	9	Blood collected in plain vials for biochemistry tests on serum	Samples with turbidity indicating poor preservation, Haemolysed samples, blood which does not clot. Sample collected in EDTA, citrate or glucose vial,		
	10	Plasma for glucose	Blood collected in vial other than fluoride		
	11	Citrated blood collected for coagulation tests	Blood showing haemolysis or clot formation, blood showing increase or decrease in volume of more than 20%		

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	12	EDTA Blood	Blood showing haemolysis or clot formation, blood showing increase or decrease in volume of more than 20%		~
	Samp opera Staff when	oles are processed ations manual' present wears gloves and la	boratory coats (aprons) at all times processing patient specimen,		
	delay		becimen is preferred, When there is orting, the sample is refrigerated to nation.		
	Prote For 2 to th	eted is to be confirme eins- heat acid test etc 24hrs urinary proteins the patients on the man to the patient with	trips for samples. Any abnormality d by conventional methods i.e. – a. s. special instructions are to be given ethod of collection. A container is the required instructions. Urine is nationer, other than that given by the	Technician	
	Rout exam prese ova a In sp	nination i.e. colour, ent, pH, occult bloom and cysts.	physical, chemical and microscopic consistency, blood or mucous if and microscopic examination for opic examination for ova and cysts is		
	Follo	en analysis  owing instructions ection:-	are given to patients for semen		

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Sl. No.	Activity	Responsibility	Reference Document / Record
	3 day period of abstinence is recommended		
	<ul> <li>To receive the sample as per instructions given in point one</li> <li>To do the physical examination for colour, pH, liquefaction time, viscosity, volume, sperm count for motility and morphology</li> <li>To estimate fructose in case of infertility</li> <li>Body fluids - pleural, peritoneal, pericardial, cerebrospinal fluid. These are collected by consultant / medical officer on duty in PLAIN as well as EDTA TUBES, under strict aseptic precautions and sent to the lab immediately.</li> </ul>		
	Repeat test:  On request if treating doctor feel that the lab report is not correlating with the clinical diagnosis/ testing technician feels that the report may be analytical failure, the requested lab test is tested from the given sample.		
	If HIV or other infectious diseases the positive samples are repeated based on the NACO guidelines.		
	Reporting of critical results: Critical test result beyond the normal variation with a high probability of a significant increase in morbidity and/or mortality in the foreseeable future and requires rapid communication of results for determination of intervention.		
	<ul> <li>When a critical result is identified, the Laboratory Technologist contacts the ordering physician or their assistant within 15 minutes of test readiness via a phone / intercom</li> </ul>		
	<ul> <li>For the patient who is no longer in the hospital or clinic, the Laboratory Technologist contacts the ordering physician or their assistant immediately after identification of critical result.</li> </ul>		
	If the ordering physician or their assistant is not reached within 15 minutes of test readiness, the		

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	Laboratory Technologist follows the order of notification.		
	Order of Notification:  • Ordering / Treating Physician / Staff nurse on duty / Casualty Medical Officer		
	Whenever in-patient reports are communicated to the staff nurse the 'read back' method is followed. The individual, accepting the critical test result, records and then reads back the critical test result, in its entirety, to the reporter at the time the result is given.		-
	In the case of an outpatient, the result is intimated to the patient directly through available telephone or mobile number.		
7	With any applicable communication system failure a hard copy of the critical result is delivered to the ordering physician or their assistant. The Laboratory Technologist documents the name and credentials of the person receiving the report with the time of delivery.		÷
C.	Reporting  Test results are corroborated  Reports are typed  Reports are checked and signed  Results are entered in lab register The Lab Technician records the reports and gets it approved by the Lab. Incharge / Pathologist and issues the reports to patient / treating physician.	Lab technician	
	<ul> <li>Reports distribution and collection</li> <li>Reports segregated as per OPD, IPD and Outside samples</li> <li>IPD reports dispatched to wards</li> <li>Entry is made in 'Report received' register in ward and report results are entered against patient's name in Ward patient's investigations register.</li> </ul>		-
	Validation of reagents:		
	All the stains, Reagents, media, Kits etc which are used for		

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	testing the samples are validat	les or				
	calibrators or Know controls b	pefore using on real sample	es and			
	the reports of validated reagents are documented and filed.					
	If any deviation from the orig and preventive actions are tak		tive			
	Validation of examination p					
	Validation of the examination clinically is done by qualified  Control material similar t for examination of specin	, well trained pathologist. o patients sample matrix i				
	for various parameters wing QC values are docume maintained daily to che	e used to detect systemath of patients sample is an ath 2 levels of QC material ented daily; control character the stability of ana	alyzed daily.			
	<ul> <li>Alternate methods are also used to verify accuracy of results of tests for which controls and calibration material not available.</li> <li>Results generated at the laboratory are validated by the laboratory personnel</li> </ul>					
	Procedure for validation of	test results				
	internal quality contro b. Daily internal QC. c. Participation in extern programme. d. All procedures and approved and mo microbiologist. Input	kit validation of test is do l or those provided in the l	ry are sts /			
	Procedure for internal qual					
	<ul> <li>quality of results:         Internal quality control         • An adequate test menu to meet the requirement of patients is prepared for conducting the quality     </li> </ul>			Internal qu register	ality c	
	measurement.	ons and training is given to	the			
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	technical staff for patient's specimen collection and for assay system.  Phlebotomy is performed efficiently without discomfort to patient.  Analytical procedures are adopted with appropriate analytical performance.  All biochemical tests are conducted in strict accordance with standard protocols.  The lab In-charge assesses the tests result quarterly.  A designated person of laboratory is responsible for overall quality control tests. He / She will carry out quality control test himself or herself and should have sufficient authority to take necessary measures to correct any fault discovered during control testing.  Putting up control with every test sample is a part of daily procedure e.g. while doing grouping and Rh, reagent control tests are to be put up in each plate.  Sterility of blood or its component is also a part of the quality assurance. A practical approach to the problem dictates that the center using equipment, plastic bags, anti coagulants and bleeding sets and needles relies on their sterility from quality control measures instituted by manufacturers. In the laboratory strict aseptic precautions are taken while bleeding donors, and cleaning the pheblotomy area. While components are to be prepared in a strictly closed system.		
	Internal Quality Control by Replicate Tests on "CONTROI for cell counters  To check precision on coagulation analysers  The purpose, responsibility, procedure, principle, method and action to be taken of the internal quality control by replicate tests on "controls" are essentially same as for automated cell counters.  The minor differences in the procedure are mentioned below:  1. The controls for coagulation analysers are stable and the same lot is available for almost a year. Therefore the target value is determined on the analyses of the control run for the first 20 days.		

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	<ul> <li>2.The target value for the next lot is determined 20 days before the current batch is likely to get exhausted.</li> <li>3. The assigned value is provided by the manufacturer. The experience has shown that the differences between the value assigned by the manufacturer and the actual target value for prothrombin time (PT) and activated partial thromboplastin time (APTT) do not differ from each other by more than 5 %. It is therefore, decided that if for any lot the differences between the manufacturer assigned value and the actual target value determined by the laboratory differ more than 5 % recalibration of the instrument will be done.</li> <li>Replicate Testing on Patients' Samples on Haematology Counters:</li> <li>A random sample is taken each day in the morning shift and another one in evening shift and is run on each of the analyzers.</li> <li>The values and differences in the replicate values of TLC, Hb, HCT, MCV and platelets are recorded as shown in the table.</li> <li>If the difference between the replicates is more than ±2 SD, it suggests one of the values is out of control. Repeat the test on another sample. If the difference is corrected, i.e. it falls between 2 SD, no further action is required.</li> <li>If the difference is more than 2SD, it is discussed with the pathologist. Each day the results are signed by the technician in-charge. If an error persists, it is brought to the notice of</li> </ul>		
	the Pathologist.  Procedure for External Quality Assurance Programme:  External Quality Control: means a system where by laboratory produces a set of reagents and techniques, the results of which are to be compared with those produced by an approved reference laboratory. Both internal quality control and external quality control exercise a reasonably good control over the function of routine laboratory equipments, techniques reagents and staff.  The Lab has a MOU with RML Mehrotra Lab, Lucknow for EQAS of Haematology and Bio-chemistry tests if available. The Lab sends the report of control tests and the z score is received and analyzed for corrective and preventive action.	Pathologist / Lab Technician	

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	System for Storage of examined samples:  The purpose is to establish and maintain a procedure for preserving the specimens after the investigation is completed to cater for repeat test, if requested by the patient / attendant.  The procedure applies to all samples that are received in the laboratory.  A. Storage period of specimens to be examined  The specimens can be kept at room temperature if the examination is done within 2 hours. If the expected time of testing is beyond this then it is preserved at 2-80C and comply with the requirement of specific tests as applicable.		-
	B. Storage period of examined specimen  The examined specimens to be stored for re-examination and/or additional tests for a minimum period as specified bellow:  Clinical Biochemistry: Min. one day at 2-8 degC  Haematology: Complete Blood Counts: "Min one day at 2-8 deg C"  Clinical Pathology: "Till results are validated"  C. Retained sample test for the stored specimen  The repeat test on the stored specimens is performed to verify the storage conditions, numbering system and deterioration of the specimen during storage. The frequency for the repeat test is as follows:  Biochemistry: Samples for five analytes once in a month Haematology: The repeat test is done monthly for the stored sample  Acceptability Criteria: The percentage difference between the two results is within 15 %.	E	
D.	Procedure for examination by referral laboratories:  During receipt of samples, those to be outsourced are segregated and sent to a common collection area and entered into Referral Lab. register. Samples segregated based on the investigations. The samples for tests outsourced to other laboratories are sent in the original vials depending on the stability of the analyte to be determined and the specimen is maintained at appropriate temperature till received by the referral laboratory. If the samples are sent outside, lab		

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	technician records the reports when available. All communications to the referral laboratories pertaining to patient details are done by Pathologist or Lab. technician		
E.	Stock Maintaining & Monitoring:  A stock register shall be maintained for the items and wherever required re-order shall be maintained in the stock register itself.		e
	List of the items required shall be well informed to the administrative department through indent.		
	Procedure for Preventive and Breakdown maintenance: As per Policy for Equipment Maintenance.	×	
	Preventive maintenance schedules are prepared based on manufacturers' recommendations / review of History Card maintained. Preventive maintenance is carried out as per Maintenance Schedule and Records. The concerned engineer checks the maintenance activities regularly. After completion of maintenance (whether preventive or breakdown) the OK report is taken from the user department.  All preventive maintenance jobs done are recorded in History Card maintained for each equipment / device.  Breakdown Maintenance  Breakdown of an equipment or device is reported is informed to Lab. HOD/ In-charge. Requirement of maintenance / repair is logged into Maintenance Complaint Register. After completion of maintenance (whether preventive or breakdown) the OK report is taken from the user department. All preventive maintenance jobs done are recorded in History Card maintained for each equipment / device.		Preventive maintenance Schedule / record Breakdown register/ Maintenance Complaint register
	Instruments / devices which are given in AMC (Annual Maintenance Contract) are given to AMC Company for maintenance. A report of failure / break down is taken from company for monitoring purposes.		
	Procedure for Calibration of Equipments: A list of all Medical Electronics instrument /equipment/ devices requiring calibration is prepared and maintained using format.		Breakdown Slip/ Register History Card List of

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	List identifies the measurement instruments by name, type, serial number, location, applicable calibration requirements, date of calibration done and calibration due date. The calibration status is updated continuously.  Calibration records are maintained in the file. Dates of current and next calibration due are displayed on the equipment. Tri-level Controls are checked against the calibration and if controls do not fall within the assigned value the situation is brought to the attention of the representative of the firm and consultant, haematology. The action taken is documented. Calibration record is signed by senior technical staff and consultants. Where required the Calibration agency is provided with needed facilities and support to carry out the calibration in the hospital campus. Such instruments that are to be calibrated at an outside location are collected and sent to the identified calibration agency. Whenever the calibration is done, the following is checked up  Physical condition of instrument /test equipment Calibration certificate to be obtained from calibration		Document /
	c) Calibration certificate to be obtained from calibration agency and after verification marked as O.K./ Not O.K.  Sticking of calibration sticker. History of calibration is maintained using format and calibration certificates filed. The equipment is well maintained to preserve their accuracy and fitness for use.  If equipment is out of calibration or is otherwise not fit for use, it is withdrawn. Accessories associated with Test instruments are identified and calibrated along with Test Instruments.  In case an instrument is found with error – the materials already checked by this instrument are quarantined. This lot is re-checked with other instruments which are in order/the same instrument after its re-calibration.  Persons using instruments are trained on aspects like Do's,		

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	minor repairs as and when required.		
	Records of training imparted are maintained. Faulty		
	instruments are re-calibrated when received after repair.		
	Procedure for Document Control:		
	Documents related to quality control, calibration, machine	= = -	
	maintenance, staff training and proficiency runs are well		
	maintained by the department and reviewed periodically by		
	quality improvement committee.		
	Procedure for validation of results of reagents, stains,		
	media and kits etc.		
	Quality control provides the means to ensure and to regulate		
	the quality of procedures, reagents, instruments and products		
	and to determine whether they come within specified limits.		
	Reference material, consumable, reagents and analytical		
	systems are safeguarded from adjustments or tampering that		
	might invalidate test results		
	Procedure for resolution of complaints and other feedback		
	received from stakeholders:		
	The purpose is to establish and maintain a procedure for		
	handling of patients' complaint and their feedback. The		
	procedure applies to all complaints received in the laboratory.		
	The patient can complain about the lab functioning either		
	through feedback form or directly. These can be related to:		
	Test results		
	Behaviour of staff		
	Delay in report		
	Result not tallying with other lab		
	• Clinician – results not in line with the treatment and		
	patient's response.		
	Cleanliness of lab		
	Any other issue	;	
	All complaints are taken seriously and actions taken to satisfy		
	the customer immediately. Subsequently the actions are taken		
	to ensure that such complaints are not repeated.		
	Regarding result variations, the Quality Control data of the		
	day when test was conducted is checked and verified for		
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42	correctness. If it is OK then the patient is told about the accuracy of test. However, for his / her satisfaction the test is repeated, if required.	-	
	In some cases the specimen is sent for cross reference to referral lab (NABL accredited) and the result compared.		
	In case of behavioural complaints, the problem is discussed with the concerned staff. They are trained / told to be courteous and empathetic in future.		
	For delay - the effort is made to deliver all reports in time, however, due to reasons beyond our control the delay may occur. In such cases, if patient asks and if possible, the reports are delivered to the patient or their clinician. Thus the patient need not come again for collection of report.		
	Patient feedback is analyzed and the point for which the rating is low, action is initiated to improve it.		:
4.2	<b>Infection Control:</b> Following infection control measures shall be followed in the hospital.		
A.	<b>Staff health plan:</b> To control spread of infection from staff to patient or to protect staff from occupational hazards annual medical check-up of staff should be done and required vaccination is provided to all members.	Hospital Infection Control Committee	
В.	Hand Hygiene: Adequate hand washing facility should be available in all patient care areas. Elbow operated taps and washbasin and soaps are available in service provider's room & in-patient care areas.  If water facility is not available alcohol rub may be provided in patient care area.  Scrub area should have elbow/foot operated water taps.	( <del>*</del> )	
C.	Aseptic techniques: Aseptic techniques are followed strictly.	LAS OT I/C	
D.	Segregation of contaminated materials and instruments: Contaminated pieces of linen, sputum cups, bedpans, instruments & biomedical waste are kept separately to avoid mixing with the clean ones.	LAB Ward I/C	
E.	Disinfection: Disinfection of equipment and furniture's are carried out with bleaching powder solution. At least once a day or as required.	Housekeeping staff or General duty attendant	

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F.	Sterilization practices: The efficient CSSD ensures the supply of properly sterilized articles to all users of the hospital. The unsterile items are stored separately.	Ward I/C or CSSD In-charge	
	Good housekeeping: Cleaning of OT walls, floors, tables and fixtures are organized as per a schedule programme at pre-determined intervals and use of appropriate disinfectant is strongly advocated.  (Procedure 20, Hospital housekeeping & General Upkeep		Housekeeping Check list
G.	Management)  Biomedical waste is collected, segregated, transported, stored and disposed off as per BMW management & handling rule, 1998. (Procedure 24, Hospital Waste Management)	Housekeeping staff	Biomedical waste Management & handling rule, 2016.

The documentation and its accessibility is as follows:

S.N.	Name of the record	Form of the record	Maintaining Personnel /	Access mode	Who has the access
	record	the record	Controlling authority	mode	
01	Patients report Records	Computerized/ Hard Copy	IT Head	Password	IT Personnel in computerized Lab
02	Procedure Manual	Hard copy and soft copy	Quality Manager and Supervisors	Free	All Technicians
03	Standard Operating procedure	Hard copy and soft copy	Quality Manager and Supervisors	Free	All Technicians
04	QC Data	Hard and Soft copy	Quality Manager and Supervisors	Restricted access	Quality Manager, Sr. Lab Technician and Pathologists

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05	Quality audit report and review Reports	Hard and soft copy	Quality Manager	Restricted access	Quality Manager, Sr. Lab Technician and Pathologists
07	Histopathology and cytology reports	Hard copy/ Soft Copy	Technician	Free	All lab technologists and IT Executive who work in the lab
08	Patients test requisition	Hard copy/ Soft copy	IT Executive	Free	All Technicians and Pathologist
09	Outsourced tests' report copies	Hard copy	Technologist	Free	All Technicians and Pathologist
10	Patients tests value observation record	Hard copy/ Soft copy	All Technicians	Free	All Technicians
11	Calibration reports	Hard copy	All Technicians	Free	All Technicians
12	Instrument manuals	Hard copy	All Technicians	Free	All Technicians
13	MOUs with Labs for Out Sourcing Tests	Hard copy		Restricted	SIC/CMS

#### 5. Records:

S.N.	Record	
1	Collection Register (IP/OP)	
2	Biochemistry Register	
3	Haematology Register	
4	Special Tests Register	

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### 6. Process Efficiency Criteria

SI. No.	Activity	tivity Process Efficiency Criteria Benchm	
1	Routine Testing	Turn Around Time	
2	Utilization	Lab test done per indoor patient	
3	Emergency Testing	Turn Around Time	
4	Proficiency	Z score in external validation	

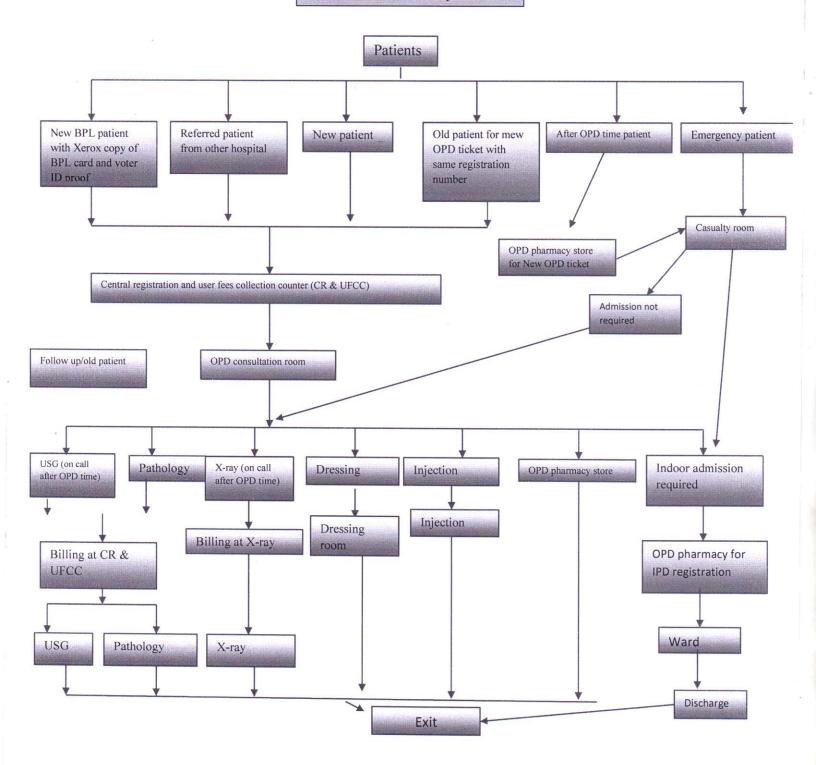
#### 7. Reference Documents

The Bio-Medical Waste (Management and Handling) Rules, 1998
ISO 15189: 2007 - Medical Laboratories Particular Requirements for Quality & Competence Guidelines for Good Clinical Laboratory Practice –ICMR
Manual on Quality Assurance for Laboratory Diagnosis of Malaria – NVBDCP
Guidelines for Standard Operating Procedures for Haematology – WHO

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#### **Process of Laboratory Services**



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Turn Around Time				
Parameter	Expected TAT(in hrs./days)			
rarameter	Routine ,	Critical		
Lipid Profile (Mini Lipid)				
Cholestrol	8			
HBL	8	<b>州村(1</b> 10年)		
LDL	8	了。 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
VLD'	8			
Trigly:ide	8			
KFT .		AND THE STATE OF THE STATE OF		
Bun	8	30Min		
Creatinine	8	30Min		
Sodium	8	20 Min		
Potassium	8	20 Min		
Uric Acid	8			
Urine Routine	8			
Serum Urea	8	30 Min		
Thyroid	(1) 10 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			
T3	8			
T4	8			
TSH	8			
Hormone	4			
CRP Procalcotine	4			
Fluid	4			
BHCG	4			
CLINICAL PATHOLOGY	6			
Routine Examination Sugar	6			
HAEMATOLOGY				
CBC	6	15 Min		
PTPC	4			
Blood Group	4	15 Min		
MPV	6			