

## List of investigations (Microbiology)

| SL NO   | SECTION  | INVESTIGATIONS   |
|---|--|--|
| 1.  | <b>Bacteriology Lab</b>                            | C/S of blood and body fluids such as pleural fluid, ascitic fluid, synovial fluid, CSF, etc (by conventional methods , BacT Alert & Vitek 2) |
|   |  | C/S of urine, stool  |
|   |  | C/S respiratory tract samples (sputum, throat swab, oral swab, tracheal aspirate, etc )  |
|   |  | C/S of swabs (pus swab, wound swab, aural swab, vaginal swab, conjunctival swab, etc)  |
|   |  | C/S for corneal scraping   |
|   |  | Detection of drug resistant bacteria (ESBL, MRSA, Carba Retc)  |
|   |  | Gram stain, Albert Stain   |
| 2.  | <b>Serology Lab<br/>(including viral serology)</b> | <u>Hepatitis Panel:</u>  |
|   |  | HBsAg test ( Immunochromatography/ ELISA)  |
|   |  | HCV Ab test ( Immunochromatography/ELISA)  |
|   |  | HBc Ab test (ELISA)  |
|   |  | HBs Ab test (ELISA)  |
|   |  | HAV Ab test (Ig M ELISA)   |
|   |  | HEVAb test (Ig M ELISA)  |
|   |  | VDRL test/ RPR   |
|   |  | Modified Treponema Pallidum Haemagglutination Assay  |
|   |  | Widal test (slide/tube agglutination test)   |
|   |  | Typhoid serology ( by Immunochromatography)  |
|   |  | Scrub typhus test (Immunochromatography)   |
|   |  | Rh factor test (Quantitative turbidimetric test)   |
|   |  | C-Reactive Protein test( Quantitative turbidimetric test)  |
| ASO titre test ( Quantitative turbidimetric test) |  |  |
| Leptospira Ab test (IgM ELISA)                    |  |  |
| 3.  | <b>HIV Laboratory<br/>(NRL and ICTC)</b>           | HIV testing  |
|   |  | CD4/CD8 by FACS counter  |
|   |  | HIV Viral load testing   |

|                                |   |   |
|--------------------------------|---|---|
| 4.                             | <b>Mycology Lab</b>                         | KOH mount (hair,nail,skin. biopsy tissue,aspirates etc)   |
|                                |   | Fungal staining (Giemsa, Gram stain, India Ink preparation, PAS, Mayer mucicarmine )                              |
|                                |   | Fungal culture (hair, skin, nails, CSF, urine, blood & other body fluids, sputum, corneal scrapping, tissues,etc) |
|                                |   | Rapid serological test for Cryptococcal Antigen (Crypto-PS/CALAS test)  |
|                                |   | Yeast identification and anti fungal sensitivity test (automated Vitek 2 system)                                  |
|                                |   | Beta-D-Glucan Assay (Fungitell) [to plz communicate with lab in charge]   |
| 5.                             | <b>Parasitology Lab</b>                     | Stool R/E   |
|                                |   | Stool for Occult blood  |
|                                |   | Sputum for Paragonimus  |
|                                |   | Stool for modified AFB  |
| 6.                             | <b>Mycobacteriology Lab</b>                 | AFB staining of sputum, urine, pus, body fluids, tissues etc  |
|                                |   | AFB culture (conventional)  |
| 7.                             | Molecular Laboratory                        | COVID 19 testing ( Truenat)   |
| 8.                             | <b>Viral Research Diagnostic Laboratory</b> | COVID 19 testing ( RTPCR)   |
|                                |   | Japanese Encephalitis (IgM capture ELISA)   |
|                                |   | Dengue (rapid and ELISA)  |
|                                |   | Chikungunya (ELISA)   |
|                                |   | H1N1(RTPCR)   |
|                                |   | Hepatitis C viral load testing  |
| Hepatitis B viral load testing |   |   |
| 9.                             | <b>Emergency Laboratory</b>                 | Gram stain &AFB stain – CSF, body fluids, sputum etc  |
|                                |   | C/S of body fluids (blood, pleural fluid, ascetic fluid, synovial fluid, CSF, tracheal aspirate, etc )            |
|                                |   | C/S for urine and stool samples   |
|                                |   | C/S for respiratory tract samples (sputum, throat swab, oral swab, tracheal aspirate etc )                        |
|                                |   | C/S for swabs (pus, vaginal, Throat, conjunctival swab, etc)  |

|     |                                      |  |
|-----|--------------------------------------|--|
|     |                                      | Stool R/E  |
|     |                                      | <u>Hepatitis Panel:</u><br>HBsAg test ( Immunochromatography)<br>HCV Ab test ( Immunochromatography) |
|     |                                      | Serological test for typhoid (Immunochromatography)  |
|     |                                      | HIV Test (only for emergency cases) [Immunochromatography]   |
| 10. | Surveillance lab<br>(on appointment) | Surveillance of OT/ Labour room/ICU/Wards, etc   |
|     |                                      | Water Bacteriology   |