




Mary Leonard

Arline and Pete Harman Professor and Professor of Medicine (Nephrology) and, by courtesy, of Epidemiology and Population Health

Pediatrics - Nephrology

 Curriculum Vitae available Online

CLINICAL OFFICES

- **Pediatric Nephrology Clinic**

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Palo Alto, CA 94304

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ACADEMIC CONTACT INFORMATION

- **Chelsi Romero**

Chelsi Romero - Executive Assistant

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Bio

BIO

Mary Leonard, MD, MSCE, is the Arline and Pete Harman Professor and Chair of the Department of Pediatrics at Stanford University School of Medicine and the Adalyn Jay Physician in Chief at Lucile Packard Children's Hospital Stanford. She assumed these positions on July 1, 2016.

Energetic and collaborative, Dr. Leonard is a compassionate clinician and researcher who cares deeply about improving the health and well-being of children everywhere. A graduate of the Stanford University School of Medicine, Mary returned to Stanford Medicine in 2014 after spending 25 years at the Children's Hospital of Philadelphia and the University of Pennsylvania. At Stanford, her multi-disciplinary research program is focused on the impact of chronic diseases on bone metabolism and nutrition across the life span. Mary directs the innovative and trans-disciplinary child and maternal health research and training initiatives of the Stanford Child Health Research Institute.

Mary is a distinguished investigator, an expert clinician, and a respected mentor who embodies the academic and integrated mission of Stanford Medicine. A member of the Precision Health Committee, she is committed to Stanford Medicine's vision of proactive and personalized health care and has been at the forefront of efforts to integrate Precision Health approaches and skills into our training programs.

CLINICAL FOCUS

- Pediatric Nephrology

ACADEMIC APPOINTMENTS

- Professor, Pediatrics - Nephrology
- Professor, Medicine - Nephrology
- Professor (By courtesy), Epidemiology and Population Health
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Member, Stanford Diabetes Research Center, Stanford University, (2017- present)

- Chairman of Pediatrics, Stanford University, (2016- present)
- Physician-in-Chief, Lucile Packard Children's Hospital, (2016- present)
- Director, Maternal and Child Health Research Institute at Stanford, Stanford University, (2016- present)
- Co-Leader, Spectrum Child Health, Stanford University, (2014- present)
- Associate Dean, Maternal and Child Health Research, Stanford University, (2015-2016)

HONORS AND AWARDS

- Member, Academic Pediatric Association (2017-)
- Member, Association of Medical School Pediatric Department Chairs (2016-)
- Member, American Society of Clinical Investigation (2008 -)
- Member, Society for Pediatric Research (2003 -)
- Faculty Mentor Award, The Children's Hospital of Philadelphia (2007)
- Young Investigator Award, American Society of Transplantation (1999)
- Teaching Fellow of the Year, The Children's Hospital of Philadelphia (1993)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Co-Chair, Kidney Disease Improving Global Outcomes in CKD Metabolic Bone Disease (2014 - present)
- Co-Chair, International Society of Clinical Densitometry Pediatric Consensus Guidelines (2013 - 2014)
- Councilor, American Society of Pediatric Nephrology (2010 - 2014)

PROFESSIONAL EDUCATION

- Fellowship: Children's Hospital of Philadelphia Nephrology Fellowship (1996) PA
- Residency: Children's Hospital of Philadelphia Pediatric Residency (1992) PA
- Medical Education: Stanford University School of Medicine (1989) CA
- Board Certification: Pediatric Nephrology, American Board of Pediatrics (1997)
- MSCE, University of Pennsylvania , Clinical Epidemiology (1997)
- Fellow, The Children's Hospital of Philadelphia , Pediatric Nephrology (1995)
- Resident, The Children's Hospital of Philadelphia , Pediatrics (1992)
- MD, Stanford University (1989)
- BS, Northwestern University , Chemistry (1984)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My multidisciplinary research program is focused on (1) the detrimental effects of glucocorticoids, sarcopenia and inflammation on bone development in pediatric diseases, (2) the long-term effects of childhood cancer on bone and muscle quality, (3) the assessment of renal osteodystrophy using novel micro-imaging techniques, (4) the effects of vitamin D deficiency on physical function and cardiovascular disease, and (5) the evaluation of biomechanical interventions as anabolic bone therapies.

CLINICAL TRIALS

- Bone Health in Pediatric Crohn's Disease: A Low Magnitude Mechanical Stimulus Trial, Not Recruiting
- The Effect of Exercise on Muscle Dysfunction in Cystinosis, Not Recruiting

Publications

PUBLICATIONS

- **Bone accrual and structural changes over one year in youth with cystic fibrosis.** *Journal of clinical & translational endocrinology*
Bass, R. M., Zemel, B. S., Stallings, V. A., Leonard, M. B., Tsao, J., Kelly, A.
2022; 28: 100297
- **Achieving equity through science and integrity: dismantling race-based medicine.** *Pediatric research*
Wright, J. L., Freed, G. L., Hendricks-Munoz, K. D., Jarvis, J. N., Maldonado, Y. A., Raphael, J. L., Schnadower, D., Sims, B., Bogue, C. W., Leonard, M. B.,
Coyne-Beasley, T. D., Committee on Diversity, I. a., Wright, et al
2022
- **Guidelines for HR-pQCT Motion Scoring in the Cortical Diaphysis**
Strickland, A., Long, J., Kent, K., Whalen, J., Leonard, M. B., Burghardt, A.
WILEY.2022: 133
- **Comparison of Cortical Bone Outcomes in the Metaphysis and Diaphysis During Growth and Development**
Kent, K., Strickland, A., Whalen, J., Burghardt, A., Leonard, M., Long, J.
WILEY.2022: 12
- **Persistent Musculoskeletal Deficits in Pediatric, Adolescent and Young Adult Survivors of Allogeneic Hematopoietic Stem-Cell Transplantation.** *Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research*
Kindler, J. M., Guo, M., Baker, J., McCormack, S., Armenian, S. H., Zemel, B. S., Leonard, M. B., Mostoufi-Moab, S.
1800
- **The importance of trustworthiness: lessons from the COVID-19 pandemic.** *Pediatric research*
Leonard, M. B., Pursley, D. M., Robinson, L. A., Abman, S. H., Davis, J. M.
2021
- **Deficits in the Functional Muscle-Bone Unit in Youth With Fontan Physiology.** *The Journal of pediatrics*
Vaikunth, S. S., Leonard, M. B., Whitehead, K. K., Goldberg, D. J., Rychik, J., Zemel, B. S., Avitabile, C. M.
2021
- **Sarcopenia and preserved bone mineral density in paediatric survivors of high-risk neuroblastoma with growth failure.** *Journal of cachexia, sarcopenia and muscle*
Guo, M., Zemel, B. S., Hawkes, C. P., Long, J., Kelly, A., Leonard, M. B., Jaramillo, D., Mostoufi-Moab, S.
2021
- **Establishing a Data Science Unit in an Academic Medical Center: An Illustrative Model.** *Academic medicine : journal of the Association of American Medical Colleges*
Desai, M., Boulos, M., Pomann, G. M., Steinberg, G. K., Longo, F. M., Leonard, M., Montine, T., Blomkalns, A. L., Harrington, R. A.
2021
- **Assessment of the Association of Leadership Behaviors of Supervising Physicians With Personal-Organizational Values Alignment Among Staff Physicians.** *JAMA network open*
Shanafelt, T. D., Wang, H., Leonard, M., Hawn, M., McKenna, Q., Majzun, R., Minor, L., Trockel, M.
2021; 4 (2): e2035622
- **Sarcopenic Obesity in Rheumatoid Arthritis: Prevalence and Impact on Physical Functioning.** *Rheumatology (Oxford, England)*
Baker, J. F., Giles, J. T., Weber, D., George, M. D., Leonard, M. B., Zemel, B. S., Long, J., Katz, P.
2021
- **Risk of Potentially Inappropriate Medications in Adults With CKD: Findings From the Chronic Renal Insufficiency Cohort (CRIC) Study.** *American journal of kidney diseases : the official journal of the National Kidney Foundation*
Hall, R. K., Blumenthal, J. B., Doerfler, R. M., Chen, J., Diamantidis, C. J., Jaar, B. G., Kusek, J. W., Kalleem, K., Leonard, M. B., Navaneethan, S. D., Sha, D.,
Sondheimer, J. H., Wagner, et al
2021
- **Changes in Body Composition, Muscle Strength, and Fat Distribution Following Kidney Transplantation.** *American journal of kidney diseases : the official journal of the National Kidney Foundation*

Dienemann, T., Ziolkowski, S. L., Bender, S., Goral, S., Long, J., Baker, J. F., Shults, J., Zemel, B. S., Reese, P. P., Wilson, F. P., Leonard, M. B.
2021

- **Effect of Low Intensity Vibration on Bone Strength, Microstructure, and Adiposity in Pre-Osteoporotic Postmenopausal Women: A Randomized Placebo-Controlled Trial.** *Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research*
Rajapakse, C. S., Johncola, A. J., Batzdorf, A. S., Jones, B. C., Al Mukaddam, M., Sexton, K., Shults, J., Leonard, M. B., Snyder, P. J., Wehrli, F. W.
2020
- **Type 1 Diabetes is Associated with Bone and Muscle Deficiencies in Children and Adolescents**
Long, J., Seeley, H., Whalen, J., Strickland, A., Kent, K., Aye, T., Bachrach, L., Leonard, M.
WILEY.2020: 76
- **Classification of Motion Artifact Severity in High-Resolution Peripheral Quantitative Computed Tomography Using Deep Convolutional Neural Network**
Long, J., Whalen, J., Yang, D., Strickland, A., Kent, K., Seyyedi, S., Leonard, M., Burghardt, A.
WILEY.2020: 208
- **Optimization of a High-Resolution Peripheral Quantitative Computed Tomography(HR-pQCT) Protocol in the Distal Tibia and Radius in Children and Adolescents**
Kent, K., Long, J., Leonard, M., Strickland, A., Whalen, J., Zemel, B., Brown, K., Burghardt, A.
WILEY.2020: 75
- **Associations of Sex, Sexual maturation, IGF1 and Muscle Mass with Bone Failure Load in the Tibia and Radius Metaphysis and Diaphysis during Development**
Aye, T., Long, J., Kent, K., Whalen, J., Strickland, A., Burghardt, A., Leonard, M.
WILEY.2020: 76
- **Serum Calcification Propensity in Children on Chronic Hemodialysis** *KIDNEY INTERNATIONAL REPORTS*
Kakajiwala, A., Pasch, A., Rogers, R., Hoofnagle, A., Meloni, S., Furth, S. L., Leonard, M. B., Copelovitch, L., Denburg, M. R.
2020; 5 (9): 1528–31
- **Bone Geometry and Microarchitecture Deficits in Children with Alagille Syndrome.** *Bone*
Kindler, J. M., Mitchell, E. L., Piccoli, D. A., Grimberg, A., Leonard, M. B., Loomes, K. M., Zemel, B. S.
2020: 115576
- **Racism and social injustice as determinants of child health: the American Pediatric Society Issue of the Year.** *Pediatric research*
Abman, S. H., Bogue, C. W., Baker, S. n., Carlo, W. n., Daniels, S. R., Debaun, M. R., Fike, C. n., Gordon, C. M., Leonard, M. B., Steinhorn, R. H., Walker-Harding, L. R.
2020
- **Association of Burnout, Professional Fulfillment, and Self-care Practices of Physician Leaders With Their Independently Rated Leadership Effectiveness.** *JAMA network open*
Shanafelt, T. D., Makowski, M. S., Wang, H. n., Bohman, B. n., Leonard, M. n., Harrington, R. A., Minor, L. n., Trockel, M. n.
2020; 3 (6): e207961
- **Validation of a description of sarcopenic obesity defined as excess adiposity and low lean mass relative to adiposity.** *Journal of cachexia, sarcopenia and muscle*
Baker, J. F., Harris, T. n., Rapoport, A. n., Ziolkowski, S. L., Leonard, M. B., Long, J. n., Zemel, B. n., Weber, D. R.
2020
- **Routine serum biomarkers, but not dual-energy X-ray absorptiometry, correlate with cortical bone mineral density in children and young adults with chronic kidney disease.** *Nephrology, dialysis, transplantation : official publication of the European Dialysis and Transplant Association - European Renal Association*
Lalayiannis, A. D., Crabtree, N. J., Ferro, C. J., Askiti, V. n., Mitsioni, A. n., Biassoni, L. n., Kaur, A. n., Sinha, M. D., Wheeler, D. C., Duncan, N. D., Popoola, J. n., Milford, D. V., Long, et al
2020
- **Serial Fibroblast Growth Factor 23 Measurements and Risk of Requirement for Kidney Replacement Therapy: The CRIC (Chronic Renal Insufficiency Cohort) Study.** *American journal of kidney diseases : the official journal of the National Kidney Foundation*
Mehta, R., Cai, X., Lee, J., Xie, D., Wang, X., Scialla, J., Anderson, A. H., Taliercio, J., Dobre, M., Chen, J., Fischer, M., Leonard, M., Lash, et al
2019

- **Vitamin D Metabolic Ratio and Risks of Death and CKD Progression.** *Kidney international reports*
Bansal, N., Katz, R., Appel, L., Denburg, M., Feldman, H., Go, A. S., He, J., Hoofnagle, A., Isakova, T., Kestenbaum, B., Kusek, J., Lash, J., Leonard, et al
2019; 4 (11): 1598-1607
- **Chronic Kidney Disease and the Adiposity Paradox: Valid or Confounded?** *JOURNAL OF RENAL NUTRITION*
Ziolkowski, S. L., Long, J., Baker, J. F., Chertow, G. M., Leonard, M. B.
2019; 29 (6): 521–28
- **Vitamin D Metabolic Ratio and Risks of Death and CKD Progression** *KIDNEY INTERNATIONAL REPORTS*
Bansal, N., Katz, R., Appel, L., Denburg, M., Feldman, H., Go, A. S., He, J., Hoofnagle, A., Isakova, T., Kestenbaum, B., Kusek, J., Lash, J., Leonard, et al
2019; 4 (11): 1598–1607
- **Serum Calcification Propensity and Clinical Events in CKD.** *Clinical journal of the American Society of Nephrology : CJASN*
Bundy, J. D., Cai, X., Mehta, R. C., Scialla, J. J., de Boer, I. H., Hsu, C., Go, A. S., Dobre, M. A., Chen, J., Rao, P. S., Leonard, M. B., Lash, J. P., Block, et al
2019
- **Associations between exercise, bone mineral density, and body composition in adolescents with anorexia nervosa** *EATING AND WEIGHT DISORDERS-STUDIES ON ANOREXIA BULIMIA AND OBESITY*
Nagata, J. M., Carlson, J. L., Golden, N. H., Murray, S. B., Long, J., Leonard, M. B., Peebles, R.
2019; 24 (5): 939–45
- **Impact of Adrenal Hormone Supplementation on Bone Geometry in Growing Teens With Anorexia Nervosa.** *The Journal of adolescent health : official publication of the Society for Adolescent Medicine*
DiVasta, A. D., Feldman, H. A., O'Donnell, J. M., Long, J., Leonard, M. B., Gordon, C. M.
2019
- **Serum Calcification Propensity and Coronary Artery Calcification Among Patients with CKD: The CRIC (Chronic Renal Insufficiency Cohort) Study** *AMERICAN JOURNAL OF KIDNEY DISEASES*
Bundy, J. D., Cai, X., Scialla, J. J., Dobre, M. A., Chen, J., Hsu, C., Leonard, M. B., Go, A. S., Rao, P. S., Lash, J. P., Townsend, R. R., Feldman, H., de Boer, et al
2019; 73 (6): 806–14
- **Poor glycemic control is associated with impaired bone accrual in the year following a diagnosis of type 1 diabetes.** *The Journal of clinical endocrinology and metabolism*
Weber, D. R., Gordon, R. J., Kelley, J. C., Leonard, M. B., Willi, S. M., Hatch-Stein, J., Kelly, A., Kosacci, O., Kucheruk, O., Kaafarani, M., Zemel, B. S.
2019
- **Relative sarcopenia and mortality and the modifying effects of chronic kidney disease and adiposity** *JOURNAL OF CACHEXIA SARCOPENIA AND MUSCLE*
Ziolkowski, S. L., Long, J., Baker, J. F., Chertow, G. M., Leonard, M. B.
2019; 10 (2): 338–46
- **Serum Calcification Propensity and Coronary Artery Calcification Among Patients With CKD: The CRIC (Chronic Renal Insufficiency Cohort) Study.** *American journal of kidney diseases : the official journal of the National Kidney Foundation*
Bundy, J. D., Cai, X., Scialla, J. J., Dobre, M. A., Chen, J., Hsu, C., Leonard, M. B., Go, A. S., Rao, P. S., Lash, J. P., Townsend, R. R., Feldman, H. I., de Boer, et al
2019
- **Relative sarcopenia and mortality and the modifying effects of chronic kidney disease and adiposity.** *Journal of cachexia, sarcopenia and muscle*
Ziolkowski, S. L., Long, J., Baker, J. F., Chertow, G. M., Leonard, M. B.
2019
- **The Adiponectin Paradox in the Elderly: Associations With Body Composition, Physical Functioning, and Mortality** *JOURNALS OF GERONTOLOGY SERIES A-BIOLOGICAL SCIENCES AND MEDICAL SCIENCES*
Baker, J. F., Newman, A. B., Kanaya, A., Leonard, M. B., Zemel, B., Miljkovic, I., Long, J., Weber, D., Harris, T. B.
2019; 74 (2): 247–53
- **Chronic Kidney Disease and the Adiposity Paradox: Valid or Confounded?** *Journal of renal nutrition : the official journal of the Council on Renal Nutrition of the National Kidney Foundation*
Ziolkowski, S. L., Long, J., Baker, J. F., Chertow, G. M., Leonard, M. B.
2019

- **Effects of Weight History on the Association Between Directly-Measured Adiposity and Mortality in Older Adults.** *The journals of gerontology. Series A, Biological sciences and medical sciences*
Baker, J. F., Ziolkowski, S. L., Long, J. n., Leonard, M. B., Stokes, A. n.
2019
- **Longitudinal Evolution of Markers of Mineral Metabolism in Patients With CKD: The Chronic Renal Insufficiency Cohort (CRIC) Study.** *American journal of kidney diseases : the official journal of the National Kidney Foundation*
Isakova, T. n., Cai, X. n., Lee, J. n., Mehta, R. n., Zhang, X. n., Yang, W. n., Nessel, L. n., Anderson, A. H., Lo, J. n., Porter, A. n., Nunes, J. W., Negrea, L. n., Hamm, et al
2019
- **Serum Calcification Propensity and Cardiovascular Disease Events Among Patients With Chronic Kidney Disease: the CRIC Study**
Bundy, J. D., Cai, X., Mehta, R., Scialla, J. J., Block, G. A., Feldman, H. I., de Boer, I. H., Lash, J. P., Chen, J., Hsu, C., Dobre, M. A., Leonard, M. B., Rao, et al
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Low Muscle Density is Associated with Deteriorations in Muscle Strength and Physical Functioning in Rheumatoid Arthritis.** *Arthritis care & research*
Baker, J. F., Mostoufi-Moab, S. n., Long, J. n., Taratuta, E. n., Leonard, M. B., Zemel, B. n.
2019
- **A multi-imaging modality study of bone density, bone structure and the muscle - bone unit in end-stage renal disease.** *Bone*
Leonard, M. B., Wehrli, F. W., Ziolkowski, S. L., Billig, E. n., Long, J. n., Nickolas, T. L., Magland, J. F., Nihtianova, S. n., Zemel, B. S., Herskovitz, R. n., Rajapakse, C. S.
2019
- **Intramuscular Fat Accumulation and Associations With Body Composition, Strength, and Physical Functioning in Patients With Rheumatoid Arthritis** *ARTHRITIS CARE & RESEARCH*
Baker, J. F., Mostoufi-Moab, S., Long, J., Zemel, B., Ibrahim, S., Taratuta, E., Leonard, M. B.
2018; 70 (12): 1727-34
- **Impact of Sex and Maturation on Trabecular and Cortical Microarchitecture in Children and Young Adults**
Aye, T., Kent, K., Long, J., Whalen, J., Strickland, A., Burghardt, A., Leonard, M. B.
WILEY.2018: 209-10
- **Multimodality Study of Glucocorticoid Induced Osteoporosis in Pediatric Crohn's Disease**
Long, J., Lee, D., Herskovitz, R., Zemel, B., Leonard, M.
WILEY.2018: 212
- **Pediatric Bone Mineral Accrual Z-Score Calculation Equations and Their Application in Childhood Disease.** *Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research*
Kelly, A., Shults, J., Mostoufi-Moab, S., McCormack, S. E., Stallings, V. A., Schall, J. I., Kalkwarf, H. J., Lappe, J. M., Gilsanz, V., Oberfield, S. E., Shepherd, J. A., Winer, K. K., Leonard, et al
2018
- **Children with Crohn's Disease Frequently Consume Select Food Additives** *DIGESTIVE DISEASES AND SCIENCES*
Lee, D., Swan, C., Suskind, D., Wahbeh, G., Vanamala, J., Baldassano, R. N., Leonard, M. B., Lampe, J. W.
2018; 63 (10): 2722-28
- **Changes in pediatric DXA measures of musculoskeletal outcomes and correlation with quantitative CT following treatment of acute lymphoblastic leukemia** *BONE*
Mostoufi-Moab, S., Kelly, A., Mitchell, J. A., Baker, J., Zemel, B. S., Brodsky, J., Long, J., Leonard, M. B.
2018; 112: 128-35
- **Estimation of Skeletal Muscle Mass Relative to Adiposity Improves Prediction of Physical Performance and Incident Disability** *JOURNALS OF GERONTOLOGY SERIES A-BIOLOGICAL SCIENCES AND MEDICAL SCIENCES*
Baker, J. F., Long, J., Leonard, M. B., Harris, T., Delmonico, M. J., Santanasto, A., Satterfield, S., Zemel, B., Weber, D. R.
2018; 73 (7): 946-52
- **Associations between exercise, bone mineral density, and body composition in adolescents with anorexia nervosa.** *Eating and weight disorders : EWD*
Nagata, J. M., Carlson, J. L., Golden, N. H., Murray, S. B., Long, J., Leonard, M. B., Peebles, R.
2018

- **The Association of Diet and Exercise With Body Composition in Pediatric Crohn's Disease** *INFLAMMATORY BOWEL DISEASES*
Lee, D., Lewis, J. D., Shults, J., Baldassano, R. N., Long, J., Herskovitz, R., Zemel, B., Leonard, M. B.
2018; 24 (6): 1368–75
- **Leg lean mass correlates with exercise systemic output in young Fontan patients** *HEART*
Avitabile, C. M., Goldberg, D. J., Leonard, M. B., Wei, Z., Tang, E., Paridon, S. M., Yoganathan, A. P., Fogel, M. A., Whitehead, K. K.
2018; 104 (8): 680–84
- **Diagnosis, Evaluation, Prevention, and Treatment of Chronic Kidney Disease-Mineral and Bone Disorder: Synopsis of the Kidney Disease: Improving Global Outcomes 2017 Clinical Practice Guideline Update** *ANNALS OF INTERNAL MEDICINE*
Ketteler, M., Block, G. A., Evenepoel, P., Fukagawa, M., Herzog, C. A., McCann, L., Moe, S. M., Shroff, R., Tonelli, M. A., Toussaint, N. D., Vervloet, M. G., Leonard, M. B.
2018; 168 (6): 422–+
- **Increases in IGF-1 After Anti-TNF-alpha Therapy Are Associated With Bone and Muscle Accrual in Pediatric Crohn Disease** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
DeBoer, M. D., Lee, A. M., Herbert, K., Long, J., Thayu, M., Griffin, L. M., Baldassano, R. N., Denson, L. A., Zemel, B. S., Denburg, M. R., Herskovitz, R., Leonard, M. B.
2018; 103 (3): 936–45
- **Longitudinal FGF23 Trajectories and Mortality in Patients with CKD** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Isakova, T., Cai, X., Lee, J., Xie, D., Wang, X., Mehta, R., Allen, N. B., Scialla, J. J., Pencina, M. J., Anderson, A. H., Talierco, J., Chen, J., Fischer, et al
2018; 29 (2): 579–90
- **Effects of a Randomized Weight Loss Intervention Trial in Obese Adolescents on Tibia and Radius Bone Geometry and Volumetric Density** *JOURNAL OF BONE AND MINERAL RESEARCH*
Kelley, J. C., Stettler-Davis, N., Leonard, M. B., Hill, D., Wrotniak, B. H., Shults, J., Stallings, V. A., Berkowitz, R., Xanthopoulos, M. S., Prout-Parks, E., Klieger, S. B., Zemel, B. S.
2018; 33 (1): 42–53
- **Changes in Hepcidin and Hemoglobin After Anti-TNF-alpha Therapy in Children and Adolescents With Crohn Disease** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
Atkinson, M. A., Leonard, M. B., Herskovitz, R., Baldassano, R. N., Denburg, M. R.
2018; 66 (1): 90–94
- **Bone Strength and Microarchitectural Deficits in Children with Cystinosis.**
Burghardt, A., Kent, K., Long, J., Whalen, J., Leonard, M.
WILEY.2017: S124
- **Variability in measures of mineral metabolism in children on hemodialysis: impact on clinical decision-making** *PEDIATRIC NEPHROLOGY*
Kakajiwal, A., Jemielita, T. O., Copelovitch, L., Leonard, M. B., Furth, S. L., York, A., Benton, M., Hoofnagle, A. N., Windt, K., Merrigan, K., Lederman, A., Denburg, M. R.
2017; 32 (12): 2311–18
- **Declining Rates of Hip Fracture in End-Stage Renal Disease: Analysis From the 2003-2011 Nationwide Inpatient Sample** *JOURNAL OF BONE AND MINERAL RESEARCH*
Kim, S., Liu, S., Long, J., Montez-Rath, M. E., Leonard, M. B., Chertow, G. M.
2017; 32 (11): 2297–2303
- **Acid Load and Phosphorus Homeostasis in CKD** *AMERICAN JOURNAL OF KIDNEY DISEASES*
Khairallah, P., Isakova, T., Asplin, J., Hamm, L., Dobre, M., Rahman, M., Sharma, K., Leonard, M., Miller, E., Jaar, B., Brecklin, C., Yang, W., Wang, et al
2017; 70 (4): 541–50
- **Muscle Deficits in Rheumatoid Arthritis Contribute to Inferior Cortical Bone Structure and Trabecular Bone Mineral Density.** *The Journal of rheumatology*
Baker, J. F., Long, J., Mostoufi-Moab, S., Denburg, M., Jorgenson, E., Sharma, P., Zemel, B. S., Taratuta, E., Ibrahim, S., Leonard, M. B.
2017
- **Oral glucocorticoid use and osteonecrosis in children and adults with chronic inflammatory diseases: a population-based cohort study.** *BMJ open*
Horton, D. B., Haynes, K., Denburg, M. R., Thacker, M. M., Rose, C. D., Putt, M. E., Leonard, M. B., Strom, B. L.
2017; 7 (7): e016788

- **Executive summary of the 2017 KDIGO Chronic Kidney Disease-Mineral and Bone Disorder (CKD-MBD) Guideline Update: what's changed and why it matters.** *Kidney international*
Ketteler, M., Block, G. A., Evenepoel, P., Fukagawa, M., Herzog, C. A., McCann, L., Moe, S. M., Shroff, R., Tonelli, M. A., Toussaint, N. D., Vervloet, M. G., Leonard, M. B.
2017; 92 (1): 26-36
- **Assessment of muscle mass relative to fat mass and associations with physical functioning in rheumatoid arthritis.** *Rheumatology*
Baker, J. F., Giles, J. T., Weber, D., Leonard, M. B., Zemel, B. S., Long, J., Ibrahim, S., Katz, P. P.
2017; 56 (6): 981-988
- **Assessment of Sex Differences in Fracture Risk Among Patients With Anorexia Nervosa: A Population-Based Cohort Study Using The Health Improvement Network** *JOURNAL OF BONE AND MINERAL RESEARCH*
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