

## Microbiome in Clinical Diagnostics & FMT QA — Hands-on

Learn how microbiome and metagenomic workflows are implemented in clinical diagnostics and fecal microbiota transplant (FMT) programs. This module covers assay design, pre analytical variables, sequencing and bioinformatics pipelines, report generation, donor screening, stool banking and quality assurance aligned with clinical microbiology and regulatory expectations.

## Microbiome in Clinical Diagnostics & FMT QA

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### Session 1

**Fee: Rs 8800** [Apply Now](#)

### Clinical Microbiome & Diagnostic Foundations

Role of the microbiome in clinical diagnostics

[gut, oral, vaginal and skin microbiome assays](#)  
[indications in gastroenterology and infection](#)  
[screening, prognosis and therapy monitoring](#)

Sample types, collection and transport in clinics

[stool, swabs and biopsy samples](#) [stabilisation kits](#)  
[and cold chain options](#) [labeling, barcoding and data capture](#)

Clinical interpretation basics for microbiome reports

**reference ranges and healthy comparators** **dysbiosis**  
**concepts and caveats** **linking findings to symptoms**  
**and history**

### **Session 2**

**Fee: Rs 11800** Apply Now

## **Clinical Microbiome Workflows & QA**

Wet lab workflows for clinical microbiome tests

**DNA extraction and inhibitor management** **amplicon**  
**versus shotgun assay choices** **controls, replicates**  
**and contamination minimisation**

Clinical grade sequencing and bioinformatics pipelines

**QC thresholds for reads and libraries** **validated**  
**taxonomic and functional profiling steps** **version**  
**control and change management**

Quality assurance and proficiency testing concepts

**internal QC charts and run acceptance rules**  
**participation in inter laboratory comparisons**  
**documentation aligned with clinical lab standards**

### **Session 3**

**Fee: Rs 14800** Apply Now

## **FMT, Donor Screening & Stool Banking QA**

FMT programs and clinical microbiome use cases

**recurrent C diff and related indications** **trial versus**  
**routine care settings** **risk benefit framing for**  
**stakeholders**

Donor screening, eligibility and risk mitigation

**questionnaires and clinical examination** **infectious**

**disease and AMR screening panels** **interval re screening and deferral rules**

Stool banking operations and documentation for QA

**processing, aliquoting and storage conditions** **chain of custody and traceability** **records, batch release and deviation handling**

#### **Session 4**

**Fee: Rs 18800** Apply Now

### **Mini Capstone: Sample to Clinical Style Report**

End to end clinical microbiome workflow on example cases

**theory plus guided practical with anonymised data**

Transforming analytic outputs into clinician facing reports

**summary tables and traffic light style flags** **clear comments and caution statements** **storing outputs for audit and re analysis**

Deliverables: workflow sketch, templates and example report

**simple process flow or SOP outline** **example result tables and graphs** **PDF or HTML clinical style microbiome report**