Curriculum Vitae

Barbara J. Norton, PT, PhD, FAPTA

Date: June 30, 2024

Personal Information

Birthplace: St. Louis, MO

Citizenship: USA

Address and Telephone Numbers

University: Washington University in St. Louis

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Present Positions

Professor, Physical Therapy

Associate Director for Education Technology

Education and Training

1966	BS, Physical Therapy, Washington University in St. Louis, St. Louis, MO
1985	MHS, Physical Therapy, Washington University in St. Louis, St. Louis, MO
1996	PhD, Psychology, Washington University in St. Louis, St. Louis, MO

Academic Positions and Employment

1966 - 1968	Staff Physical Therapist, Physical Therapy, Washington University in St. Louis, St. Louis, MO
1968 - 1998	Instructor, Physical Therapy, Washington University in St. Louis, St. Louis, MO
1968 - 1982	Research Physical Therapist, Physical Therapy, Washington University in St. Louis, St. Louis, MO
1977 - 1977	Adjunct Instructor, St. Louis University, Department of Physical Therapy, St. Louis, MO
1982 - 1993	Coordinator, Applied Kinesiology Laboratory, Washington University in St. Louis, St. Louis, MO
1983 - 1993	Coordinator, Clinical Research Training Program, Washington University in St. Louis, St. Louis, MO
1987 - 1987	Visiting Faculty, University of Wisconsin - La Crosse, Department of Physical Therapy, La Crosse, WI

1992 - 2014	Associate Director for Postprofessional Studies, Washington University in St. Louis, St. Louis, MO
1996 - 1996	Visiting Faculty, University of Evansville, Department of Physical Therapy, Evansville, IN
1997 - 1997	Visiting Faculty, University of Wisconsin - La Crosse, Department of Physical Therapy, La Crosse, WI
1998 - 1998	Visiting Faculty, University of Indianapolis, Department of Physical Therapy, Indianapolis, IN
1998 - 2003	Assistant Professor, Physical Therapy, Washington University in St. Louis, St. Louis, MO
2003 - 2011	Associate Professor, Physical Therapy, Washington University in St. Louis, St. Louis, MO
2011 - Pres	Professor, Physical Therapy, Washington University in St. Louis, St. Louis, MO
2014 - 2015	Associate Director, Washington University in St. Louis, St. Louis, MO
2015 - Pres	Associate Director for Education Technology, Washington University in St. Louis, St. Louis, MO

Appointments and Committees

University Affiliations

1989 - 1996	Steven J. Rose Research Award Committee, Program in Physical Therapy
1990 - 1996	Alumni Award Committee, Program in Physical Therapy
1992 - 2002	University College Faculty Council
1993 - Pres	DPT Curriculum Committee, Program in Physical Therapy
1993 - 2014	Lorraine Lake Award Committee, Program in Physical Therapy
1996	Program Improvement Committee, Program in Physical Therapy
1998 - 2014	Postprofessional Clinical Doctorate Advisory Committee, Program in Physical Therapy
2000 - 2007	WUSM Computer-based Learning Special Interest Group (CBL SIG)
2001 - 2002	DPT Curriculum Development Committee, Program in Physical Therapy
2002 - 2015	Website Committee, Program in Physical Therapy
2004 - Pres	Research Advisory Committee, Program in Physical Therapy
2009 - 2012	WUSM Educational Technology Advisory Committee
2009 - 2010	Faculty Search Committee, Program in Physical Therapy
2011 - Pres	PTCAPES, Program in Physical Therapy
2014 - 2015	Movement System Symposium Planning Committee, Program in Physical Therapy
2014 - 2015	Program Philosophy Revision Committees for Research, Education, and Clinical Practice Divisions, Program in Physical Therapy
2014 - 2015	Program Strategic Planning Work Group for Marketing
2017 - 2018	Faculty Search Committee, Program in Physical Therapy
2017 – 2020	Learning Management System (LMS) Review Committee, Washington University in St. Louis
2020 - Pres	Canvas Admins, Washington University in St. Louis
2023 – Pres	Education Research Group, Washington University in St. Louis

Scientific Advisory Boards

1984 - 1986	Arthritis Foundation,	Grant Reviewer
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2010 - 2014 BJHF/ICTS Clinical and Translational Research Funding Program, Grant Reviewer

Licensure and Certifications

1970 - Pres MO State Board of Registration for the Healing Arts #194

Honors and Awards

1982	Outstanding Service Award for Research, Missouri Physical Therapy Association
1988	Alumni Award, Washington University, Program in Physical Therapy
1990	Mary McMillan Scholarship Award, American Physical Therapy Association
1999	Golden Pen Award, American Physical Therapy Association
2005	Catherine Worthingham Fellow of the American Physical Therapy Association
2010	Mentor Award, Academic Women's Network, Washington University School of Medicine
2020	Distinguished Faculty Award, Washington University in St. Louis
2022	Rose Excellence in Research Award, Academy of Orthopedic Physical Therapy

Editorial Responsibilities

Editorial Boards

2000 - 2007	Journal of Orthopaedic and Sports Physical Therapy, Editorial Board Member
2001 - 2007	Journal of Orthopaedic and Sports Physical Therapy, Associate Editor

Editorial Reviews

1979 - Pres	Physical Therapy, Manuscript Reviewer
1999 - Pres	Journal of Orthopaedic and Sports Physical Therapy, Manuscript Reviewer
2004 - 2014	Physiotherapy Theory and Practice, Manuscript Reviewer
2008 - 2015	Arthritis Care & Research, Manuscript Reviewer

Professional Societies and Organizations

1965 - Pres	American Physical Therapy Association, Member
1965 - Pres	Missouri Physical Therapy Association, Member
1969 - Pres	American Physical Therapy Association, Section on Research, Member
1970 - 1972	Missouri Physical Therapy Association, Eastern District, Chair
1970 - 1974	Missouri Physical Therapy Association, Eastern District, Member
1973 - 1974	Missouri Physical Therapy Association, Eastern District, Chair
1976	Missouri Physical Therapy Association, Eastern District, Member
1976 - 1977	Missouri Physical Therapy Association, Co-Chair
1978 - 1980	Missouri Physical Therapy Association, Eastern District, Chair
1978 - 1974	Missouri Physical Therapy Association, Member
1978 - 1982	Missouri Physical Therapy Association, Chair
1982 - 1988	Missouri Physical Therapy Association, Chair

Society for Medical Decision Making, Member
American Physical Therapy Association, Member
American Physical Therapy Association, Member
Society for Judgment and Decision Making, Member
American Physical Therapy Association, Chair
American Physical Therapy Association, Member
American Physical Therapy Association, Education Section, Member
American Physical Therapy Association, Member
American Physical Therapy Association, Orthopaedic Section, Member
American Physical Therapy Association, Member
American Physical Therapy Association, Section on Research, Member
American Physical Therapy Association, Member
Missouri Physical Therapy Association, Chair
American Physical Therapy Association, Member
American Physical Therapy Association, Section on Research, Member
American Physical Therapy Association, Member
American Physical Therapy Association, Member
American Physical Therapy Association, Orthopaedic Section, Member

Major Invited Professorships and Lectures

1996 - 1996 Rosemary Scully Visiting Scholar and Lecturer, Physical Therapy Department, University of Pittsburgh

Consulting Relationships and Board Memberships

1983	Invited Participant, Clinical Investigation in Pathokinesiology: Process, Content and Practical Application, American Physical Therapy Association, Kansas City, MO
1984 - 1986	Grant Reviewer, Arthritis Foundation (Research)
1986 - 1987	Consultant, University of Alabama - Birmingham, Program in Physical Therapy, Birmingham, Alabama (Research)
1991	Member of Planning Group, Group Leader, Invited Participant, Conference on Content of Post-baccalaureate Degree Entry-Level Curricula (IMPACT I), American Physical Therapy Association, Department of Education, Amelia Island, FL
1992	Member of Planning Group and Invited Participant, Colloquium on Teaching Clinical Decision Making, American Physical Therapy Association, Task Force on Clinical Decision Making, Denver, CO
1992	Member Planning Committee, Conference Co-Chair, and Moderator, Regional Conference on Content of Post-baccalaureate Degree Entry-Level Curricula (IMPACT II - Session 3), American Physical Therapy Association, Task Force on Content of Post-baccalaureate Degree Entry-Level Curricula, Baltimore, MD
1992	Member Planning Committee, Conference Co-Chair, and Moderator, Regional Conference on Content of Post-baccalaureate Degree Entry-Level Curricula (IMPACT II - Session 4), American Physical Therapy Association, Task Force on Content of Post-baccalaureate Degree Entry-Level Curricula, Chicago, IL

1993	Invited Participant, Project Focus '93: Conference on Work Related Injury, Foundation for Physical Therapy, American Physical Therapy Association, Alexandria, VA
1994	Consultant, Committee to Revise HOD Policy on Diagnosis, American Physical Therapy Association, Alexandria, VA
2006	Chair of Planning Committee and Moderator, Diagnosis Dialog I, Washington University in St. Louis, Program in Physical Therapy, St. Louis, MO
2007	Chair of Planning Committee and Moderator, Diagnosis Dialog II, MGH Institute of Health Professions, Boston, MA
2007	Chair of Planning Committee and Moderator, Diagnosis Dialog III, Regis University, Physical Therapy Department, Denver, CO
2008	Chair of Planning Committee and Moderator, Diagnosis Dialog IV, Nashville, TN
2009	Chair of Planning Committee and Moderator, Diagnosis Dialog V, Las Vegas, NV
2009	Invited participant, Focus Group for Revising the Guide to Physical Therapist Practice , American Physical Therapy Association, Alexandria, VA
2009	Invited participant, Special Conference on Research - Creating a Culture of Collaboration: Vitalizing Practice through Research and Research through Practice , American Physical Therapy Association, Alexandria, VA
2010 - 2014	Grant Reviewer, BJHF/ICTS Clinical and Translational Research Funding Program (Research)
2010	Chair of Planning Committee and Moderator, Diagnosis Dialog VI, San Diego, CA
2010	Chair of Planning Committee and Moderator, Diagnosis Dialog VII, Boston, MA
2011	Chair of Planning Committee and Moderator, Diagnosis Dialog VIII, New Orleans, LA
2012	Chair of Planning Committee and Moderator, Diagnosis Dialog IX, Chicago, IL
2012	Invited participant in Webinar, APTA Visioning Consensus Group Conference , American Physical Therapy Association, Alexandria, VA
2012	Invited reviewer, Guide to Physical Therapist Practice Revision Work Group , American Physical Therapy Association, Alexandria, VA
2013	Chair of Planning Committee and Moderator, Diagnosis Dialog X, San Diego, CA
2014	Chair of Planning Committee and Moderator, Diagnosis Dialog XI, Las Vegas, NV
2015	Chair of Planning Committee and Moderator, Diagnosis Dialog XII, Indianapolis, IN
2016	Chair of Planning Committee and Moderator, Diagnosis Dialog XIII, Anaheim, CA
2015 - 2019	Member, APTA Movement System Task Force
2016	Invited Participant, APTA Movement System Summit

Research Support

Governmental Support

R01 HD047709 (Van Dillen - Research Associate)

5/1/2013-4/30/2020

MICHD

Spinal control during functional activities to improve low back pain outcomes Clinical trial

Completed Support

(Norton - Principal Investigator)

3/1/2010- 11/30/2012

Washington University Program in Physical

Therapy

Testing of Prolonged Sitting with a Posture Monitoring System

(Norton - Principal Investigator)

7/1/2008-6/30/2009

Missouri Physical Therapy Association

Development & Testing of a Sitting Posture Monitoring & Alerting System

(Norton - Principal Investigator)

5/1/2008-4/30/2009

Washington University Program in Physical

Therapy

Development & Testing of a Sitting Posture Monitoring & Alerting System

(Norton - Principal Investigator)

1/1/1994- 12/31/1996

Foundation for Physical Therapy

Reliability of a classification system for patients with low back pain and analysis of selected quantitated variables

(Van Dillen - Co-Investigator)

5/29/2009-5/28/2010

Washington University Institute for Clinical &

Translational Science JIT Core Usage

Funding

Trunk and pelvic region characteristics in subgroups of people with low back pain

(Sahrmann - Co-Investigator)

1/1/1984- 12/31/1984

Arthritis Foundation

The effect of a specific exercise program on gait and functional capacity in patients with arthritis

(Rose - Co-Investigator)

1/1/1983- 12/31/1983

American Back School

Electromyographic analysis of forward bending in patients with low back syndrome

(Sahrmann - Co-Investigator)

1/1/1982- 12/31/1982

Arthritis Foundation

The relationship of altered neuromuscular responses and knee joint pathology to function in patients with arthritis

(Sahrmann - Co-Investigator)

1/1/1980- 12/31/1980

Arthritis Foundation

Quantitative assessment of muscle tone in patients with rheumatoid arthritis

(Sahrmann - Co-Investigator)

1/1/1978- 12/31/1978

Physical Therapy Fund

Biomechanical & electrophysiological analysis of movement in the hand-knee position

1 T32 HD07434-01 (Sahrmann - Research

7/1/2000-4/30/2005

Associate)

NIH-NIMRR

Doctoral training in movement science

Current Teaching Responsibilities

2021 - Pres Lab Assistant for Negotiation Assessments for two Modules in the DPT curriculum

Publications

- 1. **Norton BJ**, Bomze HA, Chaplin H Jr. An approach to the objective measurement of spasticity. *Phys Ther*. 1972;52(1):15-24. PMID: 5006976
- 2. Sahrmann SA, **Norton BJ**, Bomze HA, Eliasson SG. Reflex responses to passive motion in normal and spastic man. *Proceedings of the World Confederation for Physical Therapy, Seventh International Congress*. 1974;403-410.
- 3. **Norton BJ**, Bomze HA, Sahrmann SA, Eliasson SG. Objective documentation of the relationship between spasticity and rate of passive movement. *Proceedings of the World Confederation for Physical Therapy, Seventh International Conference*. 1974;416-422.
- 4. Sahrmann SA, **Norton BJ**, Bomze HA, Eliasson SG. Influence of the site of the lesion and muscle length on spasticity in man. *Phys Ther.* 1974;54(12):1290-1297.
- 5. **Norton BJ**, Bomze HA, Sahrmann SA, Eliasson SG. Correlation between gait speed and spasticity at the knee. *Phys Ther*. 1975;55(4):355-9. PMID:1118465
- 6. Sahrmann SA, **Norton BJ**. The relationship of voluntary movement to spasticity in the upper motor neuron syndrome. *Trans Am Neurol Assoc.* 1977;102:108-12. PMID:616084
- 7. Sahrmann SA, **Norton BJ**. The relationship of voluntary movement to spasticity in the upper motor neuron syndrome. *Ann Neurol*. 1977;2(6):460-5. PMID:617588
- 8. Mullinix JM, **Norton BJ**, Hack S, Fishman MA. Skin temperature biofeedback and migraine. *Headache*. 1978;17(6):242-4. PMID:621143
- 9. **Norton BJ**, Sahrmann SA. Reflex and voluntary electromyographic activity in patients with hemiparesis. *Phys Ther*. 1978;58(8):951-5. PMID:674380

- Sahrmann SA, Norton BJ. Stretch reflex of the biceps and brachioradialis muscles in patients with upper motor neuron syndrome. *Phys Ther*. 1978;58(10):1191-4. PMID:693577
- 11. Mayhew TP, **Norton BJ**, Sahrmann SA. Electromyographic study of the relationship between hamstring and abdominal muscles during a unilateral straight leg raise. *Phys Ther*. 1983;63(11):1769-75. PMID:6227021
- 12. Gogia PP, Braatz JH, Rose SJ, **Norton BJ**. Reliability and validity of goniometric measurements at the knee. *Phys Ther*. 1987;67(2):192-5. PMID:3809242
- 13. Frese E, Brown M, **Norton BJ**. Clinical reliability of manual muscle testing. Middle trapezius and gluteus medius muscles. *Phys Ther*. 1987;67(7):1072-6. PMID:3602100
- 14. **Norton BJ**, McDonnell MK, Sahrmann SA. Analysis of hip and spinal mobility in healthy and back pain subjects. *Proceedings of the XIth International Symposium of the Society for Postural and Gait Research; Posture and Gait: Control Mechanisms*. 1992;110-113.
- 15. Mueller MJ, **Norton BJ**. Reliability of kinematic measurements of rear-foot motion. *Phys Ther*. 1992;72(10):731-7. PMID:1528966
- 16. Mueller MJ, Host JV, **Norton BJ**. Navicular drop as a composite measure of excessive pronation. *J Am Podiatr Med Assoc*. 1993;83(4):198-202. PMID:8473991
- 17. **Norton BJ**, Ellison JB. Reliability and concurrent validity of the Metrecom for length measurements on inanimate objects. *Phys Ther*. 1993;73(4):266-74. PMID:8456145
- 18. Deusinger SS, Deusinger RH, Minor SD, **Norton BJ**, Sahrmann S, Shierbecker J, Stith J. DPT controversy. *Phys Ther.* 1993;73(5):329-30. PMID:8469717
- 19. Stith JS, Sahrmann SA, Dixon KK, **Norton BJ**, Woolsey NB. A curriculum to prepare diagnosticians in physical therapy. *Journal of Physical Therapy Education*. 1995;9:46-53.
- 20. Mercer VS, Sahrmann SA, Diggles-Buckles V, Abrams RA, **Norton BJ**. Age Group Differences in Postural Adjustments Associated With a Stepping Task. *J Mot Behav*. 1997;29(3):243-53. PMID:12453783
- 21. **Norton BJ**, Strube MJ. The influence of experience with a set of simulated patients on diagnosis of simulated patients not previously diagnosed. *Phys Ther.* 1998;78(4):375-85. PMID:9555920
- 22. Van Dillen LR, Sahrmann SA, **Norton BJ**, Caldwell CA, Fleming DA, McDonnell MK, Woolsey NB. Reliability of physical examination items used for classification of patients with low back pain. *Phys Ther.* 1998;78(9):979-88. PMID:9736895
- 23. Scheets PK, Sahrmann SA, **Norton BJ**. Diagnosis for physical therapy for patients with neuromuscular conditions. *Neurology Report*. 1999;23:158-169.
- 24. Van Dillen LR, Sahrmann SA, **Norton BJ**, Caldwell CA, Fleming D, McDonnell MK, Bloom NJ. Effect of active limb movements on symptoms in patients with low back pain. *J Orthop Sports Phys Ther*. 2001;31(8):402-13; discussion 414-8. PMID:<u>11508611</u>
- 25. **Norton BJ**, Hensler K, Zou D. Comparisons among noninvasive methods for measuring lumbar curvature in standing. *J Orthop Sports Phys Ther*. 2002;32(8):405-14. PMID:12168959
- 26. Van Dillen LR, Sahrmann SA, **Norton BJ**, Caldwell CA, McDonnell MK, Bloom NJ. Movement system impairment-based categories for low back pain: stage 1 validation. *J Orthop Sports Phys Ther*. 2003;33(3):126-42. PMID:12683688
- 27. Van Dillen LR, Sahrmann SA, **Norton BJ**, Caldwell CA, McDonnell MK, Bloom N. The effect of modifying patient-preferred spinal movement and alignment during symptom testing in patients with low back pain: a preliminary report. *Arch Phys Med Rehabil*. 2003;84(3):313-22. PMID:12638097

- Norton BJ, Sahrmann SA, Van Dillen LR. Differences in measurements of lumbar curvature related to gender and low back pain. *J Orthop Sports Phys Ther*. 2004;34(9):524-34. PMID: 15493520
- 29. Van Dillen LR, Sahrmann SA, Caldwell CA, McDonnell MK, Bloom N, **Norton BJ**. Trunk rotation-related impairments in people with low back pain who participated in 2 different types of leisure activities: a secondary analysis. *J Orthop Sports Phys Ther*. 2006;36(2):58-71. PMID:16494073
- 30. Scheets PL, Sahrmann SA, **Norton BJ**. Use of movement system diagnoses in the management of patients with neuromuscular conditions: a multiple-patient case report. *Phys Ther*. 2007;87(6):654-69. PMID:17504829
- 31. Gombatto SP, Klaesner JW, **Norton BJ**, Minor SD, Van Dillen LR. Validity and reliability of a system to measure passive tissue characteristics of the lumbar region during trunk lateral bending in people with and people without low back pain. *J Rehabil Res Dev*. 2008;45(9):1415-29. PMID:19319764
- 32. Harris-Hayes M, Sahrmann SA, **Norton BJ**, Salsich GB. Diagnosis and management of a patient with knee pain using the movement system impairment classification system. *J Orthop Sports Phys Ther*. 2008;38(4):203-13. PMID:18434664
- 33. **Norton BJ**. On "Diagnosis of fall risk in Parkinson disease..." Dibble et al. Phys Ther. 2008;88:323-332. *Phys Ther*. 2008;88(5):679; author reply 679-80. PMID:<u>18450763</u>
- Gombatto SP, Norton BJ, Scholtes SA, Van Dillen LR. Differences in symmetry of lumbar region passive tissue characteristics between people with and people without low back pain. Clin Biomech (Bristol, Avon). 2008;23(8):986-95. PMCID: PMC2577573 PMID: 18590942
- 35. Scholtes SA, **Norton BJ**, Lang CE, Van Dillen LR. The effect of within-session instruction on lumbopelvic motion during a lower limb movement in people with and people without low back pain. *Man Ther*. 2010;15(5):496-501. PMCID:PMC2922485 PMID:20627798
- Scholtes SA, Norton BJ, Gombatto SP, Van Dillen LR. Variables associated with performance of an active limb movement following within-session instruction in people with and people without low back pain. *Biomed Res Int*. 2013;2013:867983. PMCID:PMID:23984416
- Gombatto SP, Norton BJ, Sahrmann SA, Strube MJ, Van Dillen LR. Factors contributing to lumbar region passive tissue characteristics in people with and people without low back pain. Clin Biomech (Bristol, Avon). 2013;28(3):255-61. PMCID: PMC3677531 PMID: 23402957
- Van Dillen LR, Norton BJ, Sahrmann SA. Classification specific versus non classificationspecific treatment for low back pain. Proceedings of the 8th World Congress on Low Back and Pelvic Pain 2013. 2013;396-399.
- 39. Scheets PL, Sahrmann SA, **Norton BJ**, Stith JS, Crowner BE. What is backward disequilibrium and how do i treat it? A complex patient case study. *J Neurol Phys Ther*. 2015;39(2):119-26. PMID:25742374
- 40. Sorensen CJ, **Norton BJ**, Callaghan JP, Hwang CT, Van Dillen LR. Is lumbar lordosis related to low back pain development during prolonged standing? *Man Ther*. 2015;20(4):553-7. PMCID:PMC4469524 PMID:25637464
- Van Dillen LR, Norton BJ, Sahrmann SA, Evanoff BA, Harris-Hayes M, Holtzman GW, Earley J, Chou I, Strube MJ. Efficacy of classification-specific treatment and adherence on outcomes in people with chronic low back pain. A one-year follow-up, prospective, randomized, controlled clinical trial. *Man Ther*. 2016;24:52-64. PMCID:PMID:27317505

- 42. Sorensen CJ, Johnson MB, **Norton BJ**, Callaghan JP, Van Dillen LR. Asymmetry of lumbopelvic movement patterns during active hip abduction is a risk factor for low back pain development during standing. *Hum Mov Sci.* 2016;50:38-46. PMCID:PMC5097699 PMID:27744105
- 43. Spitznagle T, Cabelka C, Clinton S, Abraham K, **Norton BJ**. Diagnosis dialog for women's health condition's: The process and proposed pelvic floor muscle diagnoses. *Journal of Women's Health Physical Therapy*. 2017;41(3):154-162.
- 44. Van Dillen LR, Lanier VM, Steger-May K, Wallendorf M, **Norton BJ**, Civello JM, Czuppon SL, Francois SJ, Roles K, Lang CE. Effect of motor skill training in functional activities vs strength and flexibility exercise on function in people with chronic low back pain a randomized clinical trial". *JAMA Neurology*. 2021; 78(4):385-395. doi:10.1001/jamaneurol.2020.4821. PMCID:PMC7770617
- 45. Holleran CL, Konrad J, Norton BJ, Burlis T, Ambler SA. Use of learner-driven, formative, ad-hoc, prospective assessment of competence in physical therapist clinical education in the United States: a prospective cohort study. J Educ Eval Health Prof. 2023;20:36. DOI: https://doi.org/10.3352/jeehp.2023.20.36

Invited Publications

- 1. **Norton BJ**, Strube MJ. Guide for the interpretation of one-way analysis of variance. *Phys Ther.* 1985;65(12):1888, 1890, 1892 passim. PMID: 4070375
- 2. **Norton BJ**, Strube MJ. Guide for the interpretation of two-way analysis of variance. *Phys Ther*. 1986;66(3):402-12. PMID: 3952157
- 3. **Norton BJ**, Strube MJ. Some cautionary comments on the use of retrospective designs to evaluate treatment efficacy. *Phys Ther*. 1988;68(9):1374-7. PMID: 3047754
- 4. **Norton BJ**, Strube MJ. Making decisions based on group designs and meta-analysis. *Phys Ther.* 1989;69:594-600.
- 5. VanSant AF, Jensen G, **Norton BJ**. Scripting a curriculum. *Rehab Management*. 1993;June/July:109-111.
- 6. **Norton BJ**. Commentary on The effect of awareness of measurement error on physical therapists' confidence in their decisions. *Phys Ther*. 1998;72:526-527.
- 7. **Norton BJ**, Strube MJ. Understanding statistical power. *J Orthop Sports Phys Ther*. 2001;31(6):307-15. PMID: <u>11411625</u>
- 8. Van Dillen LR, Sahrmann SA, **Norton BJ**, McDonnell MK, Fleming DA, Caldwell CA, Woolsey NB. Response to invited commentary. *J Orthop Sports Phys Ther*. 2001;31:416-418.
- 9. Norton BJ. Focus on Diagnosis. J Orthop Sports Phys Ther. 2004;34(3):103-104.
- 10. **Norton BJ**. Harnessing Our Collective Professional Power: Diagnosis Dialog. Guest Editorial. *Phys Ther*. 2007;87:635-638.
- 11. **Norton BJ**. Diagnosis Dialog: Progress Report. Guest Editorial. *Phys Ther*. 2007;87:1270-1273.
- 12. **Norton BJ**. Diagnosis Dialog: Recap and relevance to recent APTA actions. *IJSPT*. 2017;12(6):871-833.

Book Chapters (most recent editions)

- 1. **Norton BJ**. Clinical Decision Making in Physical Therapy: Role of Measurement and Research in Clinical Decision Making. In: R. Myers, eds. Philadelphia: WB Saunders Co; 1995:17-36.
- 2. Van Dillen LR, Sahrmann SA, **Norton BJ**. Kinesiopathologic Model and Low Back Pain. In: Hodges PW, Cholewicki J, van Dieen JH and Herbert R, eds. *Spinal Control: The Rehabilitation of Back Pain*. Edinburgh: Elsevier Churchill Livingstone; 2012:89-97.