Table (1): Comparison between tramadol addicts and control group according to sociodemographic characteristics

Items	Active group	Control group	P1 value
Age/year			
Mean ± SD	32.33±7.54	30.37±6.20	0.27
Median (range)	31.5 (22-48)	28.5 (22-45)	
Education			
Diplom	22 (73.33%)	14 (46.67%)	0.10
Institute	3 (10.00%)	5 (16.67%)	
University	5 (16.67%)	11 (36.67%)	
Occupation			
Not working	5 (16.67%)	4 (13.33%)	0.95
Non-skillful	9 (30.00%)	11 (36.67%)	
Skillful	14 (46.67%)	13 (43.33%)	
Professional	2 (6.67%)	2 (6.67%)	
Marital status			
Single	12 (40.00%)	17 (56.67%)	0.20
Married	18 (60.00%)	13 (43.33%)	
Residence			
Rural	17 (56.67%)	19 (63.33%)	0.60
Urban	13 (43.33%)	11 (36.67%)	

Table (1) shows no statistically significant difference in age, education, occupation, marital status or residence between the two groups.

Table (2): Comparison between the two groups according to MoCAsubscores

Items	Tramadol group	Control group	P value
Attention			
Mean ± SD	5.3±0.88	5.57±0.50	0.15
Median (range)	6 (3-6)	6 (5-6)	
Delayed recall			
Mean ± SD	2.46±1.33	4.47±1.04	<0.0001
Median (range)	2 (1-5)	5 (1-5)	

Table (2) shows significant difference between the two groups in subscore delayed recall.

Table (3): Comparison between "active group" and "control group" according to Trail making A and B scores**.**

Items	Tramadol group	Control group	P value
Trail A			
Mean ± SD	44.43±13.31	43.23±12.99	0.56
Median (range)	45 (27-96)	40 (27-94)	
Trail B			
Mean ± SD	98.87±46.39	91.63±36.82	0.71
Median (range)	83 (57-210)	82 (57-198)	

Table (3) shows no significant difference between the two groups **Trail making A and B scores.**

Table (4): Correlation between cognitive impairment and different items in "Tramadol group"

Items	Impaired N=16	Normal N=14	P value
Age			
Mean ± SD	31.06±8.27	33.79±6.61	0.33
Median (range)	28.5 (22-48)	33.5 (22-44)	
Occupation			
Not working	4 (25.00%)	1 (7.14%)	0.40
Non-skillful	3 (18.75%)	6 (42.86%)	
Skillful	8 (50.00%)	6 (42.86%)	
Professional	1 (6.25%)	1 (7.14%)	
Education			
Diplom	10 (62.50%)	12 (85.71%)	0.20
Institute	3 (18.75%)	0	
University	3 (18.75%)	2 (14.29%)	
Dose of tramadol			
Mean ± SD	1301.56±987.94	787.5±285.35	0.19
Median (range)	1100 (450-4250)	787.5 (450-1350)	
Duration of tramadol use			
Mean ± SD	6.93±1.77	7.86±1.83	0.17
Median (range)	5.5 (4-11)	7.5 (5-11)	
Age of onset at tramadol use			
Mean ± SD	25.31±8.24	26.0±6.78	0.52
Median (range)	22.5 (16-44)	24 (15-39)	
Fits			
No	13 (81.25%)	14 (100%)	0.23
Yes	3 (18.75%)	0	
Nicotine use			
No	4 (25.00%)	0	0.10
Yes	12 (75.00%)	14 (100%)	

Table (4) shows no statistically significant correlation between cognitive impairment and age of the patient, occupation, education, dose of tramadol, duration of tramadol use, seizures or nicotine use.