

STANFORD UNIVERSITY - SCHOOL OF MEDICINE

Curriculum Vitae

January 2020

Mary Beth Leonard, M.D., M.S.C.E.

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Stanford, California 94305-5208

Education:

1980-1984 B.A. Northwestern University (Chemistry)
1984-1989 M.D. Stanford University
1995-1998 M.S. University of Pennsylvania (Clinical Epidemiology)

Postgraduate Training and Fellowship Appointments:

1989-1992 Resident in Pediatrics, Children's Hospital of Philadelphia
1992-1995 Fellowship, Pediatric Nephrology, Children's Hospital of Philadelphia
1995-1997 Research Fellowship, Pediatric Nutrition, Children's Hospital of Philadelphia

Citizenship: U.S.A.

Military Service: None

Faculty Appointments:

1997-2006 Assistant Professor of Pediatrics, University of Pennsylvania School of Medicine
1998-2006 Assistant Professor of Epidemiology (secondary), Department of Biostatistics and Epidemiology, University of Pennsylvania School of Medicine
2006-2012 Associate Professor of Pediatrics (with Tenure), University of Pennsylvania School of Medicine
2006-2012 Associate Professor of Epidemiology (secondary), Department of Biostatistics and Epidemiology, University of Pennsylvania School of Medicine
2012-2014 Professor of Pediatrics (with Tenure), University of Pennsylvania School of Medicine
2012-2014 Professor of Epidemiology (secondary), Department of Biostatistics and Epidemiology, University of Pennsylvania School of Medicine
2014- Professor of Pediatrics (with Tenure) and Medicine (secondary), Stanford University School of Medicine
2015-2016 Associate Dean, Maternal and Child Health Research
2016- Arline and Pete Harman Professor and Chair, Department of Pediatrics

Hospital and Administrative Appointments:

2001-2003 Program Director, Pediatric Nephrology Fellowship, Children's Hospital of Philadelphia
2007-2014 Director of Research, Division of Nephrology, Children's Hospital of Philadelphia
2010-2014 Director, Office of Clinical and Translational Research, Children's Hospital of Philadelphia

Mary Leonard, M.D., M.S.C.E

2014- Co-Leader, Spectrum Child Health, Stanford University
2015- Co-Director (Clinical Research), Stanford Child Health Research Institute
2015- Member, Lucile Packard Children's Hospital Executive Committee
2015- Member, Lucile Packard Children's Hospital Board of Directors Research Committee
2016- Chairman of Pediatrics, Stanford University
2016- Adalyn Jay Physician-in-Chief, Lucile Packard Children's Hospital Stanford
2016- Director, Maternal and Child Health Research Institute at Stanford, Stanford University

Other Appointments:

1998-2014 Senior Scholar, Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania School of Medicine
1998-2014 Member, Graduate Group in Epidemiology and Biostatistics, Biomedical Graduate Studies Program, University of Pennsylvania School of Medicine

Specialty Certification:

1992 American Board of Pediatrics
1997 Pediatric Nephrology (recertified 2014)
2001 American College of Epidemiology

Licensure: California

Awards, Honors and Membership in Honorary Societies:

1983 Evanston Hospital Research Fellowship
1983 Northwestern University Guild Scholarship for Outstanding Women
1984 Phi Beta Kappa
1984 Lewis S. Sarrett Award for Academic Achievement in Chemistry
1993 Teaching Fellow of the Year Award, Children's Hospital of Philadelphia
1994 National Kidney Foundation Research Fellowship
1999 Young Investigator Award, American Society of Transplantation
2003- Society for Pediatric Research
2007 Children's Hospital of Philadelphia Faculty Mentor Award
2008- American Society of Clinical Investigation
2017 Alpha Omega Alpha Medical Honor Society
2017- American Pediatric Society
2018- YMCA Tribute to Women Award

Memberships in Professional and Scientific Societies and Other Professional Activities:

International:

1996- International Pediatric Nephrology Association
2000- International Bone and Mineral Society
2006- International Society of Clinical Densitometry
2006-2008 Co-Chair, Steering Committee of the International Society of Clinical Densitometry Pediatric Position Development Conference
2013-2014 Co-Chair, Steering Committee of the International Society of Clinical Densitometry Pediatric Position Development Conference

Mary Leonard, M.D., M.S.C.E

- 2013- 2017 Co-Chair, Kidney Disease Improving Global Outcomes (KDIGO) Controversies Conference in Chronic Kidney Disease Mineral and Bone Disorder
2019- Member, International Pediatric Nephrology Association Council

National:

- 1996- American Academy of Pediatrics
1997- American Society of Bone and Mineral Research
1997- American Society of Pediatric Nephrology
1998-2003 American Society of Pediatric Nephrology Program Directors/Workforce Committee
1998- American Society of Nephrology
2000-2002 Lunar Corporation Pediatric Densitometry Working Group
2000-2002 American Society of Nephrology Government Relations Ad-hoc Working Group
2000-2007 United States Renal Data System External Advisory Committee
2000- Society for Epidemiologic Research
2000- American College of Epidemiology
2001-2003 Data and Safety Monitoring Board, Early Surfactant Replacement Study, Vermont Oxford Neonatology Research Network, Ross Laboratories
2001-2004 National Kidney Foundation Kidney Disease Outcomes Quality Initiative Bone Disease Pediatric Working Group
2001-2006 National Institutes of Health Epidemiology of Chronic Disease (EDC-3) Study Section, ad hoc member
2002-2005 American Academy of Pediatrics Executive Committee of the Section on Nephrology
2002-2005 American Society of Bone Mineral Research Working Group on Chronic Pediatric Diseases and their Effects on Bone
2002-2006 Data and Safety Monitoring Board Double-Blind Controlled Trial of Alendronate for the Treatment of Childhood and Adolescent Glucocorticoid-Induced Osteopenia and Osteoporosis, Glazer Pediatric Research Network
2003 American Society of Nephrology Annual Meeting Abstract Reviewer
2003-2004 Data and Safety Monitoring Board (Chair), Pirfenidone: A Novel Anti-Scarring Therapy for Diabetics Nephropathy, NIDDK
2003- Society for Pediatric Research
2004 Pediatric Academic Societies Annual Meeting Abstract Reviewer
2004 National Institutes of Health (NIDDK) Special Emphasis Panel Study Section, Hyperaccelerated Award / Mechanisms in Immunomodulation Trials
2004 National Institutes of Health (NIDDK) Special Emphasis Panel Study Section, Research Grants for Clinical Studies of Kidney Diseases
2004- Chronic Renal Insufficiency Cohort Steering Committee (NIDDK)
2004- American Society of Pediatric Nephrology Research Committee
2004-2007 National Kidney Foundation Scientific Advisory Board
2005 Bone and Growth Task Force, Crohn's and Colitis Foundation of America
2005-2009 American Society of Pediatric Nephrology Career Mentoring Task Force
2005-2008 American Society of Bone Mineral Research Advocacy Committee
2006-2007 American Society of Bone and Mineral Research Member Needs Assessment Task Force
2007 American Society of Bone and Mineral Research Nomination Committee
2007 National Institutes of Health Skeletal Biology Development and Disease Study Section, ad hoc member

Mary Leonard, M.D., M.S.C.E

2007 National Institutes of Health Rare Disease Clinical Research Network Pilot Project Program reviewer

2007- Advisory Committee, NIAMS U01 "Ultra-high Resolution pQCT as a Biomarker of Bone Strength in Osteoporosis Trials."

2007-2011 North American Society of Pediatric Gastroenterology, Hepatology and Nutrition Pediatric Skeletal Health Committee

2007- American Society of Bone and Mineral Research Annual Meeting Abstract Reviewer

2008 National Institutes of Health Community Interventions and Health Behaviors Study Section, ad hoc member

2008 ASBMR Bridge Funding Research Award Review Committee

2008 National Institutes of Health - Health of the Population Member Conflict Special Emphasis Panel, ad hoc member

2008-09 National Institutes of Health Neurologic, Aging, and Musculoskeletal Epidemiology Study Section, ad hoc member

2008 National Institutes of Health Special Emphasis Panel, Study of Osteoporotic Fractures Clinical Centers, ad hoc member

2008 Society of Pediatric Research Nominating Committee

2008 Research Centers in Minority Institutions Translational Research Network Study Section Member

2008 Intramural NIH NIDCR Clinical Protocol Application Reviewer

2008- American Society of Clinical Investigation

2009 Chair, NIH NIDDK Special Emphasis Panel Study Section

2009 Member, NIH NIDDK U34 Study Section

2009-2012 Co-Chair, Research Committee, American Society of Pediatric Nephrology

2009-2014 Member, Council of the American Society of Pediatric Nephrology

2010 Chair, NIH NIDDK Special Emphasis Panel Study Section

2010 Member, NIH Study Section for Pediatric Loan Repayment applications

2010- Member, Amgen Prolia Scientific Methodological Advisory Committee

2011-2014 Member, American Society of Nephrology Research Advocacy Committee

2011-2014 Member, CTSA Consortium Child Health Oversight Committee (CC-CHOC)

2011-2014 Chair, CC-CHOC Lifecourse Research Committee

2012-2014 Co-Chair, Pediatric Nephrology Therapeutics Development Committee

2013 Member, Centers for Medicare and Medicaid Services Technical Expert Panel

2013- Member, American Society of Bone and Mineral Research Osteoporosis Career Development Awards Study Section

2013 Chair, NIH NIDDK R03 Study Section

2013- Member, NIDDK CKD Pilot Trials Data Safety and Monitoring Board

2013-2014 Participant, American Medical School Pediatric Department Chair Pediatric Leadership Development Program

2015 Reviewer, American Society of Bone and Mineral Research Grant in Aid Program

2015 Member, NIDDK Special Emphasis Panel Study Section

2016- ASBMR representative to a joint IOF-ASBMR Working Group on HR-pQCT

2016- Member, Association of Medical School Pediatric Department Chairs (AMSPDC)

2017- AMPSDC Clinical Care Committee

2018- Member, National Kidney Foundation CKD in Children Working Group

Local:

1998-2000 Pediatric Subcommittee, End Stage Renal Disease Network #4

Mary Leonard, M.D., M.S.C.E

1998-2002 Council of Pediatric Nephrology (National Kidney Foundation New York/New Jersey)

Editorial Positions:

2004-2007 Member, Editorial Board, Journal of Bone and Mineral Research
2005-2008 Member, Editorial Board, Clinical Journal of the American Society of Nephrology
2005-2009 Member, Editorial Board, Journal of Pediatrics
2007-2013 Associate Editor, Journal of the American Society of Nephrology
2013-2018 Associate Editor, Journal of Bone and Mineral Research

Invited Reviewer:

New England Journal of Medicine, JAMA, Journal of Bone and Mineral Research, Bone, Osteoporosis International, Journal of Pediatrics, Pediatric Nephrology, Journal of Clinical Densitometry, Kidney International, Peritoneal Dialysis International, Journal of the American Society of Nephrology, Journal of Clinical Endocrinology and Metabolism, Nephrology Dialysis and Transplantation, American Journal of Nephrology

Academic and Institutional Committees:

1990 Search Committee, Associate Chairman and Residency Director, Department of Pediatrics, Children's Hospital of Philadelphia
1992-1995 Fellowship Committee, Children's Hospital of Philadelphia
1998 Medical School Admissions Interviewer Panel, University of Pennsylvania
1998-2000 Intern Selection Committee, Children's Hospital of Philadelphia
1998-2014 Department of Biostatistics and Epidemiology Curriculum Committee, University of Pennsylvania (Interim Chair 2005-2006)
2000-2014 Department of Biostatistics and Epidemiology Faculty Appointments Committee, University of Pennsylvania (Chair, effective 2009-)
2000-2003 General Clinical Research Center Advisory Committee, Children's Hospital of Philadelphia
2000-2001 Patient and Family Satisfaction Survey Committee, Children's Hospital of Philadelphia
2001 Research Subject Recruitment Committee, Children's Hospital of Philadelphia
2000-2003 Institutional Review Board, Children's Hospital of Philadelphia
2002 Search Committee, Director, General Clinical Research Center, Children's Hospital of Philadelphia
2002-2003 Research IT Strategic Planning Task Force, Joseph Stokes Jr. Research Institute
2004-2005 Proposal Preparation, Submission and Award Management Committee, Joseph Stokes Jr. Research Institute
2006-2014 Nephrology Faculty Recruitment Committee, Department of Medicine, University of Pennsylvania
2006-2014 Epidemiology Faculty Recruitment Committee, Department of Biostatistics and Epidemiology, University of Pennsylvania
2007-2014 Chair, Faculty Appointment Committee, Department of Biostatistics and Epidemiology, University of Pennsylvania
2006-2009 Search Committee, Chief, Division of Nephrology, Department of Medicine, University of Pennsylvania
2006-2006-2010 Founding Member, University of Pennsylvania Center for Musculoskeletal Disorders Clinical and Translational Research Center Advisory Council (Co-chair, 2008-2010)

Mary Leonard, M.D., M.S.C.E

2006-2014 Clinical Epidemiology Unit Executive Committee, Department of Biostatistics and Epidemiology, University of Pennsylvania
2006-2008 Program Committee, Stokes Annual Research Symposium
2007 Chair, Pediatric Endocrinology Division Chief Search Committee, CHOP
2007-2010 Chair, Clinical and Translational Research Center Budget Committee, CHOP
2007-2014 Member, University of Pennsylvania Rheumatology T32 Training Grant Executive Committee
2008-09 Member, Stokes Intranet Redesign Governance Committee, Joseph Stokes Jr. Research Institute
2008-2014 Member, Bridge Funding Committee, CHOP
2008-2014 Member, Faculty Advisory Committee on Compliance, CHOP
2010-2013 Member, University of Pennsylvania Medical Student Research Paper Prize Review Committee
2010 Member, University of Pennsylvania Institute of Aging Pilot Grant Review Committee
2011-2014 Member, Department of Pediatrics Research Advising Committee
2012-2014 Member, Children's Hospital of Philadelphia Pediatric Endocrinology T32 Training Grant Executive Committee
2012-2014 Member, University of Pennsylvania Department of Pediatrics Committee on Appointments and Promotions, University of Pennsylvania
2013-2014 Chair, Children's Hospital of Philadelphia Department of Pediatrics Career Development Training Grant Study Section
2013-2014 Chair, Children's Hospital of Philadelphia Search Committee for the Oncology Division Chief and Cancer Center Director
2014- Member, Stanford University Women & Sex Differences in Medicine Advisory Board
2015- Member, Spectrum Council of Mentors
2015- Member, Spectrum Intensive Course in Clinical Research Program Committee
2015- 2016 Member, Pediatric Endocrinology Division Chief Search Committee
2015- 2017 Member, Obstetrics and Gynecology Department Chair Search Committee
2015- 2017 Member, Genetics & Genomics Biobanking Search Committee
2015- 2017 Member, ChildX Conference Planning Committee
2015- Member, Big Data in Biomedicine Conference Planning Committee
2015- 2018 Member, Endocrinology Faculty Search Committee, Department of Medicine
2015- 2017 Member, Rheumatology Faculty Search Committee, Department of Medicine
2016- Member, Precision Health Committee
2017- Co-Chair, Stanford Integrated Strategic Plan Working Group on Service Lines
2017- Member, California State Child Health Research Collaborative
2018- Member, Stanford University Innovative Medicine Accelerator Design Team
2018- Member, Stanford Medicine Cell and Gene Therapy Executive Committee

Major Academic and Clinical Teaching Responsibilities:

Instructor, Introduction to Human Health and Disease, BSTA 510, Fall 2001-2012

Lecturer to MSCE students, Introduction to Epidemiology, Epi 501/510, Fall 2000-06, Summer 2007-2013

Instructor, Clinical Evaluative Sciences-I (Introduction to Clinical Epidemiology and Biostatistics), University of Pennsylvania Medical School, Fall 1998-2005, 2007-2013.

Lecturer to HUP Renal Fellows 2000-2013

Mary Leonard, M.D., M.S.C.E

Instructor, Module 3 Renal Seminar, Fall 2004

Instructor, Renal and Urologic Epidemiology, Epi 652, Winter 2004, 2006, Fall 2009, 2011, 2013

Instructor, Gastroenterology Epidemiology Epi 658, Spring 2005, 2007, 2009, 2013

Course Director, CCEB Critical Appraisal Epi 570, Spring 2001

Instructor, Bioethics workshops, University of Pennsylvania Medical School, Fall 2000

Instructor, Module 3 Renal Epidemiology and Health Services workshops, University of Pennsylvania Medical School, Spring 1998

Instructor, Protocol Development Epi 560, Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania, Spring 1998, 2014

Instructor, CHOP, Practical Fluids and Electrolytes, 1999-2003

Instructor, CHOP, Calcium, Magnesium and Phosphorus Metabolism, 2003-2005

Thesis Committees, Master's Students in Clinical Epidemiology, University of Pennsylvania Department of Biostatistics and Epidemiology

Nicolas Stettler, 1997-2000

Kevin Mange, 1997-2000

Steven Ing (Chair) 1999-2002

Ajay Israni, 2000-2003

Bethany Foster (Chair), 2001-2004

Nayyar Iqbal, 200-2003

Francis Weng, 2002- 2005

Jon Burnham (Chair), 2002-2005

Brigitte M. Baumann, 2002-2005

Ann Salerno (Chair), 2003-2006

Meena Thayu (Chair), 2004-2006

Shamir Tuchman (Chair), 2005-2007

James Franciosi (Chair), 2006-2008

Sogol Mostoufi-Moab (Chair), 2006-

Jennifer Accardo (Chair), 2007-2009

Michelle Denburg (Chair), 2008-2011

Josh Baker (Chair), 2009-

Matthew Sampson, 2009-2011

Aimee Parnell (Chair), 2010-2012

Laura Mariani (Chair), 2010-2012

David Weber (Chair), 2011-2014

Angel Velarde, 2011-2013

Marianne Augustine (Chair), 2012-2013

Jennifer Kelly (Chair), 2013-2015

Thomas Dieneman, 2013-2015

Thesis Committees, Master's Students in Biostatistics, University of Pennsylvania Department of Biostatistics and Epidemiology

Shu-Wen Yang, 2003

Wenguang Sun, 2005

Angelo Elmi, 2006-2009

Hanjoo Kim, 2007

Matthew White, 2009-2012

Mary Leonard, M.D., M.S.C.E

Matthew Davis, 2010-2012

Jiwe He, 2011-2012

Erica Billig, 2012-2014

Shaun Bender, 2013-2015

Attending Physician, Nephrology Service, Children's Hospital of Philadelphia, 6 weeks per year

Attending Physician, Nephrology Service, Lucile Packard Children's Hospital, 4-6 weeks per year

Lectures by Invitation (past 10 years only):

- September 12, 2009 "People Skills." 31st Annual Meeting, American Society of Bone and Mineral Research. Denver, Colorado.
- September 14, 2009 "Advanced Imaging Techniques in Chronic Kidney Disease." Chronic Kidney Disease Working Group, 31st Annual Meeting, American Society of Bone and Mineral Research. Denver, Colorado.
- October 9, 2009 "Secondary Osteoporosis in Children." 6th International Congress on Glucocorticoid Induced Osteoporosis. Siena, Italy.
- January 25, 2010 "Glucocorticoid-Induced Osteoporosis in Children: Impact of the Underlying Disease and Assessment of Novel Therapies." National Cancer Institute Workshop, Osteonecrosis in Pediatric, Adolescent and Young Adult Acute Lymphoblastic Leukemia: Insights into the Etiology and Treatment of this Emerging Toxicity. Rockville, MD.
- February 1, 2010 "Independent Effects of Glucocorticoid and Cytokines on Bone Quality in Childhood Chronic Disease." Endocrine Grand Rounds, University of Maryland School of Medicine, Baltimore, MD.
- June 22, 2010 "Pathophysiology of Renal Osteodystrophy." The 92nd Annual Meeting of the Endocrine Society. San Diego, CA.
- September 1, 2010 "Vitamin D Deficiency in Children with Chronic Kidney Disease." The 15th Congress of the International Pediatric Nephrology Association, New York, New York.
- October 15, 2010 "Noninvasive Assessment of Chronic Kidney Disease: Mineral Bone Disease." The 32nd Annual Meeting, American Society of Bone and Mineral Research, Toronto, Canada.
- October 15, 2010 "Assessment of Functional Muscle-Bone Unit Across the Ages." The 32nd Annual Meeting, American Society of Bone and Mineral Research, Toronto, Canada.
- November 8, 2010 "Mock Study Section." NIDDK New Principle Investigators' Workshop. Bethesda, MD.
- November 8, 2010 "Scientific Highlights Across the Mission of the NIDDK: Glucocorticoid-Induced Osteoporosis in Children." NIDDK New Principle Investigators' Workshop. Bethesda, MD.
- November 9, 2010 "Building a Research Program: Insights into Career Development." NIDDK New Principle Investigators' Workshop. Bethesda, MD.

Mary Leonard, M.D., M.S.C.E

- November 18, 2010 “Assessment and Management of Osteoporosis in Patients with Chronic Kidney Disease and Normal Kidney Function Treated with Prednisone.” The 43rd Annual Meeting, American Society of Nephrology, Denver, Colorado.
- March 21, 2011 “Assessment of Bone Health in Children with Chronic Disease.” NIH / American Society of Bone and Mineral Research Forum on Aging and Skeletal Health. Bethesda, MD.
- September 18, 2011 “Management of Musculoskeletal Disease in Children with Chronic Kidney Disease.” The 33rd Annual Meeting, American Society of Bone and Mineral Research, San Diego, CA.
- October 20, 2011 “Glucocorticoid-Induced Osteoporosis in Children: Impact of the Underlying Disease.” Pediatric Grand Rounds, Mt. Sinai School of Medicine, New York, NY.
- October 26, 2011 “A Structural Approach to Renal Osteodystrophy.” Grand Rounds, Boston Children’s Hospital, Boston, MA.
- October 30, 2011 “Core Knowledge in Scholarly Activities.” American Society of Pediatric Nephrology Board Review Course, Levine Children’s Hospital, Charlotte, NC.
- January 23, 2012 “Mineral Metabolism in Chronic Kidney Disease.” NIH Symposium on Insights into CKD from the CRIC and CKiD Studies, Bethesda, MD.
- April 14, 2012 “Impact of Inflammation on the Growing Skeleton.” Ninth Symposium on Growth and Nutrition for Children with Chronic Kidney Disease, San Diego, CA.
- May 10, 2012 “Clinical Assessment of Bone Mineral Status in Adults and Children.” National Kidney Foundation 2012 Spring Clinical Meeting, Washington, DC.
- July 17, 2012 “Normal and Pathological Bone and Muscle Development in Children and Adolescents”. 2012 American Society of Bone and Mineral Research Topical Meeting on Bone and Skeletal Muscle Interactions. Kansas City, MO.
- September 23, 2012 “Bone Quality in CKD: A Material and Structural Approach to Bone Strength”. International Society of Nephrology Bone and Kidney Nexus Symposium. Copenhagen, Denmark.
- October 14, 2012 “CKD-MBD: Effects on Skeletal Structure, Bone Density and Muscle during Growth. The 34th Annual Meeting, American Society of Bone and Mineral Research, Minneapolis, MN.
- November 3, 2012 “Assessment of Hyperparathyroidism in Dialysis and Transplant Patients: From Blood Tests and Imaging Studies to Bone Biopsies”. The 45th Annual Meeting, American Society of Nephrology, San Diego, CA.
- January 8, 2013 “An Imaging Based Approach to the Assessment of Renal Osteodystrophy”. Renal and Radiology Grand Rounds, Evanston Hospital, University of Chicago School of Medicine, Evanston, IL.
- January 25, 2013 “Assessment of Glucocorticoid-Induced Osteoporosis and Skeletal Recovery: Impact of the Underlying Disease”. Children’s Hospital of Eastern Ontario, Ottawa, Canada.

- January 30, 2013 “A Structural Approach to Bone Disease in Children with Chronic Kidney Disease”. Renal Grand Rounds, University of California San Francisco, San Francisco, California.
- April 12, 2013 “Developing Research Collaborations in the Clinical Setting”, and “Managing your Clinical Research Team and Your Research Grant”. NIDDK K Awardees’ Workshop, NIH, Bethesda, MD.
- April 18, 2013 “Impact of Childhood Chronic Diseases on Lifelong Bone Health”. Translational Science 2013, Washington, DC.
- June 3, 2013 “Impact of Childhood Chronic Disease on Bone Health: A Lifecourse Approach.” University of California San Francisco, San Francisco, California.
- August 6, 2013 “Assessment of Musculoskeletal Fragility in Renal Osteodystrophy”. International Bone and Mineral Society Sun Valley Workshop on Musculoskeletal Biology”. Sun Valley, Idaho.
- September 2, 2013 “Bone Structure and Strength in Children with Chronic Kidney Disease Before and After Transplantation.” The 17th Congress of the International Pediatric Nephrology Association, Shanghai, China
- October 5, 2013 “Glucocorticoid-Induced Osteoporosis in Children”. The 35th Annual Meeting of the American Society of Bone and Mineral Research, Baltimore, MD.
- October 18, 2013 “Impact of Childhood Chronic Disease on Bone Health: A Lifecourse Perspective”. Pediatric Grand Rounds, Northwestern University, Chicago, IL.
- November 7, 2013 “KDIGO Consensus Conference on Chronic Kidney Disease Bone and Mineral Disorder: Back to the Future”. The 46th Annual Meeting of the American Society of Nephrology, Atlanta, GA.
- January 8, 2014 “Impact of Childhood Chronic Disease on Bone Health: A Lifecourse Perspective”. Pediatric Grand Rounds, Montefiore Children’s Hospital, NY, NY.
- January 31, 2014 “The Impact of Childhood Chronic Disease on Bone Health: A Lifecourse Approach”. Second International Conference on Nutrition and Growth. Barcelona, Spain.
- April 25, 2014 “Challenges of Clinical Trials in Rare Diseases: the American Society of Pediatric Nephrology Perspective”. FDA Biopharma Consortium. Washington, DC.
- May 5, 2014 “FGF23 in the Clinical Management of CKD-MBD”. Pediatric Academic Society, Vancouver, Canada.
- May 15, 2014 “The Impact of Childhood Chronic Disease on Bone Health: A Lifecourse Perspective”. Pediatric Grand Rounds, University of Virginia, Charlottesville, VA.
- May 29, 2014 “The Impact of Childhood Chronic Disease on Bone Health: A Lifecourse Perspective”. Judson J Van Wyk Lecture, Pediatric Grand Rounds, The University of North Carolina, Chapel Hill, NC.

- June 2, 2014 “Noninvasive Assessment of Bone Health in the Pediatric Population”. FDA Public Workshop. Advancing the Development of Pediatric Therapeutics: Pediatric Bone Health. Silver Spring, Maryland.
- July 31, 2014 “Influences of Disease on Bone and Muscle Development in Children.” American Academy of Orthopedic Surgeons Research Symposium on Musculoskeletal Sex Differences Throughout the Lifespan. Chicago, IL.
- November 14, 2014 “Frailty, Fractures and the Bone-Muscle Connection in Chronic Kidney Disease”. Jack W. Coburn Endowed Lectureship, American Society of Nephrology. Philadelphia, PA.
- April 17, 2015 “Musculoskeletal Disease in Cystinosis”. Cystinosis Research Foundation Annual Meeting, Newport Beach, CA.
- May 7, 2015 “The Impact of Childhood Chronic Disease on Bone Health: A Lifecourse Perspective”. Department of Pediatrics Research Day Keynote Presentation. University of Pittsburgh, Pittsburgh, PA.
- June 30, 2015 “Childhood Chronic Kidney Disease and Bone”. International Conference on Children’s Bone Health, Salzburg, Austria.
- July 20, 2015 “Frailty, Fractures and Osteoporosis in Chronic Kidney Disease”. National Institute of Aging Workshop on the Aging Kidney. National Institutes of Health, Bethesda, MD.
- August 7, 2015 “Bone Disease in Children and Adults with Childhood-Onset Chronic Disease”. 16th Annual Sante Fe Bone Symposium, Sante Fe, NM.
- November 17, 2015 “Impact of Glucocorticoids on Bone Accrual”. National Institute of Child Health and Development Conference on Determinants of Peak Bone Mass. National Institutes of Health, Bethesda, MD.
- March 4, 2016 “Musculoskeletal Disease in Children and Adults with Cystinosis”. Cystinosis Research Foundation Annual Scientific Symposium. Los Angeles, CA.
- March 8, 2016 “Impact of Childhood Chronic Disease on Musculoskeletal Development: A Lifecourse Approach. The 23rd David Cornfield Lecture in Pediatric Nephrology, The Children’s Hospital of Philadelphia, Philadelphia, PA.
- April 8, 2016 “Musculoskeletal Disease in Children and Adults with Cystinosis”. Cystinosis Family Conference Day of Hope, Newport Beach, CA.
- May 12, 2016 “The Impact of Glucocorticoid Therapy on Bone Development”. Parent Project Muscular Dystrophy Conference on Duchenne Muscular Dystrophy. Bone Health and Osteoporosis in Duchenne Muscular Dystrophy: Spanning Translational Research and Clinical Care, Bethesda, MD.
- May 4, 2017 “An Update on the Long-Term Bone and Muscle Manifestations of Cystinosis”. Pediatric Academic Society Annual Meeting, San Francisco, CA.
- October 26, 2017 “Impact of Childhood Chronic Disease on Musculoskeletal Development: A Lifecourse Approach”. John Muir Hospital Pediatrics Grand Rounds, Walnut Creek, CA.

- November 14, 2017 “Why are Infants, Children and Adolescents Hypertensive”. Stanford Conference on Popular Pediatrics Clinical Topics, Island of Hawaii, HI.
“Assessment of Bone Health in Children and Adolescents with Chronic Disease: Are Their Bones Healthy”. Stanford Conference on Popular Pediatrics Clinical Topics, Island of Hawaii, HI.
- January 9, 2018 “Looking Forward: A Career as a Clinical Physician Scientist”. UCSF Inquiry Immersion Keynote Speaker for Clinical Science, San Francisco, CA.
- July 21, 2018 The Partnership between Children’s Hospitals and the Community”. 26th Annual Pediatric Update, Palo Alto, CA.
- September 12, 2018 “Impact of Childhood Chronic Diseases on Musculoskeletal Development: a Lifecourse Approach”. University of Texas Southwestern Department of Pediatrics Grand Rounds, Dallas TX.
- October 2, 2018 “Validation of HR-pQCT Protocols in Children and Adolescents”. HR-pQCT Users Group Meeting, Montreal, CA.
- February 19, 2019 “Impact of Childhood Chronic Diseases on Musculoskeletal Development: a Lifecourse Approach”. Vanderbilt University Department of Pediatrics Grand Rounds, Nashville, TN.
- April 3, 2019 “Impact of Childhood Chronic Diseases on Musculoskeletal Development: a Lifecourse Approach”. Seattle Children’s Hospital Department of Pediatrics Grand Rounds, Seattle, WA.
- April 4, 2019 “Looking Forward: A Career as a Clinical Physician Scientist”. Seattle Children’s Fellows’ Research Day, Seattle, WA.
- April 27, 2019 “Diagnosis, Evaluation, Prevention and Treatment of CKD Mineral and Bone Disorder: a Synopsis of the KDIGO 2017 Clinical Practice Guidelines. ASPN Symposium Honoring Russell Chesney: The Complex Conundrum of Calcium and the Kidney. Pediatric Academic Societies, Baltimore, MD.

Organizing Roles in National and International Scientific Meetings:

- 1999 Pediatric Program Committee, IX Congress of the International Society for Peritoneal Dialysis, Montreal, Canada
- 2004 National Kidney Foundation Annual Clinical Meeting Planning Committee
- 2004-05 Organizing Committee, Effects of Pharmacological Agents on Bone in Childhood, National Institute of Child Health and Human Development and The American Society for Bone and Mineral Research
- 2005-07 Chair, Scientific Program Committee, 4th International Conference on Children’s Bone Health
- 2005-07 Scientific Program Committee, Annual Meeting of the American Society of Pediatric Nephrology / Pediatric Academic Societies
- 2006-07 Scientific Program Committee, Annual Meeting of the American Society of Nephrology
- 2007-09 Scientific Program Committee of the Eighth International Pediatric Nephrology Association Symposium on Growth in Chronic Renal Disease

- 2007-09 Chair, Scientific Organizing Committee, 5th International Conference on Children's Bone Health
- 2008 International Society of Clinical Densitometry Annual Meeting, Pediatrics Symposium. San Francisco, CA
- 2008-10 Co-Chair, Scientific Program Committee, 15th Congress of the International Pediatric Nephrology Association
- 2011-12 Member, Scientific Program Committee of the Ninth International Pediatric Nephrology Association Symposium on Growth in Chronic Renal Disease
- 2011-13 Member, Scientific Program Committee, 16th Congress of the International Pediatric Nephrology Association
- 2012-13 Scientific Program Committee, 6th International Conference on Children's Bone Health
- 2015-16 Scientific Program Committee, 17th Congress of the International Pediatric Nephrology Association
- 2018-19 Scientific Program Committee, 8th International Conference on Children's Bone Health

Bibliography:

Research Publications, peer reviewed:

1. Leonard MB, Koren G, Stevenson DK, Prober CG. Vancomycin pharmacokinetics in very low birth weight neonates. *Pediatr Infect Dis J* 8:282-286, 1989.
2. Leonard MB, Vreman HJ, Ferguson JE, Smith DW, Stevenson DK. Interpreting the carboxyhaemoglobin concentration in fetal cord blood. *J Dev Physiol* 11:73-76, 1989.
3. Stevenson DK, Vreman HJ, Ferguson JE, Lenert LA, Leonard MB, Gale R. Continuous parenteral infusion of vitamin E: Pharmacokinetics and bilirubin production in premature neonates. *Ann NY Acad Sci* 570:352-357, 1989.
4. Leonard MB, Zemel BS, Kawchak DA, Ohene-Fremong K, Stallings VA. Plasma zinc status, growth and maturation in children with sickle cell disease. *J Pediatr* 132:467-471, 1998.
5. Leonard MB, Feldman HI, Zemel BS, Berlin JA, Barden EM, Stallings VA. Evaluation of low density spine software for the assessment of bone mineral density in children. *J Bone Miner Res* 13: 1687-1690, 1998.
6. Leonard MB, Propert KJ, Zemel BS, Stallings VA, Feldman HI. Discrepancies in pediatric bone mineral density reference data: potential for misdiagnosis of osteopenia. *J Pediatr* 135:182-188, 1999.
7. Kaplan BS, Leonard MB. Autosomal dominant hemolytic uremic syndrome: variable phenotypes and transplant results. *Pediatr Nephrol* 14:464-468, 2000.
8. Lande MB, Leonard MB. Variability among pediatric nephrologists in the initial therapy of idiopathic nephrotic syndrome. *Pediatr Nephrol* 14:766-769, 2000.
9. Dell KM, Hoffman BB, Leonard MB, Ziyadeh FN, Schulman SL. Abnormal urinary transforming growth factor- β expression in patients with posterior urethral valves. *Urology* 56:311-314, 2000.
10. Stettler N, Tershakovec AM, Zemel BS, Leonard MB, Boston RC, Katz SH, Stallings VA. Early risk factors for obesity: a cohort study of African American subjects followed from birth to young adulthood. *Am J Clin Nutr* 72:378-383, 2000.

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Contributions to peer-reviewed clinical research publications, participation cited but not by authorship:

None.

Research Publications, non-peer reviewed:

None.

Editorials, Reviews, Chapters, including participation in committee reports (print or other media):

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Grant Funding: see following Tables.

PAST GRANT SUPPORT

<u>Name of Grant</u>	<u>Period of Award</u>	<u>Grant Category</u>	<u>Role</u>	<u>% Effort</u>	<u>Funding Source</u>	<u>Annual Direct Cost</u>	<u>Additional Comments</u>
Patient Oriented Research in Vitamin D and Physical Functioning in CKD (K24)	03/01/07 – 08/31/17	Federal	P.I.	50%	NIH (NIDDK)	\$171,517	
Musculoskeletal Disease in Children and Adults with Cystinosis	07/01/15-06/30/17	Foundation	P.I.	10%	Cystinosis Research Fndn	\$158,490	
Spectrum Stanford Center for Clinical and Translational Research and Education (UL1)	07/01/14-06/30/18	Federal	Co-I	10%	NIH (NCATS)		
Vitamin D Deficiency in Glomerular Disease (K23)	09/15/12-07/31/17	Federal	Mentor	Contributed only	NIH (NIDDK)	\$159,530	PI: Denburg
Body Composition, Bone Structure, and Radiographic Joint Damage in Rheumatoid Arthritis (VA Career Development Award)	07/01/13-06/30/18	Federal	Mentor	Contributed only	US Dept Veteran Affairs		PI: Baker
Osteoporosis Treatment Response Assessed By Micromechanical Modeling of MRI Data (R01)	09/01/12 – 08/31/15	Federal	Co-I	8%	NIH	\$329,740	P.I.: Wehrli
Osteoporosis Treatment Response Assessed By Micromechanical Modeling of MRI Data (R01)	09/01/12 – 08/31/15	Federal	Co-I	8%	NIH	\$329,740	P.I.: Wehrli

High Resolution Peripheral Quantitative Computed Tomography Scanner (S10)	09/01/13-08/31/14	Federal	P.I.	N/A	NIH	\$494,000	Shared Instrument. Grant
Vitamin D Deficiency in the Nephrotic Patient (NephCure Foundation-American Society of Nephrology Grant)	07/01/12-06/31/14	Foundation	Mentor	Contributed only	Am Soc Nephrol	\$90,910	P.I. Denburg
Nephrotic Syndrome, Cardiovascular Risk and the Effect of Statin Therapy (F23)	03/01/12-02/28/14	Federal	Mentor	Contributed only	NIH (NIDDK)	\$57,435	P.I.: Mariani
Bone Water and Mineralization Measured by Nuclear Magnetic Resonance (R01)	09/01/09 - 08/31/14	Federal	Co-I	2%	NIH (NIAMS)	\$388,720	P.I.: Wehrli
Effect of Chronic Proton Pump Inhibitor Therapy on Bone Mineral and Bone Structural Change using Quantitative CT (R01)	09/30/09 - 08/31/14	Federal	Co-I	7%	NIH (NIDDK)	\$615,111	P.I.: YX Yang
Changes in Skeletal Microarchitecture Following Renal Transplantation (R01)	09/01/08-02/28/14	Federal	P.I.	20 %	NIH (NIDDK)	\$310,792	
Bone Quality and Mechanical Competence in Chronic Kidney Disease (K23)	12/01/08 – 11/30/13	Federal	Co-Mentor	Contributed only	NIH (NIDDK)	\$118,708	P.I.: Nickolas
Risk of Fractures Associated with Hepatitis B Virus Infection	11/01/11 – 10/31/13	Industry	Co-I	2%	Gilead	\$26,624	P.I.: Lo Re
Bone Health in Pediatric Crohn Disease: A Low Magnitude Mechanical Stimulus Trial (R01)	08/01/06 – 07/31/12	Federal	P.I.	20%	NIH (NIDDK)	\$363,398	

Changes in Bone and Muscle Mass After TNF- α Inhibition in Pediatric Crohn Disease (K23)	12/01/07 – 06/30/12	Federal	Mentor	Contributed only	NIH (NIDDK)	\$135,880	P.I.: Thayu
Vitamin D Deficiency, Physical Performance and Cardiovascular Outcomes in CRIC (R01)	08/15/07 – 06/30/12	Federal	P.I.	20%	NIH (NIDDK)	\$489,075	
Bone Health of Obese Adolescents During Weight Loss (R01)	07/01/07 – 06/30/12	Federal	Co-I	8%	NIH (NICHD)	\$362,747	P.I.: Stettler
Quantifying Bone Mineral Phosphorus in Patients with Osteomalacia by 31 P MRI	07/01/10 – 06/30/11	Intramural	Co-PI	5%	UPenn	\$50,000	Co-P.I.: Wehrli
The Functional Muscle Bone Unit in JRA (K23)	07/01/05 – 06/30/11	Federal	Mentor	Contributed only	NIH (NCRR)	\$132,900	P.I.: Burnham
Structural Bone Disease in Chronic Renal Insufficiency (R01)	07/01/03 – 06/30/09	Federal	P.I.	20 %	NIH (NIDDK)	\$536,709	
Pilot Study of Low Magnitude Mechanical Stimuli Effects on Bone Structure in ESRD (R21)	09/30/05 – 08/31/08	Federal	P.I.	15%	NIH (NIDDK)	\$ 184,361	
Structural Effects of Renal Osteodystrophy During Growth (R01)	03/01/02 - 02/28/08	Federal	P.I.	20%	NIH (NICHD)	\$423,923	
Glucocorticoid-Induced Osteopenia in Children (R01)	9/01/01 – 8/31/07	Federal	P.I.	25%	NIH (NIDDK)	\$239,636	

4 th International Conference on Children's Bone Health (R13)	07/01/06 – 06/31/07	Federal	P.I.	N/A	NIH (NICHD)	\$20,000	
Malnutrition in Childhood Chronic Renal Failure (F32)	07/01/02-06/30/04	Federal	Mentor	Contributed only	NIH (NIDDK)	\$81,951	P.I.: Foster
MRI Based Virtual Bone Biopsy for Renal Osteodystrophy (R21)	07/01/00 - 06/30/02	Federal	Co-I.	10%	NIH (NIAMS)	\$50,000	P.I.: Wehrli
Glucocorticoid-Induced Osteoporosis in Childhood Nephrotic Syndrome (K08)	07/01/97 – 06/30/02	Federal	P.I.	75%	NIH (NIDDK)	\$ 43,854	
Glucocorticoid Effects on the Pediatric Bone-Muscle Unit (R03)	10/1/00 – 9/30/01	Federal	P.I.	10%	NIH (NIDDK)	\$49,272	
Hemodialysis Dose and Growth	01/01/99 – 07/01/01	Foundation	P.I.	10%	Genentech Fndn	\$44,435	

CURRENT GRANT SUPPORT

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Spectrum Stanford Center for Clinical and Translational Research and Education (UL1)	07/01/14-06/30/18	Federal	Co-I	10%	NIH (NCATS)		

