

Kathleen M. Hill Gallant, PhD, RD, FAND

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West Lafayette, IN 47906

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Faculty page: https://www.purdue.edu/hhs/nutr/directory/faculty/hill-gallant_kathleen.html

Positions

Assistant Professor of Nutrition Science, August 2013 – present

Director, Didactic Program in Dietetics, August 2013 – present

Department of Nutrition Science, Purdue University, West Lafayette, IN

Adjunct Assistant Research Professor of Medicine, 2017 – present

Indiana University School of Medicine, Department of Medicine, Indianapolis, IN

Divisions of Nephrology and Endocrinology

Education/Training

Postdoctoral Research Associate, 2010 – 2013

Department of Medicine/Division of Endocrinology

Department of Anatomy and Cell Biology

Indiana University School of Medicine, Indianapolis, IN

Doctor of Philosophy in Nutrition, August 2010

Interdepartmental Nutrition Program, Purdue University, West Lafayette, IN

Minor in Gerontology, Purdue University Center on Aging and the Life Course

Dissertation: Predictors of Skeletal Calcium Accretion in Adolescents from Pooled Metabolic Balance Studies

Master of Science in Kinesiology, August 2006

Department of Kinesiology and Public Health Education

University of North Dakota, Grand Forks, ND

Bachelor of Science in Dietetics, *summa cum laude*, May 2005

Coordinated Program in Dietetics

University of North Dakota, Grand Forks, ND

Awards/Honors

Research

- American Society for Bone and Mineral Research (ASBMR) “Rising Star Award” research grant, 2017-2020
- NIH NIDDK K01 Mentored Research Scientist Career Development Award recipient, 2015-2020
- Women’s Global Health Institute & Indiana CTSI Mildred Elizabeth Edmundson Research Grant, 2017-2018
- Ralph W. and Grace M. Showalter Research Trust Award, 2016-2017
- Indiana CTSI Project Development Team Pilot Research Grants (x 2), 2016-2018, 2018-2019
- Purdue Research Foundation Summer Faculty Research Grant, 2014
- ASBMR President’s Poster Competition Winner, 2011 & 2012
- Alice L. Jee Memorial Young Investigator Award, International Bone & Mineral Society, 2011
- Endocrine Fellows Foundation/ASBMR 4th Fellows Forum on Metabolic Bone Disease, Travel Award, 2010

- American Society for Nutrition/Nutrition Science Council Graduate Student Research Awards Abstract Competition Winner, 2010
- Purdue INP Corporate Affiliates Meeting Graduate Poster Competition Winner, 2010
- ASBMR Plenary Poster, 2009

Teaching & Mentoring

- “Real-World Experience” Award, Purdue Learning Community Program, 2016-2017
- Honorary member, Alpha Sigma Lambda, Kappa Tau Chapter, Purdue University. Nominated and inducted for supporting nontraditional student success at Purdue, inducted 2015
- Graduate Student Award for Outstanding Teaching, Committee for the Education of Teaching Assistants, Purdue University, 2010

Academic/Professional

- Fellow of the Academy of Nutrition and Dietetics, bestowed 2019
- College of Family and Consumer Sciences Outstanding Doctoral Student Nominee, Purdue University, 2010
- American Dietetic Association Foundation Scholarship, 2009 – 2010
- Lute Troutt Fellowship, Indiana Dietetic Association, 2009 – 2010
- Lynn Doctoral Fellowship, Purdue University, 2006 – 2007
- Keegan Graduate Scholarship, University of North Dakota, 2005 – 2006
- Outstanding Dietetic Student, American Dietetic Association, 2005
- College Swim Coaches of America All-Academic Team, Women’s NCAA DII Swimming & Diving, 2002

Publications

Peer-Reviewed Original Research

1. Fitzgerald C, Wiese GN, Moorthi RN, Moe SM, **Hill Gallant KM**, Running CA. Characterizing dysgeusia in hemodialysis patients. *Chemical Senses*. 2019 Jan 9 [Epub ahead of print]. PMID: 30629153.
2. Vorland CJ, Lachcik PJ, Aromeh, L, Moe SM, Chen NX, **Hill Gallant KM**. Effect of dietary phosphorus intake and age on intestinal phosphorus absorption efficiency and phosphorus balance in male rats. *Plos One* 2018 Nov; 13(11): e0207601. PMID: 30452474
3. Wright CS, Laing EM, Pollock NK, Hausman DB, Weaver CM, Martin BR, McCabe GP, Peacock M, Warden SJ, **Hill Gallant KM**, Lewis RD. Serum 25-hydroxyvitamin D and intact parathyroid hormone influences muscle outcomes in children and adolescents. *J Bone Miner Res* 2018 Nov; 33(11):1940-1947. PMID: 30001469
4. Choi MS, Kistler BK, Wiese GN, Stremke ER, Wright AJ, Moorthi RN, Moe SM, **Hill Gallant KM**. Effect of high-protein renal-appropriate meals given during dialysis on symptomatic hypotension events in maintenance hemodialysis patients. *J Ren Nutr* 2019 Mar; 29(2):102-111. Epub 2018 Aug 11. PMID: 30107974.

5. Stremke ER, McCabe LD, McCabe GP, Martin BR, Moe SM, Weaver CM, Peacock M, **Hill Gallant KM**. Twenty-four-hour urine phosphorus is not an accurate assessment of phosphorus intake in patients with chronic kidney disease. *Clin J Am Soc Nephrol*. 2018; 13(7):1002-1012. PMID: 29921736. *Selected for an accompanying editorial*.
6. Coheley L, Kindler JM, Laing EM, Oshri A, **Hill Gallant KM**, Warden SJ, Peacock M, Weaver CM, Lewis RD. Whole egg consumption and cortical bone in healthy children. *Osteoporos Int*. 2018; 29(8):1783-1791. PMID: 29713797.
7. Vorland CJ, Martin BR, Weaver CM, Peacock M, **Hill Gallant KM**. Phosphorus balance in adolescent girls and the effect of supplemental dietary calcium. *JBMR PLUS*. 2018; 2(2):103-108. PMID: 2957711.
8. Kindler JM, Pollock MK, Laing EM, Oshri A, Jenkins NT, Isales CM, Hamrick MW, Ding KH, Hausman DB, McCabe GP, Martin BR, **Hill Gallant KM**, Warden SJ, Weaver CM, Peacock M, Lewis RD. Insulin Resistance and the IGF-I-Cortical Bone Relationship in Children Ages 9-13 Years. *J Bone Miner Res*. 2017; 32(7):1537-1545. PMID: 28300329.
9. Giudici KV, Kindler JM, Martin BR, Laing EM, McCabe GP, McCabe LD, Hausman DB, Martini LA, Lewis RD, Weaver CM, Peacock M, **Hill Gallant KM**. Osteocalcin, leptin, and insulin resistance in American children. *Nutr Metab* 2017 Mar 7; 14:25. PMID: 28286536.
10. Bushinsky DA, Spiegel DM, Gross C, Benton WW, Fogli J, **Hill Gallant KM**, Du Mond, C, Block GA, Weir MR, Pitt B. Effect of patiromer on urinary ion excretion in healthy adults. *Clin J Am Soc Nephrol* 2016 Oct 07. 11(10):1769-76. PMID: 27679518.
11. Ferira AJ, Laing EM, Hausman DB, Hall DB, McCabe GP, Martin BR, **Hill Gallant KM**, Warden SJ, Weaver CM, Peacock M, Lewis RD. Vitamin D supplementation does not impact glycemia and insulin resistance in early pubertal white and black children. *J Clin Endocrinol Metab* 2016 April; 101(4):1710-8. PMID: 26885880
12. Keast DB, **Hill Gallant KM**, Albertson A, Gugger CK, Holschuh N. Associations between yogurt, dairy, calcium, vitamin D intake and obesity among US children from NHANES, 2005-2008. *Nutrients* 2015 Mar 3;7(3):1577-93. PMID: 25742042.
13. **Hill Gallant KM**, Gallant MA, Brown DM, Sato AY, Williams JN, Burr DB. Raloxifene prevents skeletal fragility in adult female Zucker Diabetic Sprague-Dawley Rats. *PLoS One* 2014 Sep 22; 9(9):e108262. PMID: 25243714.
14. Berger PK, Laing EM, Pollock NK, Warden SJ, **Hill Gallant KM**, Hausman DB, Tripp RA, McCabe LD, McCabe GP, Weaver CM, Peacock M, Lewis RD. Association of adenovirus 36 infection with adiposity and inflammatory-related markers in children. *J Clin Endocrinol Metab* 2014; 99(9): 3240-6. PMID: 24926952.

15. Lewis RD, Laing EM, **Hill Gallant KM**, Hall DB, McCabe GP, Hausman DB, Martin BR, Warden SJ, Peacock M, Weaver CM. A randomized trial of vitamin D₃ supplementation in children: Dose-response effects on vitamin D metabolites and calcium absorption. *J Clin Endocrinol Metab* 2013; 98:4816-25. PMID: 24092833.
16. **Hill KM**, Martin BR, Wastney ME, McCabe GP, Moe SM, Weaver CM, Peacock M. Oral calcium carbonate affects calcium but not phosphorus balance in stage 3-4 chronic kidney disease. *Kidney Int* 2013; 83:959-66. PMID: 23254903.
17. Warden SJ, **Hill KM**, Ferira AJ, Laing EM, Martin BR, Hausman DB, Weaver CM, Peacock M, Lewis RD. Racial differences in cortical bone and their relationship to biochemical variables in black and white children in the early stages of puberty. *Osteoporosis Int* 2013; 24(6): 1869-79. PMID: 23093348.
18. **Hill KM**, Laing EM, Hausman DB, Acton A, Martin BR, McCabe GP, Weaver CM, Lewis RD, Peacock M. Bone turnover is not influenced by serum 25-hydroxyvitamin D in pubertal healthy black and white children. *Bone* 2012; 51(4):795-9. PMID: 22750015.
19. **Hill KM**, Jonnalagadda SS, Albertson AM, Joshi NA, Weaver CM. Top Food Sources Contributing to Vitamin D Intake and the Association of Ready-to-Eat Cereal and Breakfast Consumption Habits to Vitamin D Intake in Canadians and United States Americans. *J Food Sci* 2012; 77(8):H170-H175. PMID: 22747906.
20. Grethen E, **Hill KM**, Jones R, Cacucci BM, Gupta CE, Acton A, Considine R, Peacock M. Serum leptin, parathyroid hormone, 1,25-dihydroxyvitamin D, fibroblast growth factor 23, bone alkaline phosphatase, sclerostin relationships in obesity. *J Clin Endocrinol Metab* 2012; 97:1655-62. PMID: 22362819.
21. **Hill KM**, Braun M, Egan KA, Martin BR, McCabe LD, Peacock M, McCabe GP, Weaver CM. Obesity augments skeletal calcium retention in adolescents. *J Clin Endocrinol Metab* 2011; 96(7):2171-77. PMID: 21490075.
22. Elble AE, **Hill KM**, Park CY, Martin BR, Peacock M, Weaver CM. Effect of calcium carbonate particle size on calcium absorption and retention in adolescent girls. *J Am Coll Nutr* 2011; 30(3):171-7. PMID: 21896874.
23. **Hill KM**, Whitehead JR, Goodwin JK. Pre-workout carbohydrate supplementation does not affect measures of self-assessed vitality and affect in college swimmers. *J Sports Sci Med* 2011;10:478-82.
24. Park CY, **Hill KM**, Elble AE, Martin BR, DiMeglio LA, Peacock M, McCabe GP, Weaver CM. Daily supplementation with 25 µg cholecalciferol does not increase calcium absorption or skeletal retention in adolescent girls with low serum 25-hydroxyvitamin D. *J Nutr* Dec 2010;140(12):2139-44. PMID: 20962148.

25. **Hill KM**, McCabe GP, McCabe LD, Gordon CM, Abrams SA, Weaver CM. An inflection point of serum 25-hydroxyvitamin D for maximal suppression of parathyroid hormone is not evident from multi-site pooled data in children and adolescents. *J Nutr* Nov 2010;140(11):1983-1988. PMID: 20861214.
26. **Hill KM**, Braun M, Kern M, Martin BR, Navalta JW, Sedlock DA, McCabe L, McCabe GP, Peacock M, Weaver CM. Predictors of calcium retention in adolescent boys. *J Clin Endocrinol Metab* 2008; 93(12): 4743-4748. PMID: 18840643.

Peer-Reviewed Review Articles & Other Monographs

1. Biruette A, **Hill Gallant KM**, Lindemann S, Wiese GN, Chen NX, Moe SM. Phosphate binders and non-phosphate effects in the gastrointestinal tract. *Journal of Renal Nutrition*. In Press.
2. Clegg DJ, **Hill Gallant KM**. Plant-based diets in chronic kidney disease. *Clin J Am Soc Nephrol* 2019 Jan; 14(1):141-143. Epub 2018 Dec 26. PMID: 30587492.
3. Stremke ER, **Hill Gallant KM**. Intestinal phosphorus absorption in chronic kidney disease. *Nutrients*. 2018 Sept; 10(10): pii: E1364. PMID: 30249044.
4. Vorland CJ, Stremke ER, Moorthi RN, **Hill Gallant KM**. Effects of excessive dietary phosphorus intake on bone health. *Curr Osteoporos Rep*. 2017 Aug 21. PMID: 28840444.
5. **Hill Gallant KM**, Spiegel DM. Calcium Balance in Chronic Kidney Disease. *Curr Osteoporos Rep*. 2017 Jun;15(3):214-221. PMID: 28474258.
6. Moorthi RN, Vorland CJ, **Hill Gallant KM**. Diet and Diabetic Kidney Disease: Plant Versus Animal Protein. *Curr Diab Rep* 2017 Mar; 17(3):15. PMID: 28271467.
7. **Hill Gallant KM**, Weaver CM, Towler DA, Thuppal SV, Bailey RL. Nutrition in cardio-skeletal health. *Adv Nutr* 2016; 7(3):544-55. PMID: 27184281.
8. **Hill Gallant KM**. Studying dietary phosphorus intake: the challenge of when a gram is not a gram. *Am J Clin Nutr* Aug 2015; 102(2):237-8. PMID: 26156742. *Invited editorial*.

Book Chapters

1. Bellido T, **Hill Gallant KM**. Hormonal Effects on Bone Cells. In: Basic and Applied Bone Biology. Burr DB, Allen MR eds. Academic Press, Elsevier, Waltham, MA. 2nd Edition. In Press.
2. **Hill Gallant KM**. Weaver CM. Nutrition. In: Basic and Applied Bone Biology. Burr DB, Allen MR eds. Academic Press, Elsevier, Waltham, MA. 2nd Edition. In Press

3. Weaver CM, **Hill Gallant KM**. Osteoporosis: The Early Years. In: Nutrition in the Prevention and Treatment of Disease. 4th Edition. Coulston AM, Boushey CJ, Ferruzzi MG eds. Academic Press, Elsevier, Waltham, MA 2017. ISBN: 978-0-12-802928-2.
4. **Hill Gallant KM**. The Use of Calcium for Phosphate Control in Chronic Kidney Disease. In: Nutritional Influences on Bone Health – 9th International Symposium. Weaver CM, Daly RM, Bischoff-Ferrari HA, eds. Springer International Publishing Switzerland 2016. ISBN: 978-3-319-32415-9.
5. Weaver CM, **Hill Gallant KM**. Nutrition. In: Basic and Applied Bone Biology. Burr DB, Allen MR eds. Academic Press, Elsevier, Waltham, MA 2014. ISBN: 978-0-12-416015-6.
6. Bellido T, **Hill Gallant KM**. Hormonal Effects on Bone Cells. In: Basic and Applied Bone Biology. Burr DB, Allen MR eds. Academic Press, Elsevier, Waltham, MA 2014. ISBN: 978-0-12-416015-6.
7. Weaver CM, **Hill KM**. Osteoporosis: The Early Years. In: Nutrition in the Prevention and Treatment of Disease. 3rd Edition. Coulston AM, Boushey CJ, Ferruzzi MG eds. Academic Press, Elsevier, Waltham, MA 2013. DOI: 10.1016/B978-0-12-391884-0.00044-5.
8. Weaver CM, **Hill KM**. Estimating Calcium Requirements. In: Nutritional Influences on Bone Health. Burckhardt P, Dawson-Hughes B, Weaver CM, eds. Springer-Verlag London, UK 2010. pp 41-49. DOI: 10.1007/978-1-84882-978-7_6.

NIH NCBI PubMed My Bibliography Link:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/1z1Dfkh4Gnp5b/bibliography/40369711/public/?sort=date&direction=ascending>

Invited Lectures/Presentations

1. National Kidney Foundation of Indiana, Council on Renal Nutrition of Indiana Annual Meeting, “Dietary Phosphorus Absorption in CKD: How Much Do We Really Know?”. October 12, 2018, Indianapolis, IN
2. ASBMR “Meet-The-Professor” Session. “Mineral Balance and Tracer Methodologies in Clinical Research on Nutrition in Bone Health”. American Society for Bone and Mineral Research. September 30, 2018, Montréal, Québec, Canada.
3. Florida Academy of Nutrition and Dietetics Annual Meeting, “Chronic Kidney Disease and the Absorption of Dietary Phosphorus”. Orlando, FL, July 17, 2018
4. National Kidney Foundation Spring Clinical Meeting, “Food First: Food before Meds in CKD Treatment”. Part of the Council on Renal Nutrition program. Austin TX, April 13th, 2018.
5. Center on Aging and the Life Course Colloquia Seminar, “Intestinal Phosphorus Absorption with Aging and Chronic Kidney Disease”. November 10, 2017, Purdue University, West Lafayette, IN.

6. ASBMR Nutrition Working Group. “Dietary Intakes and Sources of Phosphorus and Its Metabolism”. American Society for Bone and Mineral Research. September 16, 2016. Atlanta, GA.
7. “Kidney U” Webinar “Hyperphosphatemia in CKD: Cases for Improving Compliance and Outcomes. Sept. 13, 2016.
8. American Diabetes Association Pre-Conference Symposium “Translational Models for Metabolic Syndrome, Diabetes and its Complications”. “Skeletal Effects of Diabetes in the ZDSD Rat”. June 9, 2016. New Orleans, LA.
9. Drexel University, Renal Grand Rounds. “Calcium and Phosphorus Nutrition in Chronic Kidney Disease-Mineral Bone Disorder”. February 16, 2016. Philadelphia, PA.
10. University of Georgia, Department of Food and Nutrition Seminar Speaker. “Calcium and Phosphorus in Chronic Kidney Disease-Mineral Bone Disorder”. September 16, 2015. Athens, GA.
11. 9th International Symposium on Nutritional Aspects of Osteoporosis. “Focus on Phosphorus”. June 17-20, 2015. Montreal, QC, Canada.
12. American Society for Nutrition Symposium “Improving Cardio-Skeletal Health by Exploring the Heart-Bone Connection” at Experimental Biology. “The Role of Dietary Phosphorus in Kidney, Cardiovascular, and Bone Health”. March 31, 2015. Boston, MA.
13. Medscape Roundtable Webinar “Achieving Calcium and Phosphorus Balance in CKD-MBD”. March 2, 2015, Toronto, Ontario, Canada.
14. National Kidney Foundation Spring Clinical Meeting symposium, “Getting Ahead of Metabolic and Mineral Disturbances in the Management of CKD-MBD: A Focus on Management”. Dallas, TX, March 27, 2015.
15. Multistate Research Project Meeting, W3002, “Phosphorus Bioavailability”. May 29, 2014. Purdue University, West Lafayette, IN.
16. National Kidney Foundation Spring Clinical Meeting symposium, “Expert Perspectives in the Management of Bone-Mineral-Vascular Disorders: A Pathophysiological and Evidence-Based Approach to Care”. Las Vegas, NV April 25, 2014.
17. Women’s Global Health Institute Annual Meeting. “Risks of Excess Calcium in CKD”. September 2013. Purdue University, West Lafayette, IN.
18. New Jersey Dietetic Association Annual Meeting “The D in Disease: The Role of Vitamin D in Chronic Disease”. May 2, 2013. Mount Laurel, NJ.

19. National Kidney Foundation Spring Clinical Meeting symposium, “Management of Bone-Mineral-Vascular Disorders: Insights into Chronic Kidney Disease and Cardiovascular Disease”. Orlando, FL, April 3, 2013.
20. Medscape Roundtable Webinar “Mineral Homeostasis in CKD – Mineral and Bone Disorder: Evolving Concepts in Prevention and Treatment”. November 10, 2011, Philadelphia PA.

Other Research Experience

United States Department of Agriculture-Agricultural Research Service

Grand Forks Human Nutrition Research Center, Grand Forks, ND

Research Assistant, March 2001- March 2005, intermittent

Mentor: Fariba K. Roughead, PhD, RD

Clinical Experience

Clinical Dietitian, September 2005 – August 2006

Altru Hospital and Rehabilitation Center, Grand Forks, ND

Teaching Experience

Instructor of Record

Department of Nutrition Science, Purdue University, West Lafayette, IN

NUTR 480: Medical Nutrition Therapy I, Fall 2014 – Present

NUTR 481: Medical Nutrition Therapy II, Spring 2015 – Present

NUTR 590: Women’s Health: Bone, Spring 2015

NUTR 520: Medical Nutrition Therapy, Spring 2014

NUTR 106: The Profession of Dietetics, Fall 2013 – Spring 2014

Contributing Lectures

Department of Nutrition Science, Purdue University, West Lafayette, IN

NUTR 330: Diet Selection and Planning, Fall 2013 – present

NUTR 365: Lifecycle Nutrition, Spring 2017 – present

NUTR 436: Nutritional Assessment, Spring 2016 – present

NUTR 605: Nutritional Biochemistry & Physiology, Fall 2014 – present

NUTR 590: Basic Bone Biology, Fall 2011 – present

Preceptor for Dietetic Internship

Indiana University Purdue University-Indianapolis, Dietetic Internship Program

Rotation in Clinical Nutrition Research, May-June 2011

Coordinated Program in Dietetics

Department of Foods & Nutrition, Purdue University, West Lafayette, IN

Consultant Dietitian, Spring 2011 – 2012

Graduate Teaching Assistant, Fall 2008 – Spring 2010

Graduate Teaching Assistant

Department of Nutrition Science, Purdue University, West Lafayette, IN
F&N 520: Medical Nutrition Therapy, Spring 2008 & Spring 2009

Graduate Teaching Assistant

Department of Nutrition and Dietetics, University of North Dakota, Grand Forks, ND
N&D 348: Sports Nutrition, Spring 2006

Other Experience**Student Health Promotion Graduate Assistant**, August 2005 – May 2006

Nutrition Promotion and Tobacco Prevention and Cessation Outreach
Student Health Services, University of North Dakota, Grand Forks, ND

University of Michigan School of Public Health, July 2008

45th Summer Session in Epidemiology, Ann Arbor, MI

Professional Memberships**American Society for Bone and Mineral Research**

Early Stage Investigator Committee

Member 2007 – present

Appointment 2017 – 2020

American Society for Nutrition

Vitamin and Mineral Research Interest Section

Aging and Chronic Disease Research Interest Section

Obesity Research Interest Section

Member 2007 – present

Member 2010 – present

Member 2012 – present

Member 2011 – present

American Society of Nephrology

Women in Nephrology

Member 2011 – present

Member 2018 – present

Academy of Nutrition and Dietetics

Renal Dietetics Practice Group

Research Dietetic Practice Group

Nutrition & Dietetics Educators and Preceptors

Indiana Dietetic Association

Central Indiana District Dietetic Association

Western Indiana Dietetic Association

Member 2004 – present

Member 2015 – present

Member 2006 – present

Member 2013 – present

Member 2007 – 2013

Member 2010 – present

President 2008 – 2009

Member 2007 – 2010; 2013-present

National Kidney Foundation

Council on Renal Nutrition

Member 2018 – present

Member 2018 – present

Professional Credentials

Registered Dietitian (RD), Commission on Dietetic Registration

2005 – present

Certified Dietitian (CD), Indiana Professional Licensing Agency

2009 – present

Licensed Registered Dietitian (LRD), North Dakota Board of Dietetic Practice

2005 – 2006