

Supplementary materials

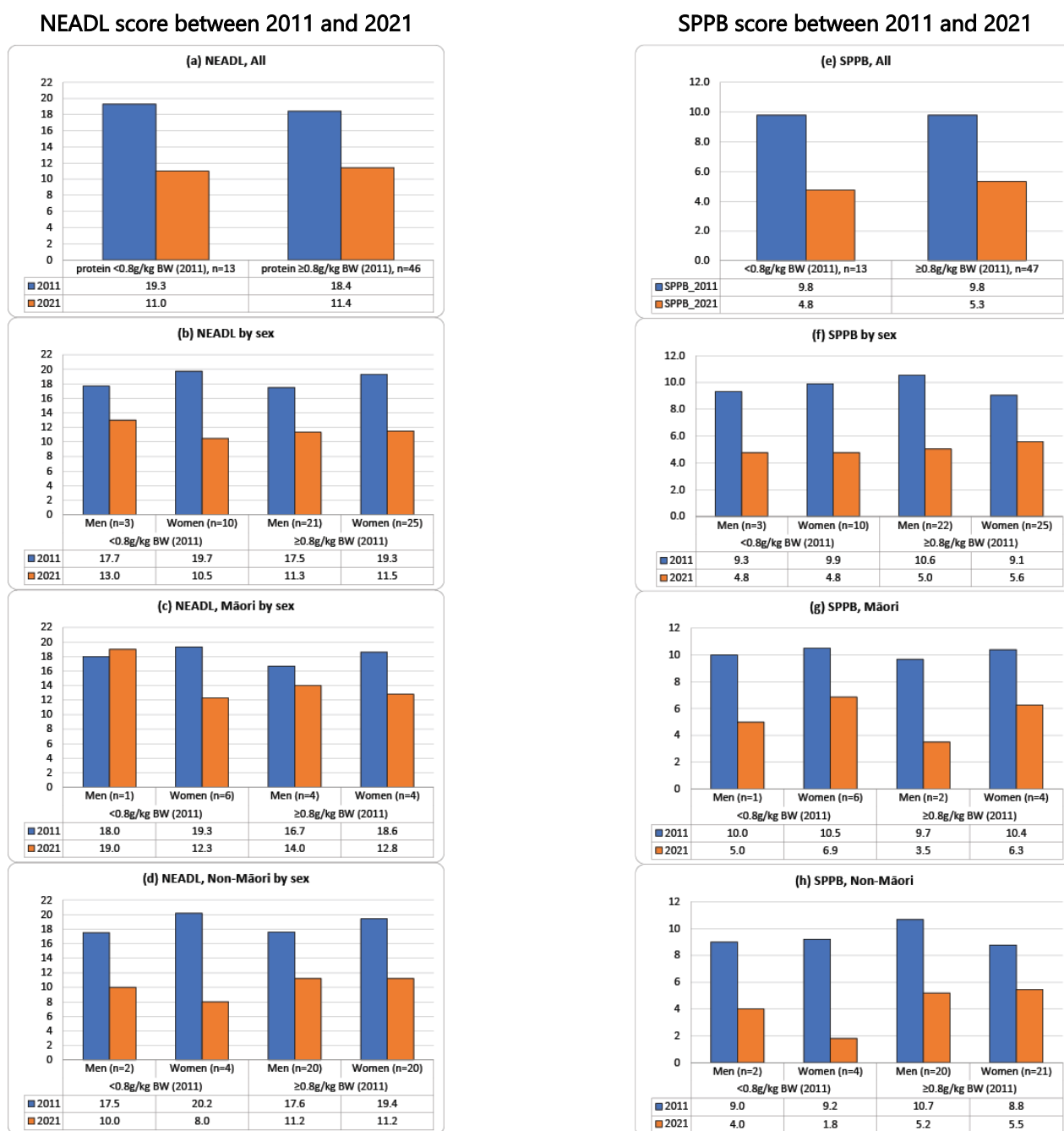


Figure S1. Trend in 2021 NEADL and SPPB scores in Relation to Adequacy of Protein Intake in 2011

NEADL= Nottingham Extended Activities of Daily Living, SPPB = Short Physical Performance Battery

Note – adequacy of protein intake is measured against meeting NZ RDI for protein ≥0.8g/kg BW/day at 2011.

(a) Trend in NEADL score between 2011 and 2021 based on protein intake adequacy in all participants; (b) Trend in NEADL score between 2011 and 2021 based on protein intake adequacy in all participants by gender; (c) Trend in NEADL score between 2011 and 2021 based on protein intake adequacy in Māori participants; (d) Trend in NEADL score between 2011 and 2021 based on protein intake adequacy in Non-Māori participants; (e) Trend in SPPB score between 2011 and 2021 based on protein intake adequacy in all participants; (f) Trend in SPPB score between 2011 and 2021 based on protein intake adequacy in all participants by gender; (g) Trend in SPPB score between 2011 and 2021 based on protein intake adequacy in Māori participants; (h) Trend in SPPB score between 2011 and 2021 based on protein intake adequacy in Non-Māori participants.

Table S1 – GLM Models - Relationship Between 2021 NEADL Score and 2011 Protein Intake in all Participants

<u>Variables</u>	<u>B (95% CI), P-value</u>	
	<u>Model 1</u>	<u>Model 2</u>
Protein intake 2011 (g/kg BW/day) ^a	1.694 (-3.732 - 7.119), 0.541	2.461 (-1.806 - 6.729), 0.258
Age, years		0.501 (-0.340 - 1.341), 0.243
Gender (ref: Women)		1.156 (-1.329 - 3.642), 0.362
Ethnicity (ref: Māori)		-3.446 (-6.818 - -0.074), 0.045*
NZ deprivation index - low (ref: High) ^a		0.679 (-2.454 - 3.812), 0.671
NZ deprivation index - medium (ref: High) ^a		-4.035 (-6.804 - -1.266), 0.004*
Who do you live with (ref: With others)		6.304 (3.859 - 8.749), <0.001*

^a NZ Deprivation index: Low – status 1-3, Middle – status 4-7, High – status 8-10

*Statistically significant at p<0.05

Table S2 - GLM Models - Relationship Between 2021 SPPB Score and 2011 Protein Intake in all Participants

<u>Variables</u>	<u>B (95% CI), P-Value</u>	
	<u>Model 1</u>	<u>Model 2</u>
Protein intake 2011 (g/kg BW/day) ^a	0.1808 (-2.210 - 3.827), 0.600	0.117 (-2.879 - 3.113), 0.939
Age, years		0.207 (-0.416 - 0.830), 0.515
Gender (ref: Women)		-0.303 (-2.114 - 1.508), 0.743
Ethnicity (ref: Māori)		-1.758 (-4.269 - 0.752), 0.170
NZ deprivation index - low (ref: High) ^a		-0.678 (-2.946 - 1.591), 0.558
NZ deprivation index - medium (ref: High) ^a		-0.576 (-2.616 - 1.464), 0.580
Who do you live with (ref: With others)		1.645 (-0.110 - 3.400), 0.066

^a NZ Deprivation index: Low – status 1-3, Middle – status 4-7, High – status 8-10.

*Statistically significant at p<0.05