

Curriculum Vitae

Reza Salehi

Professor of Physical Therapy



Contact Information

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Education

- Ph.D., 2010, Physical Therapy, Iran University of Medical Sciences
- MSc., 2003, Physical Therapy, Iran University of Medical Sciences
- BSc., 2000, Physical Therapy, Ahvaz Jundishapur University of Medical Sciences

Research Interests

My primary research objective is postural and movement control. In particular, I have been involved in changes in motor control,

coordination and synergy with healthy aging, practice, and a range of neurological or orthopedic disorders.

My secondary research interest is outcome measurement in movement. In particular, I have been involved in psychometric property clinical/experimental measurement in rehabilitation.

Specializations

- Postural & Movement control
- Coordination Dynamics & Motor synergies
- Outcome Measures in Movement
- ICF-based classification and measurement of functioning

Professional Experience

- **Present Position:** Professor, physical Therapy, Department of Physiotherapy and Rehabilitation Management, Iran University of Medical Sciences, Tehran, Iran.
- **2018-2023:** Associate Professor, physical Therapy, Department of Rehabilitation Management, Iran University of Medical Sciences, Tehran, Iran.
- **2003 - 2018:** Lecturer/Assistant Professor/Associate Professor, Department of Physical Therapy, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran.

Teaching Experience

For Under-Graduate Students

- Physical therapy in orthopedic conditions (BSc. PT)
- Physical therapy post-surgical conditions (BSc. PT)

- Physical therapy in rheumatoid conditions (BSc. PT)
- Extremity Mobilization and manual therapy (BSc. PT)
- Kinesiology and biomechanics of lower extremity (BSc. PT)
- Evaluation and manual muscle testing (BSc. PT)
- Clinical neurophysiology (BSc. PT)
- Exercise therapy for cerebral palsy (BSc. PT)

For Graduate Students

- Neuromuscular neurophysiology (MSc. PT)
- Pathophysiology of neural and movement system (MSc. PT)
- Electromyography (MSc. PT)
- Pathomechanics (MSc. PT)
- Special technique in neuromuscular disorders (MSc. PT)
- Motor Control (MSc. & PhD. PT)
- Advanced neuromuscular physiology (PhD. PT & MSc PT)
- Rehabilitation Technology (MSc. RM)
- Rehabilitation approaches (MSc. RM)
- Disability Studies (MSc. RM)
- Research Methodology (MSc. RM & PT)
- Principles of exercise therapy (PhD PT)
- Movement dysfunction and Treatment technique (PhD PT)

(Abbreviations; PT: Physical Therapy; RM: Rehabilitation Management)

Referred Publications

2023

Arghavan Hajibashi, Javad Sarrafzadeh, Ali Amiri, **Reza Salehi**, Behnoosh Vasaghi-Gharamaleki. Effect of progressive muscle relaxation as an add-on to pulmonary telerehabilitation in discharged patients with COVID-19: A randomised controlled trial. *Complementary Therapies in Clinical Practice*. 2023 May;51:101730.

- A Bozorgmehr, I Ebrahimi, M Akbari, **R Salehi**, H Mohsenifar, O Rasouli. Reliability of Ultrasound Measurements of the Lumbar Multifidus and Transversus Abdominis Muscles during Lying and Unstable Sitting Positions in Individuals with and without Chronic Low Back Pain. Journal of Biomedical Physics and Engineering. 2023 Apr 1;13(2):157-168
- Neda Orakifar, **Reza Salehi**, Mohammad Jafar Shaterzadeh Yazdi, Mohammad Mehravar, Zahra Najarzadeh. Comparison of proprioceptive postural control strategies between prolonged standing induced low back pain developers and non-low back pain developers. Physiother Theory Pract. 2023 Feb;39(2):300-309.

2022

- Razieh Mofateh, **Reza Salehi**, Mohammad Mehravar, Hossein Negahban. Quantifying lower extremity inter-segmental coordination variability during walking in people with multiple sclerosis with high and low fear of falling. Mult Scler Relat Disord. 2022 Dec;68:104258.
- Yasin Larni, Holakoo Mohsenifar, Hasan Ghandhari, **Reza Salehi**. The effectiveness of Schroth exercises added to the brace on the postural control of adolescents with idiopathic scoliosis: Case series. Ann Med Surg (Lond). 2022 Nov 13;84:104893.
- Saeideh Monjezi, Farshad Molhemi, Mohammad-Jafar Shaterzadeh-Yazdi, **Reza Salehi**, Mohammad Mehravar, Davood Kashipazha, Saeed Hesam. Perturbation-based Balance Training to improve postural responses and falls in people with multiple sclerosis: a randomized controlled trial. Disabil Rehabil. 2022 Nov 2;1-7.
- Neda Orakifar, Mohammad Jafar Shaterzadeh-Yazdi, **Reza Salehi**, Mohammad Mehravar, Neda Namnik, Seyyed Arash Haghpanah. Comparison of Kinematic Movement Patterns Between 2 Subgroups of Females with Low Back Pain and Healthy Women During Sit-to-Stand and Stand-to-Sit. J Appl Biomech. 2022 Sep 12;38(5):346-354.
- Marzieh Sadeghi, Hosein Kouhzad Mohammadi, Mohammad Mehravar, **Reza Salehi**, Navid Taheri, Atefeh Karimzadeh. The effects of intrinsic foot muscles strengthening exercises on knee kinematic in pronated foot subjects

during forward jump landing. J Family Med Prim Care. 2022 Aug;11(8):4389-4394.

Zohreh Shafizadegan, Javad Sarrafzadeh, Farzam Farahmand, **Reza Salehi***, Omid Rasouli. Uncontrolled manifold analysis of gait kinematic synergy during normal and narrow path walking in individuals with knee osteoarthritis compared to asymptomatic individuals. J Biomech. 2022 Aug;141:111203.

Sanaz Shanbehzadeh, Shabnam ShahAli, Isamael Ebrahimi Takamjani, Johan W S Vlaeyen, **Reza Salehi**, Hassan Jafari. Association of pain-related threat beliefs and disability with postural control and trunk motion in individuals with low back pain: a systematic review and meta-analysis. Eur Spine J. 2022 Jul;31(7):1802-1820.

Leila Alizadeh, Afsaneh Nikjooy, Behnoosh Vasaghi-Gharamaleki, **Reza Salehi**, Ali Amiri, Hamed Ghomashchi, Saman Salehi, Khaled Rezaie. Comparison of Postural Control of Females with and without Urinary Incontinence: A Case-Control Study. Med J Islam Repub Iran. 2022 Jun 20;36:66.

Reza Salehi, Leila Valizadeh, Hossein Negahban, Mehrnoosh Karimi, Shahin Goharpey, Shadab Shahali. The Western Ontario and McMaster Universities Osteoarthritis, Lequesne Algofunctional index, Arthritis Impact Measurement Scale-short form, and Visual Analogue Scale in patients with knee osteoarthritis: responsiveness and minimal clinically important differences. Disabil Rehabil. 2022 Jun 11;1-7.

Zohreh Shafizadegan, Javad Sarrafzadeh, **Reza Salehi**, Farzam Farahmand, Omid Rasouli. The Effects of Challenging Walking Conditions on Kinematic Synergy and Stability of Gait in People with Knee Osteoarthritis: A Study Protocol. Adv Biomed Res. 2022 Apr 29;11:35.

Samira Javadpour, Ehsan Sinaei, **Reza Salehi**, Shahla Zahednejad, Alireza Motealleh. Comparing the Effects of Single-Task versus Dual-Task Balance Training on Gait Smoothness and Functional Balance in Community-Dwelling Older Adults: A Randomized Controlled Trial. J Aging Phys Act. 2022 Apr 1;30(2):308-315.

Mehrnaz Kajbafvala, Zinat Ashnagar, Adelia Lucio, Fahimeh Firoozeh, **Reza Salehi**, Fariba Pashazadeh, Mehdi Dadgoo, Hassan Jafari. Pelvic floor muscle training in multiple sclerosis patients with lower urinary tract dysfunction: A

systematic review and meta-analysis. *Mult Scler Relat Disord*. 2022 Mar;59:103559.

Saeideh Monjezi, Farshad Molhemi, Mohammad-Jafar Shaterzadeh Yazdi, **Reza Salehi**, Mohammad Mehravar, Davood Kashipazha. Responsiveness and clinically meaningful changes for the Persian versions of the multiple sclerosis walking scale-12 and the modified fatigue impact scale following balance and gait rehabilitation in people with multiple sclerosis. *Physiother Theory Pract*. 2022 Mar;38(3):464-470.

2021

Sanaz Bemani, Shohreh Noorizadeh Dehkordi, Javad Sarrafzadeh, Saeed Talebian, **Reza Salehi**, Jamileh Zarei. Efficacy of a multidimensional versus usual care physiotherapy on pain and electroencephalography (EEG) spectrum in chronic nonspecific low back pain: study protocol for a randomized controlled trial. *Trials*. 2021 Oct 7;22(1):679

Reza Salehi, Omid Rasouli, Maryam Saadat, Mohammad Mehravar, Hossein Negahban, Mohammad Jafar Shaterzadeh. Cervical movement kinematic analysis in patients with chronic neck pain: A comparative study with healthy subjects. *Musculoskeletal Science and Practice* Available online 16 April 2021, 102377 In Press

Shahla Zahednejad, Samira Javadpour, Alireza Motealleh, **Reza Salehi***. A Comparison of the Gait Harmonic Ratio between Faller and Non-faller Iranian Older Adults, under Single-task and Dual-task Conditions. *Sadra Medical Journal*. 2021; 9(2):175-186

Farshad Molhemi, Saeideh Monjezi, Mohammad Mehravar, Mohammad-Jafar Shaterzadeh-Yazdi, **Reza Salehi***, Saeed Hesam, Ehsan Mohammadianinejad. Effects of Virtual Reality vs Conventional Balance Training on Balance and Falls in People with Multiple Sclerosis: A Randomized Controlled Trial. *Arch Phys Med Rehabil*. 2021 Feb;102(2):290-299.

Maryam A Saba, Shahin Goharpey, Behrouz Attarbashi Moghadam, **Reza Salehi**, Mostafa Nejatian. Correlation between the 6-Min Walk Test and Exercise

Tolerance Test in Cardiac Rehabilitation after Coronary Artery Bypass Grafting: A Cross-sectional Study. *Cardiol Ther.* 2021 Feb 13.

2020

Ali Bozorgmehr, Ismail Ebrahimi Takamjani, Mohammad Akbari, **Reza Salehi**, Holakoo Mohsenifar, Omid Rasouli. Effect of Posterior Pelvic Tilt Taping on Abdominal Muscle Thickness and Lumbar Lordosis in Individuals with Chronic Low Back Pain and Hyperlordosis: A Single-Group, Repeated-Measures Trial. *J Chiropr Med.* 2020 Dec;19(4):213-221.

Maryam A Saba, Shahin Goharpey, Behrouz Attarbashi Moghadam, **Reza Salehi**, Sayed Mohammadreza Afshani. Validation and responsiveness of the Persian version of HeartQoL questionnaire in cardiac rehabilitation after coronary artery bypass grafting: A cross-sectional study. *ARYA Atheroscler.* 2020 Jul;16(4):170-177.

Haniyeh Choobsaz, Shabnam ShahAli, **Reza Salehi**, Shohreh Noorizadeh Dehkordi, Sanaz Shanbehzadeh. Discriminative ability of fall efficacy scale international in Iranian people with multiple sclerosis. *Multiple sclerosis and related disorders.* Volume 42, July 2020, 102083

Saeideh Monjezi, Farshad Molhemi, Mohammad-Jafar Shaterzadeh Yazdi, **Reza Salehi**, Mohammad Mehravar, Davood Kashipazha. Responsiveness and clinically meaningful changes for the Persian versions of the multiple sclerosis walking scale-12 and the modified fatigue impact scale following balance and gait rehabilitation in people with multiple sclerosis. *Physiotherapy Theory and Practice*, 2020

Ebrahimi Takamjani Ismail, Tabatabaiee Abbas, Sarrafzadeh Javad, **Salehi Reza**. Gait analysis of patients with piriformis muscle syndrome compared to healthy controls. *Musculoskeletal Science and Practice.* 2020; Volume 48, August, 102165

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Maedeh Fani, **Reza Salehi**, Navid Chitsaz, Shahin Goharpey, Shahla Zahednejad. Transabdominal ultrasound imaging of pelvic floor muscles activity in women with and without stress urinary incontinence: A case-control study. Journal of Obstetrics and Gynaecology Canada. Available online 13 April 2020

Reza Salehi, Hossein Negahban, Farzad Faraji Khiavi, Shiva Saboor, Nastaran Majdinasab, Kamal Shakhi. Validity and Reliability of the World Health Organization Disability Assessment Schedule 2.0 36-Item Persian Version for Persons with Multiple Sclerosis. Korean J Fam Med. 2020 May;41(3):195-201.

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Fani Maedeh, **Salehi Reza**, Chitsaz Navid, Goharpey Shahin, Zahednejad Shahla Relative reliability, standard error of measurement and minimal detected change of transabdominal ultrasound during pelvic floor muscles contraction, Valsalva maneuver, and abdominal curl in healthy women. The Iranian Journal of Obstetrics, Gynecology and Infertility. 2020: 22 (12); 38-45.

Ahmadi P, **Salehi R***, Mehravar M, Goharpey S, Negahban H. Comparing the effects of external focus of attention and continuous cognitive task on postural control in anterior cruciate ligament reconstructed athletes. Neurosci Lett. 2020 Nov 30;715:134666.

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Ahmadi P, **Salehi R***, Mehravar M, Goharpey S. The Effects of Continuous Cognitive Task on Postural Control of People with Anterior Cruciate Ligament Reconstruction Using Balance Error Scoring System. J rehab. 2019; 20 (4):298-309.

- Tabatabaiee A, Takamjani IE, Sarrafzadeh J, **Salehi R**, Ahmadi M. Ultrasound-guided dry needling decreases pain in patients with piriformis syndrome. *Muscle Nerve*. 2019 Nov;60(5):558-565.
- Sadegh Norouzi, Fateme Esfandiarpour, Ali Shakouri Rad, Nasim Kiani Yousefzadeh, Zeinab Helalat, **Reza Salehi**, Mehrnoosh Amin, Farzam Farahmand. Fluoroscopic analysis of anterior tibial translation during eccentric and concentric phase of knee rehabilitation exercises in men with anterior cruciate ligament injury. *Tehran Univ Med J*. 2019; 77 (8) :512-519.
- Orakifar N, Shaterzadeh-Yazdi MJ, **Salehi R**, Mehravar M, Namnik N. Muscle Activity Pattern Dysfunction During Sit to Stand and Stand to Sit in the Movement System Impairment Subgroups of Low Back Pain. *Arch Phys Med Rehabil*. 2019 May;100(5):851-858
- Neda Namnik, **Reza Salehi**, Mohammad Jafar Shaterzadeh-Yazdi, Fateme Esfandiarpour, Mohammad Mehravar, Neda Orakifar. Examination of Lumbopelvic and Lower Extremity Movements in two Subgroups of People with Chronic Low Back Pain Based on the Movement System Impairment Model during a Stair Descending Task. *Ortopedia Traumatologia Rehabilitacja*. 2019; 21 (3): 197-205
- Fatemeh Gheyasi, Shahram Baraz, Amal Saki Malehi, Ahmad Ahmadzadeh, **Reza Salehi**, Mojtaba Vaismoradi. Effect of the Walking Exercise Program on Cancer-Related Fatigue in Patients with Acute Myeloid Leukemia Undergoing Chemotherapy. *Asian Pac J Cancer Prev*. 2019 Jun 1;20(6):1661-1666.
- Saadat M, **Salehi R***, Negahban H, Shaterzadeh MJ, Mehravar M, Hessam M. Traditional physical therapy exercises combined with sensorimotor training: The effects on clinical outcomes for chronic neck pain in a double-blind, randomized controlled trial. *J Bodyw Mov Ther*. 2019 Oct;23(4):901-907.
- Salehi Reza**, Negahban Hossein, Saghayezhian Najmeh, Saadat Maryam. The Responsiveness of the Persian Version of Neck Disability Index and Functional Rating Index Following Physiotherapy Intervention in People with Chronic Neck Pain. *Iran J Med Sci*. 2019 Sep;44(5):390-396.

- Ali Bozorgmehr, Shahla Zahednejad, **Reza Salehi**, Nouredin Nakhostin Ansari, Soheila Abbasi, Holakoo Mohsenifar, Jorge Hugo Villafañe. Relationships between muscular impairments, pain, and disability in patients with chronic nonspecific low back pain: a cross sectional study. *J Exerc Rehabil.* 2018; 14(6):1041-1047.
- Neda Namnik, **Reza Salehi**, Mohammad Jafar Shaterzadeh-Yazdi, Fateme Esfandiarpour, Mohammad Mehravar, Neda Orakifar. Comparison of Lumbopelvic Movement Patterns in People with and Without Low Back Pain during Stair Descending Task. *Journal of Rehabilitation Sciences and Research.* 2018; 5 (3): 81-85.
- Molhemi F, **Salehi R**, Shaterzadeh-Yazdi MJ, Monjezi S. Effects of Kinect-based virtual reality exercises on balance and risk of falling in people with multiple sclerosis: a pilot double blinded randomized control trial. *Multiple Sclerosis Journal* 2018; 24: (S2) 530–737. P1270. DOI: 10.1177/1352458518798591. ECTRIMS Online Library. Oct 12, 2018; 229110
- Tajali S, Mehravar M, Negahban H, Mofateh R, Van Dieen JH, Shaterzadeh M, Majdinasab N, **Salehi R**. Local dynamic stability versus kinematic variability during single and dual task walking conditions in multiple sclerosis patients with and without a previous fall history. *Multiple Sclerosis Journal* 2018; 24: (S2) 530–737. P1013. DOI: 10.1177/1352458518798591. ECTRIMS Online Library.
- Hessam M, **Salehi R**, Mehravar M, Shaterzadeh-Yazdi MJ, Negahban H. Motor Synergies in Physical Therapy: The Uncontrolled Manifold Approach; A Narrative Review. *Journal of Rehabilitation Research.* 2018; 13(5): 296-302 (In Persian)
- Hessam M, **Salehi R***, Shaterzadeh Yazdi MJ, Negahban H, Rafie S, Mehravar M. Relationship between functional balance and walking ability in individuals with chronic stroke. *J Phys Ther Sci.* 2018; 30(8): 993-996
- Saadat M, **Salehi R***, Negahban H, Shaterzadeh M J, Mehravar M, Hessam M. Postural stability in patients with non-specific chronic neck pain: A comparative study with healthy people. *Med J Islam Repub Iran.* 2018; 32:196-200
- Salehi R**, Davatgaran K, Heidari M, Mostafae N, Latifi M. The Psychometric Properties of the Persian Version of the Camberwell Assessment of Needs

(CANE) for Iranian Elderly People with Mental Disorders. Iranian of Journal Aging. 2018; 13:168-181

Orakifar N, Shaterzadeh-Yazdi MJ, **Salehi R**, Mehravar M, Namnik N. Comparison of muscle recruitment patterns during sit to stand and stand to sit in “movement system impairment” subgroups of low back pain and healthy women. J of Rehabilitation Sciences and Research. 2018; 5(1):5-12

Pouretzad M, **Salehi R***, Negahban H, Shaterzaedeh Yazdi MJ, Mehravar M. Effects of cognitive loading on lumbar flexion relaxation phenomenon in healthy people. J Phys Ther Sci. 2018; 30: 744–747

2017

Torabipour A, Gharacheh L, Lorestani L, **Salehi R**. Comparison of Responsiveness Level in Iranian Public and Private Physiotherapy Clinics: a Cross-Sectional Multi-center Study. Mater Sociomed. 2017; 29: 172-175

Mofateh R, **Salehi R***, Negahban H, Mehravar M, Tajali S. Effects of cognitive versus motor dual-task on spatiotemporal gait Parameters in healthy controls and multiple sclerosis patients with and without fall history. Multiple Sclerosis and Related Disorders. 2017; 18: 8-14

Kiani I, Pouretzad M, Goharpey S, **Salehi R**, Negahban Siuki H, Majdi Nasab N. Reliability and Validity of the Persian Version of Multiple Sclerosis Spasticity Scale in Iranian Patients with Multiple Sclerosis. Jundishapur Sci Med J. 2017; 16: 197-208 (In Persian)

2016

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Salehi R*, Goharpey S, Tayebi A, Negahban H, Shaterzadeh MJ. The Effects of Functional Knee Brace on Postural Control in Patients who Underwent Anterior Cruciate Ligament Reconstruction. Jentashapir Journal of Health Research. 2016; 7: e35435

Salehi R, Habibian S, Saadat S, Mehravar M. Immediate effects of insole on dynamic balance in the individuals with flat feet. Razi Journal of Medical Sciences. 2016; 23: 46-53 (In Persian)

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Taheri M, Negahban H, Mostafae N, **Salehi R**, Tabesh H. Responsiveness of selected outcome measures of participation restriction and quality of life in patients with multiple sclerosis. Disability and rehabilitation. 2016; 38: 482-486

2015

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Salehi R, Keshavarz A, Negahban H, Saeedi A, Shiravi A, Ghorbani S, Taghizadeh G, Azizi R. Development of the Persian Version of Gross Motor Function Measure-88 (GMFM-88): A Study of Reliability. Trends in Medical Research. 2015; 10: 69-74

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Hafizi Moori P, Shaterzadeh Yazdi MJ, Negahban Siuki H, Goharpey S, **Salehi R**. The Effect of Soft Collar Orthoses on Pain and Disability Level in People with

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2011

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