**Continuing Medical Education:** credits calculated as 60 minutes = 1 credit

**Maximum CME credits available for ATS 2019 = 43.5 (PG Max. = 14.5, Conference Max. = 29)**

*Please Note:* Mini Symposia, Poster Discussion Sessions and Thematic Poster Sessions are not eligible for CME credit

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<tr>
<td>PG1A</td>
<td>7</td>
<td>8:00 AM - 4:00 PM</td>
<td>CRITICAL CARE ULTRASOUND AND ECHOCARDIOGRAPHY I</td>
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<td>PG2</td>
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<td>ECMO FOR EXPERIENCED PROVIDERS</td>
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<td>A RESEARCHER’S GUIDE TO INTEGRATING THE PULMONARY 'OMICSVERSE</td>
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<tr>
<td>PG4</td>
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<td>FUNDAMENTALS OF WRITING SUCCESSFUL MENTORED CLINICAL RESEARCH</td>
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<td>THORACIC IMAGING FOR PULMONARY MEDICINE AND CRITICAL CARE</td>
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<td>INTERSTITIAL LUNG DISEASE: CURRENT TRENDS IN DIAGNOSIS AND</td>
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<td>ADVANCING CARE OF SICKLE CELL LUNG DISEASE: A PRACTICAL GUIDE TO</td>
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<td>PROCEEDINGS FROM THE WORLD SYMPOSIUM 2018: WHAT DO WE NEED TO</td>
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<td>FUNCTIONAL ASSESSMENTS IN LUNG DISEASE: STRENGTH, ACTIVITY AND</td>
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<td>CARDIOMETABOLIC OUTCOMES OF OBSTRUCTIVE SLEEP APNEA TREATMENT:</td>
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<td>PG13</td>
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<td>BRONCH DAY 2019: A COMPREHENSIVE, HANDS-ON GUIDE TO BASIC</td>
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<td>BRONCHOSCOPY, EBUS, AND NAVIGATIONAL BRONCHOSCOPY</td>
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<td>TEACHING AND RESEARCHING IN RESOURCE CONSTRAINED SETTINGS: A GUIDE TO GLOBAL PULMONARY CRITICAL CARE MEDICINE</td>
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<td>RESPIRATORY PHYSIOLOGY OVER THE LIFESPAN: WHEN IT’S RIGHT AND WHEN IT’S NOT</td>
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<td>OPTIMIZING MANAGEMENT OF THE PATIENT WITH SEVERE BRONCHOPULMONARY DYSPLASIA</td>
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<td>LUNG INNATE IMMUNITY: ON THE FRONTLINES OF HOST DEFENSE</td>
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<td>ALL THINGS NTM: A ROAD MAP TO THE DIAGNOSIS AND MANAGEMENT OF NONTUBERCULOUS MYCOBACTERIA</td>
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<td>HIGH-CONTENT SINGLE-CELL TECHNIQUES TO STUDY LUNG IN HEALTH AND DISEASE</td>
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<td>PG24</td>
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<td>PULMONARY FUNCTION TESTING IN THE REAL WORLD: 2019 UPDATES ON THE ART AND SCIENCE OF PFT</td>
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<td>VENTILATORY COMPLICATIONS OF HEART FAILURE</td>
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<td>PEDIATRIC CLINICAL CORE CURRICULUM</td>
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<td>WHEN EXPERTS DISAGREE: THE ART OF MEDICAL DECISION MAKING</td>
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<td>IMPLEMENTATION SCIENCE: HOW CAN IT SUPPORT HEALTH RESEARCH?</td>
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<td>A1</td>
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<td>CLINICAL YEAR IN REVIEW 1</td>
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<td>A3</td>
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<td>WHEN THERE IS NO RIGHT ANSWER: A PRO/CON DEBATE ON CONTROVERSIES IN ILD</td>
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<td>DO I HAVE TO? RE-EVALUATING COMMON PRACTICES IN THE ICU</td>
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<td>CELL FATE DETERMINATION IN THE LUNG IN HEALTH AND DISEASE: LOCATION AND NEIGHBORS MATTER</td>
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<td>PAP FOR ALL OR PAP FOR FEW: CONTROVERSIES IN MANAGEMENT OF SLEEP-DISORDERED BREATHING</td>
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<td>A7</td>
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<td>BREAKING THE PARADIGM: EARLY ORIGINS OF COPD</td>
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<td>NOVEL BIOMARKERS FOR THE DIAGNOSIS, PHENOTYPING, AND MANAGEMENT OF PEDIATRIC LUNG DISEASE</td>
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<td>TREATING ASTHMA IN PATIENTS WITH OBESITY: THE NEED FOR A NEW APPROACH</td>
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<td>CRITICAL CARE 2.0: INTEGRATING BIG DATA, CLINICAL TRIALS, AND IMPLEMENTATION SCIENCE TO CREATE A LEARNING ICU SYSTEM</td>
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<td>A12</td>
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<td>CAREGIVER BURDEN: BIDIRECTIONAL IMPACT OF PULMONARY, CRITICAL CARE, AND SLEEP DISORDERS ON THE ENTIRE FAMILY</td>
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<td>STATE OF THE ART TREATMENT OF TOBACCO DEPENDENCE</td>
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<td>PULMONARY CLINICAL CORE CURRICULUM I</td>
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<td>WS1</td>
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<td>TEACHING IN THE ICU PEARLS AND PITFALLS</td>
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<td>ENHANCING GRANTSMANSHIP: UNDERSTANDING THE GRANT REVIEW PROCESS</td>
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<td>ME1</td>
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<td>HARNESSING THE POWER OF SOCIAL MEDIA AND FREE OPEN ACCESS MEDICAL EDUCATION (#FOAMED): AN INTERACTIVE WORKSHOP FOR MEDICAL EDUCATORS</td>
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<td>THE INFLUENCE OF SEX HORMONES ON ALLERGIC DISEASE AND ASTHMA</td>
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<td>IMMUNE CHECKPOINT INHIBITOR PNEUMONITIS: CASES, QUESTIONS AND CONTROVERSIES</td>
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<td>MP405</td>
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<td>STATISTICAL CHALLENGES IN THE ANALYSIS OF PULMONARY DATA: REAL WORLD EXAMPLES FROM THE DUKE CLINICAL RESEARCH INSTITUTE</td>
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<td>DIAGNOSIS AND TREATMENT OF RAPIDLY PROGRESSIVE INTERSTITIAL LUNG DISEASE</td>
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<td>CANNABIS 2019: PROMISES AND PERILS OF THE GREEN CROSS</td>
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<td>MP409</td>
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<td>FROM PAP TO APP: NUTS AND BOLTS OF PEDIATRIC CPAP</td>
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<td>JAMA AND THE NEW ENGLAND JOURNAL OF MEDICINE. DISCUSSION ON THE EDGE: REPORTS OF RECENTLY PUBLISHED CRITICAL CARE RESEARCH</td>
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<td>MECHANOPHARMACOLOGY OF AIRWAY AND AIRWAY SMOOTH MUSCLE</td>
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<td>KNOWLEDGE GAPS AND PATHWAYS FORWARD IN RV FAILURE RESEARCH: RECOMMENDATIONS FROM AN OFFICIAL ATS RESEARCH STATEMENT ON RV FAILURE</td>
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<td>RETHINKING OXYGEN: GETTING THE RIGHT OXYGEN TO THE RIGHT PATIENT</td>
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<td>ICU-ACQUIRED WEAKNESS: A RAPID-FIRE DISCUSSION OF EMERGING ISSUES AND NEW INSIGHTS</td>
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<td>WHAT YOU CAN'T SEE MIGHT HURT YOU: THE INTERPLAY BETWEEN THE MICROBIOME AND IMMUNITY IN LUNG DISEASE</td>
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<td>HEALTH IMPACTS OF MARIJUANA: STATE OF THE SCIENCE AND FUTURE DIRECTIONS</td>
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<td>SEVERE ASTHMA: BREAKING DOWN THE BASICS OF ADVANCED ASTHMA THERAPIES</td>
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<td>TARGETED THERAPEUTICS IN CYSTIC FIBROSIS</td>
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<td>STATE OF THE ART AND FUTURE “OMIC” APPROACHES TO DETECT LUNG TRANSPLANT REJECTION</td>
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<td>ILD DIAGNOSIS: SURGICAL LUNG BIOPSY, CRYOBIOPSY, AND EMERGING CUTTING-EDGE OPTICAL IMAGING TECHNIQUES</td>
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<td>DIAGNOSIS AND MANAGEMENT OF MASSIVE HEMOPTYSIS</td>
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<td>THE CHANGING LANDSCAPE OF ONCOLOGIC CRITICAL CARE</td>
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<td>2020 VISION: UPDATE ON THE INTERNATIONAL CLASSIFICATION OF PNEUMOCONIOSIS AND DIGITAL CHEST IMAGING</td>
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<td>BEST LAID PLANS: IMPROVING CLINICAL TRIAL QUALITY THROUGH INTERVENTION FIDELITY MONITORING</td>
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<td>THE BUGS THAT SHAPE US: UNDERSTANDING EVIDENCE ON THE EARLY-LIFE RESPIRATORY MICROBIOME</td>
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<td>MACROLIDE-RESISTANT MYCOBACTERIUM AVIUM COMPLEX PULMONARY DISEASE: CURRENT CONCEPTS</td>
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<td>METHODS IN CHARACTERIZING MUCOUS CELL METAPLASIA</td>
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<td>CARDIAC DISEASE AND BETA RECEPTORS IN COPD</td>
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<td>EVALUATION AND MANAGEMENT OF SLEEP-DISORDERED BREATHING IN PREGNANCY</td>
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<td>LUNG CANCER CHEMOPREVENTION: FROM BENCH TO BEDSIDE</td>
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<td>E-CIGARETTES: EPIDEMIOLOGY, TOXICOLOGY, AND WHY THEY SHOULD NOT BE RECOMMENDED FOR SMOKING CESSATION</td>
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<td>DATA SHARING IN THE CONTEXT OF CLINICAL TRIALS</td>
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<td>UNRAVELLING THE MYSTERY OF BREATHLESSNESS IN COPD</td>
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<td>ENDOBRONCHIAL VALVE TREATMENT IN PATIENTS WITH ADVANCED EMPHYSEMA: ITS TIME HAS COME</td>
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<td>KEEPING MY CRITICALLY ILL PATIENT COMFORTABLE, AWAKE, ENGAGED, AND MOVING</td>
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<td>TILL DEATH DO US PART: CELL FATE AND OBSTRUCTIVE LUNG DISEASE</td>
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<td>GLOBAL PERSPECTIVES ON CLIMATE CHANGE: IMPACT ON SUSCEPTIBLE POPULATIONS AND LOW-INCOME COUNTRIES</td>
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<td>ENSURING BROAD DISSEMINATION AND EQUITABLE ACCESS TO LUNG CANCER SCREENING: CHALLENGES AND OPPORTUNITIES</td>
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<td>PEAK INSPIRATORY FLOW RATE TO AID IN SELECTION OF APPROPRIATE INHALER DEVICE</td>
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<td>DIAGNOSTICS AND THERAPEUTIC INTERVENTIONS IN LATENT TB INFECTION IN SPECIAL SETTINGS</td>
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<td>CROSSTALK BETWEEN AIRWAY EPITHELIUM AND TYPE 2 IMMUNITY IN ASTHMA</td>
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<td>CHALLENGES IN CONDUCTING AND INTERPRETING ARDS AND SEPSIS RANDOMIZED CLINICAL TRIALS</td>
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<td>BIG TOBACCO: LAWYERS, GUNS AND MONEY</td>
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<td>HAVE A BIGGER IMPACT! EFFECTIVE STRATEGIES TO UTILIZE YOUR PROFESSIONAL EXPERTISE TO ADVOCATE FOR YOUR PATIENTS AND YOUR COMMUNITIES</td>
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<td>NUDGES, IRRATIONALITY, AND CHOICE ARCHITECTURE: DECISION SCIENCE IN CLINICAL CARE</td>
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<td>HIGH RISK PULMONARY SARCOIDOSIS: EVALUATION, MANAGEMENT AND FUTURE DIRECTIONS</td>
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<td>DIAGNOSING AND MANAGING OCCUPATIONAL ASTHMA: CLASSIC AND NOVEL THREATS</td>
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<td>DIAGNOSING PRIMARY CILIARY DYSKINESIA: APPLYING RESEARCH TO EVERYDAY CLINICAL PRACTICE AND BEYOND</td>
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<td>BRONCHOALVEOLAR LAVAGE IN THE IMMUNOCOMPROMISED HOST: MOVING BEYOND TRADITIONAL DIAGNOSTIC METHODS FOR FUNGAL INFECTION</td>
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<td>EVALUATION OF RESPIRATORY FUNCTION AND SLEEP IN NEUROMUSCULAR DISORDERS: WHY, WHEN, HOW</td>
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<td>THE ROLE OF THE PULMONOLOGIST IN THE DIAGNOSIS AND STAGING OF LUNG CANCER</td>
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<td>WHAT PULMONOLOGISTS NEED TO KNOW ABOUT CANCER IMMUNOTHERAPY</td>
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<td>LIFESPAN WEIGHT MANAGEMENT OF SLEEP DISORDERS: REAL, FEASIBLE OR JUST THEORY?</td>
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<td>MACROPHAGES: LINEAGE, DIVERSITY, AND LUNG DISEASE</td>
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<td>CANCELLED - HEALTH POLICY ADVOCACY 101: EFFECTIVELY INFORM YOUR ELECTED OFFICIALS</td>
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<td>NAVIGATING THE CHALLENGES OF HOME OXYGEN THERAPY FOR COMPLEX SLEEP RELATED RESPIRATORY DISORDERS AND RESPIRATORY FAILURE SYNDROMES</td>
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<td>COMPLEMENT AS A NOVEL TARGET TO MITIGATE LUNG DISEASE</td>
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<td>TRANSLATIONAL DEVELOPMENTS IN TB: TOWARDS IMPROVING PREVENTION AND MANAGEMENT STRATEGIES</td>
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<td>BENCH TO BEDSIDE: HOW DIETARY N3-PUFAS MODULATE THE PULMONARY RESPONSE TO ENVIRONMENTAL EXPOSURES</td>
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<tr>
<td>C91</td>
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<td>IMPROVING CARE QUALITY WHILE REDUCING COST: IS HIGH VALUE CARE FOR COPD ACHIEVABLE?</td>
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<td>C92</td>
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<td>ATS CLINICAL PRACTICE GUIDELINES: CLINICAL PRACTICE ON THE CUTTING EDGE</td>
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**Wednesday, May 22, 2019**

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<th>Time</th>
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<tr>
<td>PCC4</td>
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<td>PEDIATRIC CLINICAL CORE CURRICULUM</td>
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<td>MINDFULNESS FOR OPTIMIZING HEALTH CARE PROFESSIONAL WELL-BEING: REDUCING BURNOUT</td>
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<td>DIAGNOSIS AND MANAGEMENT OF THE ADULT PATIENT WITH BRONCHIECTASIS</td>
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<td>HOW REAL WORLD DATA IS TRANSFORMING CLINICAL RESEARCH</td>
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<td>PROJECT ECHO: EXTENDING BEST MEDICAL PRACTICES FOR IDIOPATHIC PULMONARY FIBROSIS TO UNDERSERVED COMMUNITIES</td>
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<td>THE ROLE OF SEX AND GENDER IN LUNG DISEASE</td>
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<td>CHALLENGING CASES IN CRITICAL CARE ULTRASOUND</td>
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<td>CARBON MONOXIDE POISONING: UNDERLYING MECHANISMS, CURRENT MANAGEMENT AND FUTURE DIRECTIONS</td>
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<td>ANTI-INFLAMMATORIES IN LUNG DISEASE: WHAT WORKS WHERE</td>
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<td>RECOMMENDATIONS FOR THE DESIGN AND ANALYSIS OF HUMAN LUNG MICROBIOME STUDIES</td>
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<td>WHAT SHOULD PULMONOLOGISTS KNOW ABOUT ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING?</td>
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<td>ENVIRONMENTAL EXPOSURES, THE HUMAN MICROBIOME, AND LUNG DISEASE</td>
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<td>METABOLISM AS A LINK BETWEEN LUNG CANCER AND ITS MICROENVIRONMENT</td>
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