Editorial

Editorial: Journal of Orthopaedics, Rehabilitation and Sports Medicine

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Dear Colleagues,

As the newly appointed Editor-in-Chief, it is both an honor and a responsibility to introduce Journal of Orthopaedics, Rehabilitation and Sports Medicine (JORSM), a platform dedicated to advancing orthopedics, sports medicine, and rehabilitation through the transformative lens of bioengineering and emerging technologies. In an age where interdisciplinary collaboration drives medical breakthroughs, our journal aspires to bridge the gap between engineering ingenuity and clinical practice, fostering a global dialogue that redefines musculoskeletal care.

The fields of orthopedics and rehabilitation is being revolutionized by technologies such as:

Artificial Intelligence (AI): Machine learning algorithms now enable early detection of degenerative joint diseases with >90% accuracy, while predictive analytics optimize postoperative recovery pathways [1].

Robotics and Wearables: Exoskeletons for gait rehabilitation and smart prosthetics with sensory feedback are restoring mobility in ways previously unimaginable [2].

Biomaterials and 3D Printing: Patient-specific implants and bioresorbable scaffolds are pushing the boundaries of personalized medicine [3].

In an era of rapid technological advances, The *JORSM* will provide a comprehensive platform for high-quality research and expert insight across the full continuum of musculoskeletal health. Its scope spans clinical and basic science studies in orthopaedics, with a focus on understanding disease mechanisms, evaluating innovative surgical techniques—including minimally invasive procedures and the integration of technologies such as robotics and computer-assisted surgery—and advancing the management of orthopaedic trauma, joint replacement, and spine disorders. Special attention will be given to both pediatric and adult populations, covering a broad range of age-specific conditions.

In the field of rehabilitation, JORSM will highlight evidence-based post-operative protocols, physical therapy strategies, and innovative approaches to functional recovery, neuromuscular re-education, and chronic pain management. It also will address the development and application of assistive technologies, prosthetics, tele-rehabilitation, and return-to-work programs that aim to restore independence and improve patient outcomes.

Sports medicine is a core component of the journal's mission, encompassing the prevention, diagnosis, and management of athletic injuries; biomechanics and performance enhancement; exercise physiology; sports nutrition; and concussion management. The journal promotes research into rehabilitation programs tailored to sport-specific demands and supports holistic approaches to athlete health, including mental well-being and injury prevention education.

JORSM strongly encourages interdisciplinary research and collaborative work that brings together orthopaedic surgeons, physiotherapists, engineers, sports scientists, and public health professionals. The journal is also committed to innovation in diagnostics and therapeutics, the use of wearable and digital technologies, health economics, policy analysis, patient education, and the psychosocial factors that influence recovery. Through this

broad and integrative scope, JORSM aims to advance knowledge, improve clinical practice, and foster global collaboration in the service of musculoskeletal health.

I invite you to collaborate with our journal, contribute your valuable research and join us on this revolutionary journey to shape the future of orthopedics and rehabilitation through innovation and collaboration. Your research—whether a clinical trial, biomechanical modeling study, or case report on novel technologies are highly welcomed.

Together, let's shape a future where technology and human expertise converge to restore movement, alleviate pain, and redefine recovery.

Prof. Dr. Umile Giuseppe Longo
Editor-in-chief

Conflicts of Interest

The author declares no conflict of interest.

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