

Dr. Shahrbanoo Bidari

Assistant Professor of Orthotics & Prosthetics

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[Updated 24. June. 2023](#)



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Educational Background

- **Ph.D. Orthotics and Prosthetics**
Iran University of Medical Sciences Tehran, Tehran
- **Master of Science Orthotics and Prosthetics**
Iran University of Medical Sciences Tehran, Tehran
- **Bachelor of Science Orthotics and Prosthetics**
Tehran University of Medical Sciences Tehran, Tehran

Research Interests

- Spinal deformities: hyper kyphosis and scoliosis
- Ankle sprain
- Knee osteoarthritis

- Foot health

Publications

1. **2023: Performance of Surface Topography Systems in Scoliosis Management: A Narrative Review.** *Journal of Prosthetics and Orthotics. Volume 35, number 3.*
2. **2023: Evaluating the effect of equipping an unloading knee orthosis with local muscle vibrators on clinical parameters, muscular activation level, and medial contact force in patients with medial knee osteoarthritis: A randomized trial.** *Prosthetic and Orthotics International.*
3. **2023: Effect of equipping an unloader knee orthosis with vibrators on pain, function, stiffness, and knee adduction moment in people with knee osteoarthritis: A pilot randomized trial.** *Gait & Posture. Volume 99 – page 83-89*
4. **2022: A new scoliosis brace padding method based on trunk asymmetry for scoliosis treatment.** *Prosthetic and Orthotics International.*
5. **2021: The effect of brace treatment on large curves of 40° to 55° in adolescents with idiopathic scoliosis who have avoided surgery: A retrospective cohort study.** *Neurospine. Volume 18 – Issue 3*
6. **2021: The effect of local muscle vibration on clinical and biomechanical parameters in people with knee osteoarthritis: A systematic review.** *Medical Journal of the Islamic Republic of Iran (MJIRI). Volume 35 – Issue 1*
7. **2021: Translation, cultural adaptation and psychometric evaluation of Persian version of Foot Health Status Questionnaire.** *Iranian Rehabilitation Journal, Volume 19 – Issue 1*
8. **2021: Efficacy of Computer-Aided Design and Manufacturing Versus Computer-Aided Design and Finite Element Modeling Technologies in Brace Management of Idiopathic Scoliosis: A narrative review.** *Asian Spine Journal, Volume 15 – Issue 2*
9. **2019: Effect of exercise on static balance and Cobb angle during the weaning phase of brace management in idiopathic scoliosis and hyperkyphosis: A preliminary study.** *Journal of Back and Musculoskeletal Rehabilitation. Volume 32 – Issue 4*
10. **2015: Retrospective investigation of effect of exercises accompanied with Milwaukee brace on Cobb angle in patients with kyphoscoliosis** *Journal of Modern Rehabilitation. Volume 9 – Issue 4*

Presentations

1. March 2019
“Translation and Cultural Adaptation of the Foot-health-status Questionnaire (FHSQ) Into Persian Language”
Oral presentation
Shiraz rehabilitation conference

2. May 2017
“Effect of exercise on static balance and cobb angle during the weaning phase of brace management in spinal deformities”
Oral presentation
16st ISPO world Congress of Orthotics & Prosthetics
3. May 2017
“Scheuermann kyphosis and treatment approaches with a focus on new orthotic protocols, a review of literature”
Oral presentation
16st ISPO world Congress of Orthotics & Prosthetics
4. November 2014
“The role of the central nervous system in adolescent idiopathic scoliosis pathogenesis”
Poster Presentation
18th National Congress of physical medicine, rehabilitation and electro diagnosis
5. January 2014
“Etiology of idiopathic scoliosis, its relation to balance and the effect of Milwaukee brace on balance performance”
Poster presentation
1st national seminars on advanced methods of scoliosis treatment
6. February 2013: “role of rehabilitation in screening and treating adolescent idiopathic scoliosis in golden time”
Poster presentation
1st festival of poster in rehabilitation science.
7. February 2013: “role of rehabilitation in screening, preventing and treating diabetic sores”
Poster presentation
1st festival of poster in rehabilitation science
8. May 2012
“Hypertrophic scar management by silicone orthoses”
Poster Presentation
10th National Iranian Congress of Orthotics & Prosthetics
9. May 2012
“New pneumatic three-point pressure knee orthosis in knee osteoarthritis”
Poster Presentation
2nd congress of geriatric rehabilitation
10. February 2011
“introduction of new orthotic treatment in osteoporotic kyphosis in elderly”
Poster presentation
2nd national congress in rehabilitation.
11. April 2008
“principle of function of Flex-Foot Cheetah prosthesis”
Poster Presentation
8th National Iranian Congress of Orthotics & Prosthetics.

Honors & Awards

- Awarded ISPO travel grant and 10 top abstracts prize in ISPO World congress in 2017.

Administrative Responsibilities

- Managing and take placing orthotics and prosthetics journal club sessions weekly.
- Managing “fabricating an orthosis in spinal cord injury” student match in November- 2016
- Participating in execution of 5th Asian-Pacific international congress of anatomy in 16-19 May 2008

Peer _ reviewer for

- American journal of physical medicine and rehabilitation
- Clinical case report
- Journal of Diabetes Investigation
- The Archives of Bone and Joint Surgery