## 1 Supplement Figure legends

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- 3 Suppl. Figure 1 Bland-Altman diagram of the prediction accuracy of the multiple linear regression

4 Bland-Altman diagram of the prediction accuracy of the multiple linear regression to predict mGS in

- 5 females (A) and males (B) were presented.
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7 Suppl. Figure 2

- 8 In order to visualize the presented multivariable reference centiles for females more clearly,
- 9 averaged "projections" were generated for fixed ranges for height and BMI and compared with the
- 10 classic, only sex- and age-adjusted, reference centiles (details see Methods).
- 11 The range of the centiles for height and BMI was given in the title of each subfigure.
- 12 The X-axis represents age, and the Y-axis represents maximum grip strength.
- 13
- 14 Suppl. Figure 3
- 15 In order to visualize the presented multivariable reference centiles for males more clearly, averaged
- 16 "projections" were generated for fixed ranges for height and BMI and compared with the classic, only
- 17 sex- and age-adjusted, reference centiles (details see Methods).
- 18 The range of the centiles for height and BMI was given in the title of each subfigure.
- 19 The X-axis represents age, and the Y-axis represents maximum grip strength.

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21 Suppl. Figure 4

22	Reference centiles for the change of mGS z-scores for females were presented in A for mGS z-scores
23	which were sex- and age-adjusted and in B which were sex-, age-, height- and BMI-adjusted.
24	Reference centiles for the change of mGS z-scores for males were presented in C for mGS z-scores
25	which were sex- and age-adjusted and in D which were sex-, age-, height- and BMI-adjusted.
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27	Suppl. Figure 5
28	The solid line represents the false positive classification rate having a low mGS, using only sex- and
29	age-adjusted z-scores. The dashed line represents the false negative classification rate having a low
30	mGS, using only sex- and age-adjusted z-scores. The X-axis represents the sum of the age-adjusted z-
31	scores for height and BMI.
32	The false positive classification rate increased with decreasing z-scores for height and BMI.
33	The false negative classification rate increased with increasing z-scores for height and BMI.
34	For further details s. Methods and Discussion.
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36	Suppl. Figure 6
37	In each subfigure the 10 <sup>th</sup> , 50 <sup>th</sup> and the 90 <sup>th</sup> centile were given.
38	In subfigure A and B our sex- and age- adjusted reference centiles for mGS were compared with
39	those of Dodds et al. In subfigure C and D our reference centiles were compared with those of
40	Ploegmakers et al. In subfigure E and F our reference centiles were compared with those of Kocher et
41	al.
42 43	