

Perspective Article

New Technology and Orthopedic Treatment

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OPINION

The usage and value of (Specific, Measurable, Achievable, Relevant, Time-bound) SMART technology are becoming more widely recognized in orthopedics. SMART is an acronym that stands for Self-Monitoring Analysis and Reporting Technology. Recent clinical research has identified the usefulness and advantages of wearable technology for many populations, raising the issue of whether it may be useful in the treatment of persons with orthopedic-related problems. Wearable SMART technology collects health data from persons in one area, such as a patient's home, and electronically transmits the data to healthcare practitioners in another location for assessment, monitoring, and compliance.

The orthopedic devices sector is a promising field in worldwide medical technology, with revenues anticipated to rank third after cardiology and in-vitro diagnostics during the next decade. The aging population of orthopedic patients can benefit from SMART technology for both their orthopedic damage and the collateral difficulties that the aging population encounters when adjusting to an orthopedic ailment.

Clinical orthopedic treatments and procedures that save time and money are helping to improve orthopedic rehabilitation. As emerging technologies continue to change the sector, these interventions are anticipated to rise. Intelligent orthopedics, which combines traditional procedures with SMART technology, will be the industry's future. SMART sensor-enabled technologies and implants have given orthopedic surgeons real-time information for positioning and postoperative assessment, resulting in enhanced patient care along the treatment pathway. These implants have the potential to decrease periprosthetic infection, which is becoming increasingly common in orthopedic treatment.

Sensor-enabled technology has provided health care professionals with a diverse range of innovative, cost-effective products. Orthopedic patients will benefit from remote monitoring as well. Technology to help them gain rapid access to emergency services networks. These gadgets can aid in the development of a secure and self-sufficient environment in dwelling situations Wearable smart technology gadgets for individuals are already available and the topic of investigation advantageous to the geriatric population is increasing. Among these is Apple's "iWatch."Which provides over a dozen distinct sensors for tracking the health and fitness indicators for wearers in terms of steps done and calories burned calories burnt, blood glucose levels, sleep quality, and heart rate.

There are various tailored services available for families with a senior family member who needs monitoring. Applications for developing a "Smart" term "Medical Home" are influencing orthopedic care and therapy. Patients and caregivers who may benefit from computer-assisted therapy technology in their houses to offer the required monitoring of behaving in a healthy and wellbeing manner for the rehabilitating a patient with orthopedics.

Sport Medicine specialists are collaborating with biomedical professionals to recognize the importance and benefits of using SMART technology choices in clinical care. E-health is a relatively new word for healthcare practice that uses technology-based assessment and treatment techniques that have the potential to help a wide range of people who are anxious about their medical problems.

SMART technology is being used in joint endeavors. The TracPatch is an effective SMART medical gadget worn by the patient that supports good post-surgical recovery by measuring range of motion, exercise compliance, and ambulation during the rehabilitation process. TracPatch can be utilized for patient monitoring, interaction, and essential data analytics both before and after surgery. Patients can readily utilize such wearable gadgets since they attach to the skin above and below the knee.

The TracPatch dashboard provides healthcare providers with data on the patient's recovery at any time and from any location. Such technology allows for instantaneous treatment changes, which can increase recuperation efficiency.

The application of SMART technology in self-monitoring by orthopaedic scientists and practicing physicians presents a major avenue. Patient-motivated compliance, health, and behavior change

to make use of smart technology to adhere to clinical guidelines. Treatment is still helping with rehabilitation and recovery. Using available SMART technologies for both pre-and post-op procedures

Patient monitoring, interaction, and key data analytics are all available. The orthopedic practitioner and the orthopedic patient both improved. Healthcare effectiveness in the treatment and rehabilitation process for injuries to the joints and their repair.

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