

## **CURRICULUM VITAE**

Neil Binkley, MD

### **CONTACT INFORMATION**

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### **CERTIFICATION AND LICENSURE**

American Board of Internal Medicine, 1983  
Certificate of Added Qualification in Geriatric Medicine, 1992  
Medical licensure; Wisconsin (current), Michigan (past)  
International Society for Clinical Densitometry Physician Certification, 1999

### **EDUCATION**

B.S., Zoology, Summa Cum Laude, University of Wisconsin-Eau Claire, 1975  
M.D., University of Wisconsin-Madison, 1979

### **POSITIONS HELD**

1979-1983 Internal Medicine Residency, Marshfield Clinic/St. Joseph's Hospital, Marshfield, WI  
1983-1984 Private Practice Internal Medicine, Hayward Medical Group, Hayward, WI  
1984-1990 Private Practice Internal Medicine, Marinette/Menominee Clinic, Marinette, WI  
1984-1990 Plant Physician, Scott Paper Company, Marinette, WI  
1990-1992 Geriatrics Fellowship, GRECC Wm. S. Middleton VAMC, Madison, WI  
1992-1993 Postdoctoral Fellow, NIH Biology of Aging Training Grant, Institute on Aging, UW-Madison, Madison, WI  
1992-1994 Clinical Instructor, Geriatrics Section, UW-Madison, Madison, WI  
1991-1994 Consultant Physician, Badger Prairie Health Care Center, Verona, WI  
1993-1999 Consultant Physician, Mendota Mental Health Institute, Geriatric Unit, Madison, WI  
1991-2003 Attending Physician, Geriatric Service, Wm. S. Middleton VAMC or UW Hospital, Madison, WI  
1992-2000 Director, Geriatric Osteoporosis Clinic, UW-Madison, Madison, WI  
1994-Present Affiliated Scientist, Wisconsin Regional Primate Research Center, UW-Madison, Madison, WI  
1994-2003 Assistant Professor, Geriatrics Section, UW-Madison, Madison, WI  
2001-2003 Assistant Professor, Endocrinology Section, UW-Madison, Madison, WI  
2003-2012 Associate Professor, Divisions of Endocrinology and Geriatrics, UW-Madison, Madison, WI  
2000-Present Director, University of Wisconsin Osteoporosis Clinical Center and Research Program

2002-Present Associate Director, UW-Madison Institute on Aging, Madison, WI

2012-Present Professor, Divisions of Geriatrics and Endocrinology, UW-Madison, Madison, WI

## **HONORS AND AWARDS**

Phi Eta Sigma Honor Society, UW-Eau Claire

AOA, UW Medical School, 1978

NRSA Trainee (T32 AG00213), 7/1/92-8/30/93

ISCD Bone Densitometry Course Instructor of the Year, 2005, 2010 and 2012

ISCD VFA Course Instructor of the Year, 2006 and 2008

ISCD Paul Miller Service Award, 2008

Champion in Women's Health Recipient from Wisconsin Women's Health Foundation, 2016

Medal of Achievement from Slovak Society for Osteoporosis and Metabolic Bone Diseases, 2016

Best Clinician Abstract Award Recipient at the ISCD Annual Meeting, 2020

ISCD Harry Genant Researcher of the Year, 2021

Best Clinician Abstract Award Recipient at the ISCD Annual Meeting, 2021

## **SOCIETY MEMBERSHIPS**

American Association of Clinical Endocrinologists

- Member Bone and Parathyroid Scientific Committee: 2014-present
- Member Postmenopausal Osteoporosis Guidelines update: 2015-present

American Geriatrics Society

American Society for Bone and Mineral Research

- Deputy Editor, Journal of Bone and Mineral Research; 2000-2003
- Member; ASBMR Advocacy committee, 2008-2010
- Journal of Bone and Mineral Research editorial board; 2011-2015

Gerontological Society of America

International Bone and Mineral Society

International Osteoporosis Foundation (IOF)

- Member; VFA group for the IOF vertebral fracture initiative, 2010
- Member; IOF Committee of Scientific Advisors, 2011-present
  - Sarcopenia and Impaired Mobility Working Group 2014
  - Holistic Approach of Rehabilitation in Osteoporosis Working Group 2017
- Member; IOF Osteoporosis Essentials course committee, 2012-present
- Associate Editor; Osteoporosis International, 2015-present

International Society for Clinical Densitometry (ISCD)

- ISCD Scientific Advisory Committee; 1999-2005; Chair 2003-2005
- ISCD Physician Certification Course Faculty Member 2000-present
- ISCD Vertebral Fracture Assessment Course Faculty 2005-present
- Panelist, ISCD Position Development Conference, 2001
- Co-Chair, ISCD Position Development Conference, 2003
- Chair, ISCD Position Development Conference, 2005

- ISCD Vice President, 2004, President-elect, 2005, President, 2006-2007
- Executive Committee 2004-present
- Co-chair, ISCD Public Policy Committee 2008-2010
- Co-chair, ISCD/IOF FRAX initiative, "FRAX Clinical" task force, 2010
- Associate Editor; Journal of Clinical Densitometry
- Member; 2013 & 2019 Position Development Conference expert panel

Wisconsin Bone Club

### **PEER-REVIEW and INVITED ACTIVITIES**

Ad Hoc Grant Reviewer, Department of Defense Clinical Trials Program, 2008

Welcome Trust, UK 2007-2008

Ad Hoc Grant Reviewer, NIDDK, 2010

NASA Bone Summit Committee, 2010 – Present

Vitamin D Standardization Program, NIH, 2013 – Present

Ad Hoc Grant Reviewer, NIH, 2014-2015

Guest Editor, Journal of Clinical Densitometry; October 2015, Osteoporosis, Sarcopenia, Falls and Fractures

Guest Editor, Bone; 30 years of DXA special edition; 2017

### **MANUSCRIPT REVIEWER FOR**

Bone

Journal of Bone and Mineral Research

Calcified Tissue International

Osteoporosis International

Clinical Rheumatology

New England Journal of Medicine

Journal of Clinical Endocrinology and Metabolism

Molecular Nutrition and Food Research

Journal of Clinical Densitometry

American Journal of Clinical Nutrition

Journal of Nutrition

JAMA

Lancet

Clinica Chimica Acta

### **EDITORIAL BOARD**

Journal of Bone and Mineral Research

Journal of Clinical Densitometry

Osteoporosis International

## **CURRENTLY FUNDED RESEARCH**

NIH 1U19AG051426-01A1 (Ryff PI) 7/25/16-5/31/21

1U19AG051426-01A1 (Ryff, Seeman, Weinstein PIs) Project 4 (Binkley Senior-Investigator)

Connecting Psychosocial Factors and Biological Mechanisms

Identify biomarkers that are individually, and in combination, associated with diverse forms of life challenges and psychological and social factors characterizing persons from young adulthood to old age.

Radius

BA058-05-019 (Binkley, PI)

5/15/2018 - 7/31/2020

This Phase II randomized trial evaluates use of an anabolic agent to increase bone mass in men with osteoporosis.

Radius

BA058-05-021 (Binkley, PI)

11/1/2019 - 6/30/2021

This Phase III randomized, non-inferiority trial evaluates use of an anabolic agent to increase bone mass delivered as subcutaneous injection or patch in women with osteoporosis.

Radius

Investigator Initiated (Binkley, PI)

1/15/2020 - 1/15/2021

This open label study evaluates bone mass in patients with osteoporosis treated with a bone anabolic prior to total knee arthroplasty.

## **COMPLETED RESEARCH SUPPORT (SELECTED)**

UW Department of Medicine Research Committee Role: PI

Optimizing Osteoporosis Therapy; Can We Open the Anabolic Window?

This randomized, double-blind pilot study will compare the effect of teriparatide therapy with sequential teriparatide followed by raloxifene. The goal of this work is to “uncouple” bone formation and resorption allowing for progressive increases in bone mass.

UW School of Medicine and Public Health, MERC 07/01/07-6/30/11 Role: PI

Vitamin D Inadequacy: Documentation in Rural Populations and Evaluation of Correction by Food Supplementation. This randomized, double-blind, placebo-controlled trial evaluates the effect of daily vitamin D fortified food on serum 25(OH)D status in populations of differing age and race/ethnicity.

Research Grant; (Haller, Binkley Co-PIs) 1/01/08-12/31/11

St Mary's Duluth Clinic Research Committee; Documentation in Rural Populations and Evaluation of Correction by Food Supplementation. This is an arm of the MERC project, specifically evaluating food supplementation in Native American Tribes.

Investigator-initiated study; Merck 1/01/10-12/31/12 Role: PI

Evaluation of the Reproducibility of Jumping Mechanography in Older Adults and Comparison With Current Functional Assessment Tools. This study will evaluate the utility of jumping mechanography and comparability with currently available functional assessment tools in older adults.

NIH PO1 Supplement (Ryff, PI) 12/01/04-7/31/08, Role, senior investigator

Integrative Pathways to Health and Illness; This supplement to MIDUS PO2, a longitudinal sample of ~7000 mid-life adults, evaluates psychosocial and sociodemographic impacts on bone density and turnover.

1 RO1 DK58363-01 (Binkley, PI) 9/01/00-8/31/04, Role: PI

Vitamin K and Bone Turnover in Postmenopausal Women

This randomized, double-blind, placebo-controlled trial evaluated the effect of vitamin K1 (phylloquinone) on markers of bone turnover and bone mass in postmenopausal women.

Supplement to above RO1; 7/01/01-6/30/05, Eisai Pharmaceuticals, LTD

This supplement to the above RO1 allowed addition of a third arm to the above noted study in which we assessed the effect of vitamin K2 (menatetrenone) on bone mass and serum markers of bone turnover.

Research Grant; (Haller, Binkley Co-PIs) 12/01/04-11/30/06

St Mary's Duluth Clinic Research Committee; Hypovitaminosis D and peripheral BMD in a Native American population: This pilot project evaluated vitamin D and bone health status in a Native American population.

Deltanoid 12/01/06-11/30/08 Role: PI

Evaluation of DP001 in postmenopausal women with osteopenia; This randomized, double-blind, placebo-controlled trial evaluates the effect of a vitamin D analog on bone density and turnover in women.

Glaxo Smith Klein 01/01/07-12/31/08 Role: PI

Evaluation of an oral monthly bisphosphonate on men with low bone density.

This randomized, double-blind, placebo-controlled trial compares the effect of a monthly bisphosphonate on bone mineral density and markers of skeletal turnover men.

Novartis 1/01/07-12/31/08 Role: PI

This randomized, double-blind, placebo-controlled, trial assesses the skeletal effect of zoledronic acid in combination with daily parathyroid hormone.

Merck 3/01/08-12/31/09 Role: PI

Power: This randomized, double-blind, placebo-controlled, trial evaluates effect of a cathepsin-K inhibitor on fracture incidence in women with low bone density.

Eli Lilly 1/01/08-12/31/09 Role: PI

GHCY: This randomized, double-blind, placebo-controlled, trial evaluates effect of a teriparatide compared to risedronate on back pain from vertebral fracture.

Glaxo Smith Klein 1/01/07-8/1/09 Role: PI

This investigator-initiated study compared the effectiveness of equal doses of vitamins D<sub>2</sub> and D<sub>3</sub> on serum 25(OH)D in older adults.

NIH NCMHD 1P60 MD 003428-01 (Adams, Sorkness Co-PI)

R01/1P60 MD 003428-01 (Binkley/Stein; co-PI) 11/01/09-10/31/14

Vitamin D Status, Cardiovascular Health and Diabetes in American Indians. This randomized, double-blind, placebo-controlled, investigator-initiated trial compared the effect of daily vitamin D<sub>3</sub> on non-invasively assessed markers of endothelial function and inflammatory cytokine status in American Indians.

NIH 5PO1-AG020166-08 (Ryff PI) 7/15/11-6/30/16

5PO1-AG020166-08 (Ryff, Seeman, Weinstein PIs) Project 4 (Binkley Senior-Investigator) 7/15/11-6/30/16

Identified biomarkers that are individually, and in combination, associated with diverse forms of life challenges, psychological and social factors characterizing persons from young adulthood to old age.

NIH DHHS, PHS, NATIONAL INSTITUTES OF HEALTH, R01 HL113010-01 (Wegienka PI)

R01/HL113010-01 (Neil Binkley Consultant) 04/01/12-02/28/15

Early Life Vitamin D, Racial Disparities and Wheezing. This study evaluated whether low levels of prenatal 25(OH)D levels, or body size of pregnant women are associated with increased risk of atopy, eczema and allergic rhinitis in their children at age 2 years, and if 25(OH)D levels are lower in women with larger body sizes in pregnancy; and (b) that the maternal prenatal levels are correlated with the level in the child's cord blood.

Lilly 12/01/2013-08/30/2016 Role: PI

A phase IV randomized study compared the incidence of new vertebral fracture between teriperatide compared to alendronate treatment in postmenopausal women with prevalent low trauma vertebral fracture.

Merck 11/01/2013-06/30/2016 Role: PI

A phase III randomized study compared change in bone density of a cathepsin-K inhibitor vs alendronate treatment in postmenopausal women with osteoporosis.

OPKO Health 05/01/13-12/31/14 Role: PI

This is a phase II study investigated the effects of a sustained release form of 25(OH)D in patients with stage 3 & 4 chronic kidney disease.

Amgen 06/15/12-06/14/15 Role: PI

This Phase III randomized trial will evaluated the effect of an anti-sclerostin (romosozumab) on bone density in postmenopausal women with osteoporosis.

Merck Investigator Initiated Trial 4/1/12-3/31/13 Role: PI

This study evaluated the utility of measuring vitamin D metabolites to assess vitamin D adequacy and response to vitamin D<sub>3</sub> supplementation.

1R56HL124004-01A1 (Engelman PI/Binkley Co-I) 09/01/2016 - 08/31/2017

Genotype-guided vitamin D supplementation (GUIDE); Study to evaluate differences in vitamin D status by race.

Novartis

BYM338D2201 (Binkley, PI) 03/15/17-12/31/18

This phase II study evaluates the potential utility of an IV antimyostatin to improve muscle mass and function in older adults with post osteoporotic hip fracture.

Viking

VK5211-201 (Binkley, PI) 9/14/2015 - 12/31/2018

This Phase II randomized trial evaluates use of a selective androgen receptor modulator on muscle mass and function in patients post osteoporotic hip fracture.

Novartis

BYM338E2202 (Binkley, PI) 4/22/2016 - 12/31/2018

This study evaluates the potential utility of an IV antimyostatin to improve muscle mass and function in older adults with impaired muscle function and low muscle mass.

Personalized Vitamin D Supplementation 12/01/2013-08/30/2019

PERC Partnership Grant (Engelman PI, Binkley Co-I)

A randomized study evaluating implementation of a dosing algorithm to personalize vitamin D supplementation of individuals with low 25(OH)D

## PUBLICATIONS

1. Stueland DT, Binkley NC, Magin GE. (1980) Symptomatic benign lymphoid hyperplasia of the terminal ileum in an adult. *Am J Gastroenterol*, 74:522-4.
2. Ershler WB, Sun WH, Binkley N, Volk MJ, Kamoske G, Roecker EB, Daynes RA, Weindruch R. (1993) Interleukin-6 and aging: blood levels and mononuclear cell production increase with advancing age and *in vitro* production is modifiable by dietary restriction. *Lymphokine Cytokine Res*, 2:225-230.
3. Drinka PJ, Voeks S, Bauwens S, Binkley N. (1993) Sensitivity and positive predictive value of clinical signs of hypogonadism in elderly men. *South Med J*, 86:1264-1267.
4. Sun WH, Binkley N, Ershler WB. (1993) The influence of recombinant human interleukin-6 on

blood and immune parameters in middle-aged and old rhesus monkeys. *Lymphokine Cytokine Res*, 12:449-455.

5. Binkley NC, Sun WH, Checovich MM, Roecker EB, Kimmel DB, Ershler WB. (1994) Effects of recombinant human interleukin-6 administration on bone in rhesus monkeys. *Lymphokine Cytokine Res*, 13:221-226.
6. Ershler WB, Sun WH, Binkley N. (1994) The role of interleukin-6 in certain age-related diseases. *Drugs and Aging*, 5:358-365.
7. Binkley N, Drinka PJ, Schultz S, Rudman D. (1995) Prediction of testosterone deficiency in nursing home men by history and physical examination. *Nursing Home Med*, 3:295-299.
8. Kania DM, Binkley N, Schilling M, Havighurst T, Checovich M, Ershler WB. (1995) Elevated plasma levels of Interleukin-6 in postmenopausal women do not correlate with bone density. *J Am Geriatr Soc*, 43:236-239.
9. Binkley NC, Suttie JW. (1995) Vitamin K nutrition and osteoporosis. *J Nutr*, 125:1812-1821.
10. Ettinger WH, Sun WH, Binkley NC, Kouba E, Ershler WB. (1995) Interleukin-6 causes hypocholesterolemia in middle-aged and old rhesus monkeys. *J Gerontol*, 50:M137-140.
11. Champ JE, Binkley N, Coleman R, Kemnitz J, Roecker EB. (1996) The effect of advancing age on bone mineral content in the rhesus monkey. *Bone*, 19:485-492.
12. Sanderson JP, Binkley N, Roecker EB, Pugh T, Aspnes L, Weindruch R. (1997) Influence of fat intake and caloric restriction on bone in aging male rats. *J Gerontol Biol Sci*, 52A:B20-25.
13. Chiu KM, Schmidt MJ, Shug AL, Binkley N, Gravenstein S. (1997) Effect of dehydroepiandrosterone sulfate on carnitine acetyl transferase activity and L-carnitine levels in ovx rats. *Biochimica et Biophysica Acta*, 1344:201-209.
14. Davidowitz BI, Banovetz S, Boehm K, Binkley N. (1998) Increased lead concentration in the drinking water of an animal care facility. *AALAS Contemp Topics Anim Sci*, 37:51-53.
15. Binkley N, Kimmel D, Bruner J, Haffa A, Davidowitz B, Meng C, Schaffer V, Green J. (1998) Zoledronate prevents the development of absolute osteopenia following ovariectomy in adult rhesus monkeys. *J Bone Miner Res*, 13:1775-1782.
16. Krueger D, Todd H, Haffa A, Bruner J, Yandow D, Binkley N. (1999) Central region-of-interest analysis of lumbar spine densitometry demonstrates lower bone mass in older rhesus monkeys. *Bone*, 24:29-33.
17. Colman RJ, Lane MA, Binkley N, Wegner FH, Kemnitz JW. (1999) The skeletal effects of aging in male rhesus macaques. *Bone*, 24:17-23.
18. Binkley N, Ellison G, O'Rourke C, Hall D, Johnston G, Kimmel D, Keller E. (1999) A rib biopsy technique for cortical bone histomorphometry in rhesus monkeys. *Lab Anim Sci*, 49:87-89.
19. Garber AK, Binkley NC, Krueger DC, Suttie JW. (1999) Comparison of phyloquinone bioavailability from food sources or a supplement in human subjects. *J Nutr*, 129:1201-1203.
20. Elliott ME, Carnes ML, Meek PD, Binkley NC, Gudmundsson A, Sanchez C. (1999) Osteoporosis: suggested management strategies. *Drug Policy Perspectives*, 5:66-69.
21. Colman RJ, Kemnitz JW, Lane MA, Abbott DH, Binkley N. (1999) Skeletal effects of aging and menopausal status in female rhesus macaques. *J Clin Endocrinol Metab*, 84:4144-4148.
22. Keller ET, Binkley NC, Stebler BA, Hall DM, Johnston GM, Zhang J, Ershler WB. (2000) Ovariectomy does not induce osteopenia through interleukin-6 in rhesus monkeys (*Macaca mulatta*). *Bone*, 26:55-62.

23. Haffa A, Krueger D, Bruner J, Engelke J, Gundberg C, Binkley N. (2000) Diet or warfarin induced vitamin K insufficiency elevates circulating undercarboxylated osteocalcin without altering skeletal status in growing female rats. *J Bone Miner Res*, 15:872-878.
24. Binkley N, Krueger D. (2000) Hypervitaminosis A and bone: a review of the literature. *Nutrition Rev*, 58:138-144.
25. Bruner JE, Davidowitz B, Haffa A, Binkley N. (2000) Dietary content may prevent secondary hyperparathyroidism in female rhesus monkeys (*Macaca mulatta*). *J Med Primatol*, 29:20-25.
26. Binkley NC, Krueger DC, Foley AL, Engelke JA, Suttie J. (2000) Vitamin K supplementation reduces serum under  $\gamma$ -carboxylated osteocalcin concentration in healthy adults. *Am J Clin Nutr*, 72:1523-1528.
27. Ramsey JJ, Colman RJ, Binkley NC, Christensen JD, Gresl TA, Kemnitz JW, Weindruch R. (2000) Dietary restriction and aging in rhesus monkeys: the University of Wisconsin study. *Exp Gerontol*, 35:1131-1149.
28. Elliott ME, Farrah RM, Binkley NC, Carnes ML, Gudmundsson A. (2000) Management of glucocorticoid-induced osteoporosis in male veterans. *Ann Pharmacother*, 34:1380-1384.
29. Elliott ME, Binkley NC, Meek PD, Kanous NL, Schill G, Weinswig P, Bohlman J, Zimpel C, Jensen B, Walters D, Sutter S, Peterson A, Peterson R. (2002) Osteoporosis screening by community pharmacists: Use of National Osteoporosis Foundation Resources. *J Amer Pharm Assoc*, 42: 101-111.
30. Elliott ME, Meek PD, Kanous NL, Schill G, Weinswig P, Bohlman J, Zimpel C, Jensen B, Walters D, Sutter S, Peterson A, Peterson R, Binkley NC. (2002) Pharmacy-based bone mass measurement to assess osteoporosis risk. *Ann Pharmacother*, 36:571-577.
31. Binkley N, Kawahara T, Yandow D, Krueger D. (2002) Clinical Vignette: Is lateral spine densitometric assessment equivalent to lateral radiography? *J Bone Miner Res*, 17:1162-1163.
32. Binkley N, Krueger D. (2002) Peak now or pay later: The role of bone mass in osteoporosis. *Sports Med Update*, Spring 2002:4-7.
33. Kawahara TN, Krueger DC, Engelke JA, Binkley NC. (2002) Short-term vitamin A supplementation does not affect bone turnover in men. *J Nutr*, 132:1169-1172.
34. Binkley N, Krueger D, Engelke J, Crenshaw T, Suttie J. (2002) Vitamin K supplementation does not affect ovariectomy-induced bone loss in rats. *Bone*, 30:897-900.
35. Binkley N, Krueger D. (2002) Osteoporosis in men. *Wisconsin Med J*, 101:28-32
36. Lenchik L, Leib ES, Hamdy RC, Binkley NC, Miller PD, Watts NB. (2002) Executive summary International Society for Clinical Densitometry position development conference Denver, Colorado July 20-22, 2001. *J Clin Densitom*, 5(suppl):S1-S3. Reprint (2003) *South Med J*, 96:724-5.
37. Binkley N, Schmeer P, Wasnich R, Lenchik L. (2002) What are the criteria by which a densitometric diagnosis of osteoporosis can be made in males and non-Caucasians? *J Clin Densitom*, 5(suppl):S19-S27.
38. Binkley N, Krueger D, Kawahara T, Engelke J, Suttie J. (2002) High phylloquinone intake is required to maximally gamma carboxylate osteocalcin. *Am J Clin Nutr*, 76:1055-1060.
39. Lata PF, Binkley NC, Elliott ME. (2002) Acceptability of pharmacy-based bone density measurement by women and primary health care providers. *Menopause*, 9:449-455.
40. Vallarta-Ast N, Krueger D, Binkley N. (2002) Densitometric diagnosis of osteoporosis in men. *J Clin Densitom*, 5:383-389.

41. Binkley N, Krueger D, Li Z, Gangnon R, Drezner MK. (2003) Are Wisconsin physicians knowledgeable about male osteoporosis? *WMJ*, 102:51-7.
42. Binkley N, Dahl D, Engelke J, Kawahara-Baccus T, Krueger D, Colman R. (2003) Bone loss detection in rats using a mouse densitometer. *J Bone Miner Res*, 18:370-375.
43. Binkley N, Krueger D, Vallarta-Ast N. (2003) An overlying fat panniculus affects femur bone mass measurement. *J Clin Densitom*, 6:199-204.
44. Elliott ME, Binkley NC, Carnes ML, Zimmerman DR, Petersen K, Knapp K, Behlke J Ahmann N, Kieser MA. (2003) Fracture risk for women in long-term care: High prevalence of calcaneal osteoporosis and hypovitaminosis D. *Pharmacotherapy*, 23:702-710.
45. Elliott ME, Martin BA, Kanous NL, Carnes M, Komoroske B, Binkley NC. (2003) Risk for osteoporosis in elderly nuns: Need for better recognition and treatment. *Curr Ther Res Clin Exp*, 64:65-80; PMC4053027.
46. Leib ES, Lewiecki EM, Binkley N, Hamdy RC. (2004) Official positions of the International Society for Clinical Densitometry. *J Clin Densitom*, 7:1-6. Reprint (2004) *South Med J*, 97:107-10.
47. Elliott ME, Binkley N. (2004) Evaluation and measurement of bone mass. *Epil Behav*, 5:S16-S23.
48. Binkley N, Krueger D, Cowgill CS, Plum L, Lake E, Hansen KE, DeLuca HF, Drezner MK. (2004) Assay variation confounds the diagnosis of hypovitaminosis D: A call for standardization. *J Clin Endocrinol Metab*, 89: 3152-3157.
49. Chan PS, Binkley NC, Lalande BM, Young S, Shaker JL. (2004) Artifactual reduction in bone density due to technetium-99m MDP for bone scanning: Report of two cases. *J Clin Densitom*, 7:457-458
50. Hansen KE, Vallarta-Ast N, Krueger D, Gangnon R, Drezner MK, Binkley N. Use of the Lowest Lumbar Vertebral Body T-Score to Diagnosis Osteoporosis in Men: Is "Cherry Picking" Appropriate? (2004) *J Clin Densitom*, 7:376-381.
51. Elliott ME, Drinka PJ, Krause P, Binkley NC, Mahoney JE. (2004) Osteoporosis assessment strategies for male nursing home residents. *Maturitas*, 48:225-233
52. Hansen K, Binkley N, Christian R, Vallarta-Ast N, Krueger D, Drezner MK, Blank RD. (2005) Inter-Observer Reproducibility of Criteria for Vertebral Body Exclusion. *J Bone Miner Res*, 20:501-508.
53. Binkley N, Krueger D. (2005) Combination Therapy for Osteoporosis: Considerations and Controversy. *Current Rheumatology Reports*, 7:61-65. Reprint: *Curr Osteoporos Rep*. 3:150-4.
54. Binkley N, Kiebzak GM, Lewiecki EM, Krueger D, Gangnon RE, Miller PD, Shepherd JA, Drezner MK. (2005) Recalculation of the NHANES Database Standard Deviation Improves T-score Agreement and Reduces Osteoporosis Prevalence. *J Bone Miner Res*, 20:195-201.
55. Binkley N, Krueger D. (2005) Current Osteoporosis Diagnosis and Management. *Top Geriatr Rehabil*, 21:17-29.
56. Holick MF, Siris ES, Binkley N, Beard MK, Khan A, Katzer J, Petruschke RA, Chen, E, dePapp AE. (2005) Prevalence of Vitamin D Inadequacy Among Postmenopausal North American Women Receiving Osteoporosis Therapy. *J Clin Endo Metab*, 90:3215-3224.
57. Binkley N, Krueger D, Gangnon R, Genant HK, Drezner MK. (2005) Lateral vertebral assessment: A valuable technique to detect clinically significant vertebral fractures. *Osteoporosis Int.*, 16:1513-1518.

58. Cryer B, Binkley N, Simonelli C, Lewiecki EM, Lanza F, Chen E, Petruschke RA, Mullen C, dePapp AE. (2005) A randomized, placebo-controlled, 6-month study of once-weekly alendronate oral solution for postmenopausal osteoporosis. *Am J Geriatr Pharmacother*, 127-136.
59. Kidambi S, Partington S, Binkley N. (2005) Low bone mass prevalence and osteoporosis risk factor assessment in African American Wisconsin women. *Wis Med J*, 59-63.
60. Agrawal S, Krueger D, Binkley N. (2005) Osteoporosis nutrition beyond calcium: Update 2005 *Curr Opin Endo Diabetes* 12;459-463.
61. Plum L, Fitzpatrick LA, Ma X, Binkley N, Zella JB, Clagett-Dame M, DeLuca, HF. (2006) 2MD, A new anabolic agent for osteoporosis treatment. *Osteoporosis Int*, 17:704-715.
62. Neuner JM, Binkley N, Sparapani RA, Laud PW, Nattinger AB. (2006) Bone density testing in older women and its association with patient age. *J Am Geriatr Soc*, 54:485-489.
63. Agrawal, S, Krueger D, Engelke J, Nest L, Krause P, Drinka P, Binkley, N. (2006) Between-meal risedronate does not alter bone turnover in nursing home residents. *J Am Geriatr Soc*, 54:790-795.
64. Blank RD, Malone DG, Christian RC, Vallarta-Ast NL, Krueger DC, Drezner MK, Binkley NC, Hansen KE. (2006) Patient variables impact lumbar spine dual energy x-ray absorptiometry precision. *Osteoporos Int*, 17:768-74.
65. Lensmeyer, GL, Wiebe, DA, Binkley N, Drezner, M. K. (2006) HPLC method for 25-hydroxyvitamin D measurement: Comparison with contemporary assays. *Clin Chem*, 52:1120-1126.
66. Binkley N, Bilezikian J, Kendler D, Leib E, Lewiecki EM, Petak S. (2006) Official Positions of the International Society for Clinical Densitometry and Executive Summary of the 2005 Position Development Conference. *J Clin Densitom*, 9;4-14.
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353. Thomas B, Krueger D, Illgen R, Nickel B, Hennessey D, Anderson PA, Binkley N. (2020) Determining Dorr Classification Using Proximal Femur DXA Images, Manual and Semi-Automated Approaches. Accepted for presentation at ISCD Annual Meeting.
354. Binkley N, Morin SN, Martineau P, Lix LM, Hans D, Leslie WD. (2020) Frequency of Normal DXA and T-score Osteoporosis in Postmenopausal Women with Fracture: A Registry-based Cohort Study. Invited oral presentation, Best Clinician Abstract Award Recipient at the ISCD Annual Meeting.
355. Schell TL, Krueger D, Binkley N, Bernatz J, Anderson PA. (2020) The Opportunistic Use of Dual-energy X-Ray Absorptiometry to Evaluate Lumbar Scoliosis and Kyphosis scoliosis and kyphosis. Accepted for presentation at ISCD Annual Meeting.
356. Kadri A, Krueger D, Binkley N, Anderson PA. (2020) Bone Health Optimization in Orthopedic Surgery. Accepted for presentation at ISCD Annual Meeting.
357. Whiting P, Binkley N, Borchardt G, Krueger D, Anderson PA. (2020) Periprosthetic Fractures: The Next Osteoporosis Crisis. Submitted to the Orthopaedic Trauma Association.
358. Spector E, Yardley G, Krueger D, Goel H, Binkey N, Sibonga J. (2021) Validation of a Modified DXA Software to Identify Astronauts at Risk for Persistent Deficits in Spaceflight-induced Bone Loss. Invited oral presentation at the ISCD Annual Meeting.
359. Borchardt G, Krueger D, Nickel B, Andersen L, Illgen R, Hennessey D, Anderson P, Binkley N. (2021) Custom Femur and Tibia BMD Measurement in Elective Total Knee Arthroplasty Candidates. Accepted for presentation at the ISCD Annual Meeting.
360. Hayden AC, Binkley N, Krueger D, Bernatz J, Kadri A, Anderson P. (2021) The impact of degeneration on bone densitometry and CT Hounsfield unit measurements in a spine patient population. Accepted for presentation at the ISCD Annual Meeting.
361. Chang E, Binkley N, Krueger D, Nickel B, Hennessey D, Illgen R, Anderson P. (2021) A Preoperative Screening Protocol Identifies Osteoporosis in Orthopedic Surgery Candidates. Invited oral presentation, Young Investigator Award Recipient at the ISCD Annual Meeting.
362. Nickel B, Krueger D, Borchardt G, Andersen L, Illgen R, Hennessey D, Binkley N, Anderson P. (2021) Soft Bone is Weak Bone: Intraoperative Physician Assessment of Bone Quality Correlates with Preoperative T-Score. Invited oral presentation, Young Investigator Award Recipient at the ISCD Annual Meeting.

363. Schell T, Krueger D, Binkley N, Hetzel S, Bernatz J, Anderson P. (2021) Opportunistic Use of Dual-energy X-ray Absorptiometry to Evaluate Lumbar Scoliosis. Invited oral presentation at the ISCD Annual Meeting.
364. Binkley N, Kinnard S, Krueger D. Is Dogma Correct? (2021) Should We Report Single Vertebral Body DXA Values? Invited oral presentation, Best Clinician Abstract Award Recipient at the ISCD Annual Meeting.
365. Krueger D, Andersen L, Binkley N. (2021) Novel Body Composition Approaches with DXA: Comparison with Classical Total Body Scans. Invited oral presentation at the ISCD Annual Meeting.
366. Andersen L, Krueger D, Bernatz J, Binkley N, Anderson P, Grogan B. (2021) Humeral BMD is Lower in the Surgical arm After Total Shoulder Arthroplasty. Invited oral presentation, Best Technologist Abstract Award Recipient at the ISCD Annual Meeting.
367. Whiting PS, Bernatz JT, Hare K, Johnson KP, Krueger D, Borchardt G, Binkley N, Anderson PA. Periprosthetic Fractures: The Next Osteoporosis Crisis. Submitted to the AAOS Orthopedic Trauma Association.