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(1) Evaluation of fall risk among hemiplegic post-stroke patients.

The aim of this study is to evaluate the sit-to-stand movement among hemiplegic post-stroke patients, using optical motion capture. From this data biomechanical parameters linked to fall risk will be extracted to evaluate which patients are more prone to falling. The biomechanical measures will be compared to clinical measures. This will result in a more valid fall risk screening in the clinical settings.

Further, an ankle-foot orthosis will be tested to evaluate the influence on fall risk among patients. The results will contribute to the knowledge about the ankle-foot orthosis as an aid to reduce fall risk.

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