

**Dr. Shahrbanoo Bidari**

**Assistant Professor of Orthotics & Prosthetics**

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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*  
*16th 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*  
*16th 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