

Experiment 3 Nicotine Withdrawal (0 or 6.3 mg/kg/day, SC)

Efficiency Ratio					Rewards				
Saline		Nicotine			Saline		Nicotine		
Day	Mean	SEM	Mean	SEM	Day	Mean	SEM	Mean	SEM
1	0.77	0.04	0.76	0.04	1	43.75	1.62	41.69	1.21
2	0.81	0.05	0.81	0.03	2	42.00	1.78	41.62	1.83
3	0.77	0.07	0.83	0.04	3	45.33	1.15	42.38	1.77
4	0.73	0.06	0.80	0.04	4	42.67	1.32	36.69	2.55
5	0.76	0.06	0.81	0.04	5	43.42	1.50	40.15	2.60
6	0.80	0.06	0.80	0.03	6	45.42	1.00	41.31	1.27
7	0.81	0.05	0.81	0.03	7	42.08	1.56	42.31	1.26
8	0.75	0.06	0.75	0.06	8	42.67	1.94	40.08	1.68
9	0.75	0.06	0.79	0.03	9	37.92	2.25	41.69	0.87
10	0.77	0.06	0.84	0.03	10	43.42	1.37	42.85	1.19

ANOVAs

Day	F(9,23)=1.18, p>0.05	Day	F(9,23)=2.09, p<0.05
Drug	F(1,23)=0.40, p>0.05	Drug	F(1,23)=1.52, p>0.05
Interaction	F(9,207)=0.63, p>0.05	Interaction	F(9,207)=1.93, p<0.05

Premature "Active" Responses

Premature "Active" Responses					Total ITI Responses				
Saline		Nicotine			Saline		Nicotine		
Day	Mean	SEM	Mean	SEM	Day	Mean	SEM	Mean	SEM
1	9.25	1.76	10.62	2.29	1	12.42	3.89	10.45	1.94
2	5.50	1.27	7.54	1.65	2	9.83	4.69	7.18	1.67
3	9.92	3.40	7.69	2.26	3	16.00	9.35	7.83	2.68
4	11.75	3.31	7.62	2.18	4	16.17	6.44	8.08	2.14
5	9.67	3.18	8.15	1.97	5	15.67	7.87	7.42	2.14
6	13.17	6.26	9.38	2.32	6	22.58	17.15	6.58	1.43
7	7.00	1.79	9.23	1.94	7	11.33	4.99	7.67	1.83
8	10.42	3.00	15.31	5.82	8	24.33	16.18	11.50	3.47
9	8.75	2.56	8.85	2.01	9	20.33	13.41	8.75	1.72
10	10.58	3.40	7.54	1.83	10	20.58	13.79	6.92	1.56

ANOVAs

Day	F(9,23)=1.06, p>0.05	Day	F(9,23)=1.15, p>0.05
Drug	F(1,23)=0.02, p>0.05	Drug	F(1,23)=0.91, p>0.05
Interaction	F(9,207)=0.80, p>0.05	Interaction	F(9,207)=0.74, p>0.05

Experiment 3 Nicotine Withdrawal (0 or 12.6 mg/kg/day, SC)

Efficiency Ratio					Rewards				
Saline		Nicotine			Saline		Nicotine		
Day	Mean	SEM	Mean	SEM	Day	Mean	SEM	Mean	SEM
1	0.67	0.09	0.79	0.05	1	38.29	2.88	34.25	2.61
2	0.75	0.07	0.71	0.05	2	37.29	4.37	37.88	3.17
3	0.72	0.09	0.80	0.04	3	39.29	4.42	36.63	4.34
4	0.67	0.08	0.81	0.04	4	38.00	5.35	39.50	2.87
5	0.74	0.06	0.77	0.05	5	41.14	2.92	39.13	3.69
6	0.79	0.06	0.80	0.04	6	39.86	3.84	38.75	3.02
7	0.63	0.07	0.83	0.03	7	38.14	5.22	41.75	2.48
8	0.74	0.08	0.80	0.06	8	35.71	4.16	39.50	1.45
9	0.74	0.08	0.78	0.04	9	38.57	4.10	39.25	2.72
10	0.79	0.05	0.73	0.06	10	39.86	3.26	37.50	4.05

ANOVAs

Day	F(9,13)=0.37, p>0.05	Day	F(9,13)=0.38, p>0.05
Drug	F(1,13)=1.20, p>0.05	Drug	F(1,13)=0.003, p>0.05
Interaction	F(9,117)=1.32, p>0.05	Interaction	F(9,117)=0.48, p>0.05

Premature "Active" Responses

Premature "Active" Responses					Total ITI Responses				
Saline		Nicotine			Saline		Nicotine		
Day	Mean	SEM	Mean	SEM	Day	Mean	SEM	Mean	SEM
1	29.00	13.88	10.13	4.26	1	19.00	8.33	7.63	2.67
2	14.86	6.65	17.88	6.70	2	8.29	3.02	10.50	3.74
3	21.00	10.44	8.63	2.69	3	10.29	4.13	4.88	1.25
4	20.43	8.00	7.63	2.56	4	13.86	5.34	5.88	1.81
5	12.57	3.46	13.75	5.74	5	9.57	2.30	8.25	3.40
6	10.29	3.99	8.50	2.22	6	7.86	2.50	7.13	1.79
7	17.71	3.95	7.50	1.96	7	13.43	2.84	6.00	1.31
8	14.29	6.71	10.00	4.26	8	9.29	3.50	9.50	3.97
9	15.43	6.20	8.25	1.40	9	9.86	3.00	8.50	2.83
10	8.43	2.31	13.25	4.88	10	8.71	2.65	11.00	3.62

ANOVAs

Day	F(9,13)=0.80, p>0.05	Day	F(9,13)=0.56, p>0.05
Drug	F(1,13)=1.25, p>0.05	Drug	F(1,13)=1.27, p>0.05
Interaction	F(9,117)=1.42, p>0.05	Interaction	F(9,117)=1.19, p>0.05

Experiment 3 Nicotine Withdrawal (0 or 36 mg/kg/day, SC)

Experiment 3 Nicotine Withdrawal (0 or 36 mg/kg/day, SC)									
Efficiency Ratio					Rewards				
Saline		Nicotine			Saline		Nicotine		
Day	Mean	SEM	Mean	SEM	Day	Mean	SEM	Mean	SEM
1	0.67	0.06	0.65	0.06	1	38.33	2.26	40.08	2.76
2	0.70	0.08	0.72	0.05	2	38.42	2.04	37.85	2.99
3	0.72	0.07	0.72	0.06	3	38.25	2.33	40.62	2.19
4	0.69	0.07	0.77	0.06	4	38.58	2.19	40.62	2.32
5	0.70	0.07	0.75	0.07	5	37.67	2.09	38.31	3.74
6	0.69	0.07	0.79	0.06	6	39.83	1.92	41.08	2.19
7	0.73	0.05	0.71	0.05	7	42.25	2.54	43.46	1.92
8	0.72	0.06	0.76	0.04	8	41.17	1.90	42.00	1.73
9	0.73	0.06	0.80	0.04	9	42.00	2.13	40.77	1.45
10	0.73	0.05	0.74	0.04	10	35.50	3.69	40.08	2.87

ANOVAs

ANOVAs		ANOVAs	
Day	F(9,23)=1.29, p>0.05	Day	F(9,23)=2.09, p<0.05
Drug	F(1,23)=0.21, p>0.05	Drug	F(1,23)=0.24, p>0.05
Interaction	F(9,207)=0.83, p>0.05	Interaction	F(9,207)=0.46, p>0.05

Premature "Active" Responses

Total ITI Responses

Premature "Active" Responses / Total ITI Responses									
Saline		Nicotine			Saline		Nicotine		
Day	Mean	SEM	Mean	SEM	Day	Mean	SEM	Mean	SEM
1	21.08	8.47	23.46	6.79	1	16.42	5.29	16.69	4.03
2	45.58	35.42	13.46	3.00	2	21.42	10.90	9.85	2.65
3	20.25	11.31	18.92	7.00	3	15.67	6.57	12.69	4.20
4	24.33	12.80	13.31	5.51	4	18.08	7.62	9.31	3.35
5	39.92	30.43	12.15	4.86	5	20.25	11.72	9.31	3.41
6	27.08	13.17	10.85	4.45	6	16.75	5.19	8.77	3.30
7	14.75	4.38	16.77	5.91	7	14.33	5.91	14.92	4.44
8	15.33	6.64	13.38	6.19	8	16.58	6.31	10.00	4.19
9	14.83	5.03	8.31	2.73	9	13.25	4.92	7.92	2.09
10	11.25	3.63	10.23	2.22	10	8.50	1.79	9.23	1.73

ANOVAs

ANOVAs

ANOVAs		ANOVAs	
Day	F(9,23)=1.05, p>0.05	Day	F(9,23)=0.87, p>0.05
Drug	F(1,23)=0.54, p>0.05	Drug	F(1,23)=0.72, p>0.05
Interaction	F(9,207)=1.10, p>0.05	Interaction	F(9,207)=0.91, p>0.05

Experiment 3 Nicotine Withdrawal (0 or 6.3 mg/kg/day, SC Transient Effects)

Experiment 3 Nicotine Withdrawal (0 or 6.3 mg/kg/day, SC Transient Effects)									
Efficiency Ratio					Rewards				
Saline		Nicotine			Saline		Nicotine		
Hour	Mean	SEM	Mean	SEM	Hour	Mean	SEM	Mean	SEM
3	0.79	0.05	0.88	0.02	3	37.83	0.91	37.33	2.87
6	0.72	0.07	0.80	0.07	6	41.50	0.99	41.67	1.43
12	0.83	0.04	0.81	0.07	12	37.00	1.15	35.33	2.40
24	0.76	0.06	0.69	0.08	24	23.50	2.57	16.17	4.13
48	0.84	0.03	0.69	0.07	48	30.00	2.57	24.50	2.59

ANOVAs

ANOVAs

ANOVAs		ANOVAs	
Hour	F(4,10)=1.78, p>0.05	Hour	F(4,10)=43.05, p<0.05
Drug	F(1,10)=0.01, p>0.05	Drug	F(1,10)=1.61, p>0.05
Interaction	F(4,40)=1.76, p>0.05	Interaction	F(4,40)=1.50, p>0.05

Premature "Active" Responses

Total ITI Responses

Premature "Active" Responses / Total ITI Responses									
Saline		Nicotine			Saline		Nicotine		
Hour	Mean	SEM	Mean	SEM	Hour	Mean	SEM	Mean	SEM
3	0.17	0.17	1.50	0.72	3	4.00	1.77	3.33	0.99
6	0.17	0.17	5.83	3.72	6	8.00	3.60	7.67	3.29
12	0.83	0.40	2.17	1.11	12	3.17	1.08	3.50	1.54
24	2.50	0.72	3.00	0.77	24	2.67	0.84	2.67	0.67
48	0.33	0.21	3.00	0.89	48	1.33	0.61	4.00	1.06

ANOVAs

ANOVAs

ANOVAs		ANOVAs	
Hour	F(4,10)=1.31, p>0.05	Hour	F(4,10)=3.73, p>0.05
Drug	F(1,10)=3.42, p>0.05	Drug	F(1,10)=0.06, p>0.05
Interaction	F(4,40)=1.66, p>0.05	Interaction	F(4,40)=0.35, p>0.05