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(57) Abstract :

A patient care system, comprising a user-interface integrated within a computing unit accessible by a patient to obtain explicit personal and medical information, a wearable wristband 101 embedded with a plurality of biomedical sensors 102 including heart rate, pulse oximeter, temperature, electrodermal activity, and accelerometer sensors for continuous health monitoring, a seating unit designed to support the patient's body during exercises with adjustable multi-segmented plates 104 and motorized hinges 106, a set of vibration patches 107 embedded on the seating unit for muscle relaxation and blood circulation, a patient movement assistance assembly 108 for safe transfer of patient within the care facility 109, a projection unit 110 for providing visual guidance, and an AI-enabled camera 111 integrated with IMU for posture analysis and anomaly detection.

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