

Net Health/FOTO Research Publications

The FOTO Research Publications listed below is an excellent resource for clinicians, researchers, policy makers, and insurers.

This list provides a comprehensive overview for those who are interested in learning more about the reliability and validity of the FOTO patient reported outcome measures (PROMs) and real-life clinical application of FOTO’s database.

All publications listed in this resource are categorized by sections as detailed within the table of contents. Each section title can be used to link back to the top of the document.

Peer-reviewed publications are grouped by publication year in a descending order.

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2024

148. Deutscher, D., Hayes, D., and Kallen, M.A. ***New Dizziness Impact Measures of Positional, Functional, and Emotional Status Were Supported for Reliability, Validity, and Efficiency.*** *Arch Rehabil Res Clin Transl*, 2024. 6(1): p. 100320. <https://www.ncbi.nlm.nih.gov/pubmed/38482099>.

2023

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142. Deutscher, D., Kallen, M.A., Hayes, D., Werneke, M.W., Mioduski, J.E., Levenhagen, K., Pfarr, M., and Cook, K.F. ***Lower Quadrant Edema Patient-Reported Outcome Measure Is Reliable, Valid, and Efficient for Patients With Lymphatic and Venous Disorders.*** *Phys Ther*, 2023. 103(10). <https://www.ncbi.nlm.nih.gov/pubmed/37682087>.
143. Deutscher, D., Kallen, M.A., Hayes, D., Werneke, M.W., Mioduski, J.E., Toczyłowski, T., Petitti, J.M., and Cook, K.F. ***The Stroke Upper and Lower Extremity Physical Function Measures Were Supported for Score Reliability, Validity, and Administration Efficiency for Patients Poststroke.*** *Phys Ther*, 2023. 103(11). <https://www.ncbi.nlm.nih.gov/pubmed/37572106>.
144. Deutscher, D., Kallen, M.A., Werneke, M.W., Mioduski, J.E., and Hayes, D. ***Reliability, Validity, and Efficiency of an Item Response Theory-Based Balance Confidence Patient-Reported Outcome Measure.*** *Phys Ther*, 2023. 103(7). <https://www.ncbi.nlm.nih.gov/pubmed/37265368>.
145. Edmond, S.L., Werneke, M.W., Grigsby, D., Young, M., and Harris, G. ***The association between self-efficacy on function and pain outcomes among patients with chronic low back pain managed using the McKenzie approach: a prospective cohort study.*** *J Man Manip Ther*, 2023. 31(1): p. 38-45. <https://www.ncbi.nlm.nih.gov/pubmed/35603569>.
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133. Deutscher, D., Kallen, M., Werneke, M., Myers, A., and Hayes, D. **Reliability, Validity and Efficiency of an Item Response Theory-based Balance Confidence Patient Reported Outcome Measure.** in *ACRM*. Year. Chicago, USA: Archives of Physical Medicine and Rehabilitation. <https://www.sciencedirect.com/science/article/pii/S000399932201187X>.
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135. Hayes, D., Kallen, M., Werneke, M., and Deutscher, D. **New Item-response Theory-based Dizziness Impact Measures Were Reliable, Valid, and Efficient.** in *ACRM*. Year. Chicago, USA: Archives of Physical Medicine and Rehabilitation. <https://www.sciencedirect.com/science/article/pii/S0003999322012746>.
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Where the Researcher and Clinician Merge - St Lukes Project = Guiding Clinician Ideas. FOTO Clinical Outcomes Summit; 2019.

118. Hayes, D. and Deutscher, D. ***All Measurement is Not Created Equal part 3 of 3: Performance Measurement.*** FOTO Clinical Outcomes Summit; 2019.
119. Hayes, D. and Deutscher, D. ***All Measurement is Not Created Equal part 2 of 3: Taking Patient Differences into Account (Case Mix Adjustment).*** FOTO Clinical Outcomes Summit; 2019.
120. Hayes, D., Deutscher, D., Cook, K.F., Kallen, M.A., Werneke, M.W., and Mioduski, J.E. ***Upper Extremity Regional Swelling Physical Function measure: Development, Calibration, and Initial Validation.*** CSM; 2019.
121. Lentz, T. ***Use of the OSPRO ROS and YF as Part of Clinical Decision Making.*** FOTO Clinical Outcomes Summit; 2019.
122. Reid, E. ***Student Physical Therapist Clinical Outcomes as Measured with the FOTO Tool: An Observational Study.*** CSM; 2019.
123. Walston, Z. ***Clinical Rationale to Use Dry Needling for Recalcitrant Lumbar Radiculopathy: A Case Study.*** CSM; 2019.
124. Werneke, M. ***How to Use PROM Data During Routine Practice to Guide Rx Strategy and Leverage Better Patient Outcomes.*** FOTO Clinical Outcomes Summit; 2019.
125. Werneke, M.W. ***Associations between Frequency and Timing of Interim Patient-Report Outcome Measures and Functional Status at Discharge from Physical Therapy for Common Musculoskeletal Impairments.*** CSM; 2019.

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75. Deutscher, D. ***Associations Between Treatment Processes, Patient Characteristics and Outcomes in Outpatient Physical Therapy Practice.*** Seminar on Low Back Pain and physical therapy treatments, University of Haifa, Israel; 2011.
76. Werneke, M.W. ***Clinical Outcomes Using FOTO Treatment Effectiveness and Ongoing Research.*** FOTO Outcomes Conference; 2011.
77. Werneke, M.W., Hart, D.L., and Deutscher, D. ***Association between Change in Psychosocial Distress and Functional Outcomes for Patients Referred to Physical Therapy Services with Lumbar Impairment.*** CSM; 2011.
78. Hart, D.L., Werneke, M.W., and Deutscher, D. ***Head-to-Head Comparison of FS Scores Estimated Using the Oswestry vs. Lumbar CAT.*** CSM; 2012.
79. Hathaway, J.W. ***Why FOTO Why FOTO: Is Just, is just, What the Payer Ordered But They Don't Know It.*** FOTO Outcomes Conference; 2012.

80. Saban, B. and Deutscher, D. ***Deep massage to posterior calf muscles as a treatment for heel pain: A randomized clinical trial.*** Israeli Physical Therapy Society (IPTS); 2012.
81. Werneke, M.W. ***An Evidence-Based Perspective: Integrating Physical Performance & Self-Report Outcome Measures for Managing Patients with Chronic Low Back Pain During Routine Clinical Practice.*** FOTO Outcomes Conference; 2012.
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83. Deutscher, D. ***Practice-Based Evidence (PBE) Research in Rehabilitation: The Right Treatment for the Right Patient.*** McKenzie conference of the Americas; 2013.
84. Deutscher, D. ***Practice-Based Evidence (PBE) Research in Rehabilitation: Finding the Right Treatment for the Right Patient.*** FOTO Outcomes Conference; 2013.
85. Hayes, D. ***Patient-reported Outcomes of Care in Physical Therapy Practice.*** Kansas APTA Fall Conference; 2013.
86. Resnik, L. ***Are We Ready for Pay for Performance?*** FOTO Outcomes Conference; 2013.
87. Tidhar, D. and Deutscher, D. ***Quality of treatment documentation in lymphedema therapy to identify associations between treatments and outcomes in practice based evidence research.*** International Congress Of Lymphology; 2013.
88. Wang, Y.C., Deutscher, D., Yen, S.C., and Mioduski, J.E. ***The self-report Fecal Incontinence and Constipation Questionnaire (FICQ) in patients with Pelvic Floor Dysfunction.*** ACRM; 2013.
89. Werneke, M.W. ***Prepping for P-for-Performance: Evidence Informed Clinical Practice & Using FOTO Data to Optimize Outcomes for Patients with Back Pain.*** FOTO Outcomes Conference; 2013.
90. Cook, K.F. ***CAT for Dummies : Not really. . . you're smarter about this stuff than you realize.*** FOTO Outcomes Conference; 2014.
91. Vraa, D.L. ***Clinical Justification to include thoracic and rib manipulations on a patient with shoulder pain who does not meet a clinical prediction rule: A single case study.*** CSM; 2014.
92. Werneke, M.W. ***Non-Specific Low Back Pain: Using Data for Managing Patients Highlighting a Psychosocially Informed Perspective.*** FOTO Outcomes Conference; 2014.
93. Deutscher, D. ***Physical Therapists' Level of MDT Education, Functional Outcomes, and Utilization in Patients with LBP.*** Maccabi Healthcare Services clinic managers meeting; 2015.

94. Deutscher, D. ***Physical Therapists' Level of McKenzie Education, Functional Outcomes, and Utilization in Patients with LBP***. WCPT; 2015.
95. Deutscher, D. ***Physical Therapists' Level of McKenzie Education, FS Outcomes, and Utilization in Patients with LBP***. FOTO Outcomes Conference; 2015.
96. Gozalo, P. and Resnik, L. ***Ability of G-Codes to Detect Clinically Important Changes in Functional Status: Preliminary Results***. FOTO Outcomes Conference; 2015.
97. Hayes, D. ***Completion Rates: Is Your Data Valid? Does it Measure What You Say it Does?*** FOTO Outcomes Conference; 2015.
98. Hayes, D. and Werneke, M.W. ***Optimizing Outcomes. Digging Deeper into the Basic Tenets***. FOTO Outcomes Conference; 2015.
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101. Werneke, M.W. ***The Art and Science of Collecting Data For Achieving Great Outcomes: What FOTO Users Need to Know***. FOTO Outcomes Conference; 2015.

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44. Hart, D.L., Connolly, J.B., Scott, K., and Werneke, M.W. ***Development of an outcomes-based pay-for-performance process for outpatient physical and occupational therapy***. AcademyHealth; 2006.
45. Resnik, L., Liu, D., Mor, V., Normand, S.L., and Hart, D.L. ***Profiling providers of outpatient physical therapy***. AcademyHealth; 2006.
46. Werneke, M.W. ***Fear Avoidance Model for Patients with Non-specific Neck & Back Pain Syndromes Integrating FOTO Data with Patient Management***. FOTO Outcomes Conference; 2006.
47. Werneke, M.W. ***Effectiveness Research: Bridging Clinical Practice and Evidence***. FOTO Outcomes Conference; 2006.

48. Deutscher, D. ***Development of a Clinical Database in Physical Therapy: Clinical applications, Research and future goals.*** Israeli Physical Therapy Society (IPTS); 2007.
49. Deutscher, D., Hart, D., and Van der Wees, P.J. ***Clinical Databases in Physical Therapy: Creating an International Network.*** WCPT; 2007.
50. Deutscher, D. and Hart, D.L. ***Longitudinal and construct validity of a computerized adaptive testing functional status outcome measure.*** WCPT; 2007.
51. Deutscher, D. and Hart, D.L. ***Implementing an Integrated Electronic Outcomes and Electronic Health Record Process to Create a Foundation for Clinical Practice Improvement.*** WCPT; 2007.
52. Deutscher, D., Hart, D.L., Horn, S., Dickstein, R., and Gutvirtz, M. ***Implementing an Integrated Electronic Outcomes and Electronic Health Record Process to Create a Foundation for Clinical Practice Improvement.*** WCPT; 2007.
53. Hart, D.L., Connolly, J.B., Scott, K., and Werneke, M.W. ***Development of an outcomes-based pay-for-performance process for outpatient physical and occupational therapy.*** CSM; 2007.
54. Hart, D.L., Connolly, J.B., Scott, K., and Werneke, M.W. ***Feasibility of implementing an outcomes-based pay-for-performance process for outpatient physical and occupational therapy: Medicare Part B.*** CSM; 2007.
55. Hart, D.L., Connolly, J.B., Scott, K., and Werneke, M.W. ***Using an outcomes-based pay-for-performance process for outpatient therapy to encourage evidence-based treatment: a real data simulation.*** WCPT; 2007.
56. Hart, D.L., Mioduski, J., Werneke, M.W., and Stratford, P. ***Using computerized adaptive testing to improve the efficiency of outcomes data collection.*** WCPT; 2007.
57. Resnik, L., Liu, D., Mor, V., Normand, S.L., and Hart, D.L. ***Provider profiling of outpatient physical therapy practices.*** CSM; 2007.
58. Werneke, M.W. ***Investigating Classification of Patients with Low Back Pain as an Important Risk-Adjusted Variable: Effectiveness Research Using FOTO.*** FOTO Outcomes Conference; 2007.
59. Brooks, J.A. ***Physical therapy outcomes by referral source in patients with low back pain.*** CSM; 2008.
60. Deutscher, D. ***Associations Between Treatment Processes, Patient Characteristics and Outcomes in Outpatient Physical Therapy Practice.*** Israeli Society of Rehabilitation; 2008.

61. Deutscher, D. ***Associations Between Treatment Processes, Patient Characteristics and Outcomes in Outpatient PT Practice***. Developing Leadership to Promote Evidence Based Practice, University of Haifa; 2008.
62. Hart, D.L. ***Predictors of Therapy Clinic Performance***. FOTO Outcomes Conference; 2008.
63. Hart, D.L. ***Risk-Adjustment Progress and Findings***. FOTO Outcomes Conference; 2008.
64. Werneke, M.W. ***Integrating Outcome Data During Routine Clinical Practice: Is It Important? Two Perspectives Professional: science-trained and Practical: what's in it for me?*** FOTO Outcomes Conference; 2008.
65. Deutscher, D. ***Associations Between Treatment Processes, Patient Characteristics, and Outcomes, in Outpatient Physical Therapy Practice***. The 3rd annual meeting of the Ono research institute for health professions and medicine, Ono Academic College, Israel; 2009.
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69. Gozalo, P., Hart, D.L., and Resnik, L. ***Benchmarking outpatient rehabilitation clinics***. CSM; 2010.
70. Hart, D.L. and Deutscher, D. ***Associations between Treatment Processes, Patient Characteristics and Outcomes in Outpatient Physical Therapy***. CSM; 2010.
71. Hart, D.L., Werneke, M.W., and George, S.Z. ***Fear-avoidance beliefs of physical activities and risk-adjusted functional status for patients with lumbar impairments***. CSM; 2010.
72. Werneke, M.W. ***The Clinical Scientist***. FOTO Outcomes Conference; 2010.
73. Werneke, M.W., Hart, D.L., Cutrone, G., McGill, T., Oliver, D., and Weinberg, J. ***Prevalence of classification methods for patients with lumbar impairments using the McKenzie system and pain pattern classification when patients are grouped by spinal manipulation or stabilization clinical prediction rules***. CSM; 2010.
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18. Hart, D.L. ***Computerized adaptive administration of an index of functional health status to improve patient management.*** CSM; 2001.
19. Hart, D.L. ***Construct validity of a measure of physical functional health status.*** CSM; 2001.
20. Hart, D.L. ***Development of an index of functional health status.*** CSM; 2001.
21. Hart, D.L. ***Improving the precision of measures of physical functional health status.*** CSM; 2001.
22. Hart, D.L. ***Computerized adaptive testing: application in outcomes measurement.*** CSM; 2002.
23. Hart, D.L. ***Validity and relative precision of a health status measure: comparison of Likert and Rasch scoring models.*** CSM; 2002.
24. Deutscher, D. ***Outcome measurement in Physical Therapy – Inauguration of the FOTO project.*** Maccabi Health Care Services Physical Therapy Conference; 2003.
25. Deutscher, D. ***Longitudinal and Construct Validity of a Computerized Adaptive Testing Functional Status Outcomes Measure.*** WCPT; 2003.
26. Hart, D.L. ***Equating Oswestry Low Back Pain Disability Questionnaire and Neck Disability Index into a functional health status item bank.*** CSM; 2003.
27. Resnik, L. ***Use of outcomes measurement for identification of therapists with clinical expertise***
Use of outcomes measurement for identification of therapists with clinical expertise. CSM; 2003.
28. Resnik, L. ***Use of clinical outcomes data for physical therapist provider profiling.*** Quality and Patient Safety; 2003.
29. Hart, D.L. ***Predictive validity of a patient self-report outcomes process.*** CSM; 2004.
30. Hart, D.L. ***Unidimensionality testing of the Spinal Function Sort.*** CSM; 2004.
31. Jewell, D.V. and Riddle, D.L. ***Mobilization and exercise increase the likelihood of a meaningful improvement in disability in patients with sciatica.*** CSM; 2004.
32. Resnik, L. and Hart, D.L. ***Methodology for profiling outpatient rehabilitation clinics based upon patient outcomes.*** CSM; 2004.
33. Amato, A. ***Pay For Performance: Implications For Out Patient Physical Therapy Providers.*** FOTO Outcomes Conference; 2005.

34. Deutscher, D. ***Outcome measurement in Physical Therapy – An idea that has become a reality.*** Maccabi Health Care Services Physical Therapy Conference; 2005.
35. Hart, D.L. ***CMS Pay-for-Performance Feasibility Grant Update.*** FOTO Outcomes Conference; 2005.
36. Hart, D.L. ***Science Behind the New Condition-Specific CATs.*** FOTO Outcomes Conference; 2005.
37. Hart, D.L., Cook, K.F., Mioduski, J.E., and Teal, C.R. ***Assessing functional outcomes measures for people with shoulder impairments through computerized adaptive testing.*** CSM; 2005.
38. Hart, D.L., Mioduski, J., and Stratford, P. ***Improving functional outcomes measures for people with lower extremity impairments through computerized adaptive testing.*** CSM; 2005.
39. Heen, R. ***Managing with Data: Integrating Outcomes Measures into Clinical Practice.*** FOTO Outcomes Conference; 2005.
40. Resnik, L., Feng, Z., and Hart, D.L. ***Delegation of care to support personnel in outpatient physical therapy: implications for quality and efficiency.*** AcademyHealth; 2005.
41. Werneke, M.W. ***Back Pain & Return-to-Work: Perfect Together or Not?*** FOTO Outcomes Conference; 2005.

Presentations up to 2000

1. Hart, D.L. ***Demographic variables related to outcome in acute orthopedic rehabilitation.*** ACRM; 1997.
2. Hart, D.L. ***Hierarchical order and unidimensionality of the SF-36 physical functioning scale in patients with cervical or lumbar syndromes.*** ACRM; 1998.
3. Hart, D.L. ***Effect of risk adjustment on practice patterns for low back pain.*** CSM; 1998.
4. Hart, D.L. ***Geographic differences in rehabilitation outcomes.*** CSM; 1998.
5. Hart, D.L., Amato, A., and Marino, M.J. ***Managing a practice using a P&L and patient outcomes.*** CSM; 1998.
6. Hart, D.L. and Dobrzykowski, E.A. ***Development of a rehabilitation outcomes measurement tool for post-acute rehab: preliminary results.*** CSM; 1998.
7. Hart, D.L. and Dobrzykowski, E.A. ***Patterns of outcomes for patients with carpal tunnel syndromes.*** CSM; 1998.

8. Hart, D.L. and Kosinski, M. ***SF-12 & SF-36 physical functioning scales comparison in patients receiving therapy***. CSM; 1998.
9. Brooks, J. and Hart, D.L. ***Use of outcomes analyses to direct continuing education needs for physical therapists***. CSM; 1999.
10. Cook, C.E. and Hart, D.L. ***Determining best practices through outcomes for therapists treating patients with low back impairments***. CSM; 1999.
11. Hart, D.L. and Dobrzykowski, E.A. ***Effect of exercise history on clinical outcomes***. CSM; 1999.
12. Hart, D.L. and Dobrzykowski, E.A. ***Effect of orthopedic specialist certification on clinical outcomes***. CSM; 1999.
13. Hart, D.L. ***Development of an index for functional health status in rehabilitation***. 3rd International Outcome Measurement Conference; 2000.
14. Hart, D.L. ***Effect of change in health status prior to rehabilitation on clinical outcomes***. CSM; 2000.
15. Hart, D.L. ***Effect of medication use on change in health status***. CSM; 2000.
16. Hart, D.L. ***Orthotics & Prosthetics National Office Outcomes Tool (OPOT): Initial reliability and validity***. CSM; 2000.
17. Hart, D.L. and Dobrzykowski, E.A. ***Response consistency in patient self-report of health status***. CSM; 2000.

Theses and Dissertations ¹⁻⁸

Doctoral Dissertations

1. White, L.J., ***Measuring outcomes in patients with low back pain***. Doctoral Dissertation; 1998. University of Chicago.
2. Resnik, L., ***Clinician and organizational factors associated with outcomes effectiveness in the treatment of patients with low back pain***. Doctoral Dissertation; 2002. Nova Southeastern University.
3. Jewell, D.R.V., ***Practice variation in physical therapy: Development of a causal model using the disorders adhesive capsulitis of the shoulder and sciatica***. Doctoral Dissertation; 2003. Virginia Commonwealth University.
4. Lehman, L.A., ***Responsiveness comparison of two upper extremity outcome measures***. Doctoral Dissertation; 2008. University of Florida.
5. Deutscher, D., ***Patient Characteristics, Treatment Processes and Functional Outcomes, in Outpatient Physical Therapy Clinics***. Doctoral Dissertation; 2010. University of Haifa, Israel.

Master's Theses

6. Chism, K., ***Differences in perceived treatment outcomes in patients with low back pain based on amount of delay of physical therapy intervention***. Master's Theses; 1998. Southwest Texas State University.
7. Schwanz, L.A., ***Health status, goal attainment, and number of visits of knee impaired physical therapy patients: a comparison of HMO vs. fee-for-service insurance plans***. Master's Theses; 1998. Southwest Texas State University.
8. Bruce, J.A., ***Investigating physical therapy treatment outcomes for patients with shoulder pathology: is reimbursement type a factor?*** Master's Theses; 1999. North Georgia College & State University.