

Supplementary materials

Nutritional, Health and Lifestyle Status of a Highly Physically Active and Health-Conscious Long-Term Vegan Man: A Case Report from Slovenia

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Table S1. Body fat distribution and topographic BMD.

Parameter	AF (%)	GF (%)	A/G ratio	BMD legs (g/cm ²)	BMD pelvis (g/cm ²)	BMD spine (g/cm ²)	BMD arms (g/cm ²)	BMD head (g/cm ²)
Result	11.9	15.2	0.8	1.6	1.25	1.1	1.3	2.6

AF: android fat. GF: gynoid fat. A/G ratio: android/gynoid. BMD: bone mineral density.

Table S2. Intake of food groups.

7-day DR	1	2	3	4	5	6	7	Average
<i>Conventional Food groups (g)</i>								
Grains - all	381	523	528	554	447	654	550	520
Grains - oat flakes	200	363	405	216	238	373	165	280
Fruits - all	522	539	523	322	456	614	341	474
Fruits - berries	95	95	95	125	131	147	111	114
Legumes - all [†]	165	155	0	256	316	272	133	185
Legumes - soy [†]	75	55	0	42	200	25	0	57
Soy milk	0	0	500	300	300	500	200	260
Vegetables - all	390	354	309	339	532	313	238	354
Veg. - cruciferous & green leafy	230	321	0	156	296	279	172	208
Potatoes/tubers	860	150	508	120	577	0	120	336
Seeds - all	59	59	76	60	66	67	81	67
Seeds - flaxseeds	50	50	58	49	48	49	58	52
Nuts - all ^{†‡}	32 ^{††}	63	58	38	62	45	49	50
Nuts - walnuts	30	30	28	38	31	18	28	29
Spices/herbs [#]	18	13	21	60	72	40	36	37
High-fat foods [‡]	0	12	12	12	21	27	115	28
Mushrooms	0	130	0	0	0	0	0	19
Iodized salt	4.1	4.1	2.7	4.6	4.1	3.4	3.9	3.8
<i>Supplementations</i>								
Vegan MR	32	64	64	32	64	64	64	55
Vitamin B ₁₂ (1000 µg/d)	1	0	0	1	0	0	1	-
Omega-3 (EPA and DHA)	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
Vitamin D ₃ (4000 IU/d)	1	1	1	1	1	1	1	1

Fiber supplements (g/d)	5	5	5	5	5	5	5	5
Multivitamins (tablets/d)	1	1	1	1	1	1	1	1
Herbal tea (dL) ⁱ	8	8	8	8	8	8	8	8
Sport drink (portion) ⁱⁱ	1	0	0	0.5	0.5	0	0.5	0.5

ⁱSoy milk excluded. ⁱⁱBrazil nut (2 g). ⁱE.g., low-fat cocoa powder or avocado. ⁱⁱDry and raw. ⁱFilter and as tea extract. ⁱⁱPortion size (27 g).

Table S3. Example of meal plan and lifestyle.

Meal plan and lifestyle	WEEKDAY	Meal plan and life-style	WEEKEND
Wake up (5:00)	4000 IU vitamin D ₃ 1.7 g herbal tea extracts <i>Shake mix</i> water + 32 g MR + 197 g oat flakes + 48 g flaxseeds + 11 g unshelled sesame seeds + 9 g paddy millet + 62 g blueberries + 42 g raspberries + 39 g dates + 2 g brasíl nut + herbs/spices (2.7 g curcumin + 0.7 g ginger + 0.9 g cinnamon + 0.3 g cayenne pepper) 1 tbl multivitamin, 625 mg EPA + DHA + 1000 µg vitamin B ₁₂	Wake up (7:20)	4000 IU vitamin D ₃ 1.7 g herbal tea extracts <i>Shake mix</i> water + 32 g MR + 155 g oat flakes + 48 g flaxseeds + 13 g unshelled sesame seeds + 10 g paddy millet + 56 g blueberries, 44 g strawberries + 39 g dates + 2 g brasíl nut + herbs/spices (2.7 g curcumin + 0.7 g ginger + 0.9 g cinnamon + 0.3 g cayenne pepper) 1 tbl multivitamin + 625 mg EPA + DHA
BREAKFAST (6:00)	<i>Pasta with lentil</i> 170 g raw wheat whole grain pasta + 110 g raw red lentil + 95 g raw broccoli + 20 g soy medallions + herbs/spices (0.6 g curcumin + 0.3 g cayenne pepper + 0.3 g basil + 0.3 g chili + 10 g parsley) + 2 g nori algae + 2 g iodized salt	BREAKFAST (7:40)	i.e., 400 m differences in altitude average speed 5.9 km/h
Hydration (7:00, 9:00)	2dL thyme and 3 dL peppermint tea <i>Pasta with lentil</i> 170 g raw wheat whole grain pasta + 110 g raw red lentil + 95 g raw broccoli + 20 g soy medallions + herbs/spices (0.6 g curcumin + 0.3 g cayenne pepper + 0.3 g basil + 0.3 g chili + 10 g parsley) + 2 g nori algae + 2 g iodized salt	Hydration (10:00)	2 dL thyme and 3 dL peppermint tea
MORNING SNACK (10:00)	2 dL thyme and 3 dL peppermint 1.7 g herbal tea extracts <i>Brownie</i> 152 g raw beans + 42 g apple + 37 g dried dates + 20 g raw oat flakes + 18 g raw raspberries 12 g low-fat cocoa powder + 0.2 dL unsweetened soy milk 14 g sport drink + 3 dL water	Uphill hiking (10:00-12:00)	2 dL thyme and 3dL peppermint 1.7 g herbal tea <i>Mixed salad</i> 75 g potatoes + 70 g endive + 80 g broccoli + 60 g tofu + 65 g tomato + 30 g walnut + 10 g red onion + 15 g vinegar + 2.1 g iodized salt <i>pancakes</i> 105 g spelt whole-grain flour + 75 g dates + 190 g apple + 12 g low-fat cocoa powder + 0.5 g iodized salt
Hydration (10:30, 12:30)	Hydration (12:00, 14:00)		
BEFORE WORKOUT MEAL (14:30)	LATE (RECOVERY) SNACK (12:15)		
Resistance workout (16:00-17:00)	free weight, own body weight, stretching	Hydration (16:00)	Herbal tea
AFTER WORKOUT MEAL (17:15)	<i>Shake</i> water + 32 g MR	LATE LUNCH (16.50)	<i>Buckwheat porridge with mushrooms</i>

	<i>Mixed salad</i> 860 g raw potatoes + 65 g endive + 75 g raw broccoli + 100 g tofu (55 g roasted) + 70 g tomato + 30 g walnut + 5 g red onion + herbs/spices (0.9 g curcumin + 0.2 g basil + 0.1 g chili) + 20 g vinegar + 2.1 g iodized salt	170 g buckwheat + 130 g mushroom + 100 g peas + 60 g soya tofu + 33 g non-oiled and non-salted raw peanut + 10 g red onion + 2 g nori algae + herbs/spices (1.2 g curcumin + 0.4 g cayenne pepper + 0.1 g chili + 10 g parsley) + 2 g iodized salt 121 g beetroot salad
DINNER (18:40)	<i>Broccoli soup with buckwheat porridge</i> 200 g raw broccoli + 160 g raw buckwheat porridge + 75 g tomato + herbs/spices (5 g red onion + 2 g garlic + 0.8 g rosemary + 10 g parsley, 0.7 g curcumin + 0.3 g cayenne pepper + 0.1 g chili)	Hydration (19:00) 3 dL water
Hydration (20:00)	3 dL water	DINNER (19:30) <i>Shake mix</i> 32 g MR + 2 dL unsweetened soya milk + 200 g oat flakes + 10 g flaxseeds + 5 g unshelled sesame seeds + 8 g paddy millet
Sleep (21:30-4:00)	Energy and macronutrients (foods only) Energy: 4338 kcal, CHO: 691 (64%), fiber: 118 g (5%), fat: 90 g (19%), protein: 132 g (12%)	Sleep (21:30-5:50) Energy: 4355 kcal, CHO: 622 (57%), fiber: 135 g (6%), fat: 105 g (22%), protein: 163 g (15%)

[†]SMR = dietary supplements and (vegan) meal replacement. IU = international units. tbl = tablet. Raw = raw weighted. Cooked = cooked weighted. Breakfast (i.e., shake mix) and mixed salad was prepared raw (except potatoes and tofu (roasted)). Macronutrients content of SMR: MR (32 g): energy: 127 kcal, carbohydrate (CHO): 11 g, fiber: 5.8 g, fat: 3 g, protein: 11 g, EPK + DHK = 6 g, sport drink (14 g): energy: 48 kcal, CHO: 12 g, herbal tea extracts: energy: 6 kcal, CHO: 1.5 g. Habitual PA (e.g., housework) in low, moderate or vigorous-intensity are not included in the table.