Supplementary file 2: Linear regression analyses using GaitSmart® domains

In addition to the individual GaitSmart® parameters, the five underlying domains identified: GS Knee, GS Hip, GS Difference knee, GS Difference stance, and GS Difference hip, were also used for linear regression analyses.

In the regression models with GaitSmart® domains as independent variables, the following interaction terms were also added to explore synergistic effects:

Interaction 1: GS Knee*GS Hip

Interaction 2: GS Hip*GS Difference hip

Interaction 3: GS Knee*GS Difference knee

Modelling started with a 'full model' including all (possible) predictors and interaction terms. Then all predictors with a p-value >0.2 were removed from the model, starting with the least significant variable. In case the adjusted R² diminished relevantly, the variable was retained in the prediction model. If interactions were relevant predictors, the individual parameters of these interactions were retained as well.

Table S2. Linear regression analysis for subjective function (adjusted R² 0.121)

Independent variable	B (unstand.)	95%CI		Beta (stand.)	p-value
Constant	.010	101	.121		.863
GS Hip	.228	.117	.338	.230	.000
GS Knee	.265	.154	.375	.268	.000
GS Difference stance	086	202	.030	.083	.147

GS: GaitSmart®

Table S3. Linear regression analysis for objective function (adjusted R² 0.227)

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Independent variable	B (unstand.)	95%CI		Beta (stand.)	p-value
Constant	.026	075	.126		.616
GS Hip	.411	.311	.512	.431	.000
GS Knee	.221	.121	.321	.231	.000
GS Difference hip	048	149	.052	051	.343
GS Hip*GS Difference hip	085	183	.012	093	.087

GS: GaitSmart®

Table S4. Linear regression analysis for total function (adjusted R² 0.316)

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Independent variable	B (unstand.)	95%CI		Beta (stand.)	p-value
Constant	.024	074	.121		.630
GS Hip	.444	346	.541	.452	.000
GS Knee	.345	.248	.442	.351	.000
GS Difference stance	072	175	.031	070	.169
GS Difference hip	057	154	.040	058	.248
GS Hip*GS Difference hip	080	175	.016	084	.101

GS: GaitSmart®