Being a part of the largest public health programme in India – NTEP – where you can make a difference

Name of Block	Block- II Dept of Pulmonary Medicine	
Name of Elective	NTEP	
Location	New Medical College Hospital – OPD, WARD 11, CASUALTY, MDICU	
	Dr. Sanjeev Nair, Additional Professor, Dr Anitha Thilakan, Associate	
	Professor, Department of Pulmonary Medicine, Government Medical	
Internal Preceptor	College, Thirssur	
	Dr Thomas George P, HOD, Dept of Pulmonary Medicine, Government	
External Preceptor	Medical College, Thirssur 1) Historic aspects of TB control in India and Kerala	
	2) Epidemiology of TB in India and Kerala	
	3) Diagnosis of TB	
	4) Treatment of TB	
	5) Special situations in TB, including childhood TB and MDR TB	
	6) Management of TB Infection	
Learning Objectives	7) Research in NTEP	
	Candidate should know the basics of microbiology, pathology and	
Pre-requisites	pharmacology of Tuberculosis	
No of Students	2	
	Candidates who are likely to benefit from the program include	
	1. Those who wish to learn an ideal mix of clinical medicine with	
	public health	
	2. Those with career aspirations of working for international agencies	
	like WHO, International UNION	
	3. Those who wish to take up further studies outside India – the work	
Who might benefit?	done in this course would further their admission prospects abroad	
	Guidelines on TB from the NTEP Website – www.tbcindia.gov.in	
	Guidelines on TB from WHO website - https://www.who.int/health-	
Learning Resources	topics/tuberculosis#tab=tab 1	
	1) Familiarization with TB epidemiology and TB control / elimination -	
	Seminar presentation and focused group discussion	
	2) Observe and learn TB current TB elimination activities – Interaction with	
	NTEP MO, TB HV and Laboratory technician	
	3) Observe and learn current status of evaluation of respiratory	
	symptomatics – interview 30 patients with cough >2 weeks in the	
	Pulmonary Medicine OP	
	4) Observe and learn vulnerability mapping and prevention – Interview 30	
	patients with "medium to high vulnerability score" in Pulmonary Medicine	
	and General Medicine wards	
	5) Learn data management – Practical exercises on assessing quality of	
	data, program data analysis and data presentation	
	6) Learn and perform operational research – pick up one OR topic of	
	interest and finish a short study based on secondary data analysis	
List of Activities	7) Learn of future career opportunities in WHO and international NGOs –	

	Interviews over telephone with Medical Consultants working with WHO,		
	International UNION, FIND, Government of India.		
	1) Seminars and Focus group Discussions		
	2) OP patients interviewed		
	3) Hospitalised patients interviewed		
	4) Summary of interview of key program staff		
	5) Summary of data management exercises		
Log Book Entries	6) Summary of Operational research performed		
	Log book will be evaluated daily by the preceptor. Short answer MCQ and		
	VivaReport on analysis of program data – assignment		
	Report of short OR		
Assessment	Reflections on future job prospects		
	Participant will gain clinical skills, public health skills, data management		
	skills and analytical thinking		
	One publication on the operational research performed		
Outputs expected	One conference presentation in Students National Conference on research		

OBSTRUCTIVE AIRWAY DISEASE- The commonest yet the trickiest

Name of Block	Block- II Dept of Pulmonary Medicine		
Name of Elective	Obstructive Airway diseases – The commonest yet the trickiest		
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Location	New Medical College Hospital – OPD, WARD 11, CASUALTY, MDICU		
Internal Preceptor	Dr Bindu C G,Associate Professor, Dept of Pulmonary Medicine		
External Preceptor	Dr Thomas George P, HOD, Dept of Pulmonary Medicine		
Learning Objectives	Clinical Diagnosis of OAD		
	2) Assessment – Spirometry, Peak flow meter, Impulse Oscillometry,		
	Blood eosinophil and IgE		
	3) Management of Stable asthma		
	4) Management of Exacerbation of Asthma		
	5) Inhalers- Prescription, how to choose and use		
	6) Uncontrolled asthma with usual medications		
	7) Asthma in special situations		
	8) COPD Defenition, Diagnosis an Management]		
	9) Spirometry		
No of Students in each	2 nos		
elective			
Pre-requisites	Student should know basic respiratory system physiology and examination.		
Learning Resources	Latest GINA guidelines, Learning resources by AAAI- JACI, Spirometry ERS		
	guidelines, NCCP_ICS guidelines, GOLD Guideline, ATS Guidelines on		
	Spirometry		
List of Activities	Familiarization of definition of OAD and guidelines- Seminar		
	presentation and focused group discussion		
	2) Attend a minimum of 30 OPD Obstructive airway disease patients		
	3) Attend a minimum of 20 Casualty Obstructive airway disease		
	patients		
	4) Ward/ICU management of atleast 5 patients		
	5) Reading of spirometry – atleast 20		
	6) Inhaler usage- Demonstration to patients		
	7) Uncontrolled asthma, ABPA- Evaluation		
	8) Asthma in pregnancy and childhood management		
	9) Class survey- Prevalence of Asthma, Allergic rhinitis, COPD risk in		
	your batch		
Portfolio Entries	Short summary of attended patients with OAD- Stable, And in exacerbation-		
	atleast 6/day		
	Evaluation and Treatment flowcharts		
	Spirometry assessment flowcharts		
	Assess the spirometry by patients- paste the results and analyse		
	Difficult to treat asthma cases attended- with short summary of the same		
Log Book Entries	Seminars and Focus group Discussions		
	2) Stable OAD patients attended		
	3) Emergency room asthma attended		
	4) Spirometry evaluation done by the student		

	5) Inhalers demonstration by the student6) Difficult to treat asthma cases attended		
	7) Prevalence study of Asthma and risk of COPD in the student's batch		
Assessment	Log book will be evaluated daily by the preceptor. Case scenario based		
	assessment at the end of posting.		

Elective learning experience in Block II

Name of Block	Block II
Name of Elective	"You learn what you see" Fascinating world of Interventional Pulmonology
Location of hospital lab/research facility	New Medical College hopsital Thrissur
Name of internal preceptor(s)	Dr. MuralyC.P, Dr. Arjun Chandran
Name of external preceptor(s) if applicable	Dr Thomas George,Prof and HOD
Learning objectives of electives	At the end of the electives the learner would be able to 1) Enumerate different anatomical landmarks during bronchoscopy asessed by a video of simulated case with 90% accuracy 2) Describe the indications, contraindications, complications of Flexible bronchoscopy 3) Enumerate the different types of bronchoscopy with compare and contrast 4) Enumerate different diagnostic procedures done during bronchoscopy 5) Enumerate the steps in caring the bronchoscopy 6) Indications and procedure of Thoracoscopy 7) Endobronchial Ultrasound
Number of students that can be accommodated in this elective	2
Prerequisites for elective	Basic knowledge of anatomy of nose, throat, trachea and bronchii
Learning resources for students	 Videos Web based self directed learning
List of activities of student participation	1) Knowing the bronchoscope and accessories 2) Setting up of Endoscopy suite 3) Communicating with the team members 4) Presentation of clinical cases along with radiologic and bronchoscopic findings 5) Hnads on training on a manikin 6) Assisting bronchoscopies EBUS and Thoracoscopic procedures

Portfolio entries required	 Summary of cases seen with bronchoscopic findings . a reflection of learners experience also should be noted. Reflections on the working as a team Major challenges faced during the training
Log book entry required	 Logbook will be verified by the preceptor Atleast 20 bronchoscopies should be seen Atleast 10 cases should be assisted Atleast 5 times should be done on a manikin Assist 2 cases each of EBUS and Thoracoscopy A topic Presentation before the faculty
Assessment	 Simulated video for identification of landmarks OSCE MCQ Short notes
Other comments	