Comparison of the lab-based measurement of static and dynamic balance ability and corresponding clinical assessments in patients with multiple sclerosis

Trial registration number:	BASEC Nr. 2023-01935
Duration:	2024 - indefinite
Status:	ongoing
Contributor:	Dr. rer. nat. Frank Behrendt
External collaborator:	Jonas Freiermuth – ETH Zurich Laurin Bachmann – University of Basel
Contact:	f.behrendt@reha-rhf.ch
Funding:	Reha Rheinfelden
Publication:	not yet available
Short summary:	Gait and balance problems are frequent in MS patients from an early stage after diagnosis, which highlights the need for in-depth knowledge and efficient, precise methods to quantify these impairments. Several functional and technology-based assessments are available to evaluate static and dynamic balance abilities. However, many studies fail to make a clear distinction between static and dynamic balance, or to consider their relationship. This pilot study aims to evaluate the relationship between static and dynamic balance parameters in MS patients, as calculated from in-lab 3D gait analysis data, and to compare these with commonly used functional balance assessments.