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Healing Hips: A Journey into Joint Health

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Healing Hips: A Journey into Joint Health

Mohammadreza “Hooman” Kheshti

Imagine waking up one day with a nagging pain in your hip, making even simple movements difficult. This is the reality for many suffering from femoroacetabular impingement (FAI), a condition that leads to early osteoarthritis. My research aims to change that story. Using cutting-edge robotic technology, we recreate human hip movements with remarkable precision, testing cadaveric hips to understand how different surgical techniques affect joint health. We measure the bone pressures and soft tissue deformation on the hip joint before and after surgery to discover which methods work best. This journey into the biomechanics of the hip not only helps surgeons improve their techniques but also brings hope for better recovery and pain-free lives. By combining science with a passion for healing, we strive to rewrite the story of hip pain and offer a future where mobility is restored and life is lived fully.