

Department of Physical Therapy  
College of Health Sciences  
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[d.pinto@marquette.edu](mailto:d.pinto@marquette.edu)

I am physical therapist with advanced clinical training (orthopedic clinical specialist, Manual Physical Therapy Fellow) research training in health economics (PhD and K12 award), health services

2004 – 2014 State of Colorado # 8598

2005 – 2010      Affiliate Faculty, Regis University Denver, Colorado

2004              Teaching/ Lab Assistant, University of Wisconsin-Madison Physical Therapy  
Program, Madison, Wisconsin

Courses: PT 676 Musculoskeletal Assessment & Treatment I, PT 677  
Musculoskeletal Assessment & Treatment II

2020              ESCEO2020      ESCHaug4 (nha)-27 (ap)-1.1 -36lo(t)4 (l)ap1 (n).ltlapv1 (.1at7 0-2 (6 (.1 -35-2

- 2008 – 2018 American Academy of Orthopaedic Manual Physical Therapists (Fellow)
- 2003 – Present Wisconsin Physical Therapy Association
- 2000 – Present American Physical Therapy Association (APTA), Education, Research, HPA the Catalyst, and Orthopedic sections



- 2014 – 2015 Physical activity working group member, OAAA
- 2007 – 2009 American Academy of Orthopaedic Manual Physical Therapists representative, Manipulation Task Force II.
- 2021- Present World Health Organization Expert Working Group on Locomotor Capacity
- 2018 – Present Rehabilitation Working Group Co-chair, International Osteoporosis Foundation
- 2018 – 2020 Patients' preferences for anti-osteoarthritis drug treatment: a cross-European Discrete Choice Experiment – ESCEO working group
- 2018 – 2020 Recommendations for the conduct of economic evaluations in osteoporosis – IOF USA/ESCEO Working Group member.
- 2017 – Present Committee of Scientific Advisors (CSA), International Osteoporosis Foundation (IOF)
- 2017 – 2019 Principles For The Empowerment Of Patients In The Preparation Of Clinical And Regulatory Recommendations WHO-ESCEO Working Group
- 2016 – Present Scientific Advisory Board, European Society for Clinical and Economic Aspects of Osteoporosis and Osteoarthritis (ESCEO)
- 2012 – 2014 Economic analysis in osteoarthritis working group member, European Society for Clinical and Economic Aspects of Osteoporosis and Osteoarthritis, (2012 to 2014)

(past and present)

PHTH 7549, Different Diagnosis of Disease. 2 credit hours.

PHTH 7932, Advanced Topics in PT: Advanced orthopedics, 2 credit hours.

EXRS 6930, Advanced Topics in EXRS: Systematic Review. 2 credit hours.

EXRS 9999, independent study, Integrating Behavioral Science into Rehabilitation

EXRS 6958, Reading and Research I

PHTH 7533, Orthopedics II – hip unit, ankle unit during spring 2022

2010 – 2017 PHYS\_TH\_536-1 Clinical Management of Patients with Musculoskeletal Dysfunction I

2010 – 2017 PHYS\_TH\_523-0 Introduction to Clinical Decision Making

2011 – 2017 PHYS\_TH 570 - Synthesis Project

2011 – 2017 PHYS\_TH\_548-0 Clinical Management of the Complex Patient

2011 – 2015 PHYS\_TH\_536-2 Clinical Management of Patients with Musculoskeletal Dysfunction II

2011 – 2014 Spring PHYS\_TH\_536-3 Musculoskeletal Dysfunction III

2011 – 2013 PHYS\_TH\_530-1 Examination and Evaluation 1

2012 – 2014 Spring PHYS\_TH\_540-2 Foundations of Physical Therapy 2

2012 – 2014 PHYS\_TH\_530-2 Examination and Evaluation 2

Guest lecture.

2017-2018 Behavioral Economics. HSR 433 Health Economics and Healthcare Financing

2013 – 2016 Musculoskeletal module, Element/ thread: Health & Society, Feinberg School of Medicine, Economics of the Musculoskeletal System

2017 Lumbar spine unit

(Affiliate Faculty)

2007 – 2008 Course coordinator, DPT 731T Differential Diagnosis in Physical Therapy Practice

2005 – 2010 Lab assistant, DPT 705 Kinesiology I; DPT 733-735 Musculoskeletal Management I, II, III; DPT 731 Differential Diagnosis;







- 2017 – Present Editorial Board member, Physical Therapy Reviews, support journal with review of economic-related submissions
- 2012 – Present Editorial Board member, Physiotherapy Practice and Research, support journal with review of economic-related submissions

- 2021-2022 Agency for Healthcare Research and Quality, Panel on Health Care Research Training (HCRT).
- 2017 Practice Based Research seed grant, Center for Community Health, Northwestern University
- 2016 External Reviewer, The Netherlands Organisation for Health Research and Development (ZonMw)
- 2014 External Reviewer, The Austrian Science Fund

2014 – 2019 Journal of Orthopaedic and Sports Physical Therapy

Value in Health (Reviewer Board member), Arthritis Care & Research, Physical Therapy Reviews, Journal of Clinical Epidemiology, BMJ, BMJOpen, Osteoarthritis & Cartilage, Physical Therapy, PLOS One, Physiotherapy Theory and Practice, BMC family of journals

Society for Medical Decision-making, European Society for the Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases.

(past, current):

2022, Chih-ying (Cynthia) Li, OT, PhD, (PI) Co-investigator - \$83, 840 (direct costs) - Longitudinal Effects of the Improving Medicare Post-Acute Care Transformation Act on Access, Quality, and Cost of Care.

partnership with the International Osteoporosis Foundation.

2016-2021, Leigh Callahan, PhD (PI) – funded as behavioral health messaging consultant  
Centers For Disease Control and Prevention, Advancing Arthritis Public Health Approaches  
Through National Organizations, CDC-RFA-DP16-1606.

2021, Co-investigator - \$15,000 – Workshop on Technology for Automated Capture of Diet,  
Nutrition, and Eating Behaviors in Context, National Science Foundation pilot award.

2020, Project Lead – \$150,000 - COVID19 focused patient-centered research capacity  
building.

COVID19 Enhancement for Eugene Washington Engagement Award  
Patient-Centered Outcomes Research Institute (EA #10643).

2018, Project Lead - \$250,000 – patient-centered research capacity building project.

Eugene Washington Engagement Award – Capacity Building – “Patient-Centered Outcomes  
Research for Employees (PCORE) of Milwaukee’s Near West Side.

Patient-Centered Outcomes Research Institute (EA #10643).

2016-2021, Allen Heinemann (PI) – funded as health economist for 0.6 (CY) person months

Midwest Regional Spinal Cord Injury Care System – Using A Health Technology Assessment  
Framework For Evaluating The Utilization And Efficiency Of Wearable Exoskeletons For  
SCI Rehabilitation.

National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR)

2016-2017, PI 6 (CY) person months

Center on Health Care Training and Research (CoHSTAR), Faculty Fellowship: Comparative

Preferences for Activating and Adhering to Physical Activity with Arthritis (PAAPyA).  
Agency for Healthcare Research and Quality – K12 award (internal to Northwestern  
University)

2022-2024, Co-PI - Computer-guided Action Planning to Supportston Pc(a)-4 (r)3 ( t)2 Ach72 (i)-1 (on Pv(on

Visiting Research Fellow Lecture, School of Physiotherapy, University of Otago, New Zealand, Aug 23, 2012

*National*

- 2022 Pinto, D. Exercise for Lower Extremity Arthritis. 2022 TRIA Musculoskeletal Rehabilitation Conference. October, 29
- 2022 Pinto D. Maximizing Activity With Knee Osteoarthritis – Patient Preferences, Engagement, And Performance. 33<sup>rd</sup> Annual Medical College of Wisconsin Virtual Sports Medicine Symposium. March 17 & 18, 2022, \* Featured Speaker
- 2021 Pinto D. Using Physical Therapy to Support Behavior Change in patients with Musculoskeletal Diseases of Aging. Columbia VA Physical Therapy Clinical Education

Musculoskeletal Clinical Research Center Grant (MCRC)-Clinical and Translational Research Incubator Seminar (CTRIS). Northwestern University, Chicago, USA. August 6, 2012.

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i. Original Investigations

1. Driban J, Vincent H, Trojian T, Ambrose K, Baez S, Beresic N, Berkoff D, Callahan L, Cohen B, Franek M, Golightly Y, Harkey M, Kuenze C

, Hn



- K, Jiwa F, Johansson H, Lee JK, Liu E, Messina D, Mkinsi O, , Prieto-Alhambra D, Saag K, Xia W, Zakraoui L, Reginster J.-Algorithm for the management of patients at low, high and very high risk of osteoporotic fractures. *Osteoporos Int.* 2020 Jan;31(1):1-12. doi: 10.1007/s00198-019-05176-3. Epub 2019 Nov 13. PubMed PMID: 31720707; PubMed Central PMCID: PMC7018677.
19. Kim HS, Strickland KJ, , Arroyo C, Courtney DM, McCarthy DM, Lambert BL. Evaluating the Feasibility of a Physical Therapy Intervention for Emergency Department Patients with Acute Low Back Pain. *Journal of Acute Care Physical Therapy* December 02, 2019 - Volume Publish Ahead of Print doi: 10.1097/JAT.000000000000126
  20. , Bockenholt U, Lee J, Chang RW, Sharma L, Finn DJ, Heinemann AW, Holl JL, Hansen P. Preferences for physical activity: a conjoint analysis involving people with chronic knee pain. *Osteoarthritis Cartilage.* 2019 Feb;27(2):240-247.
  21. Hiligsmann, M., , Dennison, E., Al-Daghri, N., Beaudart, C., Branco, J., ... Reginster, J. Y. *Patients' preferences for osteoarthritis treatment: the value of stated-preference studies.* *Aging clinical and experimental research.* 2019 Jan;31(1):1-3.
  22. de Wit M, Cooper C, Reginster JY; . Practical guidance for patient-centred health research. *Lancet.* 2019 Mar 16;393(10176):1095-1096.
  23. de Wit M, Cooper C, Tugwell P, Bere N, Kirwan J, Conaghan PG, Roberts C, Aujoulat I, Al-Daghri N, Araujo de Carvalho I, Barker M, Bedlington N, Brandi ML, Bruyère O, Burlet N, Halbout P, Hiligsmann M, Jiwa F, Kanis JA, Laslop A, Lawrence W, , Prieto Yerro C, Rabenda V, Rizzoli R, Scholte-Voshaar M, Vlaskovska M, Reginster JY. Practical guidance for engaging patients in health research, treatment guidelines and regulatory processes: results of an expert group meeting organized by the World Health Organization (WHO) and the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO). *Aging Clin Exp Res.* 2019 Jul;31(7):905-915.
  24. Hiligsmann M, Reginster JY, Tosteson ANA, Bukata SV, Saag KG, Gold DT, Halbout P, Jiwa F, Lewiecki EM, , Adachi JD, Al-Daghri N, Bruyère O, Chandran M, Cooper C, Harvey NC, Einhorn TA, Kanis JA, Kendler DL, Messina OD, Rizzoli R, Si L, Silverman S. Recommendations for the conduct of economic evaluations in osteoporosis: outcomes of an experts' consensus meeting organized by the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO) and the US branch of the International Osteoporosis Foundation. *Osteoporos Int.* 2019 Jan;30(1):45-57. doi: 10.1007/s00198-018-4744-x. Epub 2018 Oct 31. PubMed PMID: 30382319; PubMed Central PMCID: PMC6331734.
  25. Heinemann AW, Jayaraman A, Mummidisetty CK, Spraggins J, , Charlifue S, Tefertiller C, Taylor HB, Chang SH, Stampas A, Furbish CL, Field-Fote EC. Experience of Robotic Exoskeleton Use at Four Spinal Cord Injury Model Systems Centers. *J Neurol Phys Ther.* 2018 Oct;42(4):256-267. PubMed PMID: 30199518.
  26. Abbott JH, Wilson R, , Chapple CM, Wright AA; MOA Trial team. Incremental clinical effectiveness and cost effectiveness of providing supervised physiotherapy in addition to usual medical care in patients with osteoarthritis of the hip or knee: 2-year results of the MOA randomised controlled trial. *Osteoarthritis Cartilage.* 2019



- Mar;27(3):424-434.PMID: 30553932.
27. Gilbert AL, Lee J, Ehrlich-Jones L, Semanik PA, Song J, Pellegrini CA, , Dunlop DD, Chang RW. A randomized trial of a motivational interviewing intervention to increase lifestyle physical activity and improve self-reported function in adults with arthritis. *Semin Arthritis Rheum.* 2018 Apr;47(5):732-740. PMID: 29096934
  28. Liberman AL, , Rostanski SK, Labovitz DL, Naidech AM, Prabhakaran S. Clinical Decision-Making for Thrombolysis of Acute Minor Stroke Using Adaptive Conjoint Analysis. *Neurohospitalist.* 2019 Jan;9(1):9-14. PMCID: PMC6327243.
  29. Dunlop DD, Song J, Lee J, Gilbert AL, Semanik PA, Ehrlich-Jones L, Pellegrini CA, , Ainsworth B, Chang RW. Physical activity minimum threshold predicting improved function in adults with lower limb symptoms. *Arthritis Care Res (Hoboken).* 2017 69(4):475-483, PMID: 28029748
  30. , Song J, Lee J, Chang RW, Semanik PA, et al. Association Between Sedentary Time and Quality of Life From the Osteoarthritis Initiative: Who Might Benefit Most From Treatment?. *Arch Phys Med Rehabil.* 2017 Dec;98(12):2485-2490. PubMed PMID: 28645770.
  31. Song J, Chang AH, Chang RW, Lee J, , Hawker G, Nevitt M, Dunlop DD. Relationship of knee pain to time in moderate and light physical activities: Data from Osteoarthritis Initiative. *Semin Arthritis Rheum.* 2018 Apr;47(5):683-688.
  32. Pellegrini CA, Song J, Semanik PA, Chang RW, Lee J, Gilbert AL, , Ehrlich-Jones L, Dunlop DD. Patients Less Likely to Lose Weight Following a Knee Replacement: Results From the Osteoarthritis Initiative. *J Clin Rheumatol.* 2017 Oct;23(7):355-360. doi: 10.1097/RHU.0000000000000579. PubMed PMID: 28937470; PubMed Central PMCID: PMC5683392.
  33. Danilovich M, Xiang X, . Factors That Influence Self-Reported Health Changes With Caregiving. *J Aging Health.* 2017 Dec;29(8):1444-1458.
  34. Song J, Gilbert AL, Chang RW, Pellegrini CA, Ehrlich-Jones LS, Lee J, , Semanik PA, Sharma L, Kwoh CK, Jackson RD, Dunlop DD. Do Inactive Older Adults Who Increase Physical Activity Experience Less Disability: Evidence From the Osteoarthritis Initiative. *J Clin Rheumatol.* 2017 Jan;23(1):26-32.
  35. , Danilovich MK, Hansen P, Finn DJ, Chang RW, Holl JL, Heinemann AW, Bockenholt U. Qualitative Development of a Discrete Choice Experiment for Physical Activity Interventions to Improve Knee Osteoarthritis. *Arch Phys Med Rehabil.* 2017 Jun;98(6):1210-1216. PMID: 28034720.
  36. Pellegrini CA, Song J, Chang RW, Semanik PA, Lee J, Ehrlich-Jones L, , Dunlop DD. Change in Physical Activity and Sedentary Time Associated With 2-Year Weight Loss in Obese Adults With Osteoarthritis. *J Phys Act Health.* 2016 May;13(5):461-6. PubMed PMID: 26552064.
  37. Silverberg JI, Song J, , Yu SH, Gilbert AI, Dunlop DD, and Chang RW. Atopic dermatitis is associated with less vigorous physical activity in US adults. *Journal of Investigative Dermatology.* 2016; 136(8):1714-1716.
  38. Elliott JM, Courtney DM, Rademaker A, , Sterling MM, Parrish TB. The Rapid

- and Progressive Degeneration of the Cervical Multifidus in Whiplash: An MRI Study of Fatty Infiltration. *Spine (Phila Pa 1976)*. 2015 Jun 15;40(12):E694-700. PMID: 25785961; PubMed Central PMCID: PMC4466088.
39. Hiligsmann H, Cooper C, Guillemin F, Hochberg MC, Tugwell P, Arden N, Berenbaum F, Boers M, Boonen A, Branco JC, Luisa Brandi M, Bruyère O, Donneau AF, Gasparik A, Kanis JA, Kvien TK, Laslop A, Martel-Pelletier J, Pelletier JP, Pinedo-Villanueva R, Reiter-Niesert S, Rizzoli R, Rovati LC, Severens JL, Silverman S, Reginster JY. Consideration and proposal for the definition of a reference case for economic
- 39.

49. , Cleland JA, Palmer J, Eberhart SL. Management of low back pain: A case series illustrating the pragmatic combination of treatment- and mechanism-based classification systems. *JMMT*. 2007; 15(2): 111-122.

50. Non-peer review publications

- i. Corticosteroid not in patient's best interest. *BMJ Rapid Response*. Nov. 2006. Available at: <http://www.bmj.com/cgi/eletters/333/7575/939#149169>
- ii. , Cleland JA. Management of low back pain: A case series illustrating the pragmatic combination of treatment- and mechanism-based classification systems. Author response. *JMMT*. 2007; 15(3): E70–E71.
- iii. . Knee OA interventions: A look at value for money. *Lower Extremity Review*. 2012/9

51. Working papers

- i. , Scotty B, Berman R, Keller AO. Engaging Employees in Patient-Centered Outcomes Research: Opportunities and Lessons Learned.
- ii. Conference presentations
  - a. Educational sessions
    - i. . Development of the Build Better Bones website to support rehabilitation for people with osteoporosis. ESCEO-IOF World Congress. August 2022
    - ii. Hall, J. B., Cal



- vii. Danilovich M, Xiang X, and . Factors That Contribute To A Change In Caregiver Health Outcomes In Response To Caregiving. Gerontological Society of America, November 2016
  - viii. Lee J, Song J, Chang RW, Semanik PA, Ehrlich-Jones LS, Pellegrini CA, , Dunlop DD. Association Of Breaks In Sedentary Time With Physical Functional Loss In Osteoarthritis Initiative. *Osteoarthritis and Cartilage* 23 (2015): A27-A28.
  - ix. Sanders B, Hoverson L, Sereis N, Edmonds C, . Factors Motivating Academic Dishonesty By Physical Therapist Students. Education Leadership Conference. October 2015
  - x. , Danilovich MK, Hansen P, Holl JH, Heinemann AW, Chang RW. Designing A Discrete Choice Experiment To Understand Older Adult Preferences For Physical Activity. Fifth interdisciplinary conference on Aging and Society. Catholic University of America, 5-6 November 2015.
  - xi. Gilbert AL, Song J, Chang RW, Pellegrini CA, Ehrlich-Jones LS, Lee J, , Semanik PA, Sharma L, Kwoh CK, Jackson RD, Dunlop DD. Influence Of Increasing Physical Activity On Longitudinal Changes In Disability Status Among Inactive Older Adults. American College of Rheumatology Annual Meeting. November, 2015
  - xii. , Robertson MC, Garcia J, Hansen P, Abbott JH. Can Participants Be Trusted Sources For Valuing Health Resource Use In Economic Evaluation Studies? APTA Combined Sections Meeting 2010. February, 2010.
  - xiii. , Robertson MC, Garcia J, Hansen P, Abbott JH. Identifying And Valuing Health Resource Use In Economic Evaluation Studies. Can Participants Be Trusted Sources? Proceedings the 198th Scientific Meeting of the Otago Medical School Research Society: July, 2009. NZMJ.2009; 122(1299).
  - xiv. , Robertson MC, Abbott JH, Hansen P. A Systematic Review Of Economic Evaluations For The Conservative, Non-Pharmacologic Management Of Hip And/Or Knee Osteoarthritis. The Australian Physiotherapy Association. October, 2009.
- b. Poster presentations
- i. Tumpa JF, Ahamed SI, Cole S, The Development of Electronic Brief Action Planning (E-BAP): A Self-Management Support Tool for Health Behavior Change. Society for Medical Decision Making Annual Conference. Portland 2019
  - ii. Tumpa JF, , Adib R, Cole S, Ahamed SI. E-BAP: A scalable and flexible web-based software system to support self-management for behavior changes. IEEE International Conference on Biomedical and Health Informatics. Chicago, 2019
  - iii. De Jesus J, Jang B, Januszyk D, Krok J, Blount K, Elliott J, Hoggarth M, Quantifying Muscle Fatty Infiltrate in People With Or At Risk Of Having Knee Osteoarthritis: An exploratory study. IOF-ESCEO WCO, Paris 2019
  - iv. De Jesus J, Jang B, Januszyk D, Krok J, Blount K, Elliott J, Hoggarth M, Quantifying Muscle Fatty Infiltrate in People With Or At Risk Of Having Knee Osteoarthritis: An exploratory study. APTA Combined Sections Meeting. January 2019
  - v. Harter C; Peterson C, Reed E; Arquines C, Henderson H, Van Der Laan, K .

Using Behavioral Economics To Bridge Clinical And Academic Environments In Physical Therapist Entry-Level Education. American Physical Therapy Association Combines Sections Meeting, February, 2018

- vi. Corboy JB, , Woods D. Discrete Choice Experiment to Assess Variation in Sepsis Diagnostics. AcademyHealth 2018 Annual Research Meeting, June 2018
- vii. Corboy JB, , Woods D. Discrete Choice Experiment to Assess Variation in Sepsis Diagnostics. Child Health Meeting. June 2018
- viii. Corboy JB, , Woods D. Quality Improvement-based case study for diagnosis of Pediatric Sepsis at a Suburban Illinois Hospital. 14th Annual Lewis Landsberg Research Day. April 2018
- ix. Trikalinos T. Synthesis of Evidence on Multicomponent Interventions: Models and Application to Perioperative Total Joint Arthroplasty Rehabilitation Strategies. Society for Medical Decision-Making. October 2018.
- x. , Liotta E, Maas M, Prabhakaran S, Holl J, Naidech A. Why Clinicians Prescribe Prophylactic Levetiracetam After Intracerebral Hemorrhage Critical Care Medicine 46 (1), 377. 2018
- xi. Liberman AL, , Labovitz D, Naidech A, Prabhakaran S. Evaluating Thrombolysis Decision Making in Minor Stroke Using Adaptive Discrete Choice Experimentation. Stroke 49 (Suppl 1), 2018 ATP246-ATP246
- xii. , Hansen P, Bockenholt U, Finn DJ, Holl J, Heinemann AW, Chang RW. Patient Preferences For Physical Activity: A Discrete Choice Experiment In People With Chronic Knee Pain. American College of Rheumatology Annual Conference. San Diego, CA, USA. November 2017.
- i. Pellegrini, C.A., Song, J., Chang, R.W., Semanik, P., Lee, J., Ehrlich-Jones, L., , Dunlop, D. Patients less likely to lose weight following a knee replacement: Results from the Osteoarthritis Initiative. *ObesityWeek 2017*, New Orleans, LA; November 2017
- ii. , Hansen P, Bockenholt U, Finn DJ, Holl J, Heinemann AW, Chang RW. What Physical Activity Program Features Are Important To Patients With Knee Osteoarthritis? A Discrete Choice Experiment. WCO-IOF-ESCEO Congress. Florence, Italy. March 2017.
- iii. Dunlop DD, Song J, Semanik PA, Lee J, Ehrlich-Jones L, Pellegrini C, , Ainsworth B, Chang RW. Phys



