

Table 1. Demographic and clinical characteristics of participants

	pSS group	Control group	p value
Age (years)	54.11 ± 6.57	53.21 ± 6.74	0.583
Weights (kg)	78.05 ± 14.34	78.79 ± 11.25	0.948
Heights (cm)	159.58 ± 5.20	158.79 ± 5.29	0.441
Body mass index	30.65 ± 5.46	31.36 ± 5.01	0.671
Depression	10.05 ± 3.09	4.47 ± 2.29	0.0001
Anxiety	8.26 ± 4.28	3.79 ± 2.42	0.0001
Fatigue	37.69 ± 5.47	17.69 ± 5.26	0.0001
Functional disability	0.94 ± 0.78	0.22 ± 0.26	0.0001

pSS: primary Sjogren Syndrome

Table 2. Muscle ultrasound measurements of pSS patients and healthy controls (mean \pm SD)

	Dominant leg			Non-dominant leg		
	pSS patients	Healthy control	p value	pSS patients	Healthy control	p value
R. femoris thickness	12.15 \pm 1.60	12.07 \pm 2.50	.838	11.78 \pm 2.17	11.73 \pm 2.31	.872
Vastus medialis						
Muscle thickness (mm)	12.49 \pm 2.02	12.45 \pm 1.73	.977	12.64 \pm 1.89	12.07 \pm 1.73	.350
Pennation angle (deg)	10.26 \pm 3.63	14.15 \pm 6.36	.049	10.32 \pm 3.45	11.79 \pm 4.20	.170
Fascicle length (mm)	80.78 \pm 39.05	60.77 \pm 22.52	.112	78.47 \pm 29.41	66.79 \pm 26.10	.199
Vastus lateralis						
Muscle thickness (mm)	14.17 \pm 1.55	13.58 \pm 1.92	.189	13.66 \pm 1.70	13.15 \pm 2.33	.456
Pennation angle (deg)	13.11 \pm 3.53	14.84 \pm 4.02	.176	12.95 \pm 3.32	14.21 \pm 4.12	.345
Fascicle length (mm)	66.41 \pm 16.53	55.03 \pm 14.84	.082	64.54 \pm 17.46	56.85 \pm 16.89	.274
Vastus intermedius						
Muscle thickness (mm)	10.45 \pm 2.32	9.92 \pm 1.64	.422	10.55 \pm 2.25	10.70 \pm 2.07	.942
Pennation angle (deg)	7.84 \pm 4.86	5.84 \pm 3.06	.099	7.68 \pm 3.40	7.32 \pm 4.11	.669
Fascicle length (mm)	89.92 \pm 39.36	114.92 \pm 42.36	.073	90.32 \pm 34.06	96.62 \pm 41.86	.649
GC. Medialis thickness (mm)	15.65 \pm 1.89	15.22 \pm 2.64	.759	15.82 \pm 2.45	15.77 \pm 2.73	1.000
GC. Lateralis thickness (mm)	11.93 \pm 1.48	11.76 \pm 1.76	.965	12.18 \pm 1.95	12.61 \pm 2.13	0.465
Soleus thickness (mm)	13.91 \pm 1.34	13.55 \pm 1.47	.599	13.97 \pm 1.62	13.12 \pm 1.63	0.965

pSS: primary Sjogren Syndrome, R. femoris: Rectus femoris, GC: Gastrocnemius

Table 3. Isokinetic muscle strength measurements of pSS patients and healthy control

Variable	Velocity	Peak torque/body weight (Nm/kg)			Work		
		pSS patients	Control	p value	pSS patients	Control	p value
Dominant Leg							
Knee extension	60	63.11±20.16	57.95±24.09	0.357	-	-	
	180	25.32±14.10	27.42±19.37	0.930	435.41±161.83	483.89±315.08	0.882
Knee flexion	60	37.42±10.97	36.47±15.01	0.826			
	180	23.33±9.90	23.68±12.96	0.878			
Ankle DF	30	18.32±6.32	14.53±5.85	0.104			
	120	16.42±5.95	14.89±7.34	0.426			
Ankle PF	30	39.53±16.57	37.79±17.02	0.977			
	120	13.74±8.56	15.16±10.07	0.713	116.82±64.58	154.71±108.94	0.524
Nondominant leg							
Knee extension	60	58.74±26.93	62.47±29.53	0.693			
	180	25.05±11.03	30.16±18.07	0.421	429.88±230.99	591.83±359.67	0.276
Knee flexion	60	37.17±14.67	37.84±18.60	0.843			
	180	20.50±5.93	26.00±14.22	0.382			
Ankle DF	30	10.67±5.93	10.05±4.55	0.839			
	120	9.79±3.29	9.79±3.65	0.890			
Ankle PF	30	38.05±14.39	36.11±14.01	0.883			
	120	15.16±6.82	15.37±9.16	0.895	124.56±74.50	144.17±90.47	0.447

pSS: primary Sjogren Syndrome, DF: dorsiflexion, PF: plantar flexion

Table 4. Correlation between disease activity, fatigue, anxiety, depression and isokinetic muscle strength measurements in patients with pSS

Variable	Velocity	ESSPRI	Fatigue	Anxiety	Depression
		r	r	r	r
Dominant Leg					

Knee extension	60	-.572*	-.157	-.081	.122
	180	-.617*	-.459	-.294	.277
Knee flexion	60	-.492*	-.174	-.031	.377
	180	-.289	.030	.255	.292
Ankle DF	30	-.266	-.171	-.124	.305
	120	-.092	.006	.161	.307
Ankle PF	30	-.700*	-.450	.000	.273
	120	-.531	-.484*	.143	.177
Knee work		-.730*	-.603*	-.109	.515*
Ankle work		-.519*	-.372	.154	.206
Nondominant leg					
Knee extension	60	-.575*	-.335	-.058	.289
	180	-.508*	-.521*	-.195	.076
Knee flexion	60	-.456	-.585*	.004	.337
	180	-.319	-.277	-.086	.007
Ankle DF	30	-.142	-.186	-.248	.163
	120	.277	.133	-.318	.110
Ankle PF	30	-.506*	-.334	.208	.248
	120	-.349	-.280	-.062	.184
Knee work		-.361	-.516*	.241	.099
Ankle work		-.295	-.339	.149	.357

DF: dorsiflexion, PF: plantar flexion * p value < 0.05