

Maharashtra University of Health Sciences,

Nahsik

SYLLABUS

**“TRAINING PROGRAMME ON
HIV & AIDS”**

TRAINING PROGRAMME ON HIV & AIDS (2 MONTHS)

- (a) **Goal** : The goal of this course is to provide training in HIV/AIDS to MOs/Specialists to enable them to provide better care to affected patients.
- (b) **Learning objectives:** After completing the course, the student will be able to provide comprehensive care to all patients once diagnosed with HIV infection and its accompanying morbidities.
- (c) **Duration of the course:** 2 months
- (d) **Minimum requirements/Infrastructure :**

General eligibility to start a postgraduate course

The following criteria are recommended for an institution to be considered for affiliation to the university to conduct a recognized Certificate course

1. The college or Institute starting a course should be affiliated to the MUHS
2. The department should have been approved by the university LIC for post graduate studies (MD/DCH) with MCI recognition

Specific requirements for the Certificate Course in HIV and AIDS

- The department /institution should be conducting post graduate courses MD/DCH/DNB in all major specialities recognized by MUHS/ National Board.
- A dedicated HIV Clinic with at least 250 cases on regular follow up
- At least 3-5 beds should be available for their admission
- A good laboratory, microbiology and virology support

Faculty should be either a formally trained in Infectious Diseases or Immunology or a post graduate teacher who has been working in the field of HIV for at least 5 years

Visiting faculty eminent in this field should be invited

- (e) **Scheme of Examination** : At the end of the course the fellow will require to write a university exam and evaluation will be by one internal and one external examiner

Theory Exam : 1 papers 100 marks	100
Practical:	50
1 Short Cases 50 marks	
Viva/OSCE	50

Head and Standard of Passing: There will be two heads of passing. Theory shall form one head of passing and clinical, oral and practical taken together shall form second head of passing. Candidate must pass in both the heads of passing at the same attempt.

Standard of Passing: To pass a candidate must obtain minimum 50 % in each head

Guidelines for the Appointment of Examiners:

- 1) There shall be at least 2 examiners i.e. 1 internal examiner and 1 external
- 2) The external examiner should at least 5 years experience in HIV care
- 3) Same set of examiners will be responsible for written, practical
- 4) The external examiners may be appointed for not more than 3 years.
However, he / she may be reappointed after an interval of two years

(f) Admission Norms

Selection: The selection of candidates for the Certificate course should be based on the knowledge, clinical skills, & aptitude which should ideally be assessed through a simple written exam and followed by an interview or an application followed by an interview. Additional weightage should be given to those working with an institution and for publications/research

Eligibility: MD/MS in any clinical discipline

The number of students to be admitted shall be two students per course per recognized post graduate teacher in the unit.

(g) Syllabus: Attached as Appendix A

(h) Fees : As per the fees prescribed by the University from time to time.

(i) Certificate : After the completion of course, the candidate would be awarded a Certificate of completion from the university.

SYLLABUS

Introduction

1. Introduction to retroviruses and history of HIV- AIDS: 1 period
2. Epidemiology of HIV Infection: Global and Indian scenario: 1 period
3. Transmission of HIV infection:1 period

Section III- Retro-virology

4. HIV structure and life cycle: 1 period
5. Pathophysiology, pathogenesis and natural history: 1 period
6. Immune response to HIV Infection: 1 period
7. Genetic variability and viral resistance: 1 period

Section IV – Clinical Retrovirology

8. Classification and staging of HIV Infection: 1 period
9. Acute HIV syndrome: 1 period
10. Chronic HIV Infection: 1 period
11. Opportunistic Infections in HIV Infection- an overview: 1 period
12. Respiratory manifestations: 1 period
13. HIV-TB: 1 period
14. Oropharynx, GI and hepatobiliary manifestations: 1 period
15. HIV HBV co-infection: 0.5 period
16. HIV HCV co-infection: 0.5 period
17. Neurological and psychological manifestations : 1period
18. Musculoskeletal disease in HIV Infection: 1 period
19. Endocrine and metabolic manifestations: 1 period
20. Haematological manifestations: 1 period
21. Ocular manifestations: 0.5 period
22. ENT manifestations: 0.5 period
23. Oral manifestations: 1 period

24. Cardiac manifestations: 1 period
25. Renal and genito-urinary manifestations: 1 period
26. Dermatological manifestations: 1 period
27. Sexually transmitted disease in HIV infection: 1 period
28. Gynaecological disease in HIV infection: 1 period
29. Neoplasms in HIV infection: 1 period
30. Paediatric HIV: 1 period
31. Immune Reconstitution Inflammatory Syndrome (IRIS) : 1 period
32. Disseminated infections and HIV Wasting syndrome: 1 period

Section V – Clinical Evaluation & follow up of the HIV infected

33. Initial clinical evaluation: 1 period
34. Follow up monitoring: 1 period

Section VI – Therapy

35. Antiretroviral Therapy and drug resistance: 2 periods
36. Toxicities of ART: 1 period
37. Drug interactions: 1 period
38. Therapy of OIs and vaccines: 2 periods

Section VII – Prevention

39. HIV and the Health Care Worker: 0.5 period
40. Preventing Transmission of HIV: 0.3 period
41. AIDS and Society: Knowledge, Attitudes, and Behavior: 0.2 period

Section VIII- Laboratory Evaluation

42. HIV testing (RAPID, SIMPLE, ELISA, Western Blot, PCR) : 1 period
43. Laboratory evaluation of a HIV patient (CD4 count, p24 antigen, RNA viral load, drug resistance testing): 1 period
44. Quality control in a HIV laboratory: 0.5 period
45. Pretest and post test counseling, communication: 0.5 period

Section IX – Study tour

46. Community HIV/ART centres in Pune: 02 periods
47. Lab Monitoring follow up of its on ART

Revision and Tests:

Revision and cater for holidays: 1 period

Mid-course test: 1 period

Final test: 2 periods

Teaching scheme: -

- Daily teaching clinical rounds & case discussions,
- Bedside clinics and discussions
- Monthly critical care audit meets, Success cases discussions
- Discussions on mortality/morbidity data
- Monthly statistics of the unit
- Equipment maintenance
- Classroom lecture series
- Guest lectures: One to two national faculty
- Seminars
- Antimicrobial and infection control policies
- Journal reading and advances in therapeutics
- Case presentations: twice a week
- Hands on supervision of procedures

Course materials:

Text books

Harrison's Principles and Practice of Medicine 17th edition

AIDS therapy

John Hopkins Pocket Guide to HIV

Medical management of HIV infection Dr John Barlett 15th edition

DHHS guidelines on HIV/AIDS

WHO GUIDELINES on HIV/AIDS

NACO guidelines on HIV/AIDS

Journals

JAIDS

AIDS RESEARCH AND THERAPY

HIV MEDICINE

ONLINE RESOURCES

www.aids-etc.org

www.aidsinfo.nih.gov

www.aahivm.org/

www.clinicaloptions.com/hiv

<http://hivinsite.ucsf.edu>

<http://www.hivma.org/>

<http://www.iasusa.org>

www.hopkins-aids.edu

www.medscape.com/hiv-aidshome

www.ucsf.edu/hivcntr