सूक्ष्म जीव विज्ञान विभाग
Department of Microbiology
अखिल भारतीय आयुर्विज्ञान संस्थान, रायपुर (छत्तीसगढ़)
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IAMM PG Assembly 2022 Central Zone

Site: Department of Microbiology, AIIMS-Raipur

Dates: 15th, 16th and 17th September 2022

Course Coordinators: Dr. Anudita Bhargava, Dr. Padma Das, Dr. Ujjwala Gaikwad, Dr. Sanjay Singh Negi, Dr. Archana Wankhede Keche and Dr. Pragya Agarwala

Topics:

1. Recent trends in diagnosis of tuberculosis, as per NTEP guidelines
2. Clinical Bacteriology
3. Clinical Mycology
4. Clinical Virology

Tentative outline of the course:

The lectures will be delivered in the forenoon sessions. Total theory classes will be 1/3rd of the total course duration. Remaining 2/3rd of the course will be conducted in wet laboratories either hands-on session or demonstration of new technologies available in different sections, that are utilized for clinical microbiology reporting.

Day 1 Thursday 15th September 2022

Recent trends in Diagnosis of Tuberculosis, as per NTEP guidelines

- CB-NAAT/TruNat: Demonstration and Hands-on with reading and interpretation
- Line probe assay for first- and second-line anti-TB drugs: Demonstration, reading and interpretation
- Culture and DST by MGIT 960 system

Day 2 Friday 16th September 2022

Clinical Bacteriology

- CLSI updates 2022
- Bacterial Culture Sensitivity reports: What do they say?
- Practical demonstration of procedures and decision making in bacteriology laboratory

Clinical Mycology

- Necessity of identification and AFST of fungal isolates.
- Demonstration of Manual and Automated AFST of yeast isolates.
- Diagnostic update in invasive fungal infections
- Serodiagnosis of fungal infections-Demonstration and Clinical interpretation of Galactomannan by ELISA.

Day 3 Saturday 17th September 2022

Clinical Virology

- Serodiagnosis of viral infections (HBV & HCV) using various techniques like ELISA & ELFA (Enzyme-linked fluorescent assay))
- Molecular diagnosis of HBV & HCV using various techniques and platforms like Qualitative and Quantitative PCR (viral load estimation) & TruNat.
- Role of Next Generation Sequencing: Demonstration of workflow and results.

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