

CURRICULUM VITAE
Terry Earl Robinson, M.D.
770 Welch Road, Suite 350
Stanford, CA 94304 - 5882

A. Identifying Data

Place of Birth: Los Angeles, California
Ethnicity: Caucasian
Citizenship: United States
California Medical Licensure: G072727

B. Academic History

Education:

University of California, Santa Barbara	B.A.	1971-1975
University of California, Santa Barbara (Teaching credential)		1975-1976
San Diego State University	M.A.	1977-1983
University of California, Los Angeles (Non degree objective- pre-medical coursework)		1983-1985
Brown University Program in Medicine	M.D.	1986-1990

Postgraduate Training:

Lucile Salter Packard Children's Hospital at Stanford Resident in Pediatrics	1990-1993
Division of Pediatric Pulmonology, Stanford University Postdoctoral Fellow	1993-1996

Board Certification:

Board Certified: American Board of Pediatrics (No. 057164)
Board Certified: American Sub-Board of Pediatric Pulmonology (No. 000698)

Other Study and Research Opportunities:

Past

1985-1986

Supervisor and Research Assistant, Clinical Exercise Physiology Laboratory,
Division of Respiratory and Critical Care Physiology and Medicine, Harbor-UCLA
Medical Center

1993-1996

Postdoctoral Research with Divisions of Pediatric Pulmonology and
Pulmonology, Lucile Salter Packard Children's Hospital at Stanford
and Palo Alto Veteran's Administration Hospital

1994-1995

Cystic Fibrosis Foundation Clinical Fellowship; Project Title Inspiratory flow rate and dynamic lung function in cystic fibrosis and chronic obstructive lung diseases; Role: Co-Investigator; P.I: Priscilla S.A. Sarinas, M.D., Pulmonary and Critical Care Medicine, Stanford University Medical Center/VA Palo Alto Health Care System

1996-1997

Research Associate, Divisions of Pediatric Pulmonology, Radiology, and Pediatric Radiology, Stanford University School of Medicine

1997-1998

Cystic Fibrosis Inc., Research Grant; Project Title: High-resolution CT imaging in mild cystic fibrosis pulmonary disease using electron beam computed tomography; Role: Co-Investigator; PI: Richard B. Moss, M.D., Division of Pediatric Pulmonology, Stanford University Medical Center

1997-2003

Cystic Fibrosis HRCT study group, Children's Hospital of Cincinnati, Lucile Salter Packard Children's Hospital at Stanford, Columbus Children's Hospital, and the Cystic Fibrosis Foundation Role: One of three key members of CF HRCT study group developing CT outcome measures in CF research. The group expanded by 2004 to include other centers during CF HRCT Symposium at 17th Annual North American Cystic Fibrosis Conference

1998-2002

Cystic Fibrosis Foundation, Clinical Research Grant; Project Title: Spirometer-gated HRCT as an outcome measure in mild CF; Role: Developed and managed entire project (P.I. 8/1/01)

2003-2004

Children's Health Initiative Research Grant; Project Title: Controlled ventilation CT imaging in infants & young children with chronic lung disease; Role: PI. Developed & managing project.

2003-2004

Children's Health Initiative Research Grant; Project Title: Quantitative pulmonary airway measurements and CT dosimetry determined in a porcine animal model; Role: P.I.

2003-2004

Cystic Fibrosis Foundation, Clinical Research Grant; Project Title: Inspire CF TDN Study: Quantitative air trapping analysis; Role: P.I.

2006-2012

Novartis Pharmaceutical Company & the Cystic Fibrosis Foundation Therapeutic Development Network; Project Title: A two year study to assess the natural history of progressive CF lung disease utilizing controlled volumetric lung CT imaging, pulmonary function measurements, and clinical scores in children with mild CF lung disease. Role: P.I., Additional Research Associate and Data Manager working under my supervision.

2007-2010

NHLBI Grant The Tucson Children's Respiratory Study; Role: Participant member of this research group providing expertise in CT imaging in adulthood.

2009-2012

Child Health Research Program; Project Title: Differentiating outcome measures in early lung disease utilizing controlled ventilation infant CT (CViCT) scanning and infant pulmonary function tests; Role: P.I. 12/01/09 - 07/31/12

Current

2007-2013

Packard Children's Hospital – Auxillary Grant; Project Title: Controlled ventilation CT imaging in infants & young children with chronic lung disease at LPCH; Role: PI. Development & implementation of controlled ventilation infant CT scanning at LPCH. P.I. for project. 10/01/07 - 12/30/13.

2014-2016

Thrasher Foundation; Project Title: An innovative testing strategy for early lung disease surveillance in CF infants; Role: P.I. 02/15/14 - 02/14/17 (Funded)

Cystic Fibrosis Foundation Therapeutics (Ancillary Budget); Project Title: An innovative testing strategy for early lung disease surveillance in CF infants; Role: P.I. 02/15/14 - 02/14/17 (Funded)

C. Current & Developing Collaborations

- 1) Wielputz M, Weinheimer O, Mall M. Heidelberg Imaging Division & Heidelberg CF Center. Collaboration between Heidelberg and Stanford for further development of YACTA software to develop quantitative lobar air trapping & airway measurements
- 2) Galban C. Department of Radiology, Center for Molecular Imaging, University of Michigan. Collaboration between University of Michigan and Stanford for further development of Inspiratory-Expiratory Co-Registration of Lung Imaging, quantitative lobar air trapping, and Parametric Response Mapping of CF Lung Disease
- 3) Nielsen KG, Kongstad T, Green K, et. al. Copenhagen CF Center (Neils Hoiby/Tanja Presler, Kim Nielsen CF Center). Collaboration regarding comparison of CF CT results between Copenhagen CF Center & 2 US CF Centers (Packard Children's Hospital at Stanford & Nationwide Children's Hospital). Additional work in the area of comparing LCI (SF6, & N2 Washout), Scond, Sacin vs Quantitative CT Air Trapping in 30 CF children.

D. Employment History

Academic Appointments

8/1/97-7/31/98

Staff Physician/Research Associate
Division of Pediatric Pulmonology, UCSF Stanford Health Care

8/1/98-8/31/99

Staff Physician

9/1/99-8/31/00

Division of Pediatric Pulmonology, Stanford University Medical Center

9/1/00-1/31/01

Terry E. Robinson, M.D.10/16/2015



2/1/01-1/31/05

Assistant Professor of Pediatrics, Stanford University Medical Center

2/1/05-2/28/09

3/1/09-

Associate Professor of Pediatrics , Stanford University Medical Center

Brief Chronology of Employment

- 1979-1980 Clinical Exercise Physiologist & Cardiac Rehabilitation Leader
Center for Heart and Health Improvement & Outpatient Cardiac
Rehabilitation Department, Daniel Freeman Hospital, Inglewood, California
- 1980-1984 Clinical Exercise Physiologist, Division of Respiratory and Critical Care
Physiology and Medicine, Harbor-UCLA Medical Center, Torrance, California
- 1985 Consultant, Installation and computer programming of exercise lab
Torrance Memorial Hospital, Torrance, California
- 1985-1986 Supervisor, Clinical Exercise Physiology Laboratory, Division of Respiratory and
Critical Care Physiology and Medicine, Harbor-UCLA Medical Center & Torrance
Memorial Hospital Pulmonary Laboratory, Torrance CA

E. Public and Professional

Hospital Committees

2001-2002 Packard Children's Hospital Resident Education Committee.

2005-2007 Medical Specialities Peer Review Committee

Invited Reviewer:

The Journal of Pediatrics

Pediatric Pulmonology

Am J Respir Crit Care Med

European Respiratory Journal

Journal of Cystic Fibrosis

Chest

F. Post-degree honors and awards, including memberships in professional associations and learned societies

Society Membership

American Academy of Pediatrics	1990-1993, 1995-1996
American Thoracic Society	1994-2012
American College of Chest Physicians	1996-1998, 2012
Optical Society of America	1998, 2001
Society for Pediatric Research	2007-2008

Committees/Working Group

ERS/ATS Joint Working Group on Infant and Young Children Pulmonary testing
& CT imaging 2006, 2007

NHLBI NIH Program Project Grant Reviewer -

2007

Terry E. Robinson, M.D. 10/16/2015

Terry E Robinson

Airway Physiology and Pathophysiology in a Porcine CF Model

NHLBI NIH Program Project Grant Reviewer, Special Emphasis Panel for HR-08 -07, SPIROMICS: Radiology Center
SubPopulations and Intermediate Outcome Measure In COPD Study 2008

Member of External Advisory Panel for NHLBI R21 grant
Progression of airway obstruction in childhood asthma 2008-2010
- Part of the NHLBI Childhood Asthma Management Program (CAMP) & CAMP Continuation Studies

Inspire Pharmaceuticals Early Intervention Study Group 2009

Vertex HRCT Advisory Board 2010

CF Website (CFvoice.Com – Sponsored Website by Novartis) 2010
- Teaching Aide for CF Physicians & CF Patients for understanding progression of CF lung disease based on chest CT/HRCT imaging

Intellectual Property

1. Dynamic Respiratory Control (Respiratory Function Valve) 10/14/03
Stanford Docket S97-121. Patent # 6,631,716
2. A Non-Tethered Macro-To-Micro Endoscope 3/22/05
Stanford Docket S99-031PCT. Patent # 6,869,397
3. Automated Air Trapping Algorithm Copyright
Stanford Docket S01-168 Submitted to OTL 2001
Provisional Patent submitted 2/3/04
4. 3D Bronchial Morphology Analysis Package Copyright
Stanford Docket S02-254 Submitted to OTL 2002
{Raghav/Venkatramin/Robinson disclosure to OTL. Stanford holds copyright to the material}
5. Mirror Image Gaussian Fit [MIGF] – A method to Accurately Identify the True Inner and Outer Wall of Hollow Tubular Structures. Copyright
Stanford Docket S05-084. Submitted to OTL 3/2005
6. Quantitative 3D Chest CT Post-Processing Algorithm Copyright (P)
Stanford Docket S13-441. Submitted to OTL 10/2013

G. Bibliography

Peer-reviewed articles (26 Total – 24 published articles, 1 book chapter, additional letter to editor).

- 1) Sarinas PS, **Robinson TE**, Clark AR, Canfield J, Chitkara RK, Fick RB. Inspiratory flow rate and dynamic lung function in cystic fibrosis and chronic obstructive lung diseases. *Chest* 1998; 114:988-92.
- 2) **Robinson TE**, Leung AN, Moss RB, Blankenberg FG, Northway WH. Standardized high-resolution CT of the lung using a spirometer-triggered electron beam CT scanner. *American Journal of Roentgenology* 1999; 172:1636-8.
- 3) **Robinson TE**, Leung AN, Northway WH, Blankenberg FG, Bloch DA, Oehlert JW, Al-Dabbagh H, Hubli S, Moss RB. Spirometer-triggered high resolution CT and pulmonary function measurements during an acute exacerbation in patients with cystic fibrosis. *Journal of Pediatrics* 2001 Apr;138(4):553-9.

- 4) Shaw RJ, **Robinson TE**, Steiner H. Acute stress disorder following ventilation. *Psychosomatics* 2002 Jan-Feb; 43(1):74-76.
- 5) Goris ML, Zhu HJ, Blankenberg FG, Chan F, **Robinson TE**. An automated approach to quantitative air trapping measurements in mild CF lung disease. *Chest* 2003 May; 123:1655-1663.
- 6) Morgan T, Anderson J, Jordan M, Keller K, **Robinson T**, Hintz S. Pulmonary glial heterotopia in a monamniotic twin. *Pediatr Pulmonol* 2003;36:162-166.
- 7) **Robinson TE**, Leung AN, Northway WH, Blankenberg FG, Chan F, Bloch DA, Holmes TH, Moss RB. Composite spirometric-computed tomography outcome measure in early cystic fibrosis lung disease. *Am J Respir Crit Care Med* 2003; 168(5):588-593.
- 8) Bonnel AS, Song SM, Kesavaraju, K, Newaskar M, Bloch DA, Paxton GJ, Moss RB, **Robinson TE**. Quantitative air trapping analysis in children with mild cystic fibrosis pulmonary disease. *Pediatr Pulmonol* 2004;38:396-405.
- 9) **Robinson TE**. High-resolution CT scanning: Potential outcome measure. *Current Opinion in Pulmonary Medicine* (Cystic Fibrosis Section). 2004; 10(6):537-41.
- 10) Groman JD, Karczeski B, Sheridan M, **Robinson TE**, Fallin MD, Cutting GR. Phenotypic and genetic characterization of patients with features of "nonclassic" forms of cystic fibrosis. *J Pediatr* 2005;146(5):675-680.
- 11) **Robinson TE**, Goris ML, Zhu HJ, Chen X, Bhise P, Sathi A, Sheikh F, Moss RB. Changes in quantitative air trapping, pulmonary function, and chest HRCT scores in CF children during a Pulmozyme intervention study. *Chest* 2005 October; 128:2327-2335.
- 12) Brody AS, Tiddens HA, Castile RG, Coxson HO, de Jong PA, Goldin J, Huda W, Long FR, McNitt-Gray M, Rock M, **Robinson TE**, Sagel SD. Computed Tomography in the Evaluation of Cystic Fibrosis Lung Disease. *Am J Respir Crit Care Med*. 2005 Nov 15; 172(10):1246-52.
- 13) Venkatraman R, Raman R, Raman B, Moss RB, Rubin GD, Mather LH, **Robinson TE**. Fully automated system for three-dimensional bronchial morphology analysis using volumetric multi-detector computed tomography of the chest. *J Digit Imaging* 2006 Jun;19(2):132-139.
- 14) **Robinson TE**. Computed tomography scanning techniques for the evaluation of cystic fibrosis lung disease. *Proc Am Thorac Soc*. 2007 Aug; 4:310-315.
- 15) Goris ML, Zhu HJ, **Robinson TE**. A critical discussion of computer analysis in medical imaging. *Proc Am Thorac Soc*. 2007 Aug; 4:347-349.
- 16) Yuan N, El-Sayed YY, Ruoss SJ, Riley E, Enns, GM, **Robinson TE**. Successful pregnancy and cesarean delivery via non-invasive ventilation in mitochondrial myopathy. *J Perinatol* 2009 Feb; 29(2):166-167.
- 17) Goris ML, **Robinson TE**. Sampling density to evaluate quantitative air trapping. *Pediatr Radiol*. 2009 Mar;39(3):221-225.

Terry E. Robinson, M.D.10/16/2015



18) **Robinson TE**, Trapnell BC, Goris ML, Quittell LM, Cornfield DN. Quantitative analysis of longitudinal response to aerosolized GM-CSF in 2 adolescents with autoimmune pulmonary alveolar proteinosis. *Chest* 2009 Mar;135(3):842-848.

19) **Robinson TE**, Long FR, Raman P, Saha P, Emond MJ, Reinhardt J, Raman R, Brody AS. An airway phantom to standardize CT acquisition in multicenter clinical trials. *Academic Radiol* 2009 Sept;16(6):1131-41.

20) **Robinson TE**, Leung A, Chen X, Moss RB, Emond MJ. Cystic fibrosis HRCT scores correlate strongly with pseudomonas infection. *Pediatr Pulmonol* 2009 Nov; 44:1107-1117.

21) Raman P, Newman B, Venkatraman R, Raman R, Raman B, **Robinson TE**. Development and validation of automated 2D-3D bronchial airway matching to track changes in regional bronchial morphology using serial low dose chest CT scans in children with chronic lung disease. *J Digit Imaging* 2010;23(6):744-754.

22) Newman B, Ganguly A, Kim J, **Robinson TE**. Comparison of different methods of calculating CT effective dose in children. *AJR Am J Roentgenol* 2012 Aug;199(2): W232-239.

23) Kongstad T, Lindblad A, Buchvald FF, Green K, **Robinson TE**, Nielsen KG. Improved air trapping evaluation in chest computed tomography in children with CF using real-time spirometric monitoring and biofeedback. *J Cyst Fibros*. 2013;12(6):559-66.

24) Newman B, Krane EJ, Gawande R, Holmes TH, **Robinson TE**. Chest CT in Children: Anesthesia and Atelectasis. *Pediatr Radiol* 2014;44(2): 164-72.

25) Gomez-Cardona D, Nagle SK, Li K, Robinson TE, Chen GH. Influence of radiation dose and reconstruction algorithm in MDCT assessment of airway wall thickness: A phantom study. *Med Phys*. 2015 Oct;42(10):5919. doi: 10.1118/1.4930797.

26) Robinson TE, Goris ML, Moss RB, Holmes TH, Yilma M, McCoy K, Newman B, de Jong PA, Long FR, Brody AS, Behrje R, Yates DP, Cornfield DN. In Children with mild cystic fibrosis, specific radiologic parameters reliably predict deterioration in lung structure and function over 2 years. Submitted to *Thorax*, Oct. 2015.

Invited Reviewer (Book Chapter):

1) **Robinson TE**. *Imaging of the Chest in Cystic Fibrosis*. Cystic Fibrosis. Editor: Laurie Whittaker. *Clin Chest Med* 28 (2007); 405-421, Saunders (An Imprint of Elsevier, Inc., May, 2007).

Letters to the Editor:

1) de Jong PA, Tiddens HA, Lequin MH, **Robinson TE**, Brody AS. Response to: Estimation of the radiation dose from CT in cystic fibrosis. *Chest* 2008 May; 133:1289-1291.

Manuscripts in Progress

27) **Robinson TE**, Prais D, Goris ML, Krane E, Newman B. Early CF lung disease begins in the peripheral airways. Presented at 27th NACFC 10/18/13. In Preparation. *Letter to the Editor J. of CF* (planned submission 12/15/15). Study evaluating 11 CF infants & toddlers comparing Brody II CF CT scoring w/ Quantitative Air trapping vs. Airway Measurements.

- 28) **Robinson TE**, Kongstad T, Green K, Goris ML, Milla C, Cornfield, Nielsen KG. Comparison of LCI (SF6 & N2 Washout), Scand, Sacin vs. Quantitative CT Air Trapping in 63 children with cystic fibrosis. (planned submission to *Pediatr Pulmonol*, 2/15/16).
- 29) **Robinson TE**, McCoy KS, Newman B, Long FL, de Jong P, Brody AS, Behrje R, Yates DP, Goris ML. Comparative Analysis of Clinical Outcome Measures during a 2 Year Natural History Study in CF Children with mild Lung Disease. (Planned submission to *AJRCCM*, *Pediatr Pulmonol*, or *J. of CF*)
- 30) Wielputz MO, Konietzke P, Weinheimer O, Goris ML, Galban C, Cornfield DN, Kauczor HU, Mall M, **Robinson TE**. Lobar Evolution of Cystic Fibrosis Lung Disease on Quantitative CT. (Planned submission to *Thorax* or *AJRCCM*)

Non-peer-reviewed articles (2):

- 1) **Robinson TE**, Moss RB. Chest imaging in cystic fibrosis. *Cystic Fibrosis Commentaries*. Editor: Patrick Flume. An imprint from MedPro Communications, December, 2008.
- 2) **Robinson TE**. Spirometer-Gated, volume controlled, high resolution chest CT imaging utilizing an electron beam CT scanner. *Cardio-Pulmonary Review: SensorMedics, Inc.*, product review article. January, 1998.

Abstracts: 27 of 38

- 1) **Robinson TE**, Goris ML, Zhu JH, Valasani M, Kabanskaya Y, Moss RB. Regional effects of Pulmozyme therapy on air trapping during a 12 month intervention. Seventeenth Annual North American Cystic Fibrosis Conference, October 16-19, 2003, Anaheim, California. *Pediatr Pulmonol 2003, Suppl 25:315*.
- 2) **Robinson TE**, Goris ML, Zhu JH, Chen X, Moss RB. Quantitative air trapping (AT) is associated with mucus plugging (MP), extent and severity of bronchial wall thickness and bronchiectasis (BWTE, BWTS, BE, BS). Seventeenth Annual North American Cystic Fibrosis Conference, October 16-19, 2003, Anaheim, California. *Pediatr Pulmonol 2003, Suppl 25:316*.
- 3) **Robinson TE**, Raman R, Venkatraman R, Desai N, Shah S, Mishra N, Alper A, Sheikh F, Hajra S, Nadgir U, Nandini A, Moss RB. Regional effects of Pulmozyme therapy on quantitative airway measurements: Results of a preliminary pilot study. *Am J Respir Crit Care Med 169(7): A391*, 2004.
- 4) **Robinson T**, Brody AS, Raman R, Venkatraman R, Rubin G, Alper A, Chen X, Dastagir A, Moss R. Protocol optimization for low dose volumetric CT in CF children. Eighteenth Annual North American Cystic Fibrosis Conference, October 14-17, 2004, St. Louis, Missouri. *Pediatr Pulmonol 2004, Suppl 27:337*.
- 5) **Robinson T**, Raman R, Venkatraman R, Alper A, Chen X, Dastagir A, Rubin G, Mathers L. Validation of quantitative 3D segmented airway measurements obtained from volumetric CT datasets. Eighteenth Annual North American Cystic Fibrosis Conference, October 14-17, 2004, St. Louis, Missouri. *Pediatr Pulmonol 2004, Suppl 27:338*.
- 6) Brody AS, **Robinson TE**, Knowles MR, Goris ML, LaVange LM, Engles JM. The use of high-resolution CT in intervention studies of cystic fibrosis. Eighteenth Annual North American Cystic

- 7) **Robinson TE**, Chen X, Moss RB. Chest HRCT scoring better discriminates the effects of bacterial colonization/infection on disease severity in children with mild CF lung disease. 2006 North American CF Conference, November 2-5, 2006 in Denver, Colorado.
- 8) **Robinson TE**, Long FR, Reinhardt J, Van den Haak F, Sandner-Porkristl, D. An airway and lung parenchymal phantom to standardize CT acquisition from different CT scanners during multicenter clinical trials in CF children. 2006 North American CF Conference, November 2-5, 2006 in Denver, Colorado.
- 9) **Robinson TE**, Trapnell BC, Goris ML. Quantitative chest CT imaging during treatment of Idiopathic Pulmonary Alveolar Proteinosis (IPAP) utilizing aerosolized GM-CSF therapy. 2007 American Thoracic Society, May 18-23, 2007 in San Francisco, CA.
- 10) **Robinson TE**, Raman P, Newman B, Waltz DA, Venkatraman R, Raman R, Goris ML. Test-Retest Reproducibility of Quantitative Airway and Air Trapping Indices in Mild Cystic Fibrosis. 2009 North American CF Conference, October 15-17, 2009 in Minneapolis, MN.
- 11) **Robinson TE**, Goris ML, Raman P, Waltz DA, Venkatraman R, Raman R, Newman B. Baseline and 3 Month Follow-Up Quantitative CT Indices During a Cystic Fibrosis (CF) Natural History Study. 2009 North American CF Conference, October 15-17, 2009 in Minneapolis, MN.
- 12) **Robinson TE**, Raman P, Milla CE, Goris ML Lung density and quantitative air trapping in infants/toddlers with cystic fibrosis utilizing controlled ventilation infant CT (CViCT) scanning. 2010 ATS Conference, May 14-19, 2010 in New Orleans, LI.
- 13) **Robinson TE**, Yilma M, Newman B, Waltz DA, Goris ML. Predicting long term outcomes in mild CF lung disease (MCFLD) utilizing early metrics of change at 3 months. 2011 North American CF Conference, November 3-5 in Anaheim, CA.
- 14) **Robinson TE**, Newman B, Krane E, Goris ML. Safety and feasibility of controlled ventilation infant CT scanning using recruitment and scan acquisition techniques. 2011 North American CF Conference, November 3-5 in Anaheim, CA.
- 15) Newman B, Krane E, **Robinson TE**. Chest CT in children – Anesthesia and Atelectasis. 2012 Society of Pediatric Radiology, April 17-20, 2012, San Francisco, CA.
- 16) Yilma M., Goris M, **Robinson T**. The quantitative definition of air trapping depends on the quality of the respiratory maneuver. 2012 American Thoracic Society, May 18-23, 2012, San Francisco, CA.
- 17) **Robinson TE**, Prais D, Yilma M, Goris ML, Krane E, Newman B. Early increased bronchial wall thickness (BWT) and bronchiectasis (B) scores are strongly associated with increased regional air trapping in young CF children. 2012 American Thoracic Society, May 18-23, 2012, San Francisco, CA.
- 18) **Robinson TE**, Tu CJ, Yilma M, Prais D, Goris ML, Krane E, Newman B. Increased bronchial wall thickness (BWT) and bronchiectasis (B) scores are strongly associated with increased quantitative regional air trapping in young children with early CF lung disease. 2013 Packard Children's Hospital Fourth Annual Pediatric Research Retreat, April 26, 2013, Stanford, CA.
- 19) **Robinson TE**, Tu CJ, Yilma M, Prais D, Goris ML, Krane E, Newman B. Increased bronchial wall thickness (BWT) and bronchiectasis (B) scores are strongly associated with increased quantitative

regional air trapping in young children with early CF lung disease. 27th NACFC, Oct 18, 2013, Salt Lake City, UT

- 20) **Robinson TE**, Ziyeh T, Tu C, Yilma M, Krane E, Newman B. Quantitative central airway measurements do not demonstrate progression of bronchiectasis in older children with mild CF lung disease. 28th NACFC, Oct 10, 2014, Atlanta, GA.
- 21) **Robinson TE**, Ziyeh T, Tu C, Yilma M, Krane E, Newman B. Comparison of quantitative airway measurements by two software algorithms in older children with mild CF lung disease. 28th NACFC, Oct 10, 2014, Atlanta, GA.
- 22) Weinheimer O, Wielpütz MO, Konietzke P, Heussel CP, Kauczor HU, Galban C, **Robinson TE**. Evaluation of a new fully automated lobe segmentation algorithm on inspiratory and expiratory MDCT scans over 4 time-points. European Congress of Radiology, Mar 3rd, 2016, in Europe – Vienna, Austria.
- 23) Konietzke P, Weinheimer O, Wielpütz MO, Heussel CP, Kauczor HU, Galban, **Robinson TE**. Comparison of manual vs. fully automated lobe-based quantification of air-trapping on paired inspiratory-expiratory MDCT in school age children with CF. European Congress of Radiology, Mar 3rd, 2016, in Europe – Vienna, Austria.
- 24) Cohen E, Savage D, Cohen A, **Robinson TE**. CT Volume Acquisition & Comparison of Quantitative CT Airway Measurements in CF and normal infant/Toddler Children. American Thoracic Society, May 13-18, 2016, San Francisco, CA
- 25) Savage D, Weinheimer O, Wielpütz MO, Ziyeh T, Christin T, Newman B, **Robinson TE**. Comparison of Quantitative Airway Measurements by 3 CT Algorithms in Children with Mild CF Lung Disease. American Thoracic Society, May 13-18, 2016, San Francisco, CA
- 26) Wielpütz MO, Weinheimer O, Savage D, Cornfield DN, **Robinson TE**. Lobar Evolution of CF Lung Disease in 16 Children with Mild Cystic Fibrosis Over a Two-Year Period. American Thoracic Society, May 13-18, 2016, San Francisco, CA
- 27) Nielsen KG, Kongstad T, Green K, Robinson TE. Comparison of Lung Clearance Index & Quantitative CT Air Trapping in Infant/Toddler/Preschool Children vs. School Age Children with Cystic Fibrosis. American Thoracic Society, May 13-18, 2016, San Francisco, CA

Invited Presentations: 22 of 32

- 1) **Robinson TE**. Stridor and Upper Airway Obstruction. Packard Children's Hospital Pediatric Resident Summer Lecture Series, July 15, 2002. Stanford, CA.
- 2) **Robinson TE**. Composite CT/PFT Score: An outcome measure which markedly improves sensitivity to change in early cystic fibrosis lung disease. Insights into CF Lung Disease, Sixteenth Annual North American Cystic Fibrosis Conference, October 5, 2002, New Orleans, LI.
- 3) **Robinson TE**. Composite CT/PFT scoring and quantitative CT measurements - A shift in the paradigm of assessment of early CF lung disease. Cystic Fibrosis Foundation Williamsburg Conference, June 2, 2003, Williamsburg, VA.

4) Brody AS, Tiddens H, **Robinson TE**, Long FR, Castile RG, deJong P, Coxson H, Huda W, McNitt-Gray M, Goldin J. Special Interest Group Meeting on CT Scanning in CF, Seventeenth Annual North American Cystic Fibrosis Conference, October 17, 2003.

5) **Robinson TE**. Clinical utility of spirometric CT Imaging in children with cystic fibrosis. Invited Lecture, Combined Pediatric & Radiology Conference, Columbus Children's Hospital, February 13, 2004, Columbus, Ohio.

6) **Robinson TE**. Moderator for CT Imaging of CF Lungs for Rise 'n Shine Roundtable and Midday Roundtable sessions for 18th Annual North American Cystic Fibrosis Conference, October 14-18, 2004, St. Louis, Missouri.

7) **Robinson TE**. Clinical utility of spirometric CT imaging in children and adults with cystic fibrosis. Respiratory Seminar Series, St. Paul's Hospital, November 3, 2004, Vancouver, British Columbia.

8) **Robinson TE**. Novartis natural history of progressive CF lung disease utilizing controlled volumetric CT imaging, pulmonary function measurements, and clinical scores in children with mild CF lung disease. CF Foundation Therapeutic Development Network Spring Conference Meeting, April 14th, 2005, Seattle, Washington.

9) **Robinson TE**. Radiology: HRCT, CXR Scores (Brasfield, Wisconsin). Cystic Fibrosis Foundation Williamsburg Conference, June 7, 2005, Williamsburg, VA.

10) **Robinson TE**. Scanning Protocols: Patient Preparation, Lung Volume Control. Imaging Endpoints for Cystic Fibrosis Clinical Trials Workshop – Cystic Fibrosis Sponsored Conference September 7, 2005. Dulles, VA.

11) **Robinson TE**. Critical assessment of CT imaging in CF research and clinical practice. Lecture for Pediatric Pulmonology Division, John Hopkins University Medical Center, Baltimore, Maryland, March 14th, 2006.

12) **Robinson TE**. Early intervention in CF care: A paradigm shift. Genentech New York City Lecture. March 14th, 2006.

13) **Robinson TE**. Early intervention in CF care: A paradigm shift. Genentech Talk at 20th Annual North American Cystic Fibrosis Conference, November 2, 2006, Denver, Colorado. New York City Lecture.

14) **Robinson TE**. Moderator for CT Imaging of CF Lungs for Rise 'n Shine Roundtable and Midday Roundtable sessions for 20th Annual North American Cystic Fibrosis Conference, November 4, 2006, Denver, Colorado.

15) **Robinson TE**. Participant for 'Preventing Respiratory Sequelae in Children diagnosed with Cystic Fibrosis by Newborn Screening,' European Respiratory Society, February 12-13, 2007, Leuven, Belgium.

16) **Robinson TE**. Early intervention in CF care: A paradigm shift. Childrens Hospital at Westmead, March 23, 2007, Sydney, Australia.

17) **Robinson TE**. Assessment of early lung disease in cystic fibrosis. TSANZ/ANZSRS 2007 Annual Conference, March 27, 2007, Auckland, New Zealand.

18) **Robinson TE.** Infant lung function and controlled ventilation infant CT scanning – Breakfast session. TSANZ/ANZSRS 2007 Annual Conference, March 28, 2007, Auckland, New Zealand.

19) **Robinson TE.** Use of spiral CT as an outcome measure in CF lung disease. TSANZ/ANZSRS 2007 Annual Conference, March 28, 2007, Auckland, New Zealand.

20) **Robinson TE.** SS114 - Sunrise Seminar on Pulmonary Chest Imaging. ATS International Conference, May 21, 2007, San Francisco, CA.

21) **Robinson TE.** Use and interpretation of different radiology techniques in assessing pulmonary status in patients with cystic fibrosis. Short Course: Pulmonary Pathophysiology & Pharmacology for Advanced Practice Nurses. 21st Annual North American Cystic Fibrosis Conference, October 3, 2007, Anaheim, CA.

22) **Robinson TE.** Early increased bronchial wall thickness (BWT) and bronchiectasis (B) scores are strongly associated with increased regional air trapping in young CF children. Mini Symposium, D16 - Cystic Fibrosis: Biomarkers, Outcome Measures, and Pathogenesis, 2012 American Thoracic Society, May 23, 2012, San Francisco, CA.