

**Maharashtra University of Health Sciences,**

**Nahsik**

# **Syllabus**

**“CERTIFICATE COURSE IN PEDIATRIC  
RESPIRATORY DISORDERS”**

**CERTIFICATE COURSE IN PEDIATRIC RESPIRATORY DISORDERS**

### **Aims & Objectives:**

- To train the Pediatricians & Physicians for early diagnosis and appropriate management of common respiratory disorders
- To train the Pediatricians & Physicians in diagnosis and management of asthma and other allergic disorders
- To train the Pediatricians & Physicians in pulmonary function tests and spirometry

(a) **Duration of the course:** 6 months

(b) **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 Fellowship 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 Pediatric Respiratory Disorders**

- The department/institution should be conducting post graduate courses MD/DCH/DNB in Pediatrics recognized by MUHS/ National Board.
- A dedicated Respiratory Clinic should be conducted at least once a week
- In house PICU facilities required
- Spirometry should be available
- A good laboratory, microbiology and virology support in house

**Faculty** should be either a formally trained in Pediatric Pulmonology or a post graduate teacher who has been working in the field of Pediatric pulmonology for at least 5 years

**Visiting faculty** eminent in this field should be invited

(c) **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 paper 100 marks

**Practical/Viva:** 100

Respiratory Drugs     Antimicrobials     Asthma devices     Xrays/CT Scans

**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
- 2) The examiners should have at least 5 years experience in Pediatric Pulmonology
- 3) Same set of examiners will be responsible for written and practical

**(d) 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 weight age should be given to those working with an institution and for publications/research

**Eligibility:** M.D (Pediatrics)/MD (TB & Chest)/DTC/DCH/DNB

**(e) Syllabus: Attached as Appendix A**

**(f) Fees :** As prescribed by the University from time to time

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

## SYLLABUS

### 4) Complete curriculum of the course:

- a. Approach to a case of respiratory disorder
- b. Clinical Presentation, Diagnosis, Investigations and Management, of the following Pediatric respiratory conditions-
  - Congenital disorders: Congenital lobar emphysema, diaphragmatic hernia, congenital cystic adenomatoid malformation, bronchogenic cyst, duplication cysts, eventration of diaphragm, etc. with their surgical intervention/s. Syndromic associations of various respiratory ailments.
  - Acquired Disorders: Upper respiratory tract disorders, pleural disorders, parenchymal disorders including interstitial lung diseases, & airway disorders
  - Asthma: GINA guidelines, Use of devices, Inhalation therapy, Spirometry, PEF, etc
  - Acute respiratory infections: Upper and lower respiratory infections
  - Suppurative lung disorders: Empyema, Bronchiectasis, Lung abscess.
  - Miscellaneous respiratory disorders: Foreign body aspiration, croup, bronchiolitis, etc.
- c. Diagnostic Methods: Chest radiography, CT chest, Spirometry
- d. Recent advances in diagnostics and treatment of various respiratory disorders
- e. Respiratory drugs and delivery systems
- f. Respiratory vaccines

**5) Teaching scheme : -**

- Indoor Patients' Clinical Rounds: 2 hours of bedside teaching every day from Monday to Saturday to demonstrate clinical cases
- Pediatric Chest Disorders (Out-Patients' Department): Tuesday, Thursday, Friday
- Half day CME in Asthma (4 hours to cover inhalation therapy, GINA guidelines, Spirometry)
- Half day CME (4 hours) in Interesting Radiographs and CT scans
- Half day CME (4 hours) in Respiratory drugs and delivery systems
- Half day CME (4 hours) on antimicrobial use in respiratory disorders
- Half Day CME (4 hours) on chest physiotherapy and pulmonary function tests
- Case discussions: Once a week for 2 hours
- Guest lectures once/ twice a week on respiratory topics
- Exercises for home practice and self reading

**Attendance:** 80% attendance will be a must. Attendance register will be maintained.

**6) Text books and reference books**

- Module book of the course
- Nelson Textbook of Pediatrics
- Kendig's Textbook in Pediatric Chest Diseases
- Asthma & Allergic Rhinitis by Dr Keya Lahiri
- Minimal Access Surgery by Dr S N Oak
- Textbook of Asthma
- Textbook on Allergy & Asthma by Dr W Sheikh
- IAP guidelines for asthma management
- Parent Education Booklets- IAP & Cipla