

Topiramate in Mood Disorders

# of Patients	Target Symptoms	Type of Study	Dose (mg/day)	Monotherapy or Adjunctive?	Trial Duration	Number of Patients Improved (%)	Weight Loss?	Investigator(s)
18	Refractory mood disorders	Open	200	Adjunct	16 wks	23/44 (52%)	Unknown	Marcotte, 1998
20	18 Bipolar 2 Schizoaffective, bipolar type	Open	100-300	Adjunct	5 weeks	12/20 (60%)	9.4 lbs avg.	Chengappa et al., 1999
5	4 Bipolar 1 Schizoaffective	Retrospective chart review	100-375 (195 mean)	Varied	Varied	5/5 (100%)	22 lbs avg.	Gupta et al., 2000
54	30 Manic 11 Depressed 13 Euthymic	Open	193 " 122	Adjunct	10 wks	19/30 (63%) 3/11 (27%)	4.9% at last evaluation	McElroy et al., 2000
11	Mania	On-Off-On	25-200	Adjunct	10 days on, 5 days off, 7 days on	7/11 (64%), 1 st trial; 8/9 (89%), 2 nd trial	Unknown	Grunze et al., 2001
76	Bipolar disorder	Retrospective chart review	12.5-400 (96.1 mean)	Adjunct	17.5 weeks	10/76 (13%) moderate to marked improvement	14.2 lbs (avg) in 50%	Ghaemi et al., 2001
10	Acute Mania	Open	50-1300 (536 mean)	Monotherapy	28 days	5/10 (50%) mod. to marked improvement	4.7 lbs avg. (n=4)	Calabrese et al., 2001
26	Bipolar I or II children or adolescents	Retrospective chart review	25-400 (104 mean)	Monotherapy (n=3) or Adjunct	1-30 months (mean = 4.1 months)	16/26 (62%) had overall illness improvement	5 kg (n=9)	DelBello et al., 2002
14	Acute mania	Open	150-700 (310 mean)	Monotherapy (n=8) or Adjunct	4 weeks	8/13 (61.5%) ≥50% reduction in mania scores	Four patients lost weight, two patients gained weight	Bozikas et al., 2002
36	Bipolar Depression	Single-blind, randomized study vs. bupropion	50-300 (176 mean)	Adjunct	8 weeks	10/18 (56%) vs. 59% for bupropion	5.8 kg avg.	McIntyre et al., 2002
34	Refractory mood disorder	Open	100-400 (202 mean)	Adjunct	6 months	10/17 (59%) manic; 6/11 (55%) depressed; 19/34 (56%) all groups	2.3 kg avg. (n=10)	Vieta et al., 2002
16	Female major depression, obesity	Retrospective chart review	100-400 (277 mean)	Adjunct	40 weeks	7/16 (44%)	6.1 % avg.	Carpenter et al., 2002
14	Refractory bipolar disorder	Retrospective chart review	25-300 (100 mean)	Adjunct	1-64 weeks (22.4 mean)	9/14 (64%)	29.7 lbs avg. (n=4)	Guille and Sachs, 2002

Topiramate in Mood Disorders (continued)

# of Patients	Target Symptoms	Type of Study	Dose (mg/day)	Monotherapy or Adjunctive?	Trial Duration	Number of Patients Improved (%)	Weight Decrease?	Investigator(s)
19	Bipolar II	Open	117 (mean)	Adjunct	12 weeks	8/15 (53%) of hypomanic patients were responders; 2/4 (50%) of depressed patients were responders	2.4 kg avg. (n=6)	Vieta et al., 2003
56	Bipolar disorder	Open	200-400 (289 mean)	Adjunct	1 year	Statistically significant reduction in number of new episodes (mania/depression) in year on topiramate	1-2 kg in five patients	Lykouras and Hatzimanolis, 2004
4 Controlled Studies:								
	Acute Mania	Double-blind, controlled		Monotherapy	3-4 weeks	Topiramate = Placebo; Lithium > Topiramate		Sachs et al., 2004

Conclusion: Topiramate may have useful properties for weight loss in addition to reports of mood stabilization when used as an open-label, adjunctive treatment. It is not an effective acute antimanic drug in monotherapy.

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