
2025 ATS Alpha-1 Related Sessions

Sunday 5/18/2025

Thematic Poster Session: A25 ADVANCES IN INTERVENTIONAL PULMONARY AND PLEURAL DISEASE

5/18/2025 9:15 AM -11:15 AM

Location: Room 3022/3024 (West Building, Level 3) Moscone Center

9:15 AM-11:15 AM

(Poster Board # 1018) Long Term Effectiveness of Bronchoscopic Lung Volume Reduction in COPD Patients with Alpha-1 Antitrypsin

M. J Nicholson, G. J. Criner

Thematic Poster Session: 37 HIGHLIGHTS IN DIFFUSE LUNG AND RARE DISEASES

5/18/2025 9:15 AM -4:15 PM

Location: Area A, Hall F (North Building, Exhibition Level), Moscone Center

11:30 AM-1:15 PM

(Poster Board # P10) Evaluating the Economic Burden: Lifetime Direct and Indirect Costs of Managing Alpha-1 Antitrypsin Deficiency for Patients With the PiZZ Genotype Receiving Augmentation Therapy in the United States

J. Ko, R. A. Babakhani, C. Strange, M. Miravittles, M. L. Brantly, D. Benjumea, Q. V. Doan, F. Cinfio

Thematic Poster Session: A57 LATE BREAKING ABSTRACTS IN CLINICAL PROBLEMS

5/18/2025 9:15 AM -4:15 PM

Location: Area H, Hall F (North Building, Exhibition Level), Moscone Center

11:30 AM-1:15 PM

(Poster Board # 1018) Comparing Long Term Effectiveness of Bronchoscopic Lung Volume Reduction in COPD Patients With and Without Alpha-1 Antitrypsin Deficiency-A Matched Case-Control Study

M. J Nicholson, I. Albaba, O. A. Omari, G. J. Criner

Thematic Poster Session: A59 CASE REPORTS IN OCCUPATIONAL AND ENVIRONMENTAL MEDICINE

5/18/2025 9:15 AM -4:15 PM

Location: Area F, Hall F (North Building, Exhibition Level), Moscone Center

11:30 AM-1:15 PM

(Poster Board # P758) Unusual Inheritance Pattern of Alpha-1 Antitrypsin Deficiency: A Case Report of Four ZZ Phenotype Siblings from MZ Carrier Parents

B. Khoncarly, T. N. Holbrook, S. Demla, L. Srinivasan

Thematic Poster Session: A68 EXPANDING HORIZONS IN PULMONARY REHABILITATION: NOVEL APPLICATIONS, OUTCOMES. AND INNOVATIONS

5/18/2025 9:15 AM -4:15 PM

Location: Area C, Hall F (North Building, Exhibition Level), Moscone Center

11:30 AM-1:15 PM

(Poster Board # P360) Quality of Life Profile and Physical Capabilities of PiZZ Patients with Alpha-1 Antitrypsin Deficiency (AATD) Associated Lung Disease in a Large United States Cohort

N. Nuchovich, A. Keaveny, M. P. Goldklang, R. Plant, J. Illarramendi, L. Fonseca, J. M. D'Armiento

Thematic Poster Session: A71 EPITHELIAL DYSFUNCTION, INFLAMMATION AND CIGARETTE SMOKE: DRIVERS OF COPD AND CF PATHOGENESIS

5/18/2025 9:15 AM -4:15 PM

Location: Area D, Hall F (North Building, Exhibition Level), Moscone Center

11:30 AM-1:15 PM

(Poster Board # P405) Evaluating the Role of Eosinophilia in Alpha-1 Antitrypsin Deficiency

R. Fitzgerald, S. M. Roche, E. Farrell, C. Breathnach, E. J. Leacy, R. C. Heeney, L. P. Kanchi, R. Carroll, T. P. Carroll, M. P. Murphy, G. G. McElvaney

Monday 5/19/2025

Scientific Symposium: *B13 ATS PRESIDENT'S SYMPOSIUM: ALPHA-1 BREAKTHROUGHS: NEW DISCOVERIES IN MECHANISMS, DIAGNOSIS & TREATMENT OF LUNG DISEASE IN ALPHA 1 ANTITRYPSIN DEFICIENCY*

5/19/2025 9:15 AM -10:45 AM

Location: Room 211-212 (South Building, Level 2), Moscone Center

9:15 AM – 9:28 AM

What is the Mechanism of Injury in AATD Lung Disease?

Craig P. Hersh MD, MPH, ATSF, Brigham and Womens Hospital

9:28 AM – 9:40 AM

Monocyte-Endothelial Crosstalk in COPD and AATD

Karina A. Serban MD, University of Florida

9:40 AM – 9:52 AM

Adaptive Immune Dysregulation in AATD Lung Disease

Francesca Polverino MD, PhD, ATSF, Baylor College of Medicine

9:52 AM – 10:05 AM

Targeted Detection and Screening for AATD- Are We Close Yet?

Michael A. Campos MD, University of Miami/Miami Veterans Affairs Medical Center

10:05 AM – 10:19 AM

What Have We Learned from Augmentation Therapy Trials: From 1988-Present

Noel Gerard. McElvaney MD DSc, Beaumont Hospital

10:19 AM – 10:31 AM

Next-Generation Therapies for a Monogenic Lung Disease

Andrew A. Wilson MD, Boston Univ

10:31 AM – 10:45 AM

Clinical Trial Endpoints for AATD, CT Densitometry, and the A1BC

Charlie Strange MD, ATSF, Medical University of South Carolina

Thematic Poster Session: *B34 BREATH-TAKING MECHANISMS IN COPD*

5/19/2025 9:15 AM -4:15 PM

Location: Area A, Hall F (North Building Exhibition Level), Moscone Center

11:30 AM-1:15 PM

(Poster Board # P2) Skewed Adaptive Immune Responses Are Involved in Alpha 1 Antitrypsin Deficiency (AATD) Emphysema

J, J. Rojas-Quintero, S. A. Ochsner, H-S. Lee, A. Colborg, A. R. Waich, I. O. Rosas, N. McKenna, A. A. Wilson, F. Polverino

11:30 AM-1:15 PM

(Poster Board # P8) Sex Hormone Abnormalities Disrupt Circulating Alpha-1 Antitrypsin

E. J. Leacy, T. McDonnell, C. Miller, L. Cussen, O. Cahalane, D. Fraughen, M. P. Murphy, M. Casey, M. W. O'Reilly, M. Sherlock, T. P. Carroll, G. G. McElvaney

11:30 AM-1:15 PM

(Poster Board # P9) Sex Hormone Stimulation of CRISPR-modified HepG2 Cells Alters Alpha-1 Antitrypsin Production

E. J. Leacy, Sarah Lührmann, L. P. Kanchi, A. Schweikert, M. W. O'Reilly, M. Sherlock, G. G. McElvaney

11:30 AM-1:15 PM

(Poster Board # P16) The Impact of MZB1 Protein Expression in Immune and Hepatic Cells in Alpha 1 Antitrypsin Deficiency

D. Gogoi, F. AbuEshShaer, R. Baird, L. Forde, S. Ahmed, M. Niu, E. P. Reeves

Thematic Poster Session: *B42 HOT TOPICS IN COPD, COUGH, SMOKING CESSATION AND VAPING*

5/19/2025 9:15 AM -4:15 PM

Location: Area C, Hall F (North Building Exhibition Level), Moscone Center

11:30 AM-1:15 PM

(Poster Board # P259) Sleep Apnea Among Individuals With Alpha-1 Antitrypsin Deficiency-associated Lung Disease

K. Holm, R. A. Sandhaus, S. Allison, T. Schroth, J. McCathern, C. Strange

11:30 AM-1:15 PM

(Poster Board # P267) The Content Validity of St. George's Respiratory Questionnaire-COPD (SGRQ-C) in Patients with Alpha-1 Antitrypsin Deficiency

J. M. M. Wells, K. Cutts, S. Turkmenoglu, J. Fettiplace, J. M. Parkin, T. Fikre, Y. Han, C. Strange, M. P. Goldklang, P. Jones, H. Gelhorn

Thematic Poster Session: *B48 BRAIN ON THE BRINK: UNRAVELING RARE NEUROLOGICAL CATASTROPHES IN CRITICAL CARE*

5/19/2025 9:15 AM -4:15 PM

Location: Area J, Hall F (North Building Exhibition Level), Moscone Center

11:30 AM-1:15 PM

(Poster Board # P1185) Fulminant Cerebral Edema from Hyperammonemia in Alpha-1-Antitrypsin Deficiency Related Cirrhosis and Adynamic Ileus After Gastrointestinal Bleeding

S. Bhatt, A. Al-Asaad, M. J. Rigby, P. R. Bauer

Thematic Poster Session: B52 HOT TOPICS IN COPD

5/19/2025 9:15 AM -4:15 PM

Location: Area C, Hall F (North Building Exhibition Level), Moscone Center

11:30 AM-1:15 PM

(Poster Board # P303) Evaluation of Longitudinal Lung Function Decline Through Spirometry, CT Imaging and Oscillometry in MZ Alpha-1 Antitrypsin Deficiency Individuals, With Respect to Smoking Status, Reason for Referral, Age, and Gender

C. Breathnach, S. M. Roche, E Farrell, E. Mullen, S. Landers, R. Carroll, R. Heeney, R. Fitzgerald, E. J. Leacy, M. P. Murphy, T. P. Carroll, G. G. McElvaney

11:30 AM-1:15 PM

(Poster Board #P313) Exploring the Impact of Exacerbations in Sever Alpha-1 Antitrypsin Deficiency

R. Carroll, S. M. Roche, E. Farrell, S. Landers, C. Breathnach, A. M. O'Dowd, T. P. Carroll, G. G. McElvaney

11:30 AM-1:15 PM

(Poster Board # P314) Genetic Discrimination in Alpha-1 Antitrypsin Deficiency-An Emerging Barrier to Global Detection Efforts

S. M. Roche, N. AlShareef, R. Carroll, R. C. Heeney, A. M. O'Dowd, M. Kirwan, C. Gunaratnam, T. P. Carroll, G. G. McElvaney

Thematic Poster Session: B57 EXPLORING NOVEL DIAGNOSTICS AND INTERVENTIONS TO IMPROVE LUNG HEALTH

5/19/2025 9:15 AM -4:15 PM

Location: Area A, Hall F (North Building Exhibition Level), Moscone Center

11:30 AM-1:15 PM

(Poster Board # P40) Application of an Artificial Intelligence Model to Detect Alpha-1 Antitrypsin Deficiency: Characterizing the Study Population

J. K. Stoller, N. Khandelwal, V. Esmaeili, C. Blair, M. Kirby, J. Hinson, L. Jehi, J. Shen, M. Beaussart, D. C. Falcón, L. Van Wouwe, U. Hatipoğlu

11:30 AM-1:15 PM

(Poster Board #P41) Application of an Artificial Intelligence Model to Detect Alpha-1 Antitrypsin Deficiency: Model Performance

J. K. Stoller, N. Khandelwal, V. Liakoni, C. Blair, M. Kirby, J. Hinson, L. Jehi, J. Shen, A. Mezine, C. Rudolf, U. Hatipoğlu

11:30 AM-1:15 PM

(Poster Board # P42) Enhancing Early Diagnosis of Alpha 1 Antitrypsin Deficiency Through Genetic Testing: The AlphaID at Home Service

M. Stef, K. Alba, D. del Rio Diaz Jara, T. Ardiles, N. Rapun, O. Devinney

Thematic Poster Session: B76 CLINICAL REPORTS II: UNUSUAL SUSPECTS

5/19/2025 9:15 AM -4:15 PM

Location: Area C, Hall F (North Building Exhibition Level), Moscone Center

11:30 AM-1:15 PM

(Poster Board # P336) A Case of COVID-19 and Community-acquired Pneumonia in Alpha-1 Antitrypsin Deficiency

R. A. Perez, J. Najam, S. Hossain, E. Patten, R. Palmer, I. Majeed, S. A. Bahadur

Tuesday 5/20/2025

Thematic Poster Session: C37 ADVANCING ARDS SCIENCE: FROM THE BENCH TO THE BEDSIDE

5/20/2025 9:15 AM-4:15 PM

Location: Area L, Hall F (North Building Exhibition Level), Moscone Center

11:30 AM-1:15 PM

(Poster Board # P494) Alpha-1 Antitrypsin - A Prognostic Factor in Acute Respiratory Distress Syndrome

O. F. McElvaney, T. P. Carroll, M. Herron, M. Casey, D. Fraughen, O. J. McElvaney, M. P. Murphy, J. Clarke, N. L. McEvoy, S. Walsh, G. Curley, G. G. McElvaney

Thematic Poster Session: C49 WHAT'S NEW IN COPD PHENOTYPING AND MANAGEMENT

5/20/2025 9:15 AM- 4:15 PM

Location: Area G, Hall F (North Building, Exhibition Level), Moscone Center

11:30AM-1:15 PM

(Poster Board # P866) Severe Obesity Is Associated with Poor Health Outcomes in Alpha-1 Antitrypsin Deficiency-associated COPD

R. Choate, K. Holm, R. Sandhaus, D. M. Mannino, C. Strange

11:30AM-1:15 PM

(Poster Board # P867) Initial Characterization of the Alpha-1 Biomarker Consortium

M. P. Goldklang, S. Palumbo, I. Barjaktarevic, S.P. Bhatt, S. Bodduluri, M. Bradley, L. Fonseca, D.K. Hogarth, A. Keaveny, Z. Liu, G. G. McElvaney, O. J. McElvaney, N. Nuchovich, C. S. Pirozzi, R. Plant, R. A. Sandhaus, J. M. Michael, A. A. Wilson, C. Strange, J.M. D'Armiento

11:30AM-1:15 PM

(Poster Board #P868) An Update from the National Alpha-1 Antitrypsin Deficiency Targeted Detection Program

R. Heeney, C. Breathnach, E. Farrell, E. J. Leacy, I. Ferrarotti, M. P. Murphy, R. Fitzgerald, R. Carroll, S. M. Roche, T.P. Carroll, G. G. McElvaney

11:30 AM- 1:15 PM

(Poster Board # P873) Expanding Diagnostic Screening for Alpha-1 Antitrypsin Deficiency: Evaluation of the AlphaID™ Test to Detect Rare SERPINA1 Variants

H. Rey, J. Kim, E. Thiruppathi, R. Cushing, A. Ali, R. Djidotor

11:30 AM- 1:15 PM

(Poster Board # P900) Moderate Deficiency of Alpha-1 Antitrypsin - What's the Risk in SS Compared to MZ AATD?

S. M. Roche, D. Fraughen, R. Fitzgerald, C. Breathnach, E. Farrell, M. Herron, R. Carroll, R. C. Heeney, E. J. Leacy, M. P. Murphy, C. Gunaratnam, T. P. Carroll, G. G. McElvaney

11:30AM-1:15 PM

(Poster Board # P901) Family Screening in Alpha-1 Antitrypsin Deficiency- Is it Enough?

S. M. Roche, D. Fraughen, E. Farrell, M. Herron, C. Breathnach, S. Landers, E. Mullen, R. C. Heeney, R. Carroll, A. M. O'Dowd, R. Fitzgerald, E. J. Leacy, M. P. Murphy, T. P. Carroll, C. Gunaratnam, G. G. McElvaney

11:30 AM-1:15 PM

(Poster Board # P902) Longitudinal Analysis of Alpha-1 Antitrypsin Patients on Augmentation Therapy

S. M. Roche, D. Fraughen, M. Herron, L. Logan, E. Farrell, C. Breathnach, R. Carroll, R. C. Heeney, M. Logan, C. Gunaratnam, T. P. Carroll, G. G. McElvaney

11:30 AM- 1:15 PM

(Poster Board # P903) The ZZ Family Study: A Preliminary Proband Analysis

E. Farrell, T. P. Carroll, S. M. Roche, C. Breathnach, E. Mullen, S. Landers, R. C. Heeney, G. G. McElvaney, E. J. Leacy, R. Fitzgerald

Thematic Poster Session: C52 CASE REPORTS IN COPD

5/20/2025 9:15 AM-4:15 PM

Location: Area L, Hall F (North Building Exhibition Level), Moscone Center

11:30 AM- 1:15 PM

Case Report (Poster Board #P1484) An Unusual Case of Spanish Alpha-1 Antitrypsin Deficiency

M. Dillione, K. Hughes, C. Volk

11:30 AM- 1:15 PM

(Poster Board # P1488) A Case of Severe Precocious Bullous Emphysema in a Young Patient with Normal Alpha-1 Antitrypsin (A1AT) Levels

S. Avula, G. Allen, U.Arora, K.Reddy

Abstract Session: C104 ENVIRONMENTAL AND SOCIAL DETERMINANTS OF LUNG HEALTH AND DISEASE

5/20/2025 2:15 PM -4:15 PM

Location: Room 301-302 (South Building, Level 3), Moscone Center

(Poster Board # 412) The Impact of Regional Air Quality and Social Deprivation Index on Lung Function in Individuals with Alpha-1 Antitrypsin Deficiency in Ireland: Analysis of National Alpha-1 Detection Program, National Alpha-1 Registry, and National Ambient Air Quality Monitoring Network Data

C. Breathnach, S. M. Roche, P. Goodman, R. Foley, T. P. Carroll, N. G., McElvaney

(Poster Board # 417) Analysis of Spatial Access to Alpha 1 Antitrypsin Deficiency Specialty Centers Using Enhanced Two-step Floating Catchment Area Method

K. Cerda, V. Cassidy, L. Riley, M. L. Brantly, J. Lascano

Poster Discussion Session: C109 IMMUNE AND CELLULAR MECHANISMS DRIVING AIRWAY DISEASES: FROM INFLAMMATION TO METABOLISM

5/20/2025 2:15 PM -4:15 PM

Location: Room 213-214 (South Building, Level 2), Moscone Center

(Poster Board # 306) Alpha-1 Antitrypsin (AAT) Polymers Induce Mitochondrial Dysfunction and Altered Metabolism in AAT Deficient Lungs and Precision-Cut Lung Slices (PCLS)

N. Mohammad, J. Lee, M. Magallón, A. Aranyos, W. Bowers, B. Ziani, A. Griffin, R. Sun, K. A. Serban