sword

Leading clinical research in digital health

Sword has published a total of 29 peer-reviewed papers in major scientific journals

06/2012 — The vibratory stimulus as a neurorehabilitation tool for stroke patients: Proof of concept and tolerability test

12/2014 — A novel system for automatic classification of upper limb motor function after stroke: An exploratory study

07/2014 — Motor task performance under vibratory feedback early poststroke: Single centre, randomised, cross-over, controlled clinical trial

10/2017 — Motor Task Performance under Visual and Auditory Feedback Post Stroke: A Randomised Crossover Trial

09/2020 — Machine Learning Improvements to Human Motion Tracking with IMUs

07/2018 — Home-based Rehabilitation with a Novel Digital Biofeedback System versus Conventional In-person Rehabilitation After Total Knee Replacement

02/2019 — Medium-Term Outcomes of Digital Versus Conventional Home-Based Rehabilitation After Total Knee Arthroplasty: Prospective...

06/2019 — Digital vs Conventional Rehabilitation After Total Hip Arthroplasty: Single-Centre, Parallel-Group, Pilot Study

03/2022 — Digitally assisted vs conventional home-based rehabilitation after Arthroscopic Rotator Cuff Repair: a randomized controlled trial

07/2023 — Digitally care programme versus conventional physiotherapy for chronic low back pain: a randomized controlled trial

08/2023 — Digitally care programme versus conventional physiotherapy for chronic Shoulder pain: a randomised controlled trial

09/2021 — Digital rehabilitation for acute ankle sprains: prospective longitudinal Cohort Study

01/2022 — Digital Rehabilitation for Acute MSK conditions: a prospective longitudinal Cohort Study

01/2022 — Asynchronous and tailored digital rehabilitation of chronic shoulder pain: a prospective longitudinal cohort study

07/2022 — Digital rehabilitation for acute Low Back Pain: a prospective longitudinal cohort study

08/2022 — Digital rehabilitation for wrist/hand pain: a single-arm prospective longitudinal cohort study

08/2022 — Digital care programmes for chronic hip pain: a prospective longitudinal cohort study

07/2022 — Digital rehabilitation for elbow pain: a prospective longitudinal cohort study

11/2022 — Long-term clinical outcomes of a remote digital musculoskeletal programme: an ad hoc analysis from a longitudinal study with a non-participant...

12/2022 — Impact on productivity impairment of a digital care programme for chronic low back pain: a prospective longitudinal cohort study

07/2022 — Impacts of digital care programmes for musculoskeletal conditions on depression and work productivity: longitudinal cohort study

10/2022 — Fear-avoidance behaviours in musculoskeletal conditions: insights from a longitudinal cohort study on digital care programmes

01/2023 — Sleep disturbance in musculoskeletal conditions: impact of a digital care programme

06/2023 — Asynchronous technology-assisted rehabilitation in Musculoskeletal Care: A Systematic Review

10/2022 — Engagement and clinical outcomes of digital musculoskeletal care programmes in different racial and ethnic backgrounds

03/2023 — Engagement and utilisation of a remote digital care programme for musculoskeletal pain management in rural and urban areas across the United States

08/2023 — Managing musculoskeletal pain in older adults through a digital care solution: a secondary analysis of a prospective clinical study

09/2023 — The potential of a multimodal digital care programme in addressing healthcare inequities in musculoskeletal pain management

01/2024 — Digital Care Programme for Urinary Incontinence in Females: A Large-Scale, Prospective, Cohort Study

Legend:
- Technological validation
- Controlled trials
- Real World Evidence
- Behavioural Health
- Thought Leadership
- Health Equity
- Women's health