



RoboTrainer *Evidence Dossier*

RANDOMIZED CLINICAL TRIAL - ONGOING

Jensen J.S., Sørensen A.S., Kruuse C. et al. (2024). *Robot-assisted vs. standard training in subacute ischemic stroke (RoboRehab)*. BMC Neurology, 24:233.

BIOMECHANICAL VALIDATION

Jensen J.S. et al. (2024). *Acute effects of body-weight unloading on overground walking*. J. Biomech., 162:111862.

Jensen J.S. et al. (2025). *Sit-to-stand and stair-walking with dynamic body-weight unloading*. J. Biomech., 191:112891.

CLINICAL INTEGRATION / HCI

De La Rosa Gutierrez J.P. et al. (2025). *Therapist-robot collaboration in gait rehabilitation*. Int. J. HCS, 206:103620.

De La Rosa Gutierrez J.P. et al. (2024). *Design goals for end-user development of robot-assisted training*. Proc. ACM HCI, 8(EICS):258.

FOUNDATIONAL RESEARCH

Sørensen A.S. et al. (2016). *Low-cost modular robotic system for neurological rehabilitative training*. IEEE ICIT.

Sørensen A.S., Rasmussen G. (2018). *RoBody interaction: kinesthetic HRI*. IEEE RO-MAN.

PATENT

EP 3936 197 A1

Granted June 2025 (EPO · UK · NO · ES)

INSTITUTIONAL

Invited proceedings, The Royal Society, London (2020).

DOCUMENTED OUTCOMES

Chronic stroke (Royal Society 2020): wheelchair → walking at 15 weeks → independent stair-climbing at 14 months.

ECONOMICS

Unit \$20,000 · session ~£100 · 4-7× below incumbents.

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Jonas — independent RoboTrainer user.

700 m → 3 km in 8 months.