

Classification of Laboratories and Diagnostics

	Level 1	Level 2	Level 3
Pathology	Clinical Pathology/Basic Hematology Platelet Count Bleeding Time Clotting Time Semen Analysis Pregnancy Test Sputum A F B Blood Grouping and Rh typing PT ,INR,APTT All routine hematology tests(TC,DC,ESR,HB,PCV,MCV,MCH C)	Specialized Hematology/Histopathology Cytopathology: FNAC Fluid Cytology(pleural ,ascetic ,CSF etc) Sputum Cytology Cervical smear(pap smear) etc Peripheral smear study, Coagulation assay	Advanced Hematology/Advanced Cytopathology All other hematology tests, Immuno histochemistry/ immune cytochemistry, other biological fluid cytology,ultrasound or CT guided FNAC
Biochemistry	Basic Biochemistry Tests for blood sugar(FBS,PPBS,GCT,GTT etc) Urea Creatinine Liver Function Test(S. Bilirubin,Total Protein,A/G Ratio, SGOT,SGPT,Alkaline Phosphatase) Cholesterol Lipid Profile(cholesterol,TG,HDL,LDL,VLDL) SGOT/SGPT Amylase S. Calcium S.Phosphorus Hemoglobin A1C Na+,K+ Lipase, Electrolytes CSF and other body fluids- glucose,protein	Specialized Biochemistry Hormone Bioassay Tumor markers Plasma protein electrophoresis	Advanced Biochemistry Coagulation profile,drug monitoring and toxicology assay: Molecular genetics,tests for detection of inborn errors of metabolism
Microbiology	Basic Microbiology Gram stain AFB stain Stool for ova/cyst/parasite Hanging drop for vibrio cholera Urine routineµscopy Rapid point of care test WIDAL-card test	Specialized Microbiology and Serology Aerobic: <ul style="list-style-type: none"> • Routine C /S of Blood • C/S of Urine • C/S of sputum • C/S of Pus • C/S of body fluids(Pleural, ascetic, CSF etc) Anaerobic:	Advanced Microbiology and Molecular Biology C/S for viruses RTPCR Test Tissue diagnosis test for infectious diseases Genetic Study

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		<ul style="list-style-type: none"> • Anaerobic culture of clinical samples • Fungal culture of clinical samples • Serology test for virus, bacteria, fungi, parasite • Other special stain besides gram stain • Mycobacterial culture <p><u>Serology</u> ASO RA WIDAL TPHA VDRL Brucella CRP IM tests (infectious mononucleosis tests) ELISA for HBsAg Anti HCV IgM Anti HAV IgM Dengue IgM Leptospira IgM Chikungunya IgM ANA, ANA Profile Other sepsis and serological markers</p>	
	Radiography ECG	Specialized X ray Techniques and Ultrasound	Interventional Radiology MRI/CT/PET/ Mammography EEG/EMG/ECHO/T MT

*Concerned specialist should be available in level 2 and level 3