

ARTIC – International Lokomat Database



Background: Feasibility of gait restoration using the robotic driven gait orthosis Lokomat has been investigated in the rehabilitation of children with central gait impairments. However, evidence as well as the optimal training setup as frequency, duration, velocity and dose dependency needs further research. There is a lack of knowledge regarding indications, age, severity and possible combinations with other therapy options like medication, orthopaedic surgery or augmented feedback/ virtual reality training systems. Research questions are so numerous that they are addressed by a multi-centre approach, which also allows comparing different therapeutical settings.

Goal

- Installation and maintenance of a clear, structured, global and safe online database
- Collection and storage of anonymous patient- and training data of multiple centres that can be statistically analysed
- Consolidated findings about treatment outcome, optimal indications and therapeutical application of robotic assisted gait training

Project onset

January 2009

Project members

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Sponsor

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- Vontobelstiftung Zurich, Switzerland
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Cooperating Partners

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- Spaulding Rehabilitation Hospital Boston, USA
- Shepherd Center Chicago, USA
- Rehabilitation Institute of Chicago, USA
- Helios Klinik Zihlschlacht, Switzerland
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