

Course Description	The pediatric pulmonology elective provides experience in multiple aspects of a pediatric pulmonary practice, including outpatient clinics, inpatient consultations, and procedures such as flexible bronchoscopy. Students participate in the clinical management of common pediatric pulmonary diseases including bronchopulmonary dysplasia, asthma, cystic fibrosis, and obstructive sleep apnea. Students will gain exposure to diagnostic tests including pulmonary function testing, allergy skin testing, and overnight polysomnography.
Course Objectives	<ul style="list-style-type: none"> • Discuss aspects of pulmonary physiology including ventilation/perfusion and respiratory mechanics as it relates to common medical problems seen in pediatric pulmonology clinic, including patients with obstructive / restrictive diseases and tracheostomy. • Identify common abnormalities of respiration upon physical examination, including signs of respiratory distress, stridor, wheezing, and crackles • Perform appropriate history and physical exam and develop an appropriate differential diagnosis for patients with pediatric pulmonary problems. • Discuss the natural history and clinical features of chronic pulmonary problems including asthma, cystic fibrosis, chest wall abnormalities and bronchopulmonary dysplasia. • Recognize signs and symptoms of obstructive sleep apnea and describe the diagnosis and management of sleep disordered breathing. • Compare and contrast the appropriate use, risks and benefits of therapeutic interventions including inhaler/medication use, airway clearance techniques, systemic and inhaled corticosteroids, and antibiotics. • Recognize abnormal findings on diagnostic testing including blood gas analysis, chest imaging, flexible bronchoscopy, and overnight polysomnography and utilize to inform next steps in management.
Course Activities	Students in this course will attend pediatric morning report, Grand Rounds, Pediatric Pulmonology and Sleep Medicine team interdisciplinary rounds, as well as CF team meetings. Students are required to give an oral discussion based on a review of the literature pertinent to a clinical case before the completion of the rotation. Students will receive verbal feedback mid-rotation, and a formal, written evaluation upon the completion of the elective.



Course Schedule Requirements	No on-call requirement. Student is present during usual clinical hours (8:00am – 5:00pm, Monday – Friday, excluding holidays as determined by the ECU calendar).
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Duration	2 Weeks	Location	Pediatric Pulmonology Outpatient Clinic/ ECU Pulmonary Sleep Clinic/ Vidant Medical Center
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Designation	Elective	Revised	4.29.2019
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