eTable 1 The number and percentage in the Chronic fatigue group and CFS (CDC) subgroup performing more than 1 SD poorer than the Healthy Control group or Normative data.

Neurocognitive measure	Chronic fatigue group (N=120)		CFS (CDC) subgroup (N=88)	
	HC	Normative data	HC	Normative data
Processing speed[1] (%)	37 (31)	46 (38)	27 (31)	36 (41)
Working memory[2] (%)	48 (40)	71 (60)	37 (42)	55 (63)
Cognitive inhibition[1] (%)	33 (28)	35 (29)	26 (30)	26 (30)
Total recall[3] (%)	36 (30)	37 (31)	29 (33)	29 (33)
BRIEF GEC[4] (%)	77 (65)	103 (87)	60 (68)	77 (88)

Normative data references:

[1] Delis D, Kaplan E,& Kramer, J.(2001) Delis-Kaplan Executive Function System (D-KEFS) (Norwegian version). Stockholm, Sweden: Pearson System.

[2] Wechsler, D. (2004). Wechsler Intelligence Scale for Children – Fourth edition (Norwegian version). Stockholm, Sweden: The Psychological Corporation.

[3] Holmèn A, Juuhl-Langseth M, Thormodsen R, et al. Neuropsychological Profile in Early-Onset Schizophrenia-Spectrum Disorders: Measured With the MATRIVS Battery. SchizophrBull2010;36(4):852-59.

[4] Hovik KJ, Egeland J, Isquith PK, et al. Distinct Patterns of Everyday Executive Function Problems Distinguish Children With Tourette Syndrome From Children With ADHD or Autism Spectrum Disorders. J Att Dis Published Online First 2014;DOI 10.1177/1087054714550336.

eTable 2 Multivariate analyses of the relations between cognitive measures as dependent variables and group allocation (CFS (CDC) subgroup vs. Healthy Controls), depression symptoms (MFQ), anxiety traits (STAI-T) and sleep index (KSQ) as independent variables.

Dependent variable	Regression	Independent variables	B (CI)	Beta	p-value	R^2
	Multivariate I	Group	2.8 (0.1, 5.5)	0.206	0.043	0.08
		MFQ	-0.06 (-0.2, 0.5)	-0.108		
Processing speed	Multivariate 2	Group	2.7 (-0.07, 5.5)	0.198	0.056	0.08
		STAI-T	-0.07 (-0.2, 0.1)	0.116	0.262	
	Multivariate 3	Group	4.0 (1.0, 7.1)	0.295	0.010	0.07
		KSQ	-0.3 (-1.5, 0.9)	-0.055	0.630	
	Multivariate I	Group	-2.2 (-3.7, -0.7)	-0.287	0.004	0.14
		MFQ	0.05 (-0.02, 0.1)	0.144	0.140	
Working memory	Multivariate 2	Group	-2.3 (-3.9, -0.8)	-0.301	0.003	0.14
		STAI-T	0.04 (-0.3, 0.1)	0.109	0.275	
	Multivariate 3	Group	-2.0 (-3.7, -0.3)	-0.256	0.020	0.14
		KSQ	-0.5 (-1.2, 0.2)	-0.161	0.140	
	Multivariate I	Group	5.9 (-1.0, 12.7)	0.174	0.093	0.04
		MFQ	-0.07(-0.4, 0.2)	-0.048	0.641	
CWIT Cognitive Inhibition	Multivariate 2	Group	5.2(-1.8, 12.2)	0.154	0.144	0.04
		STAI-T	-0.1(-0.5, 0.2)	-0.082	0.433	
	Multivariate 3	Group	5.8 (-1.9, 13.4)	0.172	0.136	0.04
		KSQ	0.6 (-2.5, 3.6)	0.041	0.723	
	Multivariate I	Group	-1.8(-3.5, -0.07)	-0.212	0.041	0.04
		MFQ	-0.01(-0.1, 0.06)	-0.029	0.779	
HVLT-R Total Recall	Multivariate 2	Group	-1.8(-3.5, -0.05)	-0.214	0.043	0.04
		STAI-T	-0.1(-0.09, 0.07)	-0.031	0.769	
	Multivariate 3	Group	-2.3(-4.2, 0.4)	-0.271	0.019	0.05
		KSQ	0.4(-0.4, 1.2)	0.117	0.310	
	Multivariate I	Group	10.1(5.9, 14.3)	0.437	<0.001	0.26
BRIEF Global Executive Composite		MFQ	-0.1(-0.3, 0.05)	-0.131	0.157	
	Multivariate 2	Group	8.8(4.5, 13.0)	0.380	<0.001	0.29
		STAI-T	-0.2(-0.4, -0.05)	-0.230	0.014	
	Multivariate 3	Group	8.5(3.8, 13.2)	0.367	<0.001	0.28
		KSQ	2.0(0.1, 3.9)	0.213	0.039	