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### Integrating Artificial Intelligence in Post-Operative Rehabilitation After Total Knee Replacement: Enhancing Outcomes and Efficiency in Physical Therapy

#### Abstract:

Artificial intelligence (AI) is defined as the study of algorithms that allow machines to reason and perform cognitive functions such as problem-solving, objects, images, word recognition, and decision-making. This study aimed to review the published articles and the comprehensive clinical relevance of AI-based tools used before, during, and after knee arthroplasty.

#### Biography

I am a Northeastern University Alumni (DPT) and Wichita State University Alumni (Masters in Exercise Physiology) in addition to being a licensed PT in the US and a Resident PT in Canada and is currently licensed in Texas, New York and Michigan and have experience working as a therapist in Home health, SNF and Out Patient setting. I worked as a PTA/ Rehab coordinator in Toronto area to expand my skill set and understand the basic differences in care provided between these two neighboring countries. My skill set include evaluating and treating geriatric population and conditions that include but not limited to that have been diagnosed with Stroke, Alzeimers, Dementia, Parkinson's, TKR, THR, COPD and generalized debilitating conditions. I strongly believe in addition to having a professional skill set it is equally important to be empathetic to our patients in the health care profession. I am also a Study Buddy Mentor and help students in their preparation to achieve their goal to pass NPTE. Looking forward to many more exciting patient care opportunities and serving the population for a healthy lifestyle