



Mary Leonard

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

Pediatrics - Nephrology

 Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Pediatric Nephrology Clinic**

770 Welch Rd Ste 300

Palo Alto, CA 94304

Tel (650) 724-0353 Fax (650) 498-6714

ACADEMIC CONTACT INFORMATION

- **Chelsi Romero**

Chelsi Romero - Executive Assistant

Email rchelsi3@stanford.edu

Tel 650-723-5104

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)
- Member, Stanford Medicine Children's Health Center for IBD and Celiac Disease

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

- Residency: Children's Hospital of Philadelphia Dept of Pediatrics (1992) PA
- Board Certification: Pediatric Nephrology, American Board of Pediatrics (2023)
- Fellowship: Children's Hospital of Philadelphia Nephrology Fellowship (1996) PA
- Medical Education: Stanford University School of Medicine (1989) CA
- 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

Publications

PUBLICATIONS

- **Comparative Effectiveness of Antihypertensive Medications in Children With Chronic Kidney Disease.** *JAMA pediatrics*
Denburg, M. R., Goodwin Davies, A. J., Maltenfort, M. G., Mitsnefes, M. M., Flynn, J. T., Neu, A. M., Dixon, B. P., Glenn, D. A., Gluck, C. A., Harshman, L. A., Katsoufis, C. P., Leonard, M. B., Modi, et al
2026
- **Loss of Lean Mass in Rheumatoid Arthritis Is Associated With Loss of Total and Visceral Fat.** *Journal of cachexia, sarcopenia and muscle*
Baker, J. F., Giles, J. T., Zemel, B., Wysham, K. D., Long, J., Leonard, M., Katz, P.
2026; 17 (1): e70229
- **Cystinosis is Associated with Deficits in Muscle Mass, Strength and Hip Bone Density in Children and Young Adults.** *Kidney360*
Sheldon, C. R., Grimm, P. C., Long, J., Whalen, J. R., Kent, K., Reimer, R. J., Strickland, A., Phelps, M., Leonard, M. B.
2025
- **Bone Health in Young Individuals with Primary Ciliary Dyskinesia: Insights from a Comparison with Cystic Fibrosis and Healthy Controls.** *Hormone research in paediatrics*
Gaupmann, R., Schmidthaler, K., Korajac, A., Cobb, K., Gruber, S., Raimann, A., Kent, K., Burghardt, A. J., Long, J., Leonard, M., Szépfalusi, Z., Patsch, J. M., Dehlink, et al
2025: 1-13
- **Corticosteroid, Parathyroid Hormone, and Body Composition Associations With Bone Density and Structure Following Kidney Transplantation.** *American journal of kidney diseases : the official journal of the National Kidney Foundation*
Ziolkowski, S. L., Long, J., Nickolas, T. L., Bender, S., Goral, S., Zemel, B. S., Rajapakse, C. S., Dienemann, T., Leonard, M. B.
2025
- **Molecularly Targeted Cancer Medications and Kidney Health.** *JAMA network open*
Ziolkowski, S., Long, J., Zhong, Y., Morgan-Cooper, H., Wakelee, H., Khaki, A., Riaz, F., Reddy, S., Leonard, M., Anand, S.
2025; 8 (11): e2541221
- **Changes in Bone Microarchitecture and Inflammatory Cytokines After Cure of Chronic Hepatitis C Infection With Direct-Acting Antiviral Therapy.** *Open forum infectious diseases*
Lo Re, V., Carbonari, D. M., Newcomb, C. W., Torgersen, J., Weinstein, E. J., Smith, S. M., Brecker, K. L., Liu, X. S., Kostman, J. R., Trooskin, S., Hubbard, R. A., Baker, J. F., Zemel, et al
2025; 12 (9): ofaf571
- **Magnetic resonance evaluation of three-dimensional liver fat fraction by hepatitis C status and associations with inflammatory cytokines.** *PloS one*
Torgersen, J., Newcomb, C. W., Carbonari, D. M., Smith, S. M., Brecker, K. L., Rajapakse, C. S., Jones, B. C., Cottrell, C., Grewal, R., Price, J. C., Baker, J. F., Kostman, J. R., Trooskin, et al
2025; 20 (7): e0327668
- **Abnormal Trabecular and Cortical Bone Microarchitecture in Chronic Hepatitis C Infection and Associations With Select Inflammatory Cytokines.** *Open forum infectious diseases*
Weinstein, E. J., Carbonari, D. M., Newcomb, C. W., Torgersen, J., Smith, S. M., Brecker, K. L., Liu, X. S., Kostman, J. R., Trooskin, S., Hubbard, R. A., Baker, J. F., Zemel, B. S., Leonard, et al
2025; 12 (5): ofaf102
- **EXERCISE CAPACITY, ENDOTHELIAL FUNCTION, AND MUSCLE MASS IN PEDIATRIC FONTAN PATIENTS: DOES BIOLOGICAL SEX MATTER?**
Lui, M., Bernstein, D., Palaniappan, L. P., Leonard, M., Long, J., Olson, I. L., Cooke, J. P., Myers, J. N., Tierney, E.
ELSEVIER SCIENCE INC.2025: 792
- **New BMDCS Body Composition Z-scores Require Caution When Applying to Existing and New Whole Body Scans**
Kent, K., Leonard, M. B., Strickland, A., Long, J., Zhong, Y., Whalen, J., Zemel, B. S.

OXFORD UNIV PRESS.2024: 168-169

- **Fat Mass Adjusted Appendicular Lean Mass Z-score - A Novel Way to Evaluate Muscle Status in Children**
Zhong, Y., Leonard, M. B., Whalen, J., Kent, K., Zemel, B., Mostoufi-Moab, S., Long, J.
OXFORD UNIV PRESS.2024: 186
- **Publisher Correction: Vitamin D supplementation in children and young adults with persistent proteinuria secondary to glomerular disease.** *Pediatric nephrology (Berlin, Germany)*
Kogon, A. J., Ballester, L. S., Zee, J., Walker, N., Zaritsky, J. J., Atkinson, M. A., Sethna, C. B., Hoofnagle, A. N., Leonard, M. B., Denburg, M. R.
2024
- **Responding to the workforce crisis: consensus recommendations from the Second Workforce Summit of the American Society of Pediatric Nephrology.** *Pediatric nephrology (Berlin, Germany)*
Soranno, D. E., Amaral, S., Ashoor, I., Atkinson, M. A., Barletta, G. M., Braun, M. C., Carlson, J., Carter, C., Chua, A., Dharnidharka, V. R., Drake, K., Erkan, E., Feig, et al
2024
- **Dependent on our dependents: advancing child health through transdisciplinary team science to sustain social programs.** *Pediatric research*
Davis, M. M., Leonard, M. B., Chamberlain, L.
2024
- **Correction to: Strength training is more effective than aerobic exercise for improving glycaemic control and body composition in people with normal-weight type 2 diabetes: a randomised controlled trial.** *Diabetologia*
Kobayashi, Y., Long, J., Dan, S., Johannsen, N. M., Talamoa, R., Raghuram, S., Chung, S., Kent, K., Basina, M., Lamendola, C., Haddad, F., Leonard, M. B., Church, et al
2024
- **PEDSQL, EXERCISE CAPACITY, AND ENDOTHELIAL FUNCTION IN PEDIATRIC FONTAN PATIENTS**
Jose, J., Bernstein, D., Palaniappan, L. P., Leonard, M., Long, J., Desai, M., Lui, M., Davila, T., Cooke, J. P., Olson, I. L., Myers, J. N., Schneider, L., Tierney, et al
ELSEVIER SCIENCE INC.2024: 2407
- **Association of Fibroblast Growth Factor 23 with Blood Pressure in Primary Proteinuric Glomerulopathies** *AMERICAN JOURNAL OF NEPHROLOGY*
Pfaff, M., Denburg, M. R., Meyers, K. E., Brady, T. M., Leonard, M. B., Hoofnagle, A. N., Sethna, C. B.
2024; 55 (2): 187-195
- **Projecting the Future Pediatric Subspecialty Workforce: Summary and Recommendations.** *Pediatrics*
Orr, C. J., McCartha, E., Vinci, R. J., Mink, R. B., Leonard, M. B., Bissell, M., Gaona, A. R., Leslie, L. K.
2024; 153 (Suppl 2)
- **Child Health Needs and the Pediatric Endocrinology Workforce: 2020-2040.** *Pediatrics*
Aye, T., Boney, C. M., Orr, C. J., Leonard, M. B., Leslie, L. K., Allen, D. B.
2024; 153 (Suppl 2)
- **Child Health and the US Pediatric Subspecialty Workforce: Planning for the Future.** *Pediatrics*
Leslie, L. K., Orr, C. J., Turner, A. L., Mink, R., Leonard, M. B., Sabadosa, K. A., Vinci, R. J.
2024; 153 (Suppl 2)
- **Child Health Needs and the Pediatric Nephrology Subspecialty Workforce: 2020-2040.** *Pediatrics*
Weidemann, D. K., Orr, C. J., Norwood, V., Brophy, P., Leonard, M. B., Ashoor, I.
2024; 153 (Suppl 2)
- **Child Health Needs and the Pediatric Rheumatology Workforce: 2020-2040.** *Pediatrics*
Correll, C. K., Klein-Gitelman, M. S., Henrickson, M., Battafarano, D. F., Orr, C. J., Leonard, M. B., Mehta, J. J.
2024; 153 (Suppl 2)
- **Derivation of paediatric blood pressure percentiles from electronic health records.** *EBioMedicine*
Mitsnefes, M. M., Maltenfort, M., Denburg, M. R., Flynn, J. T., Schuchard, J., Dixon, B. B., Patel, H. P., Claes, D., Dickinson, K., Chen, Y., Gluck, C., Leonard, M., Verghese, et al

2023; 98: 104885

- **Reliable Quantification of Bone Microstructure from HR-pQCT During Growth Requires Density-Independent Segmentation**
Burghardt, A., Kent, K., Long, J., Strickland, A., Aye, T., Leonard, M.
OXFORD UNIV PRESS.2023: 244
- **Raising the Bar: The Need for Increased Financial Support to Sustain and Expand the Community of Pediatric Subspecialists.** *The Journal of pediatrics*
Lakshminrusimha, S., Cheng, T. L., Leonard, M. B., Devaskar, S. U., Vinci, R. J., Degnon, L., St Geme, J. W.
2023: 113758
- **Comparisons of body composition and muscle strength between transgender adolescents and cisgender controls**
Misakian, A., Long, J., Kent, K., Leonard, M. B., Aye, T.
KARGER.2023: 378-381
- **Strength training is more effective than aerobic exercise for improving glycaemic control and body composition in people with normal-weight type 2 diabetes: a randomised controlled trial.** *Diabetologia*
Kobayashi, Y., Long, J., Dan, S., Johannsen, N. M., Talamoa, R., Raghuram, S., Chung, S., Kent, K., Basina, M., Lamendola, C., Haddad, F., Leonard, M. B., Church, et al
2023
- **Vitamin D Metabolites and Risk of Cardiovascular Disease in Chronic Kidney Disease: The CRIC Study.** *Journal of the American Heart Association*
Hsu, S., Zelnick, L. R., Bansal, N., Brown, J., Denburg, M., Feldman, H. I., Ginsberg, C., Hoofnagle, A. N., Isakova, T., Leonard, M. B., Lidgard, B., Robinson-Cohen, C., Wolf, et al
2023: e028561
- **Cystatin C and Creatinine Concentrations are Uninformative Biomarkers of Sarcopenia: A Cross-Sectional NHANES Study.** *Journal of renal nutrition : the official journal of the Council on Renal Nutrition of the National Kidney Foundation*
Shah, L. N., Leonard, M. B., Ziolkowski, S. L., Grimm, P., Long, J.
2023
- **Design and Rationale of RE-ENERGIZE FONTAN: RandomizEd Exercise iNTERvention desiGned to maximIZe fitness in FONTAN patients.** *American heart journal*
Tierney, E. S., Palaniappan, L., Leonard, M., Long, J., Myers, J., Dávila, T., Lui, M. C., Kogan, F., Olson, I., Punn, R., Desai, M., Schneider, L. M., Wang, et al
2023
- **Trabecular Bone Score (TBS) varies with correction for tissue thickness versus body mass index; Implications when using pediatric reference norms.** *Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research*
Valenzuela Riveros, L. F., Long, J., Bachrach, L. K., Leonard, M. B., Kent, K.
2023
- **Challenging obesity and sex based differences in resting energy expenditure using allometric modeling, a sub-study of the DIETFITS clinical trial.** *Clinical nutrition ESPEN*
Haddad, F., Li, X., Perelman, D., Santana, E. J., Kuznetsova, T., Cauwenberghs, N., Busque, V., Contrepois, K., Snyder, M. P., Leonard, M. B., Gardner, C.
2023; 53: 43-52
- **Transgender Females on Gonadotropin Agonist Have Lower BMD Scores But Muscle Strength Remained Similar to Controls**
Aye, T., Long, J., Kent, K., Burghardt, A., Leonard, M.
WILEY.2023: 230-231
- **Contribution of local density variation to micro-finite element analysis in pediatric HR-pQCT**
Burghardt, A., Long, J., Aye, T., Kent, K., Strickland, A., Leonard, M.
WILEY.2023: 193-194
- **Bone Mineral Density and Vascular Calcification in Children and Young Adults With CKD 4 to 5 or on Dialysis.** *Kidney international reports*
Lalayianis, A. D., Crabtree, N. J., Ferro, C. J., Wheeler, D. C., Duncan, N. D., Smith, C., Popoola, J., Varvara, A., Mitsioni, A., Kaur, A., Sinha, M. D., Biassoni, L., McGuirk, et al
2023; 8 (2): 265-273

- **Improving Quality of Care and Outcomes for Pediatric Patients With End-stage Kidney Disease The Importance of Pediatric Nephrology Expertise** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Leonard, M. B., Grimm, P. C.
2022; 328 (5): 427-429
- **Improving Quality of Care and Outcomes for Pediatric Patients With End-stage Kidney Disease: The Importance of Pediatric Nephrology Expertise.** *JAMA*
Leonard, M. B., Grimm, P. C.
2022; 328 (5): 427-429
- **Vitamin D supplementation in children and young adults with persistent proteinuria secondary to glomerular disease.** *Pediatric nephrology (Berlin, Germany)*
Kogon, A. J., Ballester, L. S., Zee, J., Walker, N., Zaritsky, J. J., Atkinson, M. A., Sethna, C. B., Hoofnagle, A. N., Leonard, M. B., Denburg, M. R.
2022
- **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
- **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: 243-244
- **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
- **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
- **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., Kallem, 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., Wehri, 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., Wehri, 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*
Kakajiwala, 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*
Nagata, J. M., Golden, N. H., Leonard, M. B., Copelovitch, L., Denburg, M. R.
2017; 32 (5): 1082-1089
- **Assessment of sex differences in bone deficits among adolescents with anorexia nervosa** *INTERNATIONAL JOURNAL OF EATING DISORDERS*
Nagata, J. M., Golden, N. H., Peebles, R., Long, J., Leonard, M. B., Chang, A. O., Carlson, J. L.
2017; 50 (4): 352-358
- **Commercially available lifestyle modification program: randomized controlled trial addressing heart and bone health in BRCA1/2+ breast cancer survivors after risk-reducing salpingo-oophorectomy.** *Journal of cancer survivorship : research and practice*
Sturgeon, K. M., Dean, L. T., Heroux, M., Kane, J., Bauer, T., Palmer, E., Long, J., Lynch, S., Jacobs, L., Sarwer, D. B., Leonard, M. B., Schmitz, K.
2017; 11 (2): 246-255
- **Commercially available lifestyle modification program: randomized controlled trial addressing heart and bone health in BRCA1/2+breast cancer survivors after risk-reducing salpingo-oophorectomy** *JOURNAL OF CANCER SURVIVORSHIP*
Sturgeon, K. M., Dean, L. T., Heroux, M., Kane, J., Bauer, T., Palmer, E., Long, J., Lynch, S., Jacobs, L., Sarwer, D. B., Leonard, M. B., Schmitz, K.
2017; 11 (2): 246-255
- **Body composition estimation using skinfolds in children with and without health conditions affecting growth and body composition.** *Annals of human biology*

Wendel, D., Weber, D., Leonard, M. B., Magge, S. N., Kelly, A., Stallings, V. A., Pipan, M., Stettler, N., Zemel, B. S.
2017; 44 (2): 108-120

- **Effect of Exercise and Antidepressants on Skeletal Outcomes in Adolescent Girls With Anorexia Nervosa.** *journal of adolescent health*
DiVasta, A. D., Feldman, H. A., O'Donnell, J. M., Long, J., Leonard, M. B., Gordon, C. M.
2017; 60 (2): 229-232
- **Assessment of Sex Differences in Body Composition Among Adolescents With Anorexia Nervosa.** *journal of adolescent health*
Nagata, J. M., Golden, N. H., Peebles, R., Long, J., Murray, S. B., Leonard, M. B., Carlson, J. L.
2017
- **Effect of exercise on bone and body composition in children and young adults with HIV infection: a randomized, double-blind, placebo-controlled trial.** *Osteoporosis international*
Rovner, A. J., Stallings, V. A., Rutstein, R., Schall, J. I., Leonard, M. B., Zemel, B. S.
2017; 28 (1): 201-209
- **Risk of Urolithiasis in Anorexia Nervosa: A Population-Based Cohort Study Using the Health Improvement Network.** *European eating disorders review : the journal of the Eating Disorders Association*
Denburg, M. R., Leonard, M. B., Jemielita, T. O., Golden, N. H., Tasian, G. n., Copelovitch, L. n.
2017
- **Effect of high-dose cholecalciferol (vitamin D-3) on bone and body composition in children and young adults with HIV infection: a randomized, double-blind, placebo-controlled trial** *OSTEOPOROSIS INTERNATIONAL*
Rovner, A. J., Stallings, V. A., Rutstein, R., Schall, J. I., Leonard, M. B., Zemel, B. S.
2017; 28 (1): 201-209
- **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*
Nagata, J. M., Golden, N. H., Leonard, M. B., Copelovitch, L., Denburg, M. R.
2016
- **Skeletal outcomes by peripheral quantitative computed tomography and dual-energy X-ray absorptiometry in adolescent girls with anorexia nervosa** *OSTEOPOROSIS INTERNATIONAL*
DiVasta, A. D., Feldman, H. A., O'Donnell, J. M., Long, J., Leonard, M. B., Gordon, C. M.
2016; 27 (12): 3549-3558
- **The Determinants of Peak Bone Mass.** *journal of pediatrics*
Gordon, C. M., Zemel, B. S., Wren, T. A., Leonard, M. B., Bachrach, L. K., Rauch, F., Gilsanz, V., Rosen, C. J., Winer, K. K.
2016
- **Development of Novel Methods to Define Deficits in Appendicular Lean Mass Relative to Fat Mass** *PLOS ONE*
Weber, D., Long, J., Leonard, M. B., Zemel, B., Baker, J. F.
2016; 11 (10)
- **Children with lower respiratory tract infections and serum 25-hydroxyvitamin D-3 levels: A case-control study** *PEDIATRIC PULMONOLOGY*
Velarde Lopez, A. A., Gerber, J. S., Leonard, M. B., Xie, D., Schinnar, R., Strom, B. L.
2016; 51 (10): 1080-1087
- **Reply.** *The Journal of pediatrics*
DeBoer, M. D., Leonard, M. B.
2016; 177: 334
- **Hip Fracture in Patients With Non-Dialysis-Requiring Chronic Kidney Disease.** *Journal of bone and mineral research*
Kim, S. M., Long, J., Montez-Rath, M., Leonard, M., Chertow, G. M.
2016; 31 (10): 1803-1809
- **Assessment of sex differences in bone deficits among adolescents with anorexia nervosa.** *International journal of eating disorders*
Nagata, J. M., Golden, N. H., Peebles, R., Long, J., Leonard, M. B., Chang, A. O., Carlson, J. L.
2016

- **Rates and Outcomes of Parathyroidectomy for Secondary Hyperparathyroidism in the United States** *CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Kim, S. M., Long, J., Montez-Rath, M. E., Leonard, M. B., Norton, J. A., Chertow, G. M.
2016; 11 (7): 1260-1267
- **Effect of Low-Magnitude Mechanical Stimuli on Bone Density and Structure in Pediatric Crohn's Disease: A Randomized Placebo-Controlled Trial** *JOURNAL OF BONE AND MINERAL RESEARCH*
Leonard, M. B., Shults, J., Long, J., Baldassano, R. N., Brown, J. K., Hommel, K., Zemel, B. S., Mahboubi, S., Whitehead, K. H., Herskovitz, R., Lee, D., Rausch, J., Rubin, et al
2016; 31 (6): 1177-1188
- **Effect of Low-Magnitude Mechanical Stimuli on Bone Density and Structure in Pediatric Crohn's Disease: A Randomized Placebo-Controlled Trial.** *Journal of bone and mineral research*
Leonard, M. B., Shults, J., Long, J., Baldassano, R. N., Brown, J. K., Hommel, K., Zemel, B. S., Mahboubi, S., Howard Whitehead, K., Herskovitz, R., Lee, D., Rausch, J., Rubin, et al
2016; 31 (6): 1177-1188
- **Comparison of Two ELISA Methods and Mass Spectrometry for Measurement of Vitamin D-Binding Protein: Implications for the Assessment of Bioavailable Vitamin D Concentrations Across Genotypes** *JOURNAL OF BONE AND MINERAL RESEARCH*
Denburg, M. R., Hoofnagle, A. N., Sayed, S., Gupta, J., de Boer, I. H., Appel, L. J., Durazo-Arvizu, R., Whitehead, K., Feldman, H. I., Leonard, M. B.
2016; 31 (6): 1128-1136
- **Serum Infliximab, Antidrug Antibodies, and Tumor Necrosis Factor Predict Sustained Response in Pediatric Crohn's Disease** *INFLAMMATORY BOWEL DISEASES*
Stein, R., Lee, D., Leonard, M. B., Thayu, M., Denson, L. A., Chuang, E., Herskovitz, R., Kerbowski, T., Baldassano, R. N.
2016; 22 (6): 1370-1377
- **Increases in Sex Hormones during Anti-Tumor Necrosis Factor a Therapy in Adolescents with Crohn's Disease.** *journal of pediatrics*
DeBoer, M. D., Thayu, M., Griffin, L. M., Baldassano, R. N., Denson, L. A., Zemel, B. S., Denburg, M. R., Agard, H. E., Herskovitz, R., Long, J., Leonard, M. B.
2016; 171: 146-152 e2
- **Increases in Sex Hormones during Anti-Tumor Necrosis Factor a Therapy in Adolescents with Crohn's Disease** *JOURNAL OF PEDIATRICS*
DeBoer, M. D., Thayu, M., Griffin, L. M., Baldassano, R. N., Denson, L. A., Zemel, B. S., Denburg, M. R., Agard, H. E., Herskovitz, R., Long, J., Leonard, M. B.
2016; 171: 146-?
- **Fracture Burden and Risk Factors in Childhood CKD: Results from the CKiD Cohort Study.** *Journal of the American Society of Nephrology*
Denburg, M. R., Kumar, J., Jemielita, T., Brooks, E. R., Skversky, A., Portale, A. A., Salusky, I. B., Warady, B. A., Furth, S. L., Leonard, M. B.
2016; 27 (2): 543-550
- **Association of 25-hydroxyvitamin D with areal and volumetric measures of bone mineral density and parathyroid hormone: impact of vitamin D-binding protein and its assays.** *Osteoporosis international*
Jemielita, T. O., Leonard, M. B., Baker, J., Sayed, S., Zemel, B. S., Shults, J., Herskovitz, R., Denburg, M. R.
2016; 27 (2): 617-626
- **Declining Rates of Inpatient Parathyroidectomy for Primary Hyperparathyroidism in the US.** *PloS one*
Kim, S. M., Shu, A. D., Long, J., Montez-Rath, M. E., Leonard, M. B., Norton, J. A., Chertow, G. M.
2016; 11 (8)
- **Quantification of skeletal growth, modeling, and remodeling by in vivo micro computed tomography** *BONE*
Altman, A. R., Tseng, W., de Bakker, C. M., Chandra, A., Lan, S., Huh, B. K., Luo, S., Leonard, M. B., Qin, L., Liu, X. S.
2015; 81: 370-379
- **Quantification of skeletal growth, modeling, and remodeling by in vivo micro computed tomography.** *Bone*
Altman, A. R., Tseng, W. J., de Bakker, C. M., Chandra, A., Lan, S., Huh, B. K., Luo, S., Leonard, M. B., Qin, L., Liu, X. S.
2015; 81: 370-379
- **Response to Comment on Weber et al. Type 1 Diabetes is Associated With an Increased Risk of Fracture Across the Life Span: A Population-Based Cohort Study Using The Health Improvement Network (THIN).** *Diabetes Care* 2015;38:1913-1920. *Diabetes care*
Weber, D. R., Haynes, K., Leonard, M. B., Willi, S. M., Denburg, M. R.

2015; 38 (12): e205-6

- **Increased risk of hip fracture associated with dually treated HIV/hepatitis B virus coinfection** *JOURNAL OF VIRAL HEPATITIS*
Byrne, D. D., Newcomb, C. W., Carbonari, D. M., Nezamzadeh, M. S., Leidl, K. B., Herlim, M., Yang, Y. X., Hennessy, S., Kostman, J. R., Leonard, M. B., Localio, A. R., Lo Re, V.
2015; 22 (11): 936-947
- **Insulin-like Growth Factor 1 and Adiponectin and Associations with Muscle Deficits, Disease Characteristics, and Treatments in Rheumatoid Arthritis.** *journal of rheumatology*
Baker, J. F., Von Feldt, J. M., Mostoufi-Moab, S., Kim, W., Taratuta, E., Leonard, M. B.
2015; 42 (11): 2038-2045
- **Use of proton pump inhibitors is associated with fractures in young adults: a population-based study.** *Osteoporosis international*
Freedberg, D. E., Haynes, K., Denburg, M. R., Zemel, B. S., Leonard, M. B., Abrams, J. A., Yang, Y.
2015; 26 (10): 2501-2507
- **Type 1 diabetes is associated with an increased risk of fracture across the life span: a population-based cohort study using The Health Improvement Network (THIN).** *Diabetes care*
Weber, D. R., Haynes, K., Leonard, M. B., Willi, S. M., Denburg, M. R.
2015; 38 (10): 1913-20
- **Bone Mineral Accrual Is Associated With Parathyroid Hormone and 1,25-Dihydroxyvitamin D Levels in Children and Adolescents.** *journal of clinical endocrinology & metabolism*
DeBoer, M. D., Weber, D. R., Zemel, B. S., Denburg, M. R., Herskovitz, R., Long, J., Leonard, M. B.
2015; 100 (10): 3814-3821
- **Type 1 Diabetes Is Associated With an Increased Risk of Fracture Across the Life Span: A Population-Based Cohort Study Using The Health Improvement Network (THIN)** *DIABETES CARE*
Weber, D. R., Haynes, K., Leonard, M. B., Willi, S. M., Denburg, M. R.
2015; 38 (10): 1913-1920
- **Structural Bone Deficits in HIV/HCV-Coinfected, HCV-Monoinfected, and HIV-Monoinfected Women** *JOURNAL OF INFECTIOUS DISEASES*
Lo Re, V., Lynn, K., Stumm, E. R., Long, J., Nezamzadeh, M. S., Baker, J. F., Hoofnagle, A. N., Kapalko, A. J., Mounzer, K., Zemel, B. S., Tebas, P., Kostman, J. R., Leonard, et al
2015; 212 (6): 924-933
- **Adverse Fat Depots and Marrow Adiposity Are Associated With Skeletal Deficits and Insulin Resistance in Long-Term Survivors of Pediatric Hematopoietic Stem Cell Transplantation** *JOURNAL OF BONE AND MINERAL RESEARCH*
Mostoufi-Moab, S., Magland, J., Isaacoff, E. J., Sun, W., Rajapakse, C. S., Zemel, B., Wehrl, F., Shekdar, K., Baker, J., Long, J., Leonard, M. B.
2015; 30 (9): 1657-1666
- **Deficits in bone density and structure in children and young adults following Fontan palliation** *BONE*
Avitabile, C. M., Goldberg, D. J., Zemel, B. S., Brodsky, J. L., Dodds, K., Hayden-Rush, C., Whitehead, K. K., Goldmuntz, E., Rychik, J., Leonard, M. B.
2015; 77: 12-16
- **Fractures on bisphosphonates in osteoporosis pseudoglioma syndrome (OPPG): pQCT shows poor bone density and structure** *BONE*
Streeten, E. A., Ramirez, S., Eliades, M., Jaimungal, S., Chandrasekaran, S., Kathleen, R., Morton, D. H., Puffenberger, E. G., Herskovitz, R., Leonard, M. B.
2015; 77: 17-23
- **Fractures on bisphosphonates in osteoporosis pseudoglioma syndrome (OPPG): pQCT shows poor bone density and structure.** *Bone*
Streeten, E. A., Ramirez, S., Eliades, M., Jaimungal, S., Chandrasekaran, S., Kathleen, R., Holmes Morton, D., Puffenberger, E. G., Herskovitz, R., Leonard, M. B.
2015; 77: 17-23
- **Improvements in Bone Density and Structure during Anti-TNF- α Therapy in Pediatric Crohn's Disease.** *journal of clinical endocrinology & metabolism*
Griffin, L. M., Thayu, M., Baldassano, R. N., DeBoer, M. D., Zemel, B. S., Denburg, M. R., Denson, L. A., Shults, J., Herskovitz, R., Long, J., Leonard, M. B.
2015; 100 (7): 2630-2639

- **The impact of vitamin D-3 supplementation on muscle function among HIV-infected children and young adults: a randomized controlled trial** *JOURNAL OF MUSCULOSKELETAL & NEURONAL INTERACTIONS*
Brown, J. C., Schall, J. I., Rutstein, R. M., Leonard, M. B., Zemel, B. S., Stallings, V. A.
2015; 15 (2): 145-153
- **Tibia and radius bone geometry and volumetric density in obese compared to non-obese adolescents.** *Bone*
Leonard, M. B., Zemel, B. S., Wrotniak, B. H., Klieger, S. B., Shults, J., Stallings, V. A., Stettler, N.
2015; 73: 69-76
- **Tibia and radius bone geometry and volumetric density in obese compared to non-obese adolescents** *BONE*
Leonard, M. B., Zemel, B. S., Wrotniak, B. H., Klieger, S. B., Shults, J., Stallings, V. A., Stettler, N.
2015; 73: 69-76
- **Usefulness of Insulin like Growth Factor 1 as a Marker of Heart Failure in Children and Young Adults After the Fontan Palliation Procedure** *AMERICAN JOURNAL OF CARDIOLOGY*
Avitabile, C. M., Leonard, M. B., Brodsky, J. L., Whitehead, K. K., Ravishankar, C., Cohen, M. S., Gaynor, J. W., Rychik, J., Goldberg, D. J.
2015; 115 (6): 816-820
- **Revisiting KDIGO clinical practice guideline on chronic kidney disease-mineral and bone disorder: a commentary from a Kidney Disease: Improving Global Outcomes controversies conference** *KIDNEY INTERNATIONAL*
Ketteler, M., Elder, G. J., Evenepoel, P., Ix, J. H., Jamal, S. A., Lafage-Proust, M., Shroff, R., Thadhani, R. I., Tonelli, M. A., Kasiske, B. L., Wheeler, D. C., Leonard, M. B.
2015; 87 (3): 502-508
- **Muscle Torque Relative to Cross-Sectional Area and the Functional Muscle-Bone Unit in Children and Adolescents With Chronic Disease** *JOURNAL OF BONE AND MINERAL RESEARCH*
Lee, D. Y., Wetzsteon, R. J., Zemel, B. S., Shults, J., Organ, J. M., Foster, B. J., Herskovitz, R. M., Foerster, D. L., Leonard, M. B.
2015; 30 (3): 563-571
- **Muscle Torque Relative to Cross-Sectional Area and the Functional Muscle-Bone Unit in Children and Adolescents With Chronic Disease** *JOURNAL OF BONE AND MINERAL RESEARCH*
Lee, D. Y., Wetzsteon, R. J., Zemel, B. S., Shults, J., Organ, J. M., Foster, B. J., Herskovitz, R. M., Foerster, D. L., Leonard, M. B.
2015; 30 (3): 575-583
- **Obesity Is Associated with Greater Valgus Knee Alignment in Pubertal Children, and Higher Body Mass Index Is Associated with Greater Variability in Knee Alignment in Girls** *JOURNAL OF RHEUMATOLOGY*
Bout-Tabaku, S., Shults, J., Zemel, B. S., Leonard, M. B., Berkowitz, R. I., Stettler, N., Burnham, J. M.
2015; 42 (1): 126-133
- **Are Men at Greater Risk of Lean Mass Deficits in Rheumatoid Arthritis?** *ARTHRITIS CARE & RESEARCH*
Baker, J. F., Long, J., Ibrahim, S., Leonard, M. B., Katz, P.
2015; 67 (1): 112-119
- **Risk of Fracture in Urolithiasis: A Population-Based Cohort Study Using the Health Improvement Network** *CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Denburg, M. R., Leonard, M. B., Haynes, K., Tuchman, S., Tasian, G., Shults, J., Copelovitch, L.
2014; 9 (12): 2133-2140
- **Urinary Creatinine Excretion, Bioelectrical Impedance Analysis, and Clinical Outcomes in Patients with CKD: The CRIC Study** *CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Wilson, F. P., Xie, D., Anderson, A. H., Leonard, M. B., Reese, P. P., Delafontaine, P., Horwitz, E., Kallem, R., Navaneethan, S., Ojo, A., Porter, A. C., Sondheim, J. H., Sweeney, et al
2014; 9 (12): 2095-2103
- **Lean mass deficits, vitamin D status and exercise capacity in children and young adults after Fontan palliation** *HEART*
Avitabile, C. M., Leonard, M. B., Zemel, B. S., Brodsky, J. L., Lee, D., Dodds, K., Hayden-Rush, C., Whitehead, K. K., Goldmuntz, E., Paridon, S. M., Rychik, J., Goldberg, D. J.
2014; 100 (21): 1702-1707
- **Deficits in Muscle Mass, Muscle Density, and Modified Associations With Fat in Rheumatoid Arthritis** *ARTHRITIS CARE & RESEARCH*
Baker, J. F., Von Feldt, J., Mostoufi-Moab, S., Noaiseh, G., Taratuta, E., Kim, W., Leonard, M. B.

2014; 66 (11): 1612-1618

- **A Comparison of Fat and Lean Body Mass Index to BMI for the Identification of Metabolic Syndrome in Children and Adolescents** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
Weber, D. R., Leonard, M. B., Shults, J., Zemel, B. S.
2014; 99 (9): 3208-3216
- **Risk of hip fracture associated with untreated and treated chronic hepatitis B virus infection** *JOURNAL OF HEPATOLOGY*
Byrne, D. D., Newcomb, C. W., Carbonari, D. M., Nezamzadeh, M. S., Leidl, K. B., Herlim, M., Yang, Y., Hennessy, S., Kostman, J. R., Leonard, M. B., Localio, A. R., Lo Re, V.
2014; 61 (2): 210-218
- **Changes in trabecular bone density in incident pediatric Crohn's disease: a comparison of imaging methods** *OSTEOPOROSIS INTERNATIONAL*
Tsampalieros, A., Berkenstock, M. K., Zemel, B. S., Griffin, L., Shults, J., Burnham, J. M., Baldassano, R. N., Leonard, M. B.
2014; 25 (7): 1875-1883
- **Serum Aldosterone and Death, End-Stage Renal Disease, and Cardiovascular Events in Blacks and Whites Findings From the Chronic Renal Insufficiency Cohort (CRIC) Study** *HYPERTENSION*
Deo, R., Yang, W., Khan, A. M., Bansal, N., Zhang, X., Leonard, M. B., Keane, M. G., Soliman, E. Z., Steigerwalt, S., Townsend, R. R., Shlipak, M. G., Feldman, H. I.
2014; 64 (1): 103-110
- **Changes in Vitamin D-Related Mineral Metabolism After Induction With Anti-Tumor Necrosis Factor-alpha Therapy in Crohn's Disease** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
Augustine, M. V., Leonard, M. B., Thayu, M., Baldassano, R. N., de Boer, I. H., Shults, J., Denson, L. A., DeBoer, M. D., Herskovitz, R., Denburg, M. R.
2014; 99 (6): E991-E998
- **Prevalence of diagnosed chronic hepatitis B infection among US Medicaid enrollees, 2000-2007** *29th International Conference on Pharmacoepidemiology and Therapeutic Risk Management*
Byrne, D. D., Newcomb, C. W., Carbonari, D. M., Nezamzadeh, M. S., Leidl, K. B., Herlim, M., Yang, Y., Hennessy, S., Kostman, J. R., Leonard, M. B., Localio, R., Lo Re, V.
ELSEVIER SCIENCE INC.2014: 418-23
- **Increasing Use of Vitamin D Supplementation in the Chronic Renal Insufficiency Cohort Study** *JOURNAL OF RENAL NUTRITION*
Mariani, L. H., White, M. T., Shults, J., Anderson, C. A., Feldman, H. I., Wolf, M., Reese, P. P., Denburg, M. R., Townsend, R. R., Lo, J. C., Cappola, A. R., Carlow, D., Gadegbeku, et al
2014; 24 (3): 186-193
- **2013 Pediatric Position Development Conference: Executive Summary and Reflections** *JOURNAL OF CLINICAL DENSITOMETRY*
Gordon, C. M., Leonard, M. B., Zemel, B. S.
2014; 17 (2): 219-224
- **Bone Health in Children and Adolescents With Chronic Diseases That May Affect the Skeleton: The 2013 ISCD Pediatric Official Positions** *JOURNAL OF CLINICAL DENSITOMETRY*
Bianchi, M. L., Leonard, M. B., Bechtold, S., Hoegler, W., Mughal, M. Z., Schoenau, E., Sylvester, F. A., Vogiatzi, M., van den Heuvel-Eibrink, M. M., Ward, L.
2014; 17 (2): 281-294
- **Bone health in children and adolescents with chronic diseases that may affect the skeleton: the 2013 ISCD Pediatric Official Positions.** *Journal of clinical densitometry*
Bianchi, M. L., Leonard, M. B., Bechtold, S., Högler, W., Mughal, M. Z., Schönau, E., Sylvester, F. A., Vogiatzi, M., van den Heuvel-Eibrink, M. M., Ward, L.
2014; 17 (2): 281-294
- **Changes in DXA and Quantitative CT Measures of Musculoskeletal Outcomes Following Pediatric Renal Transplantation** *AMERICAN JOURNAL OF TRANSPLANTATION*
Tsampalieros, A., Griffin, L., Terpstra, A. M., Kalkwarf, H. J., Shults, J., Foster, B. J., Zemel, B. S., Foerster, D. L., Leonard, M. B.
2014; 14 (1): 124-132

- **Childhood Cancer Survivors Exposed to Total Body Irradiation Are At Significant Risk For Slipped Capital Femoral Epiphysis During Recombinant Growth Hormone Therapy** *PEDIATRIC BLOOD & CANCER*
Mostoufi-Moab, S., Isaacoff, E. J., Spiegel, D., Gruccio, D., Ginsberg, J. P., Hobbie, W., Shults, J., Leonard, M. B.
2013; 60 (11): 1766-1771
- **Reply to RF Burton.** *American journal of clinical nutrition*
Weber, D. R., Moore, R. H., Leonard, M. B., Zemel, B. S.
2013; 98 (5): 1368-1369
- **Vitamin D bioavailability and catabolism in pediatric chronic kidney disease** *PEDIATRIC NEPHROLOGY*
Denburg, M. R., Kalkwarf, H. J., de Boer, I. H., Hewison, M., Shults, J., Zemel, B. S., Stokes, D., Foerster, D., Laskin, B., Ramirez, A., Leonard, M. B.
2013; 28 (9): 1843-1853
- **Long-Term Inflammation and Glucocorticoid Therapy Impair Skeletal Modeling During Growth in Childhood Crohn Disease** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
Tsampalieros, A., Lam, C. K., Spencer, J. C., Thayu, M., Shults, J., Zemel, B. S., Herskovitz, R. M., Baldassano, R. N., Leonard, M. B.
2013; 98 (8): 3438-3445
- **Fat and lean BMI reference curves in children and adolescents and their utility in identifying excess adiposity compared with BMI and percentage body fat** *AMERICAN JOURNAL OF CLINICAL NUTRITION*
Weber, D. R., Moore, R. H., Leonard, M. B., Zemel, B. S.
2013; 98 (1): 49-56
- **FGF23 Modifies the Relationship Between Vitamin D and Cardiac Remodeling** *CIRCULATION-HEART FAILURE*
Ky, B., Shults, J., Keane, M. G., Sutton, M. S., Wolf, M., Feldman, H. I., Reese, P. P., Anderson, C. A., Townsend, R. R., Deo, R., Lo, J., Gadegbeku, C., Carlow, et al
2013; 6 (4): 817-824
- **Mineral Metabolism and Cortical Volumetric Bone Mineral Density in Childhood Chronic Kidney Disease** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
Denburg, M. R., Tsampalieros, A. K., de Boer, I. H., Shults, J., Kalkwarf, H. J., Zemel, B. S., Foerster, D., Stokes, D., Leonard, M. B.
2013; 98 (5): 1930-1938
- **Changes in bone structure and the muscle-bone unit in children with chronic kidney disease** *KIDNEY INTERNATIONAL*
Tsampalieros, A., Kalkwarf, H. J., Wetzsteon, R. J., Shults, J., Zemel, B. S., Foster, B. J., Foerster, D. L., Leonard, M. B.
2013; 83 (3): 495-502
- **Glucocorticoid effects on changes in bone mineral density and cortical structure in childhood nephrotic syndrome** *JOURNAL OF BONE AND MINERAL RESEARCH*
Tsampalieros, A., Gupta, P., Denburg, M. R., Shults, J., Zemel, B. S., Mostoufi-Moab, S., Wetzsteon, R. J., Herskovitz, R. M., Whitehead, K. M., Leonard, M. B.
2013; 28 (3): 480-488
- **Associations between body composition and bone density and structure in men and women across the adult age spectrum** *BONE*
Baker, J. F., Davis, M., Alexander, R., Zemel, B. S., Mostoufi-Moab, S., Shults, J., Sulik, M., Schiferl, D. J., Leonard, M. B.
2013; 53 (1): 34-41
- **Nutritional vitamin D use in chronic kidney disease: a survey of pediatric nephrologists** *PEDIATRIC NEPHROLOGY*
Griffin, L. M., Denburg, M. R., Shults, J., Furth, S. L., Salusky, I. B., Hwang, W., Leonard, M. B.
2013; 28 (2): 265-275
- **Changes in Vitamin D and Parathyroid Hormone Metabolism in Incident Pediatric Crohn's Disease** *INFLAMMATORY BOWEL DISEASES*
Prosnitz, A. R., Leonard, M. B., Shults, J., Zemel, B. S., Hollis, B. W., Denson, L. A., Baldassano, R. N., Cohen, A. B., Thayu, M.
2013; 19 (1): 45-53
- **Physical Performance and Frailty in Chronic Kidney Disease** *AMERICAN JOURNAL OF NEPHROLOGY*
Reese, P. P., Cappola, A. R., Shults, J., Townsend, R. R., Gadegbeku, C. A., Anderson, C., Baker, J. F., Carlow, D., Sulik, M. J., Lo, J. C., Go, A. S., Ky, B., Mariani, et al
2013; 38 (4): 307-315
- **Body composition analysis in the pediatric population.** *Pediatric endocrinology reviews : PER*

- Weber, D. R., Leonard, M. B., Zemel, B. S.
2012; 10 (1): 130-139
- **Risk of hip fracture associated with hepatitis c virus infection and hepatitis C/human immunodeficiency virus coinfection** *HEPATOLOGY*
Lo Re, V., Volk, J., Newcomb, C. W., Yang, Y., Freeman, C. P., Hennessy, S., Kostman, J. R., Tebas, P., Leonard, M. B., Localio, A. R.
2012; 56 (5): 1688-1698
 - **Longitudinal Assessment of Bone Density and Structure in Childhood Survivors of Acute Lymphoblastic Leukemia without Cranial Radiation** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
Mostoufi-Moab, S., Brodsky, J., Isaacoff, E. J., Tsampalieros, A., Ginsberg, J. P., Zemel, B., Shults, J., Leonard, M. B.
2012; 97 (10): 3584-3592
 - **Vitamin D, Metabolic Dyslipidemia, and Metabolic Syndrome in Rheumatoid Arthritis** *AMERICAN JOURNAL OF MEDICINE*
Baker, J. F., Mehta, N. N., Baker, D. G., Toedter, G., Shults, J., Von Feldt, J. M., Leonard, M. B.
2012; 125 (10)
 - **Associations between vitamin D, disease activity, and clinical response to therapy in rheumatoid arthritis** *CLINICAL AND EXPERIMENTAL RHEUMATOLOGY*
Baker, J. F., Baker, D. G., TOEDTER, G., Shults, J., Von Feldt, J. M., Leonard, M. B.
2012; 30 (5): 658-664
 - **Estimating GFR Among Participants in the Chronic Renal Insufficiency Cohort (CRIC) Study** *AMERICAN JOURNAL OF KIDNEY DISEASES*
Anderson, A. H., Yang, W., Hsu, C., Joffe, M. M., Leonard, M. B., Xie, D., Chen, J., Greene, T., Jaar, B. G., Kao, P., Kusek, J. W., Landis, J. R., Lash, et al
2012; 60 (2): 250-261
 - **Assessment of dual-energy x-ray absorptiometry measures of bone health in pediatric chronic kidney disease** *PEDIATRIC NEPHROLOGY*
Griffin, L. M., Kalkwarf, H. J., Zemel, B. S., Shults, J., Wetzsteon, R. J., Strife, C. F., Leonard, M. B.
2012; 27 (7): 1139-1148
 - **Factors Associated With Depressive Symptoms and Use of Antidepressant Medications Among Participants in the Chronic Renal Insufficiency Cohort (CRIC) and Hispanic-CRIC Studies** *AMERICAN JOURNAL OF KIDNEY DISEASES*
Fischer, M. J., Xie, D., Jordan, N., Kop, W. J., Krousel-Wood, M., Tamura, M. K., Kusek, J. W., Ford, V., Rosen, L. K., Strauss, L., Teal, V. L., Yaffe, K., Powe, et al
2012; 60 (1): 27-38
 - **Fibroblast Growth Factor 23 and Inflammation in CKD** *CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Mendoza, F. A., Lsakova, T., Ricardo, A. C., Xie, H., Navaneethan, S. D., Anderson, A. H., Bazzano, L. A., Xie, D., Kretzler, M., Nesse, L., Hamm, L. L., Negrea, L., Leonard, et al
2012; 7 (7): 1155-1162
 - **Earlier Onset and Greater Severity of Disordered Mineral Metabolism in Diabetic Patients With Chronic Kidney Disease** *DIABETES CARE*
Wahl, P., Xie, H., Scialla, J., Anderson, C. A., Bellovich, K., Brecklin, C., Chen, J., Feldman, H., Gutierrez, O. M., Lash, J., Leonard, M. B., Negrea, L., Rosas, et al
2012; 35 (5): 994-1001
 - **Vitamin D deficiency is common in children and adolescents with chronic kidney disease** *KIDNEY INTERNATIONAL*
Kalkwarf, H. J., Denburg, M. R., Strife, C. F., Zemel, B. S., Foerster, D. L., Wetzsteon, R. J., Leonard, M. B.
2012; 81 (7): 690-697
 - **Interpretation of Body Mass Index in Children with CKD** *CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Gao, T., Leonard, M. B., Zemel, B., Kalkwarf, H. J., Foster, B. J.
2012; 7 (4): 558-564
 - **Bone Density and Structure in Long-Term Survivors of Pediatric Allogeneic Hematopoietic Stem Cell Transplantation** *JOURNAL OF BONE AND MINERAL RESEARCH*
Mostoufi-Moab, S., Ginsberg, J. P., Bunin, N., Zemel, B., Shults, J., Leonard, M. B.
2012; 27 (4): 760-769
 - **Bone Density and Cortical Structure after Pediatric Renal Transplantation** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Terpstra, A. M., Kalkwarf, H. J., Shults, J., Zemel, B. S., Wetzsteon, R. J., Foster, B. J., Strife, C. F., Foerster, D. L., Leonard, M. B.

2012; 23 (4): 715-726

- **Micro-MR Imaging-based Computational Biomechanics Demonstrates Reduction in Cortical and Trabecular Bone Strength after Renal Transplantation** *RADIOLOGY*
Rajapakse, C. S., Leonard, M. B., Bhagat, Y. A., Sun, W., Magland, J. F., Wehrli, F. W.
2012; 262 (3): 912-920
- **Reduced Fracture Risk With Early Corticosteroid Withdrawal After Kidney Transplant** *AMERICAN JOURNAL OF TRANSPLANTATION*
Nikkel, L. E., Mohan, S., Zhang, A., McMahon, D. J., Boutroy, S., Dube, G., Tanriover, B., Cohen, D., Ratner, L., Hollenbeak, C. S., Leonard, M. B., Shane, E., Nickolas, et al
2012; 12 (3): 649-659
- **Changes in vitamin D binding protein and vitamin D concentrations associated with liver transplantation** *LIVER INTERNATIONAL*
Reese, P. P., Bloom, R. D., Feldman, H. I., Huverserian, A., Thomasson, A., Shults, J., Hamano, T., Goral, S., Shaked, A., Olthoff, K., Rickels, M. R., Bleicher, M., Leonard, et al
2012; 32 (2): 287-296
- **Associations Between Psychiatric Comorbidities and Sleep Disturbances in Children With Attention-Deficit/Hyperactivity Disorder** *JOURNAL OF DEVELOPMENTAL AND BEHAVIORAL PEDIATRICS*
Accardo, J. A., Marcus, C. L., Leonard, M. B., Shults, J., Meltzer, L. J., Elia, J.
2012; 33 (2): 97-105
- **Body Composition Abnormalities in Long-Term Survivors of Pediatric Hematopoietic Stem Cell Transplantation** *JOURNAL OF PEDIATRICS*
Mostoufi-Moab, S., Ginsberg, J. P., Bunin, N., Zemel, B. S., Shults, J., Thayu, M., Leonard, M. B.
2012; 160 (1): 122-128
- **Correlates of Osteoprotegerin and Association with Aortic Pulse Wave Velocity in Patients with Chronic Kidney Disease** *CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Scialla, J. J., Leonard, M. B., Townsend, R. R., Appel, L., Wolf, M., Budoff, M. J., Chen, J., Lustigova, E., Gadegbeku, C. A., Glenn, M., Hanish, A., Raj, D., Rosas, et al
2011; 6 (11): 2612-2619
- **Validation of The Health Improvement Network (THIN) database for epidemiologic studies of chronic kidney disease** *PHARMACOEPIDEMIOLOGY AND DRUG SAFETY*
Denburg, M. R., Haynes, K., Shults, J., Lewis, J. D., Leonard, M. B.
2011; 20 (11): 1138-1149
- **Associations between body mass, radiographic joint damage, adipokines and risk factors for bone loss in rheumatoid arthritis** *RHEUMATOLOGY*
Baker, J. F., George, M., Baker, D. G., Toedter, G., Von Feldt, J. M., Leonard, M. B.
2011; 50 (11): 2100-2107
- **On the Significance of Motion Degradation in High-resolution 3D mu MRI of Trabecular Bone** *ACADEMIC RADIOLOGY*
Bhagat, Y. A., Rajapakse, C. S., Magland, J. F., Wald, M. J., Song, H. K., Leonard, M. B., Wehrli, F. W.
2011; 18 (10): 1205-1216
- **Volumetric Bone Mineral Density and Bone Structure in Childhood Chronic Kidney Disease** *JOURNAL OF BONE AND MINERAL RESEARCH*
Wetzsteon, R. J., Kalkwarf, H. J., Shults, J., Zemel, B. S., Foster, B. J., Griffin, L., Strife, C. F., Foerster, D. L., Jean-Pierre, D. K., Leonard, M. B.
2011; 26 (9): 2235-2244
- **Discriminants of Prevalent Fractures in Chronic Kidney Disease** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Nickolas, T. L., Cremers, S., Zhang, A., Thomas, V., Stein, E., Cohen, A., Chauncey, R., Nikkel, L., Yin, M. T., Liu, X. S., Boutroy, S., Staron, R. B., Leonard, et al
2011; 22 (8): 1560-1572
- **Skeletal Health of Children and Adolescents With Inflammatory Bowel Disease** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
Pappa, H., Thayu, M., Sylvester, F., Leonard, M., Zemel, B., Gordon, C.
2011; 53 (1): 11-25
- **Circulating MicroRNA Is a Biomarker of Pediatric Crohn Disease** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
Zahm, A. M., Thayu, M., Hand, N. J., Horner, A., Leonard, M. B., Friedman, J. R.

2011; 53 (1): 26-33

- **Fibroblast Growth Factor 23 and Risks of Mortality and End-Stage Renal Disease in Patients With Chronic Kidney Disease** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Isakova, T., Xie, H., Yang, W., Xie, D., Anderson, A. H., Scialla, J., Wahl, P., Gutierrez, O. M., Steigerwalt, S., He, J., Schwartz, S., Lo, J., Ojo, et al
2011; 305 (23): 2432-2439
- **Fibroblast growth factor 23 is elevated before parathyroid hormone and phosphate in chronic kidney disease** *KIDNEY INTERNATIONAL*
Isakova, T., Wahl, P., Vargas, G. S., Gutierrez, O. M., Scialla, J., Xie, H., Appleby, D., Nessel, L., Bellovich, K., Chen, J., Hamm, L., Gadegbeku, C., Horwitz, et al
2011; 79 (12): 1370-1378
- **Exposure to CYP3A4-inducing and CYP3A4-non-inducing antiepileptic agents and the risk of fractures** *PHARMACOEPIDEMIOLOGY AND DRUG SAFETY*
Schelleman, H., Pollard, J. R., Newcomb, C., Markowitz, C. E., Bilker, W. B., Leonard, M. B., Hennessy, S.
2011; 20 (6): 619-625
- **Mechanical loads and cortical bone geometry in healthy children and young adults** *BONE*
Wetzsteon, R. J., Zemel, B. S., Shults, J., Howard, K. M., Kibe, L. W., Leonard, M. B.
2011; 48 (5): 1103-1108
- **Diuretics, calciuria and secondary hyperparathyroidism in the Chronic Renal Insufficiency Cohort (CRIC)** *NEPHROLOGY DIALYSIS TRANSPLANTATION*
Isakova, T., Anderson, C. A., Leonard, M. B., Xie, D., Gutierrez, O. M., Rosen, L. K., Theurer, J., Bellovich, K., Steigerwalt, S. P., Tang, I., Anderson, A. H., Townsend, R. R., He, et al
2011; 26 (4): 1258-1265
- **Association of Chronic Kidney Disease with Muscle Deficits in Children** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Foster, B. J., Kalkwarf, H. J., Shults, J., Zemel, B. S., Wetzsteon, R. J., Thayu, M., Foerster, D. L., Leonard, M. B.
2011; 22 (2): 377-386
- **Vitamin D deficiency and parathyroid hormone levels following renal transplantation in children** *PEDIATRIC NEPHROLOGY*
Tuchman, S., Kalkwarf, H. J., Zemel, B. S., Shults, J., Wetzsteon, R. J., Foerster, D., Strife, C. F., Leonard, M. B.
2010; 25 (12): 2509-2516
- **Longitudinal relations between obesity and hypertension following pediatric renal transplantation** *PEDIATRIC NEPHROLOGY*
Denburg, M. R., Pradhan, M., Shults, J., Jones, A., Palmer, J. A., Baluarte, H. J., Leonard, M. B.
2010; 25 (10): 2129-2139
- **Changing Indications for Upper Endoscopy in Children During a 20-year Period** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
Franciosi, J. P., Fiorino, K., Ruchelli, E., Shults, J., Spergel, J., Liacouras, C. A., Leonard, M.
2010; 51 (4): 443-447
- **Differences in Overnight Polysomnography Scores Using the Adult and Pediatric Criteria for Respiratory Events in Adolescents** *SLEEP*
Accardo, J. A., Shults, J., Leonard, M. B., Traylor, J., Marcus, C. L.
2010; 33 (10): 1333-1339
- **Determinants of Changes in Linear Growth and Body Composition in Incident Pediatric Crohn's Disease** *GASTROENTEROLOGY*
Thayu, M., Denson, L. A., Shults, J., Zemel, B. S., Burnham, J. M., Baldassano, R. N., Howard, K. M., Ryan, A., Leonard, M. B.
2010; 139 (2): 430-438
- **Bone Mass and Microarchitecture in CKD Patients with Fracture** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Nickolas, T. L., Stein, E., Cohen, A., Thomas, V., Staron, R. B., McMahon, D. J., Leonard, M. B., Shane, E.
2010; 21 (8): 1371-1380
- **Pathologic Lower Extremity Fractures in Children With Alagille Syndrome** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
Bales, C. B., Kamath, B. M., Munoz, P. S., Nguyen, A., Piccoli, D. A., Spinner, N. B., Horn, D., Shults, J., Leonard, M. B., Grimberg, A., Loomes, K. M.
2010; 51 (1): 66-70

- **Effects of Sex, Race, and Puberty on Cortical Bone and the Functional Muscle Bone Unit in Children, Adolescents, and Young Adults** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
Leonard, M. B., Elmi, A., Mostoufi-Moab, S., Shults, J., Burnham, J. M., Thayu, M., Kibe, L., Wetzsteon, R. J., Zemel, B. S.
2010; 95 (4): 1681-1689
- **Height Adjustment in Assessing Dual Energy X-Ray Absorptiometry Measurements of Bone Mass and Density in Children** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
Zemel, B. S., Leonard, M. B., Kelly, A., Lappe, J. M., Gilsanz, V., Oberfield, S., Mahboubi, S., Shepherd, J. A., Hangartner, T. N., Frederick, M. M., Winer, K. K., Kalkwarf, H. J.
2010; 95 (3): 1265-1273
- **Chronic Kidney Disease and Cognitive Function in Older Adults: Findings from the Chronic Renal Insufficiency Cohort Cognitive Study** *JOURNAL OF THE AMERICAN GERIATRICS SOCIETY*
Yaffe, K., Ackerson, L., Tamura, M. K., Le Blanc, P., Kusek, J. W., Sehgal, A. R., Cohen, D., Anderson, C., Appel, L., DeSalvo, K., Ojo, A., Seliger, S., Robinson, et al
2010; 58 (2): 338-345
- **Official positions of the International Society for Clinical Densitometry (ISCD) on DXA evaluation in children and adolescents** *PEDIATRIC NEPHROLOGY*
Bianchi, M. L., Baim, S., Bishop, N. J., Gordon, C. M., Hans, D. B., Langman, C. B., Leonard, M. B., Kalkwarf, H. J.
2010; 25 (1): 37-47
- **Variation in Inpatient Therapy and Diagnostic Evaluation of Children with Henoch Schonlein Purpura** *JOURNAL OF PEDIATRICS*
Weiss, P. F., Klink, A. J., Hexem, K., Burnham, J. M., Leonard, M. B., Keren, R., Localio, R., Feudtner, C.
2009; 155 (6): 812-U272
- **Variation in inpatient therapy and diagnostic evaluation of children with Henoch Schönlein purpura.** *journal of pediatrics*
Weiss, P. F., Klink, A. J., Hexem, K., Burnham, J. M., Leonard, M. B., Keren, R., Localio, R., Feudtner, C.
2009; 155 (6): 812-818 e1
- **Serum Adiponectin Levels and Ambulatory Blood Pressure Monitoring in Pediatric Renal Transplant Recipients** *TRANSPLANTATION*
Sethna, C. B., Leonard, M. B., Gallagher, P. R., Meyers, K. E.
2009; 88 (8): 1030-1037
- **Viral hepatitis is associated with reduced bone mineral density in HIV-infected women but not men** *16th Conference on Retroviruses and Opportunistic Infections (CROI)*
Lo Re, V., Guaraldi, G., Leonard, M. B., Localio, A. R., Lin, J., Orlando, G., Zirilli, L., Rochira, V., Kostman, J. R., Tebas, P.
LIPPINCOTT WILLIAMS & WILKINS.2009: 2191-98
- **Cardiorespiratory Fitness in Pediatric Renal Transplant Recipients** *TRANSPLANTATION*
Sethna, C. B., Salerno, A. E., McBride, M. G., Shults, J., Paridon, S. M., Sharma, N., Meyers, K. E., Leonard, M. B.
2009; 88 (3): 395-401
- **Hypovitaminosis D is Associated with Greater Body Mass Index and Disease Activity in Pediatric Systemic Lupus Erythematosus** *JOURNAL OF PEDIATRICS*
Wright, T. B., Shults, J., Leonard, M. B., Zemel, B. S., Burnham, J. M.
2009; 155 (2): 260-265
- **Revised Pediatric Reference Data for the Lateral Distal Femur Measured by Hologic Discovery/Delphi Dual-Energy X-Ray Absorptiometry** *JOURNAL OF CLINICAL DENSITOMETRY*
Zemel, B. S., Stallings, V. A., Leonard, M. B., Paulhamus, D. R., Kecskemethy, H. H., Harcke, H. T., Henderson, R. C.
2009; 12 (2): 207-218
- **Divergent Effects of Glucocorticoids on Cortical and Trabecular Compartment BMD in Childhood Nephrotic Syndrome** *JOURNAL OF BONE AND MINERAL RESEARCH*
Wetzsteon, R. J., Shults, J., Zemel, B. S., Gupta, P. U., Burnham, J. M., Herskovitz, R. M., Howard, K. M., Leonard, M. B.
2009; 24 (3): 503-513
- **A Structural Approach to Skeletal Fragility in Chronic Kidney Disease** *SEMINARS IN NEPHROLOGY*
Leonard, M. B.
2009; 29 (2): 133-143

- **A Note on the Use of Unbiased Estimating Equations to Estimate Correlation in Analysis of Longitudinal Trials** *BIOMETRICAL JOURNAL*
Sun, W., Shults, J., Leonard, M.
2009; 51 (1): 5-18
- **Serum Alkaline Phosphatase Reflects Post-Fontan Hemodynamics in Children** *PEDIATRIC CARDIOLOGY*
Chin, A. J., Stephens, P., Goldmuntz, E., Leonard, M. B.
2009; 30 (2): 138-145
- **Retrospective 3D Registration of Trabecular Bone MR Images for Longitudinal Studies** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Magland, J. F., Jones, C. E., Leonard, M. B., Wehrli, F. W.
2009; 29 (1): 118-126
- **Bone Health in a Nonjaundiced Population of Children with Biliary Atresia** *GASTROENTEROLOGY RESEARCH AND PRACTICE*
Kramer, R. A., Zemel, B. S., Arvay-Nezu, J. L., Stallings, V. A., Leonard, M. B., Haber, B. A.
2009
- **Longitudinal Assessment of Bone Density and Structure in an Incident Cohort of Children With Crohn's Disease** *GASTROENTEROLOGY*
Dubner, S. E., Shults, J., Baldassano, R. N., Zemel, B. S., Thayu, M., Burnham, J. M., Herskovitz, R. M., Howard, K. M., Leonard, M. B.
2009; 136 (1): 123-130
- **Association of Serum Intact Parathyroid Hormone with Lower Estimated Glomerular Filtration Rate** *CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Muntner, P., Jones, T. M., Hyre, A. D., Melamed, M. L., Alper, A., Raggi, P., Leonard, M. B.
2009; 4 (1): 186-194
- **Improvement in Biomarkers of Bone Formation During Infliximab Therapy in Pediatric Crohn's Disease: Results of the REACH Study** *CLINICAL GASTROENTEROLOGY AND HEPATOLOGY*
Thayu, M., Leonard, M. B., Hyams, J. S., Crandall, W. V., Kugathasan, S., Otle, A. R., Olson, A., Johanns, J., Marano, C. W., Heuschkel, R. B., Veereman-Wauters, G., Griffiths, A. M., Baldassano, et al
2008; 6 (12): 1378-1384
- **International Society for Clinical Densitometry 2007 Adult and Pediatric Official Positions** *BONE*
Lewiecki, E. M., Gordon, C. M., Baim, S., Leonard, M. B., Bishop, N. J., Bianchi, M., Kalkwarf, H. J., Langman, C. B., Plotkin, H., Rauch, F., Zemel, B. S., Binkley, N., Bilezikian, et al
2008; 43 (6): 1115-1121
- **Interpretation of Biomarkers of Bone Metabolism in Children: Impact of Growth Velocity and Body Size in Healthy Children and Chronic Disease** *JOURNAL OF PEDIATRICS*
Tuchman, S., Thayu, M., Shults, J., Zemel, B. S., Burnham, J. M., Leonard, M. B.
2008; 153 (4): 484-490
- **Special report on the 2007 adult and pediatric Position Development Conferences of the International Society for Clinical Densitometry** *OSTEOPOROSIS INTERNATIONAL*
Lewiecki, E. M., Gordon, C. M., Baim, S., Binkley, N., Bilezikian, J. P., Kendler, D. L., Hans, D. B., Silverman, S., Bishop, N. J., Leonard, M. B., Bianchi, M., Kalkwarf, H. J., Langman, et al
2008; 19 (10): 1369-1378
- **Chronic kidney disease and bone fracture: a growing concern** *KIDNEY INTERNATIONAL*
Nickolas, T. L., Leonard, M. B., Shane, E.
2008; 74 (6): 721-731
- **Status of bone mineral density in patients selected for cardiac transplantation.** *Endocrine practice*
Iqbal, N., Ducharme, J., Desai, S., Chambers, S., Terembula, K., Chan, G. W., Shults, J., Leonard, M. B., Kumanyika, S.
2008; 14 (6): 704-712
- **Cortical bone water: In vivo quantification with ultrashort echo-time MR imaging** *RADIOLOGY*
Techawiboonwong, A., Song, H. K., Leonard, M. B., Wehrli, F. W.
2008; 248 (3): 824-833
- **Bone density, structure, and strength in juvenile idiopathic arthritis** *ARTHRITIS AND RHEUMATISM*
Burnham, J. M., Shults, J., Dubner, S. E., Sembhi, H., Zemel, B. S., Leonard, M. B.

2008; 58 (8): 2518-2527

- **Special report on the 2007 pediatric Position Development Conference of the International Society for Clinical Densitometry** *SOUTHERN MEDICAL JOURNAL*
Gordon, C. M., Baim, S., Bianchi, M., Bishop, N. J., Hans, D. B., Kalkwarf, H., Langman, C., Leonard, M. B., Plotkin, H., Rauch, F., Zemel, B. S.
2008; 101 (7): 740-743
- **Assessment of spine bone mineral density in juvenile idiopathic arthritis: Impact of scan projection** *JOURNAL OF CLINICAL DENSITOMETRY*
Dubner, S. E., Shults, J., Leonard, M. B., Zemel, B. S., Sembhi, H., Burnham, J. M.
2008; 11 (2): 302-308
- **Observational study of bone accretion during successful weight loss in obese adolescents** *OBESITY*
Stettler, N., Berkowitz, R. I., Cronquist, J. L., Shults, J., Wadden, T. A., Zemel, B. S., Leonard, M. B.
2008; 16 (1): 96-101
- **Official positions of the International Society for Clinical Densitometry and executive summary of the 2007 ISCD Pediatric Position Development Conference** *JOURNAL OF CLINICAL DENSITOMETRY*
Baim, S., Leonard, M. B., Bianchi, M., Hans, D. B., Kalkwarf, H. J., Langman, C. B., Rauch, F.
2008; 11 (1): 6-21
- **Volumetric bladder ultrasound performed by trained nurses increases catheterization success in pediatric patients** *Annual Meeting of the Society-of-Academic-Emergency-Medicine*
Baumann, B. M., McCans, K., Stahmer, S. A., Leonard, M. B., Shults, J., Holmes, W. C.
W B SAUNDERS CO-ELSEVIER INC.2008: 18–23
- **Vitamin D insufficiency in children, adolescents, and young adults with cystic fibrosis despite routine oral supplementation** *AMERICAN JOURNAL OF CLINICAL NUTRITION*
Rovner, A. J., Stallings, V. A., Schall, J. I., Leonard, M. B., Zemel, B. S.
2007; 86 (6): 1694-1699
- **A structural approach to the assessment of fracture risk in children and adolescents with chronic kidney disease** *PEDIATRIC NEPHROLOGY*
Leonard, M. B.
2007; 22 (11): 1815-1824
- **Caregiver and health care provider satisfaction with volumetric bladder ultrasound** *ACADEMIC EMERGENCY MEDICINE*
Baumann, B. M., McCans, K., Stahmer, S. A., Leonard, M. B., Shults, J., Holmes, W. C.
2007; 14 (10): 903-907
- **Gender differences in body composition deficits at diagnosis in children and adolescents with Crohn's disease** *INFLAMMATORY BOWEL DISEASES*
Thoyu, M., Shults, J., Burnham, J. M., Zemel, B. S., Baldassano, R. N., Leonard, M. B.
2007; 13 (9): 1121-1128
- **Risk factors for low serum 25-hydroxyvitamin D concentrations in otherwise healthy children and adolescents** *AMERICAN JOURNAL OF CLINICAL NUTRITION*
Weng, F. L., Shults, J., Leonard, M. B., Stallings, V. A., Zemel, B. S.
2007; 86 (1): 150-158
- **Alterations in proximal femur geometry in children treated with glucocorticoids for Crohn disease or nephrotic syndrome: Impact of the underlying disease** *JOURNAL OF BONE AND MINERAL RESEARCH*
Burnham, J. M., Shults, J., Petit, M. A., Semeao, E., Beck, T. J., Zemel, B. S., Leonard, M. B.
2007; 22 (4): 551-559
- **Glucocorticoid-induced osteoporosis in children: Impact of the underlying disease** *Workshop on Skeletal Effects of Pharmacologic Agents in Children*
Leonard, M. B.
AMER ACAD PEDIATRICS.2007: S166–S174
- **Quantitative microcomputed tomography assessment of intratrabecular, intertrabecular, and cortical bone architecture in a rat model of severe renal osteodystrophy** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*

Hopper, T. A., Wehrli, F. W., Saha, P. K., Andre, J. B., Wright, A. C., Sanchez, C. P., Leonard, M. B.

2007; 31 (2): 320-328

- **Improved generalized estimating equation analysis via xtqls for quasi-least squares in Stata** *STATA JOURNAL*
Shults, J., Ratcliffe, S. J., Leonard, M.
2007; 7 (2): 147-166
- **The dysfunctional muscle-bone unit in juvenile idiopathic arthritis.** *Journal of musculoskeletal & neuronal interactions*
Burnham, J. M., Shults, J., Sembhi, H., Zemel, B. S., Leonard, M. B.
2006; 6 (4): 351-352
- **Childhood onset arthritis is associated with an increased risk of fracture: a population based study using the General Practice Research Database** *ANNALS OF THE RHEUMATIC DISEASES*
Burnham, J. M., Shults, J., Weinstein, R., Lewis, J. D., Leonard, M. B.
2006; 65 (8): 1074-1079
- **Risk factors for glucocorticoid-induced obesity in children with steroid-sensitive nephrotic syndrome** *PEDIATRIC NEPHROLOGY*
Foster, B. J., Shults, J., Zemel, B. S., Leonard, M. B.
2006; 21 (7): 973-980
- **DXA estimates of vertebral volumetric bone mineral density in children: Potential advantages of paired posteroanterior and lateral scans** *JOURNAL OF CLINICAL DENSITOMETRY*
Leonard, M. B., Shults, J., Zemel, B. S.
2006; 9 (3): 265-273
- **Predictors of immunomodulator use as early therapy in pediatric Crohn's disease** *JOURNAL OF CLINICAL GASTROENTEROLOGY*
Jacobstein, D. A., Mamula, P., Markowitz, J. E., Leonard, M., Baldassano, R. N.
2006; 40 (2): 145-148
- **The state of pediatric bone: Summary of the ASBMR pediatric bone initiative** *JOURNAL OF BONE AND MINERAL RESEARCH*
Klein, G. L., Fitzpatrick, L. A., Langman, C. B., Beck, T. J., Carpenter, T. O., Gilsanz, V., Holm, I. A., Leonard, M. B., Specker, B. L.
2005; 20 (12): 2075-2081
- **Bone area and bone mineral content deficits in children with sickle cell disease** *PEDIATRICS*
Buisson, A. M., Kawchak, D. A., Schall, J. I., Ohene-Frempong, K., Stallings, V. A., Leonard, M. B., Zemel, B. S.
2005; 116 (4): 943-949
- **Mild to moderate cystic fibrosis is not associated with increased fracture risk in children and adolescents** *JOURNAL OF PEDIATRICS*
Rovner, A. J., Zemel, B. S., Leonard, M. B., Schall, J. I., Stallings, V. A.
2005; 147 (3): 327-331
- **Body-corn position alterations consistent with cachexia in children and young adults with Crohn disease** *AMERICAN JOURNAL OF CLINICAL NUTRITION*
Burnham, J. M., Shults, J., Semeao, E., Foster, B. J., Zemel, B. S., Stallings, V. A., Leonard, M. B.
2005; 82 (2): 413-420
- **First NIH/office of rare diseases conference on cystinosis: Past, present, and future** *PEDIATRIC NEPHROLOGY*
Kleta, R., Kaskel, F., Dohil, R., Goodyer, P., Guay-Woodford, L. M., Harms, E., Ingelfinger, J. R., Koch, V. H., Langman, C. B., Leonard, M. B., Mannon, R. B., Sarwal, M., Schneider, et al
2005; 20 (4): 452-454
- **Proximal femur bone geometry is appropriately adapted to lean mass in overweight children and adolescents** *BONE*
Petit, M. A., Beck, T. J., Shults, J., Zemel, B. S., Foster, B. J., Leonard, M. B.
2005; 36 (3): 568-576
- **Assessment of bone mass following renal transplantation in children** *7th Symposium on Growth and Development in Children with Chronic Kidney Disease*
Leonard, M. B.
SPRINGER.2005: 360-67

- **Nutrition in children with kidney disease: Pitfalls of popular assessment methods** *1st Joint Congress of the International-Society-for-Peritoneal-Dialysis/European Peritoneal Dialysis Meeting*
Foster, B. J., Leonard, M. B.
MULTIMED INC.2005: S143-S146
- **Impact of simultaneous kidney-pancreas transplant and timing of transplant on kidney allograft survival** *AMERICAN JOURNAL OF TRANSPLANTATION*
Israni, A. K., Feldman, H. I., PROPERT, K. J., Leonard, M., Mange, K. C.
2005; 5 (2): 374-382
- **Vitamin D insufficiency in steroid-sensitive nephrotic syndrome in remission** *PEDIATRIC NEPHROLOGY*
Weng, F. L., Shults, J., Herskovitz, R. M., Zemel, B. S., Leonard, M. B.
2005; 20 (1): 56-63
- **Deficits in size-adjusted bone mass in children with Alagille syndrome** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
Olsen, I. E., Ittenbach, R. F., Rovner, A. J., Leonard, M. B., Mulberg, A. E., Stallings, V. A., Piccoli, D. A., Zemel, B. S.
2005; 40 (1): 76-82
- **Whole body BMC in pediatric Crohn disease: Independent effects of altered growth, maturation, and body composition** *JOURNAL OF BONE AND MINERAL RESEARCH*
Burnham, J. M., Shults, J., Semeao, E., Foster, B., Zemel, B. S., Stallings, V. A., Leonard, M. B.
2004; 19 (12): 1961-1968
- **Interactions between growth and body composition in children treated with high-dose chronic glucocorticoids(1-3)** *AMERICAN JOURNAL OF CLINICAL NUTRITION*
Foster, B. J., Shults, J., Zemel, B. S., Leonard, M. B.
2004; 80 (5): 1334-1341
- **Racial and center differences in hemodialysis adequacy in children treated at pediatric centers: A North American pediatric renal transplant cooperative study (NAPRTCS) report** *36th Annual Meeting of the American-Society-of-Nephrology*
Leonard, M. B., Stablein, D. M., Ho, M., Jabs, K., Feldman, H. I.
AMER SOC NEPHROLOGY.2004: 2923-32
- **Measuring nutritional status in children with chronic kidney disease** *AMERICAN JOURNAL OF CLINICAL NUTRITION*
Foster, B. J., Leonard, M. B.
2004; 80 (4): 801-814
- **Long-term, high-dose glucocorticoids and bone mineral content in childhood glucocorticoid-sensitive nephrotic syndrome** *NEW ENGLAND JOURNAL OF MEDICINE*
Leonard, M. B., Feldman, H. I., Shults, J., Zemel, B. S., Foster, B. J., Stallings, V. A.
2004; 351 (9): 868-875
- **Obesity during childhood and adolescence augments bone mass and bone dimensions** *AMERICAN JOURNAL OF CLINICAL NUTRITION*
Leonard, M. B., Shults, J., Wilson, B. A., Tershakovec, A. M., Zemel, B. S.
2004; 80 (2): 514-523
- **Quantitative high-resolution magnetic resonance imaging reveals structural implications of renal osteodystrophy on trabecular and cortical bone** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Wehrl, F. W., Leonard, M. B., Saha, P. K., Gomberg, B. R.
2004; 20 (1): 83-89
- **Interpretation of whole body dual energy X-ray absorptiometry measures in children: comparison with peripheral quantitative computed tomography** *BONE*
Leonard, M. B., Shults, J., Elliott, D. M., Stallings, V. A., Zemel, B. S.
2004; 34 (6): 1044-1052
- **Osteoporosis in chronic kidney disease** *AMERICAN JOURNAL OF KIDNEY DISEASES*
Cunningham, J., Sprague, S. M., Cannata-Andia, J., Coco, M., Cohen-Solal, M., Fitzpatrick, L., Goltzmann, D., Lafage-Proust, M. H., Leonard, M., Ott, S., Rodriguez, M., Stehman-Breen, C., Stern, et al
2004; 43 (3): 566-571

- **Bone disease in pediatric rheumatologic disorders.** *Current rheumatology reports*
Burnham, J. M., Leonard, M. B.
2004; 6 (1): 70-78
- **Assessment of bone health in children and adolescents with cancer: Promises and pitfalls of current techniques** *7th International Conference on the Long-Term Complications of Treatment of Children and Adolescents for Cancer*
Leonard, M. B.
WILEY-LISS.2003: 198-207
- **Calcium-free hemodialysis for hypercalcemia of malignancy in a newborn** *PEDIATRIC NEPHROLOGY*
Pradhan, M., Leonard, M. B.
2003; 18 (5): 474-476
- **Long versus standard initial steroid therapy for children with the nephrotic syndrome - A report from the Southwest Pediatric Nephrology Study Group** *PEDIATRIC NEPHROLOGY*
Lande, M. B., Gullion, C., Hogg, R. J., Gauthier, B., Shah, B., Leonard, M. B., Bonilla-Felix, M., Nash, M., Roy, S., Strife, C. F., Arbus, G.
2003; 18 (4): 342-346
- **A prospective cohort study of incident maintenance dialysis in children: An NAPRTC study** *KIDNEY INTERNATIONAL*
Leonard, M. B., Donaldson, L. A., Ho, M., Geary, D. F.
2003; 63 (2): 744-755
- **Decline in renal function following thoracic organ transplantation in children** *AMERICAN JOURNAL OF TRANSPLANTATION*
Pradhan, M., Leonard, M. B., Bridges, N. D., Jabs, K. L.
2002; 2 (7): 652-657
- **Current concepts in pediatric bone disease** *PEDIATRIC CLINICS OF NORTH AMERICA*
Leonard, M. B., Zemel, B. S.
2002; 49 (1): 143-?
- **Adverse neurologic events associated with rebound hypertension nifedipine in childhood after using short-acting in hypertension** *PEDIATRIC EMERGENCY CARE*
Leonard, M. B., Kasner, S. E., Feldman, H. I., Schulman, S. L.
2001; 17 (6): 435-437
- **Early risk factors for increased adiposity: a cohort study of African American subjects followed from birth to young adulthood** *AMERICAN JOURNAL OF CLINICAL NUTRITION*
Stettler, N., Tershakovec, A. M., Zemel, B. S., Leonard, M. B., Boston, R. C., Katz, S. H., Stallings, V. A.
2000; 72 (2): 378-383
- **Increased urinary transforming growth factor-beta(1) excretion in children with posterior urethral valves** *UROLOGY*
Dell, K. M., Hoffman, B. B., Leonard, M. B., ZIYADEH, F. N., Schulman, S. L.
2000; 56 (2): 311-314
- **Variability among pediatric nephrologists in the initial therapy of nephrotic syndrome** *PEDIATRIC NEPHROLOGY*
Lande, M. B., Leonard, M. B.
2000; 14 (8-9): 766-769
- **Discrepancies in pediatric bone mineral density reference data: Potential for misdiagnosis of osteopenia** *JOURNAL OF PEDIATRICS*
Leonard, M. B., PROPERT, K. J., Zemel, B. S., Stallings, V. A., Feldman, H. I.
1999; 135 (2): 182-188
- **Evaluation of low density spine software for the assessment of bone mineral density in Children** *19th Annual Meeting of the American-Society-for-Bone-and-Mineral-Research*
Leonard, M. B., Feldman, H. I., Zemel, B. S., Berlin, J. A., Barden, E. M., Stallings, V. A.
WILEY-BLACKWELL.1998: 1687-90
- **Interaction between tacrolimus and chloramphenicol in a renal transplant recipient** *TRANSPLANTATION*
Schulman, S. L., Shaw, L. M., Jabs, K., Leonard, M. B., Brayman, K. L.
1998; 65 (10): 1397-1398

- **Plasma zinc status, growth, and maturation in children with sickle cell disease** *JOURNAL OF PEDIATRICS*
Leonard, M. B., Zemel, B. S., Kawchak, D. A., Ohene-Frempong, K., Stallings, V. A.
1998; 132 (3): 467-471
- **CONTINUOUS PARENTERAL INFUSION OF VITAMIN-E PHARMACOKINETICS AND BILIRUBIN PRODUCTION IN PREMATURE NEONATES** *ANNALS OF THE NEW YORK ACADEMY OF SCIENCES*
Stevenson, D. K., Vreman, H. J., Ferguson, J. E., Lenert, L. A., Leonard, M. B., Gale, R.
1989; 570: 352-357
- **VANCOMYCIN PHARMACOKINETICS IN VERY LOW BIRTH-WEIGHT NEONATES** *PEDIATRIC INFECTIOUS DISEASE JOURNAL*
Leonard, M. B., Koren, G., Stevenson, D. K., Prober, C. G.
1989; 8 (5): 282-286
- **INTERPRETING THE CARBOXYHEMOGLOBIN CONCENTRATION IN FETAL CORD BLOOD** *JOURNAL OF DEVELOPMENTAL PHYSIOLOGY*
Leonard, M. B., Vreman, H. J., Ferguson, J. E., Smith, D. W., Stevenson, D. K.
1989; 11 (2): 73-76
- **CONTINUOUS PARENTERAL INFUSION OF VITAMIN-E PHARMACOKINETICS AND BILIRUBIN PRODUCTION IN PREMATURE NEONATES** *CONF ON VITAMIN E : BIOCHEMISTRY AND HEALTH IMPLICATIONS*
Stevenson, D. K., Vreman, H. J., Ferguson, J. E., Lenert, L. A., Leonard, M. B., Gale, R.
NEW YORK ACAD SCIENCES.1989: 352-357
- **THE FETAL TO MATERNAL CARBOXYHEMOGLOBIN (HBCO) RATIO AS A PREDICTOR OF NEONATAL JAUNDICE**
Leonard, M. B., Vreman, H. J., Ferguson, J. E., Stevenson, D. K.
SLACK INC.1987: A235-A235