



## Lane Donnelly

Professor of Radiology and of Pediatrics at the Lucile Salter Packard Children's Hospital

Radiology - Pediatric Radiology

 NIH Biosketch available Online

### CLINICAL OFFICES

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### Bio

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#### BIO

Lane F. Donnelly MD is currently Chief Quality Officer and Christopher G. Dawes Endowed Director of Quality at Lucile Packard Children's Hospital and Stanford Children's Health. He is also a Professor of Radiology and Pediatrics and the Associate Dean, Maternal and Child Health (Quality and Safety) in the School of Medicine at Stanford University. He also serves as the Co-Executive Director of Stanford Medicine Center for Improvement.

Dr. Donnelly has been an NIH funded researcher, has published 278 peer review manuscripts that have been cited over 10,000 times and has authored multiple textbooks, including *Pediatric Imaging: The Fundamentals*, a lead selling text book on pediatric imaging. Many improvement projects for which he was a contributor have received multiple national recognitions including International Quality Radiology Network's Quality-Improvement in Radiology Practices Paper Competition: Annual Award 2008 (Paper of the Year); Caffey Award – for Outstanding Presented Paper, Society for Pediatric Radiology (2001, 2009, 2011); 2012 British Medical Association Book Awards; Singleton–Taybi Award for Lifetime Achievements in Education, Society for Pediatric Radiology (2009); Journal of the American College of Radiology 2018 Paper of the Year Award; and the 2009 Best Scientific Paper Award - Institute for Healthcare Improvement (IHI) and the RSNA Honored Educator Award (2019). Dr. Donnelly has served on the Board of Trustees for both the American Board of Radiology and the Society for Pediatric Radiology.

Former Leadership positions include Radiologist-in-Chief and Frederic N. Silverman Chair of Pediatric Radiology as well as Executive Cabinet member at Cincinnati Children's Hospital Medical Center (2002-2011); Inaugural Chief Medical Officer / Physician-in-Chief at the Nemours Children's Hospital (helping plan, staff, and open the greenfield hospital in 2012) and Enterprise Vice President as well as Enterprise Radiologist-in-Chief for the Nemours Foundation (2011-2015); and Chief Quality Officer for Hospital Based Services at Texas Children's Hospital (2015-2017). He was educated at The Ohio State University and the University of Cincinnati College of Medicine.

#### CLINICAL FOCUS

- Diagnostic Radiology

#### ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Radiology - Pediatric Radiology
- Professor - Med Center Line, Pediatrics - Operations

## ADMINISTRATIVE APPOINTMENTS

- Associate Dean, Maternal and Child Health (Quality and Safety), Stanford University School of Medicine, (2018- present)
- Christopher G. Dawes Endowed Director of Quality, Lucile Packard Children's Hospital / Stanford Children's Health, (2018- present)
- Chief Quality Officer, Lucile Packard Children's Hospital at Stanford, (2017- present)
- Professor, Stanford University School of Medicine, (2017- present)

## PROFESSIONAL EDUCATION

- Board Certification: Diagnostic Radiology, American Board of Radiology (1994)
- Board Certification: Pediatric Radiology, American Board of Radiology (1996)
- Fellowship: Cincinnati Children's Hospital Medical Center (1995) OH
- Residency: University of Cincinnati College of Medicine (1994) OH
- Medical Education: University of Cincinnati College of Medicine (1990) OH
- Pediatric Radiology, Cincinnati Children's Hospital Medical Center , Pediatric Radiology (1995)
- Radiology, University of Cincinnati , Radiology (1994)
- MD, University of Cincinnati College of Medicine , Medicine (1990)
- BS, Ohio State University , Biology (1986)

## Publications

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### PUBLICATIONS

- **Optimizing Professional Practice Evaluation to Enable a Nonpunitive Learning Health System Approach to Peer Review.** *Pediatric quality & safety*  
Sandborg, C. I., Hartman, G. E., Su, F., Williams, G., Teufe, B., Wixson, N., Larson, D. B., Donnelly, L. F.  
2021; 6 (1): e375
- **Transitioning From Peer Review to Peer Learning: Report of the 2020 Peer Learning Summit.** *Journal of the American College of Radiology : JACR*  
Larson, D. B., Broder, J. C., Bhargavan-Chatfield, M., Donnelly, L. F., Kadom, N., Khorasani, R., Sharpe, R. E., Pahade, J. K., Moriarity, A. K., Tan, N., Siewert, B., Kruskal, J. B.  
2020
- **Reduction of Central Line-associated Bloodstream Infection Through Focus on the Mesosystem: Standardization, Data, and Accountability.** *Pediatric quality & safety*  
Mathew, R., Simms, A., Wood, M., Taylor, K., Ferrari, S., Rhein, M., Margallo, D., Bain, L. C., Valencia, A. K., Bargmann-Losche, J., Donnelly, L. F., Lee, G. M.  
2020; 5 (2): e272
- **Key Drivers in Reducing Hospital-acquired Pressure Injury at a Quaternary Children's Hospital.** *Pediatric quality & safety*  
Johnson, A. K., Kruger, J. F., Ferrari, S., Weisse, M. B., Hamilton, M., Loh, L., Chapman, A. M., Taylor, K., Bargmann-Losche, J., Donnelly, L. F.  
2020; 5 (2): e289
- **Differences in Central Line-Associated Bloodstream Infection Rates Based on the Criteria Used to Count Central Line Days.** *JAMA*  
Scheinker, D., Ward, A., Shin, A. Y., Lee, G. M., Mathew, R., Donnelly, L. F.  
2020; 323 (2): 183–85
- **Book Review: Imaging in Pediatric Pulmonology, 2nd Edition. Robert H. Cleveland, Edward Y. Lee - Editors.** *Pediatric pulmonology*  
Donnelly, L. F.  
2020
- **Innovations for improving the patient experience in pediatric radiology.** *Pediatric radiology*  
Donnelly, L. F.  
2020; 50 (11): 1481
- **The approach to improving patient experience at children's hospitals: a primer for pediatric radiologists.** *Pediatric radiology*  
Bomher, S. T., Munguia, J. M., Albert, M. S., Nelson, K. W., Bargmann-Losche, J., Platchek, T. S., Donnelly, L. F.

2020; 50 (11): 1482–91

- **Practical Application of the International Neuroblastoma Risk Group Staging System: A Pictorial Review** *CURRENT PROBLEMS IN DIAGNOSTIC RADIOLOGY*  
Braojos, F., Donnelly, L. F.  
2019; 48 (5): 509–18
- **Review of learning opportunity rates: correlation with radiologist assignment, patient type and exam priority.** *Pediatric radiology*  
Sammer, M. B., Sammer, M. D., Donnelly, L. F.  
2019
- **Janet L. Strife, MD (1942-2019).** *Pediatric radiology*  
Donnelly, L. F., Coley, B. D., Koch, B. L.  
2019
- **The American Board of Radiology B. Leonard Holman Research Pathway to Initial Certification: Opportunities Lost for Diagnostic Radiology** *AMERICAN JOURNAL OF ROENTGENOLOGY*  
Wallner, P. E., Alektiar, K. M., Donnelly, L. F., Kaufman, J. A.  
2019; 212 (2): 245–47
- **Efficient Auditing of Standardized Reporting in Radiology Reply** *JOURNAL OF THE AMERICAN COLLEGE OF RADIOLOGY*  
Guimaraes, C. V., Grzeczczuk, R., Bisset, G. S., Donnelly, L. F.  
2019; 16 (1): 6–7
- **Creating a Defined Process to Improve the Timeliness of Serious Safety Event Determination and Root Cause Analysis.** *Pediatric quality & safety*  
Donnelly, L. F., Palangyo, T., Bargmann-Losche, J., Rogers, K., Wood, M., Shin, A. Y.  
2019; 4 (5): e200
- **Author's Reply.** *Journal of the American College of Radiology : JACR*  
Guimaraes, C. V., Grzeczczuk, R., Bisset, G. S., Donnelly, L. F.  
2019; 16 (1): 6–7
- **Gauging potential risk for patients in pediatric radiology by review of over 2,000 incident reports** *PEDIATRIC RADIOLOGY*  
Snyder, E. J., Zhang, W., Jasmin, K., Thankachan, S., Donnelly, L. F.  
2018; 48 (13): 1867–74
- **Impact on Quality When Pediatric Urgent Care Centers Are Staffed With Radiology Technologists** *JOURNAL OF THE AMERICAN COLLEGE OF RADIOLOGY*  
Kan, J., Orth, R. C., Yen, T. A., Schallert, E. K., Zhang, W., Donnelly, L. F.  
2018; 15 (12): 1717–22
- **The American Board of Radiology B. Leonard Holman Research Pathway to Initial Certification: Opportunities Lost for Diagnostic Radiology.** *AJR. American journal of roentgenology*  
Wallner, P. E., Alektiar, K. M., Donnelly, L. F., Kaufman, J. A.  
2018: 1–3
- **Using a Natural Language Processing and Machine Learning Algorithm Program to Analyze Inter-Radiologist Report Style Variation and Compare Variation Between Radiologists When Using Highly Structured Versus More Free Text Reporting.** *Current problems in diagnostic radiology*  
Donnelly, L. F., Grzeczczuk, R., Guimaraes, C. V., Zhang, W., Bisset Iii, G. S.  
2018
- **Radiographic appearance and clinical significance of fidget spinner ingestions** *PEDIATRIC RADIOLOGY*  
Sammer, M. K., Kan, J., Sammer, M. D., Donnelly, L. F.  
2018; 48 (11): 1584–92
- **Optimizing Performance by Preventing Disruptive Behavior in Radiology.** *Radiographics : a review publication of the Radiological Society of North America, Inc*  
Willis, M. H., Friedman, E. M., Donnelly, L. F.  
2018; 38 (6): 1639–50
- **Costs of Quality and Safety in Radiology.** *Radiographics : a review publication of the Radiological Society of North America, Inc*

Donnelly, L. F., Lee, G. M., Sharek, P. J.  
2018; 38 (6): 1682–87

● **Costs of Quality and Safety in Radiology** *RADIOGRAPHICS*

Donnelly, L. F., Lee, G. M., Sharek, P. J.  
2018; 38 (6): 1682–87

● **Practical Application of the International Neuroblastoma Risk Group Staging System: A Pictorial Review.** *Current problems in diagnostic radiology*

Del Campo Braojos, F., Donnelly, L. F.  
2018

● **Magnetic resonance imaging of obstructive sleep apnea in children** *PEDIATRIC RADIOLOGY*

Fleck, R. J., Shott, S. R., Mahmoud, M., Ishman, S. L., Amin, R. S., Donnelly, L. F.  
2018; 48 (9): 1223–33

● **Practical Suggestions on How to Move From Peer Review to Peer Learning** *AMERICAN JOURNAL OF ROENTGENOLOGY*

Donnelly, L. F., Larson, D. B., Heller, R. E., Kruskal, J. B.  
2018; 210 (3): 578–82

● **Comparison Between Manual Auditing and a Natural Language Process With Machine Learning Algorithm to Evaluate Faculty Use of Standardized Reports in Radiology** *JOURNAL OF THE AMERICAN COLLEGE OF RADIOLOGY*

Guimaraes, C. V., Grzeszczuk, R., Bisset, G. S., Donnelly, L. F.  
2018; 15 (3): 550–53

● **The Daily Operational Brief: Fostering Daily Readiness, Care Coordination, and Problem-Solving Accountability in a Large Pediatric Health Care System** *JOINT COMMISSION JOURNAL ON QUALITY AND PATIENT SAFETY*

Donnelly, L. F., Basta, K. C., Dykes, A. M., Zhang, W., Shook, J. E.  
2018; 44 (1): 43–51