

Table 1: The results obtained from hot-plate and tail-flick analgesia tests in forty male rats that were randomly assigned to five groups according to the treatment received: Group I: Control; Group II: Morphine; Group III: Apelin-13; Group IV: Apelin-13+L-NAME; Group V: Apelin-13+Ondansetron.

Variables		Groups					p
		Control (n=8)	Morphine (n=8)	Apelin-13 (n=8)	Apelin-13 +L-NAME (n=8)	Apelin-13 +Ondansetron (n=8)	
Hot-plate	0 min	20.75 (14-26)	38.3 (29.7-47)*	28.85 (18.9-48.4)*	25.2 (21.7-35.8)*	16.8 (12.9-28.4)†	<0.001
	30 min	18.2 (12.5-26)	60 (25-60)*	38.2 (26-60)*	29.9 (18.2-37)*	15 (11.9-38)†	<0.001
	60 min	15.7 (7.6-32)	17 (9-55)	22.6 (11.7-45)	26.65 (19.8-35.5)*	12.35 (10.4-14.7)*†‡	0.002
	120 min	17 (13-27)	14.7 (8.7-32)	20.7 (9-31)	20.7 (13.3-58)	12.85 (10.7-17.8)*‡	0.02
Tail-flick	0 min	5.4 (5-7.2)	6.7 (4.6-10)	5 (5-10)	8.5 (5-10)	5 (5-7.9)	0.053
	30 min	6.1 (5-6.4)	8.15 (5-10)*	9.3 (6-10)*	8.05 (5-10)	5 (4-5.7)*†	0.002
	60 min	5.85 (5-6.5)	6.65 (4.7-9.5)	7.7 (5-9.5)*	9.25 (8-10)*	5.25 (4.1-7)	<0.001
	120 min	5 (5-6.5)	5.35 (5-6.2)	5.65 (5-7)	8 (5.2-10)*	5 (4-6.5)	0.001

L-NAME: Nw-nitro-L-arginine methyl ester, min: minute, Data were expressed as median (Min-Max), *: significantly different from Control group (Mann-Whitney U test, p <0.05), †: significantly different from Morphine group (Mann-Whitney U test, p <0.05), ‡: significantly different from Apelin-13 group (Mann-Whitney U test, p<0.05).