Study	Fasting protocol	Study design and population	Mood evaluation	Major findings
Teng 2011	Three months clinical trial on CR (reduction of 300 to 500 kcal/day) combined with two days/week of MF.	Randomized controlled trial Healthy individuals N=25	BDI- II QOL Pittsburgh Sleep Quality Index Perceived Stress Scale	significative energy increase in QOL questionnaire (P<0.05). No significant changes in depression and stress level, but baseline levels were very low. No change in sleep quality.
Farooq 2010	MF during Ramadan	Open-labelled bipolar affective disorder N=62	HDRS YMRS	significant decrease in HDRS and YMRS during Ramadan (F=34.12, P<0.01, for HDRS and F=15.6, P<0.001 for YMRS)
Michalsen 2009	8-day modified medical fasting treatment (total energy intake <350 kcal/d)	Controlled Healthy subjects N=108	Daily ratings of mood (VAS)	Significant mood improvement (p=0.036)
Tavakkoli 2008	MF during Ramadan	Controlled trial with irritable bowel syndrome N=60	HADS QOL	Decrease of anxiety score (from 12.7 (6.0) to 9.8 (4.4) after fasting (p=0.026)
Lepage 2008	CR based on patient's self-declaration	Observational study Female with CR vs non-CR N=486	CES-D BSI	Significant group differences on the BSI, $F(3, 289) = 4.84$, p < .005, while results for the CES-D neared significance, $F(3, 309) = 3.03$, $p = .03$.
Kanazawa 2006	Complete fasting during 10 days	Controlled trial Irritable Bowel Syndrome N=58	Clinical interview	Fasting significantly improved anorexia (p = .02) and anxiety (p < .001), and interference with life in general (p < .001).

Michalsen 2006	8-day modified fast (300 kcal/day)	Controlled trial Chronic Pain Syndromes N=36	Daily ratings of mood (VAS)	Mood ratings increased significantly in the late phase of fasting (P < 0.01) but were not related to weight-loss, leptindepletion or cortisol increase.
Suzuki 1976	Complete fasting during 10 days	Observation study Depression N=36	Clinical interview	Reported remission rate of 86%

Table 1. Clinical studies evaluating mood in populations under fasting condition. BDI: Beck Depression Inventory. HDRS: Hamilton Depression Rating Scale. HADS: Hospitalisation Anxiety and Depression Scale. YMRS: Young Mania Rating Scale. CES-D: Center for Epidemiological Studies- Depression Scale. QOL: quality of life. CR: caloric restriction. MF: Muslim fasting. BSI Brief Symptom Inventory. VAS: Visual Analogue Scale.