

Curriculum Vitae
K. Douglas Gross, DPT, ScD, CPed
MGH Institute of Health Professions
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ACADEMIC TRAINING

1991 B.Sc. University of California, Berkeley, CA; Environmental Science
1996 M.Sc. University of California, San Francisco, CA; Physical Therapy
2006 Sc.D. Boston University, Boston, MA; Rehabilitation Sciences
2011 Post-doc Boston University, Boston, MA; Epidemiology
2013 D.PT MGH Institute of Health Professions, Boston, MA; Physical Therapy

POST-PROFESSIONAL TRAINING

1996-1997 Residency, Folsom Physical Therapy & Training Center, Folsom, CA
1998-2000 Fellowship, Institute of Orthopedic Manual Therapy, Woburn, MA
2005-2006 Preceptorship, Rheumatology Research, Hebrew Senior Life, Boston, MA
2006-2008 Fellowship, Clinical Research (T32), Boston University School of Medicine, Boston, MA

ACADEMIC APPOINTMENTS

2001-2004 Instructor, College of Health and Rehabilitation Science, Boston University, Boston, MA
2006-2012 Post-Doctoral Research Associate, Boston University School of Medicine, Boston, MA
2007-2011 Assistant Professor, MGH Institute of Health Professions, Boston, MA
2012- Adjunct Assistant Professor, Boston University School of Medicine, Boston, MA
2011- Associate Professor, MGH Institute of Health Professions, Boston, MA

CLINICAL APPOINTMENTS

1996-1997 Physical Therapist; Sierra Therapy and Hand Rehabilitation, Auburn, CA
1997-1998 Physical Therapist; Loomis Medical Clinic, Loomis, CA
1998-1999 Physical Therapist; Lahey Clinic, Burlington, MA
1999-2000 Physical Therapist; Specialty Program Coordinator; Orthopaedics Plus, Woburn, MA
2000-2005 Physical Therapist; Residency Instructor; Winchester Hospital, Winchester, MA
2005-2006 Physical Therapist; DPT Clinical Instructor; Orthopaedics Plus, Burlington, MA
2006-2009 Continuing Educ. Director; Cambridge Health Alliance Rehab Services, Somerville, MA

LICENSES AND CERTIFICATIONS

1996 Physical Therapist, California License #22088
1998 Physical Therapist, Massachusetts License #12007
2000 Subspecialty Certification, Orthopaedic Manual Physical Therapy #9754
2001 Instructor Certification, Orthopaedic Manual Physical Therapy
2007 Certified, Responsible Conduct of Research, Boston University
2008 Certified, Protection of Human Research Subjects, NIH Extramural Research
2008 Certified, Human Subjects Research, Collaborative Institutional Training Initiative
2013 Certified Pedorthist (CPed), American Board for Certification in Orthotics, Prosthetics & Pedorthics

TEACHING ACTIVITIES

UNIVERSITY COURSES TAUGHT

2000-2004 Musculoskeletal Systems I: Foot and Lower Extremity
2002-2004 Musculoskeletal Systems II: Upper Extremity, Lab Instructor

2000-2004	Advanced Orthopedic Physical Therapy Elective
2005-2006	Scientific Basis of Human Movement
2000-2009	Musculoskeletal Dysfunction: Cervicothoracic and Craniomandibular Regions
2009-2010	Foundations of Clinical Assessment in Physical Therapy
2007- 2015	Principles of Measurement in Physical Therapy Practice and Research
2000-2016	Directed Research
2010-2016	Critical Inquiry I: Evidenced-Based Practice
2011-2016	Critical Inquiry II: Measurement and Methods of Statistical Analysis
2013-2016	Health Promotion Project
2014-2015	Designing Clinical Research
2014-	Research Design in Health and Rehabilitation Sciences
2017-	Client Management: Lumbopelvic Disorders
2017-	Client Management: Cervicothoracic and Craniomandibular Disorders

CONTINUING EDUCATION COURSES TAUGHT

2000-2002	Norwegian Approach to Manual Therapy: Cervicothoracic Spine
2000-2002	Norwegian Approach to Manual Therapy: Thoracic Spine and Rib Cage
2000-2002	Norwegian Approach to Manual Therapy: Lumbar Spine
2000-2002	Norwegian Approach to Manual Therapy: Shoulder Dysfunction
2006	Custom Fabrication of Foot Orthoses
2007-2009	Evidence-Based Orthopedic Manual Therapy: Year-long Continuing Educ. Course
2009	Cervicogenic Dizziness and Headaches, Lab Instructor
2009	Diagnosis and Management of Cervicothoracic Disorders: Evidence-based Approach
2012	Diagnosis and Management of Lumbopelvic Disorders: Evidence-based Approach
2017	Elevating Practice in Orthopaedic Physical Therapy: Spine

PROFESSIONAL SERVICE

DEPARTMENTAL AND UNIVERSITY COMMITTEES

2007-2012	Provost's Ad Hoc Committee on Research
2007-2013	Faculty Research and Scholarship Committee
2008-2014	Grants Review Committee, Faculty Research Fellowship
2009-2014	Curriculum Revision Committee, MPT for International Students,
2010-2012	Program Development Committee, PhD in Rehabilitation Sciences
2013-2014	Research Operations Committee
2013-2016	Faculty Senator
2014-2015	Faculty Search Committee
2014-2015	Chair, Senate Committee on Academic Policy and Governance
2014-2016	Senate Committee on Academic Policy and Governance
2015-present	Committee on Academic Policy and Procedure

PROFESSIONAL SOCIETIES

1996-	Member, American Physical Therapy Association, Research and Orthopaedics Sections
2000-	Fellow, American Academy of Orthopaedic Manual Physical Therapy
2005-	Member, American College of Rheumatology, Assoc Rheumatology Health Professionals
2009-	Member, Osteoarthritis Research Society International
2015-	Member, Pedorthic Footcare Association

JOURNAL MANUSCRIPT REVIEWER

2006-	Arthritis Care and Research
2006-	Arthritis and Rheumatism
2007-	Osteoarthritis and Cartilage

2008- Physical Therapy: Journal of the American Physical Therapy Association
 2009- Arthritis Research and Therapy
 2013- BMC Musculoskeletal Disorders

RESEARCH AND SCHOLARSHIP

GRANTS AWARDED

2014-2017 Rheumatology Research Foundation
 American College of Rheumatology
 Relation of Foot Mechanics to Medial Knee Load and Osteoarthritis Risk
 Role: Principal Investigator

2008-2014 NIH / NIA AG18820 PI: Felson
 NIH / National Institute of Aging, U01
 Multicenter Osteoarthritis Study (MOST)
 Role: Subcontract PI

2008-2012 NIH / NIAMS AR047853 PI: Hannan
 Foot Disorders, Pain and Physical Disability in Elders
 Role: Subcontract PI

2006-2009 Foot Type, Knee Pain, and Features of Osteoarthritis in Older Adults
 Arthritis Foundation, New Investigator Award
 Role: Principal Investigator

2007-2008 A New Way to Evaluate Gait in Adults with Knee Osteoarthritis
 Boston University Department of Medicine Pilot Project Award
 Role: Co-Investigator

2008-2009 Anatomical Origin of Forefoot Varus Deformity and Its Relationship to Signs of Hip and
 Patellofemoral OA in Cadavers.
 American College of Rheumatology Research and Education Foundation Health
 Professional Graduate Student Research Preceptorship
 Role: Principal Investigator

2004-2005 Foot Structural Abnormalities and Their Association with Hip and Low Back Pain
 Boston University Aging Research Center
 Role: Principal Investigator

INVITED PRESENTATIONS

Nov, 2014 Relation of Pelvic Drop During Walking to Risk of Incident Medial Knee Osteoarthritis.
 American College of Rheumatology Meeting. Boston, MA.

Nov, 2013 The Relationship Between Toe-out Angle During Walking and Risk of Knee
 Osteoarthritis Incidence. American College of Rheumatology Meeting. San Diego, CA.

Oct, 2013 Linking Evidence and Practice: From Group Data to Individual Patient Decision-making.
 American Physical Therapy Association of Massachusetts. Newton, MA.

May, 2012 The Relationship Between Quadriceps Angle During Walking and Patellofemoral
 Osteoarthritis in Older Adults. Osteoarthritis Research Society International World
 Conference on Osteoarthritis. Barcelona, Spain.

- Jan, 2012 National Osteoarthritis Datasets: Opportunities for Physical Therapists. American Physical Therapy Association Combined Sections Meeting, Chicago, IL.
- Jan, 2012 The Relationship Between Pelvic Drop During Walking and Medial Knee Osteoarthritis. American Physical Therapy Association Combined Sections Meeting, Chicago, IL.
- Nov, 2011 Breaking the Law of Valgus: The Surprising and Unexplained Prevalence of Medial Patellofemoral Cartilage Damage. American College of Rheumatology Annual Scientific Meeting, Chicago, IL.
- Nov, 2011 Relationship of Toe-out Walking with Characteristics of 1st Metatarsophalangeal Joint Osteoarthritis. American Physical Therapy Association of Massachusetts, Norwood, MA.
- Sept, 2011 How to Assess Lower Limb Mechanics and Function: World Congress on Osteoarthritis, Osteoarthritis Research Society International, San Diego, CA.
- Feb, 2011 The Osteoarthritis Epidemic: How Physical Therapists Will Save The World. Provost Research and Scholarship Sessions. MGH Institute of Health Professions. Boston, MA.
- Nov, 2009 Effectiveness of Common Physical Therapy Interventions for Knee Osteoarthritis: A Systematic Review. Annual Conference and Exposition of the American Physical Therapy Association of Massachusetts, Norwood, MA.
- Sept, 2009 Knee Osteoarthritis: Conservative Care for a Rising Epidemic. New Hampshire Musculoskeletal Institute, Bedford, NH.
- Sept, 2009 Identifying Cervical Causes of Headache, Dizziness and Shoulder Pain. New Hampshire Musculoskeletal Institute, Bedford, NH.
- Oct, 2008 Association of Planus Foot Morphology With Knee Pain and Cartilage Damage. American College of Rheumatology Annual Scientific Meeting, San Francisco, CA.
- Mar, 2008 Foot Morphology, Knee Pain and Cartilage Damage. Segal North American Osteoarthritis Workshop. Rush University Medical Center, Chicago, IL 2008
- Oct, 2007 Gait Analysis: Hip, Knee and Foot Effects on Gait and How to Assess Them. American College of Rheumatology, Association of Rheumatology Health Professionals Annual Scientific Meeting, Boston, MA.
- Oct, 2007 Our Best Foot Forward: Practical Perspectives from the Front Line of Population-Based Foot Research. American College of Rheumatology, Association of Rheumatology Health Professionals Annual Scientific Meeting, Boston, MA.

PUBLICATIONS

PEER REVIEWED ARTICLES

- 1 Wink AE, **Gross KD**, Brown CA, Guermazi A, Roemer FW, Niu J, Torner J, Lewis CE, Nevitt MC, Tolstykh I, Sharma L, Felson DT. Varus thrust during walking and the risk of incident and worsening medial tibiofemoral MRI lesions: the Multicenter Osteoarthritis Study. (S1063-4584(17)30025-0) 2017. doi:10.1016/j.joca.2017.01.005
- 2 Lufler RS, Stefanik JJ, Niu J, Sawyer FK, Hoagland TM, **Gross KD**. The Association of Forefoot Varus Deformity with Patellofemoral Cartilage Damage in Older Adult Cadavers., Anat Rec (Hoboken), 2016 Nov. doi:10.1002/ar.23524

- 3 Stefanik JJ, **Gross KD**, Guermazi A, Roemer FW, Felson DT, Niu J, Lynch JA, Segal NA, Lewis CE. Relation of Step Length to Magnetic Resonance Imaging-Detected Structural Damage in the Patellofemoral Joint: The Multicenter Osteoarthritis Study, *Arthritis Care and Research*, 66(6) 2016, 776-783. doi:10.1002/acr.22738.
- 4 Rao S, **Gross KD**, Niu J, Nevitt MC, Lewis CE, Torner JC, Hietpas J, Felson DT, Hillstrom HJ. Are Pressure Time Integral and Cumulative Plantar Stress Related to First Metatarsophalangeal Joint Pain? Results From a Community-Based Study. *Arthritis Care & Research*, 2016 Sept; 68(9): 1232–1238.
- 5 White DK, Tudor-Locke C, Zhang Y, Niu J, Felson DT, **Gross KD**, Nevitt MC, Lewis CE, Torner J, Neogi T. Prospective change in daily walking over 2 years in older adults with or at risk of knee osteoarthritis: the MOST study. *Osteoarthritis & Cartilage*. 2016 Feb; 24(2):246-53. PMID: 26318659.
- 6 Stefanik JJ, **Gross KD**, Guermazi A, Felson DT, Roemer FW, Zhang Y, Nui J, Segal NA, Lewis CE, Nevitt MC, Neogi T. The relation of MRI-detected structural damage in the medial and lateral patellofemoral joint to knee pain: The Multicenter and Framingham Osteoarthritis Studies. *Osteoarthritis & Cartilage*. 23(4) 2015, 565-70. PMID: PMC4368472.
- 7 Rezaeian ZS, Smith MM, Skaife TL, Harvey WF, **Gross KD**, Hunter DJ. Does knee malalignment predict the efficacy of realignment therapy for patients with knee osteoarthritis? *Int J Rheum Dis*. (2015) Jul 14. PMID: 26171969.
- 8 Townsend EL, Tamhane H, **Gross KD**. Effects of AFO Use on Walking in Boys with Duchenne Muscular Dystrophy: A Pilot Study. *Pediatric Physical Therapy* (2015) Spring; 27(1): 24-9. PMID: 25401456.
- 9 Boissonneault A, Lynch JA, Wise BL, Segal NA, **Gross KD**, Murray DW, Nevitt MC, Pandit HG. Association of hip and pelvic geometry with tibiofemoral osteoarthritis: Multicenter Osteoarthritis Study (MOST). *Osteoarthritis and Cartilage* (2014) June. PMID: PMC4195737.
- 10 White DK, Tudor-Locke C, Zhang Y, Fielding R, LaValley M, Felson D, **Gross KD**, Nevitt M, Lewis C, Torner J, Neogi T. Daily walking and the risk of incident functional limitation in knee OA: An observational study. *Arthritis Care Res*. (2014) June. PMID: PMC4146701.
- 11 Segal NA, Nevitt MC, **Gross KD**, Hietpas J, Glass NA, Lewis CE, Torner JT. The Multicenter Osteoarthritis Study (MOST): Opportunities for Rehabilitation Research. *Archives of Physical Medicine & Rehabilitation* (2013) Aug; 5(8):647-54. PMID: PMC3867287.
- 12 Felson DT, Niu J, **Gross KD**, Englund M, Sharma L, Cooke D, Guermazi A, Roemer FW, Nevitt MC, Segal NA, Goggins J, Lewis CE. Valgus malalignment is a risk factor for lateral knee osteoarthritis incidence and progression: Findings from MOST and the osteoarthritis initiative. *Arthritis & Rheumatism*. (2013) Feb; 65(2):355-62. PMID: PMC3558618.
- 13 White DK, Tudor-Locke C, Felson DT, **Gross KD**, Niu J, Nevitt MC, Lewis CE, Torner J, Neogi T. Do radiographic disease and pain account for why people with or at high risk of knee osteoarthritis do not meet Physical Activity Guidelines? *Arthritis & Rheumatism* (2013) Jan; 65(1):139-47. PMID: PMC3535507.
- 14 White DK, Tudor-Locke C, Felson DT, **Gross KD**, Niu J, Nevitt MC, Lewis CE, Torner J, Neogi T. Walking to meet physical activity guidelines in knee OA: Is 10,000 steps enough? (2013) *Archives of Physical Medicine & Rehabilitation* (2013) Apr; 94(4):711-7. PMID: PMC3608824.

- 15 Lufler RS, Hoagland TM, Niu J, **Gross KD**. The anatomic origin of forefoot varus malalignment. *Journal of the American Podiatric Medical Association*. (2012) Sept; 102(5): 390-395. PMID: 23001732.
- 16 White DK., Keysor, JJ, Neogi T, Felson DT, LaValley M, **Gross KD**, Niu J, Nevitt MC, Lewis CE, Torner J, Fredman L. When it hurts, a positive attitude may help: The association of positive affect with daily walking in knee OA: The MOST Study. *Arthritis Care & Research* (2012) Sep; 64(9):1312-9. PMID: PMC3410957.
- 17 Stefanik JJ, Niu J, **Gross KD**, Roemer FW, Guermazi, A, Felson DT. Using magnetic resonance imaging to determine the compartmental prevalence of knee joint structural damage. *Osteoarthritis & Cartilage* (2013) May;21(5):695-9. PMID: PMC3638815.
- 18 White DK, Neogi T, Felson DT, Niu J, Nevitt MC, Lewis CE, Torner J, **Gross KD**, The association of obesity with walking independent of knee pain: The Multicenter Osteoarthritis Study. *Journal of Obesity* (2012) Article ID 261974. PMID: PMC3356701.
- 19 **Gross KD**, Niu J, Stefanik JJ, Guermazi A, Roemer FW, Sharma L, Nevitt MC, Segal NA, Lewis CE, Felson DT. Breaking the law of valgus: the surprising and unexplained prevalence of medial patellofemoral cartilage damage. *Annals of the Rheumatic Diseases* (2012) Nov;71(11):1827-32. PMID: PMC4011177.
- 20 Hunter DJ, **Gross KD**, McCree P, Li L, Hirko K, Harvey WF. Realignment treatment for medial tibiofemoral osteoarthritis: a randomised trial. *Annals of the Rheumatic Diseases* (2012) Oct;71(10):1658-65. Epub 2012 Feb 29. PMID: 22377805.
- 21 Stefanik JJ, Roemer FW, Zumwalt AC, Zhu Y, **Gross KD**, Lynch JA, Frey-Law LA, Lewis CE, Guermazi A, Powers CM, Felson DT. Association between measures of trochlear morphology and structural features of patellofemoral joint osteoarthritis on MRI: the MOST study. *Journal of Orthopaedic Research*. (2012) Jan; 30(1):1-8. PMID: PMC3217080.
- 22 **Gross KD**, Niu J, Felson DT, Hunter DJ, Guermazi A, Roemer FW, Dufour AB, Gensure R, Hannan MT. Association of flat feet with knee pain and cartilage damage in older adults. *Arthritis Care & Research* (2011) Jul; 63(7):937–944. PMID: PMC3087845.
- 23 Hunter DJ, Harvey W, **Gross KD**, Felson DT, McCree P, Li L, Hirko K, Zhang B, Bennell K. A randomized trial of patellofemoral bracing for treatment of patellofemoral osteoarthritis. *Osteoarthritis & Cartilage* (2011) Jul; 19(7):792-800. PMID: PMC3090698.
- 24 Stefanik JJ, Guermazi A, Zhu Y, Zumwalt AC, **Gross KD**, Clancy M, Lynch JA, Segal NA, Lewis CE, Roemer FW, Powers CM, Felson DT. Quadriceps weakness, patella alta and structural features of patellofemoral osteoarthritis: The multicenter osteoarthritis study. *Arthritis Care & Research* (2011) Oct; 63(10):1391–1397. PMID: PMC3183313.
- 25 Stefanik JJ, Zhu Y, Zumwalt AC, **Gross KD**, Clancy M, Lynch JA, Frey Law LA, Lewis CE, Roemer FW, Powers CM, Guermazi A, Felson D T. Association between patella alta and the prevalence and worsening of structural features of patellofemoral joint osteoarthritis: The multicenter osteoarthritis study. *Arthritis Care & Research* (2010), 62:1258–1265. PMID: PMC2943040.

- 26 **Gross KD**. Device use: braces, walking aids, and orthotics for older adults with osteoarthritis. *Clinics in Geriatric Medicine* (2010), 26(3): 479-502. PMID: 20699167.
- 27 **Gross KD**, Hillstrom HJ. Knee osteoarthritis: primary care using noninvasive devices and biomechanical principles. *Medical Clinics of North America* (2009), 93(1): 179-200. PMID: 19059028.
- 28 Felson DT, **Gross KD**, Nevitt MC, Yang M, Lane NE, Torner J, Lewis CE, Hurley M. The effects of impaired joint position sense on the development and progression of pain and structural damage in knee osteoarthritis. *Arthritis & Rheumatism* (2009), 61(8):1070-1076. PMCID: PMC2758271.
- 29 **Gross KD**, Hillstrom HJ. Noninvasive devices targeting the mechanics of knee osteoarthritis. *Rheumatic Disease Clinics of North America* (2008), 34(3): 755-76. PMID: 18687281.
- 30 Hunter DJ, Niu J, Felson DT, Harvey WF, **Gross KD**, McCree P, Aliabadi P, Sack B, Zhang Y. Knee alignment does not predict incident knee OA: The Framingham Osteoarthritis Study. *Arthritis & Rheumatism* (2007), 56(4): 1212-1218. PMID: 17393450.
- 31 **Gross KD**, Niu J, Zhang YQ, Felson DT, McLennan C, Hannan MT, Holt KG, Hunter DJ. Varus foot alignment and hip conditions in older adults. *Arthritis & Rheumatism* (2007), 56(9): 2993-2998. PMID: 17763430.

REVIEWS AND EDITORIALS

- 1 **Gross KD**, Hunter DJ. Osteoarthritis of the knee. *Geriatrics & Aging* (2006), 9(8): 526-534.

ABSTRACTS AND POSTER PRESENTATIONS

- 1 **Gross KD**, Hillstrom HJ, Brown CA, Jones R, Stefanik JJ, Nevitt MC, Lewis CE, Torner J, Felson DT. Relation of Foot Pronation During Walking to Risk of Worsening Lateral Patellofemoral and Medial Tibiofemoral Cartilage Damage. 2016 Annual Meeting of American College of Rheumatology, Washington, D.C.
- 2 Wink AE, **Gross KD**, Brown CA, Niu J, Torner J, Lewis CE, Nevitt MC, Guerhazi A, Roemer FW, Sharma L, Felson DT. Relation of varus knee thrust during walking to risk of incident and progressive MRI lesions: The multicenter osteoarthritis study. 24(1), Page S29. 2016 World Conference on Osteoarthritis. Amsterdam, Netherlands.
- 3 Wink AE, Niu J, Felson DT, Nevitt MC, Torner J, Lewis CE, Brown CA, Shakoor N, Sharma L, **Gross KD**. Structural and Sensorimotor Correlates of Varus Knee Thrust During Walking: The multicenter osteoarthritis study. 24(1), Pages S89–S90. 2016 World Conference on Osteoarthritis. Amsterdam, Netherlands.
- 4 Wink AE, Niu J, Felson DT, Nevitt MC, Torner J, Lewis CE, Brown CA, Shakoor N, Sharma L, **Gross KD**. Structural and Sensorimotor Deficits Associated with Abnormal Frontal Plane Motion of the Knee During Gait: the Multicenter Osteoarthritis Study. *FASEB Journal* 30(1) Supplement 779.19. Experimental Biology 2016 Meeting. San Diego, CA.
- 5 **Gross KD**, Hillstrom HJ, Quinn EK, Nevitt MC, Lewis CE, Torner JC, Felson DT. Relation of Pronated Foot Posture to Risk of Worsening Knee Pain and Compartment-Specific Knee Cartilage Damage. *Arthritis Rheumatol.* 2015; 67 (suppl 10). 2015 Annual Meeting of the American College of Rheumatology. Boston, MA.

- 6 Gross KD, Hillstrom HJ, Nui J, Nevitt MC, Torner JC, Lewis CE, Felson DT. Relation of Shoe Stability to Risk of Knee Cartilage Damage. 2014 Annual Meeting of the American College of Rheumatology. Boston, MA.
- 7 Shakoor N, Lidtke R, Ferrigno C, Nair A, Wimmer M, Gross KD, Thorp L, Block JA. Characteristics of conventional footwear and their association with reductions in knee loading with a flexible footwear intervention. 2014 Annual Meeting of the American College of Rheumatology. Boston, MA.
- 8 Gross KD, Hillstrom HJ, Zhang YQ, Quinn EK, Nevitt MC, Segal NA, Lewis CE, Felson DT. The relationship of foot pronation during walking to risk of incident cartilage damage in the medial tibiofemoral and lateral patellofemoral knee compartments. 2013 Annual Meeting of the American College of Rheumatology. San Diego, CA.
- 9 Stefanik JJ, Gross KD, Felson DT, Niu J, White DK, Guermazi A, Roemer FW, Lewis CE, Segal NA, Nevitt MC, Lewis CL. The relation of step length to MRI features of osteoarthritis in the patellofemoral joint: the MOST study. 2014 Annual Meeting of the American College of Rheumatology. Boston, MA.
- 10 Moontanah R, Hillstrom HJ, Gross KD, Niu J, Nevitt MC, Lewis CE, Segal NA, Hietpas J, Felson DT. The relationship between radiographic knee osteoarthritis, pain, and gait pattern asymmetry. 2013 Orthopaedic Research Society Annual Meeting. San Antonio, TX.
- 11 Moontanah R, Hillstrom HJ, Gross KD, Niu J, Nevitt MC, Lewis CE, Segal NA, Hietpas J, Felson DT. Stance and single support time asymmetry identify unilateral knee osteoarthritis and the involved limb. 2013 World Conference on Osteoarthritis. Philadelphia, PA.
- 12 Moontanah R, Gross KD, Felson DT, Niu J, Nevitt MC, Lewis CE, Segal NA, Hietpas J, Hillstrom HJ. Association of radiographic knee osteoarthritis and pain with gait asymmetry. 2013 American Academy of Orthopaedic Surgeons. Chicago, IL.
- 13 White DK, Gross KD, Gullian A, Felson DT, Niu J, Nevitt MC, Lewis CE. Does Unpredictable Intermittent Knee Pain Limit Functional Ability and Walking Frequency in Knee OA? 2012 Annual Meeting of the American College of Rheumatology. Washington, DC.
- 14 Gross KD, Niu J, Chacko A, Zhang Y, Hillstrom HJ, Mattson DJ, Nevitt MC, Segal NA, Lewis CE, Felson DT. The relationship between pelvic drop during walking and radiographic medial knee osteoarthritis. 2012 World Conference on Osteoarthritis. Barcelona, Spain.
- 15 Gross KD, Niu J, Tseng Y, Zhang Y, Hillstrom HJ, Mattson DJ, Nevitt MC, Segal NA, Lewis CE, Felson DT. The relationship between quadriceps angle during walking and patellofemoral osteoarthritis in older adults. 2012 World Conference on Osteoarthritis. Barcelona, Spain.
- 16 Rao S, Gross KD, Niu J, Nevitt MC, Lewis CE, Torner J, Hietpas J, Felson DT, Hillstrom HJ. Are pressure-time integral and cumulative plantar stress related to 1st metatarsal phalangeal joint pain? 2012 World Conference on Osteoarthritis. Barcelona, Spain.
- 17 Stefanik JJ, Niu J, Segal NA, Gross KD, Lewis CE, Nevitt MC, Roemer F, Guermazi A, Felson DT. The association between hamstring strength and hamstring-quadriceps strength ratio with patellofemoral joint cartilage damage. 2012 World Conference on Osteoarthritis. Barcelona, Spain.
- 18 White DK, Gross KD, Nevitt MC, Lewis CE, Torner J, Felson DT. Factors associated with achieving physical activity guidelines among those who can meet them. 2012 American Physical Therapy Association Combined Sections Meeting. Chicago, IL.

- 19 Tamhane H, Townsend E, Gross KD. Effects of Dynamic Response Ankle Foot Orthoses Use on Functional Performance and Walking Endurance in Ambulatory Boys with Duchenne Muscular Dystrophy: A Pilot Study. 2012 American Physical Therapy Association Combined Sections Meeting. Chicago, IL.
- 20 White DK, Zhang Y, Gross KD, Niu J, Nevitt MC, Lewis CE, Torner JC, Felson DT. Is knee pain relevant for meeting physical activity guidelines among people with knee osteoarthritis who can already walk at a moderate intensity? 2011 Annual Meeting of the American College of Rheumatology. Chicago, IL.
- 21 Gross KD, Hillstrom HJ, Niu J, Nevitt MC, Lewis CE, Torner JC, Felson DT. The relationship between toe-out during walking and clinical characteristics of 1st metatarsophalangeal joint osteoarthritis: the MOST study. 2011 World Conference on Osteoarthritis. San Diego, CA.
- 22 Stefanik JJ, Gross KD, Niu J, Roemer FW, Guermazi A, Felson DT. The patellofemoral joint is the most common compartment affected by structural features of knee osteoarthritis using magnetic resonance imaging data. 2011 World Conference on Osteoarthritis. San Diego, CA.
- 23 Gross KD, Wang Y, Niu J, Frey-Law L, Lewis CE, Felson DT. Relationship of medial knee osteoarthritis symptoms and toe-out angle during walking. 2011 American Physical Therapy Association Combined Sections Meeting. New Orleans, LA.
- 24 White DK, Neogi T, Niu J, Nevitt MC, Lewis CE, Torner J, Gross KD. Characteristics of persons with or at high risk of knee osteoarthritis achieving recommended physical activity levels. 2010 Annual Meeting of the American College of Rheumatology. Atlanta, GA.
- 25 Gross KD, Niu J, Zhang Y, Nevitt MC, Lewis CE, Torner J, Felson DT. The relationship between symptoms of medial tibiofemoral osteoarthritis and toe-out angle during walking. 2010 Annual Meeting of the American College of Rheumatology. Atlanta, GA.
- 26 Gross KD, Lufler RS, Stefanik JJ, Niu J, Hoagland TM, Foster TE, Felson, DT. Forefoot varus: anatomic origin and association with patellofemoral cartilage damage in cadavers. 2010 World Conference on Osteoarthritis. New Orleans, LA.
- 27 Gross KD, Kaur P, Yadav S, Portney LG. Effectiveness of common physical therapy interventions for knee osteoarthritis: a systematic review. 2010 Annual Conference of American Physical Therapy Association. Boston, MA.
- 28 Stefanik JJ, Zhu Y, Gross KD, Clancy M, Zumwalt AC, Lynch JA, Felson DT. Does quadriceps strength modify the association of patella alta with structural features of patellofemoral osteoarthritis? 2010 American Association of Anatomists Annual Meeting. Anaheim, CA.
- 29 Lufler RS, Stefanik JJ, Hoagland TM, Gross KD. The varus forefoot: anatomical origin and implications for knee OA. 2010 American Association of Anatomists Annual Meeting. Anaheim, CA.
- 30 Lufler RS, Stefanik JJ, Hoagland TM, Gross KD. Forefoot varus malalignment: anatomical origin and association with signs of patellofemoral joint osteoarthritis in cadavers. Journal of Federation of American Societies for Experimental Biology (2010) 178.2.
- 31 Hillstrom HJ, Giacomozzi C, Lenhoff M, Zifchock R, Vanadurongwan B, Gross KD, Mclennan C, Hannan MT. Accuracy of the Novel emed x and Tekscan matscan plantar pressure measurement systems. Proceedings of Emed Scientific Meeting (2009) Dundee, Scotland.

- 32 Hunter DJ, Gross KD, McCree P, Li L, Lamb K, Zhang B, Harvey WF. A randomized trial of realignment therapy for treatment of medial tibiofemoral osteoarthritis. 2009 World Conference on Osteoarthritis. Montreal, Canada.
- 33 Hunter DJ, Gross KD, McCree P, Li L, Lamb K, Zhang B, Harvey WF. A randomized trial of realignment therapy for treatment of medial tibiofemoral osteoarthritis. 2009 Annual Meeting of the American College of Rheumatology. Philadelphia, PA.
- 34 Gross KD, Niu J, Goggins JP, Cooke TDV, Nevitt MC, Felson DT. Measures of alignment in knee OA: How valid are clinical methods? 2009 Annual Meeting of the American College of Rheumatology. Philadelphia, PA.
- 35 Stefanik JJ, Zhu Y, Gross KD, Clancy M, Zumwalt AC, Lynch JA, Felson DT. The association between patella alta and structural features of patellofemoral joint osteoarthritis on MRI. 2009 Annual Meeting of the American College of Rheumatology. Philadelphia, PA.
- 36 Stefanik JJ, Zhu Y, Zumwalt AC, Gross KD, Clancy M, Lynch JA, Frey Law LA., Lewis CE, Guermazi A, Powers CM, Felson DT. Patella alta is associated with patellofemoral malalignment. 2009 Annual Meeting of the American College of Rheumatology. Philadelphia, PA.
- 37 Stefanik JJ, Zhu Y, Gross KD, Clancy M, Zumwalt AC, Lynch J, Felson DT. The association between patella alta and structural features of osteoarthritis on MRI. Journal of Federation of American Societies for Experimental Biology (2009) 23(4): 649.
- 38 Gross KD, DuFour AB, Gensure, RH, Broe, KE, Hunter DJ, Hillstrom HJ, McLennan CE, Hannan MT. Foot pain and arch morphology in older adults. 2008 Annual European Congress of Rheumatology. Paris, France.
- 39 Gross KD, Niu J, Felson DT, Hunter DJ, Guermazi A, Roemer FW, Dufour AB, Gensure R, Hannan MT. Planus foot morphology is associated with knee pain and cartilage damage in older adults. 2007 Annual Meeting of the American College of Rheumatology. Boston, MA.
- 40 Felson DT, Gross KD, Hurley M, Yang M, Niu JB, Lane NE, Torner J, Lewis CE. Proprioceptive acuity is associated with new knee pain but not worsening radiographic knee OA. 2007 Annual Meeting of the American College of Rheumatology. Boston, MA.
- 41 Harvey WF, Miller M, Gross KD, Hunter DJ, Messier S. Kinematic alterations in gait in compartment specific diagnoses of knee OA. 2007 Annual Meeting of the American College of Rheumatology. Boston, MA.
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