

# Sacroiliac Joint Posterior Ligaments Biomechanics and Clinical Implication for the Clinician

**Marcucci S.**

Affiliation: A. T. Still University, College of Graduate Health Studies, USA

## Abstract

The sacroiliac joint (SIJ) is organized by articular surfaces between the sacral and iliac bones. The SIJ includes different functions, among which to connect the spine to the pelvic bone, which permits for better transmission of vertical forces from the spine to the pelvis and lower extremities. The first purpose of the SIJ is to provide stability, which is promoted partly by the muscles attached to the SIJ and is provided by multiple mechanisms, embracing the complex of ligaments fixed to the SIJ. The range of motion of SIJ is estimated around 2 to 4 degrees. Additionally, there are 35 muscles attaching to the sacrum or innominate, which work in a combined effort with the fascial and ligaments, thus ensuring movement and simultaneously stability of the trunk and lower extremities. The SIJ also is an essential generator for pelvic and low back pain (LBP) in the differential diagnosis of referred pain in the lower extremities and should be considered in the differential diagnosis of pelvic and LBP. There is an underestimation of the prevalence of SIJ pain because there is a lack of research done on the SIJ posterior ligaments. In the United States and the rest of the world, there is an augmented prevalence of LBP and its related costs. In Europe, the increase of adult patients with LBP is associated with sedentary activities as working with a computer behind a desk.

## Biography:

Dr. Sergio Marcucci has completed his Doctorate in Health Sciences (DHSc) with concentration on Global Health from A. T. Still University, College of Graduate Health Studies, Mesa, USA. He earned his MSc from A. T. Still University of Kirksville USA, and his D.O. from Sutherland College of Osteopathic Medicine, Belgium. He is practicing osteopathic medicine since 18 years. Has given 15 oral presentations and one poster presentation. He has published papers in reputed journals and has been serving as a reviewer board member of three repute journals. He's also Faculty Member of the Medical and Health Sciences Institute School.

## References :

- New findings to consider in the Sacroiliac Joint and Low Back Pain in the Differential Diagnosis
- EC ORTHOPAEDICS Short Communication Posterior Sacroiliac Joint Ligaments and their Potential Influence on the Low Back and Pelvic Pain
- How to Avoid Diagnostic Errors by Health Care Professionals
- Osteopathie zur Optimierung des Golfschwunges

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