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## Education:

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
University of Kansas Lawrence, KS	B.A.	1975	Philosophy
University of Kansas Medical School Lawrence, KS	M.D.	1978	Medicine
Children's Mercy Hospital Kansas City, MO		1978-1981	Pediatric Residency
Baylor College of Medicine Houston, TX		1982 – 1984	Pediatric Rheumatology Fellowship
University of Texas School of Public Health Houston, TX	M.P.H.	1982 – 1984	Biostatistics/Study Design

## Positions and Honors:

1991– present Member, Pediatric Rheumatology Collaborative Study Group  
1996– present Chairman, Pediatric Rheumatology Collaborative Study Group  
2000– present Professor of Pediatrics, University of Cincinnati Medical Center  
2001– present Steering Committee, Childhood Arthritis & Rheumatology Research Alliance (CARRA)  
2004– present Chairman, Juvenile Idiopathic Arthritis Research Committee, CARRA.  
2002 – 2008 Associate Director, Division of Rheumatology, Cincinnati Children's Hospital Medical Center  
2008 – 2010 Interim Director, Division of Rheumatology, Cincinnati Children's Hospital Medical Center  
2010- present Associate Director, Division of Rheumatology, Cincinnati Children's Hospital Medical Center  
2012- present Clinical Director, Division of Rheumatology, Cincinnati Children's Hospital Medical Center

## Honors and Other Professional Activities:

1988 Founding member of Pediatric Rheumatology Section, American College of Rheumatology  
1990 National Volunteer Service Citation, Arthritis Foundation  
1994 National Arthritis Foundation's Clifford M. Clarke Science Award  
2003 Recipient of the Joseph Levinson Endowed Chair in Pediatric Rheumatology  
2007 Distinguished Investigator Award, American College of Rheumatology  
2007 Innovative Educator Award, American College of Rheumatology

## **Contributions to Science:**

**1. Clinical Outcome Measure Development and Validation.** Throughout my career I have been involved in the development and validation of measurement tools for Juvenile Idiopathic Arthritis (JIA). In the past, clinical trials used a large number of unvalidated measures in interventional clinical trials in JIA. The measures varied greatly from study to study and the results reported. In a research project funded by the Arthritis Foundation, Edward Giannini and I developed the Core Set Measures for Juvenile Arthritis. The goal was that these 6 thoroughly validated measures for the comprehensive assessment of treatment impact would be included in all trials in JIA. This Core Set for Juvenile Arthritis was then used to develop a dichotomous Definition of Improvement (DOI) that has been adopted by the American College of Rheumatology (ACR) and the FDA. This Core Set and DOI have been used in all JIA interventional studies internationally since 1999. In addition, I revised and validated the "Childhood Myositis Assessment Scale" (CMAS) for use in children with inflammatory muscle disease to quantitate muscle strength and endurance. The CMAS was adopted as one of the Core Set Measures for Juvenile Dermatomyositis.

Ruperto N, Ravelli A, Pistorio A, Ferriani V, Calvo I, Ganser G, Brunner J, Dannecker G, Silva CA, Stanevicha V, Cate RT, van Suijlekom-Smit LW, Voygiyoka O, Fischbach M, Foeldvari I, Hilario O, Modesto C, Saurenmann RK, Sauvain MJ, Scheibel I, Sommelet D, Tambic-Bukovac L, Barcellona R, Brik R, Ehl S, Jovanovic M, Rovensky J, Bagnasco F, Lovell DJ, Martini A; Paediatric Rheumatology International Trials Organisation (PRINTO); Pediatric Rheumatology Collaborative Study Group (PRCSG). The provisional Paediatric Rheumatology International Trials Organisation/American College of Rheumatology/European League Against Rheumatism Disease activity core set for the evaluation of response to therapy in juvenile dermatomyositis: a prospective validation study. *Arthritis Rheum.* 2008 Jan 15;59(1):4-13. doi: 10.1002/art.23248. PubMed PMID: 18163404.

Lovell DJ, Lindsley CB, Rennebohm RM, Ballinger SH, Bowyer SL, Giannini EH, Hicks JE, Levinson JE, Mier R, Pachman LM, Passo MH, Perez MD, Reed AM, Schikler KN, Smith M, Zemel LS, Rider LG. Development of validated disease activity and damage indices for the juvenile idiopathic inflammatory myopathies. II. The Childhood Myositis Assessment Scale (CMAS): a quantitative tool for the evaluation of muscle function. The Juvenile Dermatomyositis Disease Activity Collaborative Study Group. *Arthritis Rheum.* 1999 Oct;42(10):2213-9. PubMed PMID: 10524696.

Giannini EH, Ruperto N, Ravelli A, Lovell DJ, Felson DT, Martini A. Preliminary definition of improvement in juvenile arthritis. *Arthritis Rheum.* 1997 Jul;40(7):1202-9. PubMed PMID: 9214419.

Ruperto N, Ravelli A, Murray KJ, Lovell DJ, Andersson-Gare B, Feldman BM, Garay S, Kuis W, Machado C, Pachman L, Prieur AM, Rider LG, Silverman E, Tsitsami E, Woo P, Giannini EH, Martini A; Paediatric Rheumatology International Trials Organization (PRINTO); Pediatric Rheumatology Collaborative Study Group (PRCSG). Preliminary core sets of measures for disease activity and damage assessment in juvenile systemic lupus erythematosus and juvenile dermatomyositis. *Rheumatology (Oxford).* 2003 Dec;42(12):1452-9. Epub 2003 Jun 27. Review. PubMed PMID:12832713.

**2. Trial Design and Performance.** Through my role as chairperson of the Pediatric Rheumatology Collaborative Study Group (PRCSG) for over 20 years I have been centrally involved in the design and performance of all the biologic trials in JIA. The PRCSG is a network of over 90 pediatric rheumatology centers in North America and this group has been responsible for performing almost all of the pharmaceutical sponsored clinical trials in JIA in

North America since its inception over 40 years ago. As the PRCSG Chairman I was involved in assisting in protocol development, study design, site initiation, study performance, data analysis and publication development. For the publications, the majority of the time I was either first or senior author. These trials have led to the FDA approval for numerous biologic treatments for JIA and these treatments in turn have revolutionized the outcomes for children with JIA. I was also involved in the design and performance of the NIH funded TREAT JIA trial. This investigator initiated trial addressed the efficacy of aggressive combination therapy in the treatment Polyarticular JIA soon after disease onset. This trial provided the quantitative data to identify a "window of opportunity" in the treatment of JIA and this trial has also significantly impacted the way Polyarticular JIA is treated.

Wallace CA, Giannini EH, Spalding SJ, Hashkes PJ, O'Neil KM, Zeff AS, Szer IS, Ringold S, Brunner HI, Schanberg LE, Sundel RP, Milojevic DS, Punaro MG, Chira P, Gottlieb BS, Higgins GC, Ilowite NT, Kimura Y, Johnson A, Huang B, Lovell DJ; Childhood Arthritis and Rheumatology Research Alliance (CARRA). Clinically inactive disease in a cohort of children with new-onset polyarticular juvenile idiopathic arthritis treated with early aggressive therapy: time to achievement, total duration, and predictors. *J Rheumatol*. 2014 Jun;41(6):1163-70. doi:10.3899/jrheum.131503. Epub 2014 May 1. PubMed PMID: 24786928.

Lovell DJ, Giannini EH, Reiff AO, Kimura Y, Li S, Hashkes PJ, Wallace CA, Onel KB, Foell D, Wu R, Biedermann S, Hamilton JD, Radin AR. Long-term safety and efficacy of riloncept in patients with systemic juvenile idiopathic arthritis. *Arthritis Rheum*. 2013 Sep;65(9):2486-96. doi: 10.1002/art.38042. PubMed PMID: 23754188.

Ruperto N, Brunner HI, Quartier P, Constantin T, Wulffraat N, Horneff G, Brik R, McCann L, Kasapcopur O, Rutkowska-Sak L, Schneider R, Berkun Y, Calvo I, Erguven M, Goffin L, Hofer M, Kallinich T, Oliveira SK, Uziel Y, Viola S, Nistala K, Wouters C, Cimaz R, Ferrandiz MA, Flato B, Gamir ML, Kone-Paut I, Grom A, Magnusson B, Ozen S, Sztajn bok F, Lheritier K, Abrams K, Kim D, Martini A, Lovell DJ; PRINTO; PRCSG. Two randomized trials of canakinumab in systemic juvenile idiopathic arthritis. *N Engl J Med*. 2012 Dec 20;367(25):2396-406. doi:10.1056/NEJMoa1205099. PubMed PMID: 23252526.

Wallace CA, Giannini EH, Spalding SJ, Hashkes PJ, O'Neil KM, Zeff AS, Szer IS, Ringold S, Brunner HI, Schanberg LE, Sundel RP, Milojevic D, Punaro MG, Chira P, Gottlieb BS, Higgins GC, Ilowite NT, Kimura Y, Hamilton S, Johnson A, Huang B, Lovell DJ; Childhood Arthritis and Rheumatology Research Alliance. Trial of early aggressive therapy in polyarticular juvenile idiopathic arthritis. *Arthritis Rheum*. 2012 Jun;64(6):2012-21. doi: 10.1002/art.34343. Epub 2011 Dec 19. PubMed PMID: 22183975; PubMed Central PMCID: PMC3319524.

Brunner HI, Ruperto N, Zuber Z, Keane C, Harari O, Kenwright A, Lu P, Cuttica R, Keltsev V, Xavier RM, Calvo I, Nikishina I, Rubio-Pérez N, Alexeeva E, Chasnyk V, Horneff G, Opoka-Winiarska V, Quartier P, Silva CA, Silverman E, Spindler A, Baildam E, Gámir ML, Martin A, Rietschel C, Siri D, Smolewska E, Lovell D, Martini A, De Benedetti F; for the Paediatric Rheumatology International Trials Organisation (PRINTO) and the Pediatric Rheumatology Collaborative Study Group (PRCSG). Efficacy and safety of tocilizumab in patients with polyarticular-course juvenile idiopathic arthritis: results from a phase 3, randomized, double-blind withdrawal trial. *Ann Rheum Dis*. 2014 May 16. pii: annrheumdis-2014-205351. doi:10.1136/annrheumdis-2014-205351. [Epub ahead of print] PubMed PMID: 24834925.

De Benedetti F, Brunner HI, Ruperto N, Kenwright A, Wright S, Calvo I, Cuttica R, Ravelli A, Schneider R, Woo P, Wouters C, Xavier R, Zemel L, Baildam E, Burgos-Vargas R, Dolezalova P, Garay SM, Merino R, Joos R, Grom A, Wulffraat N, Zuber Z, Zulian F, Lovell D, Martini A; PRINTO; PRCSG. Randomized trial of tocilizumab in systemic juvenile idiopathic arthritis. *N Engl J Med*. 2012 Dec 20;367(25):2385-95. doi: 10.1056/NEJMoa1112802. Erratum in: *N Engl J Med*. 2015 Feb 26;372(9):887. PubMed PMID: 23252525.

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1. Taylor J, Giannini EH, Lovell DJ, Huang B, Morgan E. Lack of Concordance in Inter-Rater Scoring of the Provider's Global Assessment of Children with Juvenile Idiopathic Arthritis with Low Disease Activity. *Arthritis Care Res (Hoboken)*. 2017 Jan 24. doi: 10.1002/acr.23203. [Epub ahead of print] PubMed PMID: 28118522.
2. Brachat AH, Grom AA, Wulffraat N, Brunner HI, Quartier P, Brik R, McCann L, Ozdogan H, Rutkowska-Sak L, Schneider R, Gerloni V, Harel L, Terreri M, Houghton K, Joos R, Kingsbury D, Lopez-Benitez JM, Bek S, Schumacher M, Valentin MA, Gram H, Abrams K, Martini A, Lovell DJ, Nirmala NR, Ruperto N; Pediatric Rheumatology International Trials Organization (PRINTO) and the Pediatric Rheumatology Collaborative Study Group (PRCSG).. Early changes in gene expression and inflammatory proteins in systemic juvenile idiopathic arthritis patients on canakinumab therapy. *Arthritis Res Ther*. 2017 Jan 23;19(1):13. doi: 10.1186/s13075-016-1212-x. PubMed PMID: 28115015; PubMed Central PMCID: PMC5260050.
3. Hinks A, Bowes J, Cobb J, Ainsworth HC, Marion MC, Comeau ME, Sudman M, Han B; Juvenile Arthritis Consortium for Immunochip., Becker ML, Bohnsack JF, de Bakker PI, Haas JP, Hazen M, Lovell DJ, Nigrovic PA, Nordal E, Punnaro M, Rosenberg AM, Rygg M, Smith SL, Wise CA, Videm V, Wedderburn LR, Yarwood A, Yeung RS, Prahalad S, Langefeld CD, Raychaudhuri S, Thompson SD, Thomson W. Fine-mapping the MHC locus in juvenile idiopathic arthritis (JIA) reveals genetic heterogeneity corresponding to distinct adult inflammatory arthritic diseases. *Ann Rheum Dis*. 2016 Dec 20. pii: annrheumdis-2016-210025. doi: 10.1136/annrheumdis-2016-210025. [Epub ahead of print] PubMed PMID: 27998952.
4. Spreafico R, Rossetti M, Whitaker JW, Wang W, Lovell DJ, Albani S. Epipolymorphisms associated with the clinical outcome of autoimmune arthritis affect CD4+ T cell activation pathways. *Proc Natl Acad Sci U S A*. 2016 Nov 29;113(48):13845-13850. PubMed PMID: 27849614; PubMed Central PMCID: PMC5137722.
5. Lipstein EA, Lovell DJ, Denson LA, Kim SC, Spencer C, Ittenbach RF, Britto MT. High Levels of Decisional Conflict and Decision Regret When Making Decisions About Biologics. *J Pediatr Gastroenterol Nutr*. 2016 Dec;63(6):e176-e181. PubMed PMID: 27749390; PubMed Central PMCID: PMC5123667.
6. Lipstein EA, Lovell DJ, Denson LA, Kim SC, Spencer C, Britto MT. Parents' information needs and influential factors when making decisions about TNF- $\alpha$  inhibitors. *Pediatr Rheumatol Online J*. 2016 Sep 15;14(1):53. doi: 10.1186/s12969-016-0113-5. PubMed PMID: 27641835; PubMed Central PMCID: PMC5024421.
7. Rossetti M, Spreafico R, Consolaro A, Leong JY, Chua C, Massa M, Saidin S, Magni-Manzoni S, Arkachaisri T, Wallace CA, Gattorno M, Martini A, Lovell DJ, Albani S. TCR repertoire sequencing identifies synovial Treg cell clonotypes in the bloodstream during active inflammation in human arthritis. *Ann Rheum Dis*. 2017 Feb;76(2):435-441. doi: 10.1136/annrheumdis-2015-208992. PubMed PMID: 27311837; PubMed Central PMCID: PMC5284348.
8. Schulert GS, Fall N, Harley JB, Shen N, Lovell DJ, Thornton S, Grom AA. Monocyte MicroRNA Expression in Active Systemic Juvenile Idiopathic Arthritis Implicates MicroRNA-125a-5p in Polarized Monocyte Phenotypes. *Arthritis Rheumatol*. 2016 Sep;68(9):2300-13. doi: 10.1002/art.39694. PubMed PMID: 27014994; PubMed Central PMCID: PMC5001902.

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10. Ravelli A, Minoia F, Davi S, Horne A, Bovis F, Pistorio A, Aricò M, Avcin T, Behrens EM, De Benedetti F, Filipovic A, Grom AA, Henter JI, Ilowite NT, Jordan MB, Khubchandani R, Kitoh T, Lehmsberg K, Lovell DJ, Miettunen P, Nichols KE, Ozen S, Pachlopnik Schmid J, Ramanan AV, Russo R, Schneider R, Sterba G, Uziel Y, Wallace C, Wouters C, Wulffraat N, Demirkaya E, Brunner HI, Martini A, Ruperto N, Cron RQ. Expert consensus on dynamics of laboratory tests for diagnosis of macrophage activation syndrome complicating systemic juvenile idiopathic arthritis. *RMD Open*. 2016 Jan 19;2(1):e000161. doi: 10.1136/rmdopen-2015-000161. PubMed PMID: 26848401; PubMed Central PMCID: PMC4731834.
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Pediatric Rheumatology Collaborative Study Group. Catch-up growth during tocilizumab therapy for systemic juvenile idiopathic arthritis: results from a phase III trial. *Arthritis Rheumatol.* 2015. Mar;67(3):840-8. doi: 10.1002/art.38984. PubMed PMID: 25504861.

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**Research Support:**

**CURRENT**

P01AR048929 Thompson, PI 09/01/2011 - 08/31/2016

NIH/NIAMS

Project #2 (Lovell, D, PI)

Pathobiology of Monomyelocytoid Signature in Systemic Juvenile Idiopathic Arthritis and Macrophage Activation Syndrome

The main goal of this project is to characterize phenotype of hemophagocytic histiocytes and identify cytokines that drive their differentiation in patients with macrophage activation syndrome in systemic juvenile idiopathic arthritis.

Role: Co-I and Project Director

P30AR047363

Thompson, PI

08/28/2011-06/30/2016

NIH/NIAMS

Administrative Core

Cincinnati Rheumatic Disease Core Center

Role: Co-Investigator

IM101-301-0008

Lovell

07/24/2013-07/23/2016

Bristol -Myers Squibb (Clinical Trial Agreement)

A Phase 3 Multi-Center, Open-Label Study to Evaluate Pharmacokinetics, Efficacy and Safety of Abatacept Administered Subcutaneously (SC) in Children and Adolescents with Active Polyarticular Juvenile Idiopathic Arthritis (pJIA) and Inadequate Response (IR) to biologic or non-biologic Disease Modifying Anti-rheumatic Drugs (DMARDs)

WA28118

Lovell

07/18/2013-07/17/2016

Genentech, Inc. (Clinical Trial Agreement)

A Phase Ib Open Label Multi-Center Study to Investigate Pharmacokinetics, Pharmacodynamics, and Safety of Tocilizumab Following Subcutaneous Administration in Patients with Systemic Juvenile Idiopathic Arthritis.

**RECENT**

P60AR47784

Lovell

08/18/2008-07/31/2015

NIH/NIAMS

Multidisciplinary Clinical Research Centers

The major goal of this project is improving the understanding of the manifestations, pathogenic mechanisms of the manifestations, outcomes and predictive biomarkers of pediatric rheumatic diseases with a focus on Juvenile Idiopathic Arthritis (JIA) and childhood onset Systemic Lupus Erythematosus (cSLE).

Role: PI and Grant Program Director

ACZ885G2301-2301E1

Lovell

03/10/2009-06/30/2015

Novartis Pharmaceuticals (Clinical Trial Agreement)

A randomized, double-blind, placebo controlled, withdrawal study of flare prevention of canakinumab (ACZ885) in patients with Systemic Juvenile Idiopathic Arthritis (sJIA) and active systemic manifestations.

WA29231

Lovell

09/15/2014-09/14/2015

Genentech, Inc. (Clinical Trial Agreement)

Long-Term Extension Study to Evaluate the Safety and Efficacy of Subcutaneous Tocilizumab in Patients with Polyarticular-Course and Systemic Juvenile Idiopathic Arthritis.

WA28117

Lovell

07/18/2012-07/17/2015

Genentech, Inc. (Clinical Trial Agreement)

An Phase Ib Open Label Multi-Center Study to Investigate Pharmacokinetics, Pharmacodynamics, and Safety of Tocilizumab Following Subcutaneous Administration in Patients with Polyarticular-Course Juvenile Idiopathic Arthritis.