

Supplementary materials

Supplementary Table A1. Variables associated with MusiQoL

	MusiQoL index	ADL	pWB	SpT	RFriends	RFamily	SSL	COp	Reject	RHealth
Variables	Mean (SD)/r									
Age	r = -0.400 p < 0.001	r = -0.598 p < 0.001	r = -0.181 p = 0.138	r = -0.159 p = 0.174	r = -0.389 p = 0.001	r = -0.311 p = 0.007	r = -0.187 p = 0.141	r = -0.059 p = 0.616	r = -0.162 p = 0.166	r = -0.126 p = 0.019
Gender										
Male	74.88 (14.9)	64.95 (28.7)	70.39 (17.2)	80.92 (18.1)	30.26 (27.1)	82.89 (23.3)	70.39 (30.1)	88.81 (19.5)	92.76 (18.3)	92.55 (13.3)
Female	72.28 (14.2) p = 0.454	63.95 (24.3) p = 0.524	40.62 (18.90) p < 0.001	79.01 (16.5) p = 0.502	51.78 (32.7) p = 0.014	86.90 (15.5) p = 0.730	66.59 (29.4) p = 0.497	79.68 (20.0) p = 0.046	87.27 (21.3) p = 0.256	91.51 (11.2) p = 0.612
BMI										
Normal	78.22 (11.9)	70.10 (26.5)	50.00 (21.8)	83.75 (17.2)	60.00 (30.7)	94.17 (11.6)	74.58 (25.1)	85.00 (17.8)	92.50 (16.9)	93.88 (9.7)
Overweight	71.79 (13.2)	62.49 (23.9)	48.75 (23.3)	80.00 (17.3)	36.90 (29.1)	79.76 (19.7)	69.28 (28.8)	85.71 (17.7)	91.78 (16.8)	91.42 (12.7)
Obese	56.19 (15.1) p = 0.010	48.26 (20.8) p = 0.006	36.80 (20.1) p = 0.23	61.11 (17.6) p = 0.012	31.48 (33.8) p = 0.005	80.55 (16.7) p = 0.006	32.82 (27.5) p = 0.392	58.33 (23.4) p = 0.002	62.50 (279) p = 0.003	86.11 (11.6) p = 0.013
Marital status										
Single/divorced/widowed	70.42 (20.9)	61.50 (30.4)	60.00 (29.9)	75.25 (20.8)	44.33 (38.6)	83.00 (20.6)	53.64 (39.9)	82.00 (25.0)	78.50 (27.1)	91.00 (13.8)
married	74.16 (9.8) p = 0.217	65.55 (22.6) p = 0.021	43.86 (17.6) p = 0.020	81.62 (14.3) p = 0.966	47.33 (29.6) p = 0.451	87.33 (16.1) p = 0.518	74.25 (19.9) p = 0.658	82.00 (17.5) p = 0.990	93.75 (14.1) p = 0.154	92.16 (10.6) p = 0.329
Employment										
Not employed	69.46 (13.4)	58.78 (26.7)	42.57 (20.0)	76.69 (17.1)	44.44 (32.3)	83.68 (16.3)	60.90 (28.5)	79.16 (20.8)	85.93 (20.4)	89.58 (12.9)
Employed	79.04 (14.1) p = 0.001	73.8 (19.4) p = 0.016	58.10 (23.6) p = 0.001	84.49 (15.5) p = 0.034	49.69 (33.5) p = 0.464	89.81 (19.6) p = 0.047	79.16 (27.7) p = 0.002	87.03 (18.2) p = 0.081	93.51 (20.3) p = 0.013	95.67 (7.8) p = 0.059
Monthly income										
≤ 2 million LBp	68.13 (14.8)	58.50 (28.1)	48.09 (22.5)	75.00 (18.0)	36.23 (30.8)	81.88 (19.1)	58.33 (31.5)	81.25 (22.0)	82.06 (23.8)	88.60 (13.0)
> 2 million LBp	80.42 (9.7) p < 0.001	73.26 (16.9) p = 0.036	48.27 (23.0) p = 0.887	86.63 (12.0) p = 0.006	62.35 (29.3) p = 0.001	92.24 (13.1) p = 0.014	81.89 (18.4) p = 0.001	83.18 (17.1) p = 0.986	99.13 (4.6) p < 0.001	96.83 (6.5) p = 0.006
Education (university)										
No	69.08 (14.3)	58.50 (28.0)	48.09 (22.5)	75.00 (18.0)	36.23 (30.8)	81.88 (19.1)	58.33 (31.5)	81.25 (22.0)	82.06 (23.8)	88.58 (13.1)
Yes	82.72 (9.1) p < 0.001	73.26 (16.9) p = 0.003	48.32 (23.0) p = 0.808	86.63 (12.0) p = 0.294	62.35 (29.3) p < 0.001	92.24 (13.2) p < 0.001	81.89 (18.5) p = 0.001	83.19 (17.1) p = 0.285	99.14 (4.6) p = 0.180	96.84 (6.5) p = 0.081
Cigarette smoking										
No	74.87 (12.8)	66.42 (26.4)	45.90 (20.1)	79.20 (15.9)	52.12 (32.7)	88.48 (15.5)	71.52 (27.3)	83.63 (17.9)	91.13 (16.4)	91.81 (11.8)
Yes	67.76 (17.2) p = 0.080	58.11 (21.5) p = 0.100	54.37 (27.7) p = 0.123	80.31 (19.6) p = 0.460	30.41 (27.1) p = 0.010	78.75 (21.5) p = 0.061	56.87 (32.8) p = 0.064	77.50 (25.2) p = 0.485	81.87 (28.5) p = 0.354	91.66 (11.5) p = 0.913
Water pipe smoking										
No	70.49 (15.7)	58.14 (27.1)	46.32 (23.1)	81.00 (17.3)	44.93 (31.7)	82.67 (18.9)	60.50 (30.4)	81.12 (21.8)	86.03 (23.5)	90.36 (12.5)
Yes	87.17 (9.5) p = 0.850	78.53 (13.1) p = 0.010	52.44 (21.7) p = 0.645	75.81 (15.9) p = 0.245	48.55 (35.6) p = 0.758	92.39 (12.8) p = 0.077	82.61 (21.2) p = 0.223	84.24 (16.5) p = 0.111	94.02 (10.6) p = 0.491	94.92 (9.3) p = 0.123

BMI — body mass index; LBp — Lebanese pound; ADL — activities of daily living; pWB — psychological wellbeing; SpT — symptoms; RFriends — relationships with friends; RFamily — relationships with family; SSL — sentimental and sexual life; Cop — coping; Reject — rejection; RHealth — relationship with healthcare system. The $p < 0.05$ is indicated in bold

Supplementary Table A2. Variables associated with MusiQoL (*continuous*)

	MusiQoL index	ADL	pWB	SpT	RFriends	RFamily	SSL	COp	Reject	RHealth
Variables	Mean (SD)/r									
Consumption of alcohol										
No	73.10 (14.1)	63.72 (25.3)	47.50 (21.6)	80.12 (13.8)	46.02 (31.8)	85.36 (17.9)	67.10 (28.8)	83.27 (18.4)	88.73 (20.5)	91.78 (11.7)
Yes	70.79 (26.3)	69.79 (33.4)	62.50 (45.1)	64.24 (30.8)	55.5 (50.9)	91.92 (14.4)	58.79 (32.1)	62.50 (26.3)	83.33 (28.9)	88.89 (12.7)
	p = 0.211	p = 0.550	p = 0.447	p = 0.334	p = 0.583	p = 0.228	p = 0.564	p = 0.844	p = 0.777	p = 0.958
Intake of caffeinated drinks										
No	65.70 (17.3)	39.34 (34.6)	53.47 (13.6)	77.36 (20.0)	84.87 (20.2)	35.50 (36.7)	45.47 (35.4)	84.72 (21.4)	84.61 (17.4)	86.11 (16.7)
Yes	73.95 (13.8)	67.12 (21.9)	47.92 (23.5)	79.92 (16.5)	86.11 (17.5)	47.86 (32.0)	70.56 (27.5)	81.62 (20.12)	89.50 (21.1)	92.55 (10.7)
	p = 0.175	p = 0.033	p = 0.334	p = 0.882	p = 0.251	p = 0.828	p = 0.066	p = 0.534	p = 0.164	p = 0.130
Sport activity										
No	69.78 (14.1)	59.05 (25.9)	44.06 (18.9)	78.91 (16.8)	41.38 (29.0)	82.90 (18.4)	62.71 (30.7)	80.29 (20.5)	85.59 (22.2)	90.39 (12.3)
Yes	84.43 (8.3)	83.20 (8.8)	63.28 (28.3)	81.64 (17.3)	64.58 (39.1)	96.87 (8.5)	85.15 (13.8)	88.28 (17.9)	100.00 (0.0)	96.8 (7.3)
	p < 0.001	p < 0.001	p = 0.005	p = 0.488	p = 0.017	p = 0.003	p = 0.003	p = 0.130	p = 0.003	p = 0.040
Presence of physical comorbidity										
No	77.95 (13.1)	75.00 (18.9)	50.55 (23.7)	82.06 (16.4)	58.55 (32.32)	90.03 (16.8)	75.00 (28.7)	83.42 (20.0)	91.84 (18.5)	93.30 (10.2)
Yes	65.76 (12.9)	47.08 (25.0)	44.39 (20.4)	75.43 (17.0)	27.01 (22.4)	97.31 (17.3)	55.35 (26.6)	79.74 (20.4)	83.62 (22.9)	89.36 (13.5)
	p < 0.001	p < 0.001	p = 0.274	p = 0.069	p < 0.001	p = 0.005	p = 0.001	p = 0.413	p = 0.040	p = 0.191
Psychological disorder										
No	76.63 (12.6)	69.26 (23.5)	56.02 (19.5)	81.01 (16.2)	49.84 (33.4)	87.65 (17.2)	73.58 (26.0)	84.50 (18.3)	91.43 (18.5)	92.43 (10.4)
Yes	63.66 (14.6)	51.19 (25.7)	27.97 (16.7)	75.59 (18.1)	37.30 (29.3)	81.35 (8.6)	52.38 (32.5)	75.59 (23.4)	81.54 (24.2)	90.07 (14.6)
	p = 0.001	p = 0.004	p < 0.001	p = 0.147	p = 0.153	p = 0.152	p = 0.006	p = 0.125	p = 0.042	p = 0.803
Disease duration	r = -0.571	r = -0.688	r = -0.300	r = -0.168	r = -0.516	r = -0.404	r = -0.477	r = -0.181	r = -0.353	r = -0.352
	p < 0.001	p < 0.001	p = 0.009	p = 0.109	p < 0.001	p < 0.001	p < 0.001	p = 0.392	p = 0.009	p < 0.001
EDSS	r = -0.534	r = -0.749	r = 0.066	r = -0.232	r = -0.362	r = -0.358	r = -0.535	r = 0.075	r = -0.477	r = -0.417
	p < 0.001	p < 0.001	p = 0.597	p = 0.045	p = 0.001	p = 0.002	p < 0.001	p = 0.943	p < 0.001	p < 0.001
Number of relapses	r = -0.626	r = -0.707	r = -0.147	r = -0.272	r = -0.534	r = -0.388	r = -0.522	r = -0.057	r = -0.524	r = -0.267
	p < 0.001	p < 0.001	p = 0.208	p = 0.018	p < 0.001	p = 0.001	p < 0.001	p = 0.629	p < 0.001	p = 0.021
Incomplete recovery between relapses										
No	82.80 (8.7)	82.95(6.8)	56.43(23.9)	82.95(16.0)	59.8(32.0)	94.44(10.3)	84.84(18.2)	88.63(15.4)	98.10(6.3)	96.96(7.2)
Yes	65.02 (13.1)	49.47(24.8)	41.66(19.2)	76.78(17.2)	35.71(29.3)	79.16(19.4)	53.65(29.5)	76.78(22.0)	81.25(24.6)	87.69(12.9)
	p < 0.001	p < 0.001	p < 0.001	p = 0.117	p < 0.001	p < 0.001	p < 0.001	p = 0.018	p < 0.001	p < 0.001
DMTs										
Interferon beta	74.37 (14.5)	68.41 (23.9)	49.20 (23.2)	49.29 (33.3)	84.92 (18.2)	66.84(30.1)	66.84(30.1)	83.51(17.3)	91.22(18.4)	91.66±11.9
Fingolimod	73.39 (16.9)	60.93 (31.0)	48.95 (25.2)	56.25 (30.3)	93.75 (11.3)	75.00(33.3)	76.04(29.4)	76.04(29.4)	83.33(25.2)	90.27±12.2
Rituximab	67.63 (11.5)	52.06 (21.7)	44.16 (19.4)	26.66 (24.8)	81.66 (19.4)	63.33(25.6)	83.33(20.4)	83.33(20.4)	84.16(23.4)	93.33±11.4
Cladribine	81.94	87.50	50.00	83.33	100.00	75.00	62.50	100.00	100.00	91.66
	p = 0.240	p = 0.038	p = 0.896	p = 0.702	p = 0.039	p = 0.241	p = 0.553	p = 0.602	p = 0.440	p = 0.789

EDSS — expanded disability status scale; DMTs — disease modifying therapies; ADL — activities of daily living; pWB — psychological wellbeing; SpT — symptoms; RFriends — relationships with friends; RFamily — relationships with family; SSL — sentimental and sexual life; Cop — coping; Reject — rejection; RHealth — relationship with healthcare system. The p < 0.05 is indicated in bold