

Bilaga 5 Tabellverk över ingående studier

Table 1. Included studies in alphabetic order

First author Year Country Reference	Population Inclusion criteria Setting Study period Follow-up	Intervention Duration Drop out Compliance	Comparison Duration Drop out Compliance	Results (mean±SD)	Risk of bias Comments Study limitation
Agras et al 1994 USA [1]	<p>Population N=108 (22% of screened) Mean age: 45±10 (range 22–65) Age onset of BE: 19 Mean BMI: 38.6±6.6 BE/week: 4.5±1.4</p> <p>Inclusion criteria Proposed criteria for BED by Walsh (1992), females, no antidepressant medication</p> <p>Setting Outpatients, via advertisements</p> <p>Study period NR</p> <p>Follow-up Post treatment (36 weeks) and 3 months</p>	<p>CBT+weight loss therapy (CBT-WL) n=36 12 weekly sessions of CBT followed by 18 WL-sessions</p> <p>CBT+weight loss therapy+desipramine (CBT-WL-D) n=36</p> <p>Desipramine added for the last 6 months, start dos 25 mg/day, max dose 300 mg/day</p> <p>Duration 36 weeks</p> <p>Drop out CBT-WL: 6 (17%) CBT-WL-D: 8 (23%)</p> <p>Compliance NR</p>	<p>Weight loss therapy (WL) n=37</p> <p>30 group sessions a 90 minutes, weekly for 24 weeks then biweekly</p> <p>Duration 36 weeks</p> <p>Drop out 10 (27%)</p> <p>Compliance NR</p>	<p>Binge days/week Post: WL: 1.5±0.2, CBT-WL: 1.2±1.3 CBT-WL-D: 0.9±0.9 3 months: WL: 2, CBT-WL: 1.7 CBT-WL-D: 1.5</p> <p>Remission WL: 19%, CBT-WL: 37%, CBT-WL-D: 41% 3 months: WL: 14%, CBT-WL: 28% CBT-WL-D: 32%</p> <p>Depression (BDI) WL: 11.3±10.3 CBT-WL: 8.9±7.6 CBT-WL-D: 7.8±7.8</p> <p>Weight (kg) WL: 99.2±16.9 CBT-WL: 100±17.6 CBT-WL-D: 105.9±20.5</p>	<p>Sampling method Unclear</p> <p>Blinding Assessor blinded</p> <p>Handling of missing data No ITT</p>

<p>Alfonsson et al 2015 Sweden [2]</p>	<p>Population N=100 (71% of screened) Mean age: 44±11 Mean BMI: 41±5.3 94% females</p> <p>Inclusion criteria Patients with obesity (BMI≥30) and met DSM-5 criteria for BED</p> <p>Setting Outpatients, recruited from routine care at a specialized clinic for obesity</p> <p>Study period January 2010–February 2012</p> <p>Follow-up Post treatment, For BA: also at 3 and 6 months FU</p>	<p>Behavioural activation (BA) n=50</p> <p>BA: 4–7/group, 10 weekly 90 min sessions following program by Lejuez et al (2010) and Kanter 2009.</p> <p>Duration 10 weeks</p> <p>Drop out 16 (32%)</p> <p>Compliance 34 (68%) (6 or more sessions out of 10)</p>	<p>Waiting list n=50</p> <p>Duration 3 months</p> <p>Drop out 12 (24%)</p> <p>Compliance 38 (76%)</p>	<p>Remission rates (zero OBEs for past 28 days, based on EDE), N (%) I: 10 (29%), C: 10 (26%), ns</p> <p>Binge eating, OBE days Post: I: 7.35±7.03, C: 9.29±9.06 3 months: I: 4.67±6.17 6 months: I: 5.38±7.28</p> <p>EDE-Q Total score Post: I: 3.04±0.84, C: 2.95±0.97</p> <p>Depression (HADS) Depression post I: 5.71±3.83, C: 8.05±5.29</p>	<p>Sampling method Random no list, online randomization</p> <p>Blinding Blinded assessment</p> <p>Handling of missing data No ITT analysis</p>
<p>Brownley et al 2013 USA [3]</p>	<p>Population N=24 (58% of screened) Mean age: 36.6±11 Mean BMI: 43.2±5.4 83.3% females</p> <p>Inclusion criteria Age 18–65, met DSM-5 criteria for BED, no current suicidal or homicidal intent or other psychiatric conditions, BMI 25–44</p> <p>Setting</p>	<p>Chromium picolinate (CrPi) High dose: 1000 µg/day n=8</p> <p>Moderate dose: 600 µg/day n=9</p> <p>Duration 6 months</p> <p>Drop out High dose: 1 moderate dose: 1</p> <p>Compliance</p>	<p>Placebo n=7</p> <p>Duration 6 months</p> <p>Drop out 1</p> <p>Compliance NR</p>	<p>Post treatment</p> <p>Binge frequency (episodes/months) High dose: -1.65±0.76 Mod dose: -0.93±0.70 C: -0.97±0.78</p> <p>EDE-Q Global score High dose: -0.21±0.07 Mod dose: -0.13±0.07 C: -0.04±0.07</p> <p>Depression (QIDS-SR), decline High dose: -0.3±0.21 Mod dose: -0.41±0.19 C: -0.03±0.21</p>	<p>Sampling method NR</p> <p>Blinding Double blind</p> <p>Handling of missing data NR</p>

	<p>Outpatients, recruited via advertisements</p> <p>Study period NR</p> <p>Follow-up Post treatment. For intervention group 3 months data was available but not for placebo.</p> <p>Run in period N=28, 1 months, 4 was identified as placebo responders</p>	NR			
<p>Carrard et al 2011 Switzerland [4]</p>	<p>Population N=74 (46% of screened) Mean age: 36±11.4 BMI: 28.8±5.7 Full BED: 58%</p> <p>Inclusion criteria Age 18–60, female, average internet skills, met sub-threshold or full DSM-IV criteria for BED, 1 OBE/week for ≥3 months</p> <p>Setting Outpatients, recruited via advertisements</p> <p>Study period Started 2008</p> <p>Follow-up Post intervention and 6 months</p>	<p>Internet self-help guided programme n=37</p> <p>French programme, based on online programme for BN, SALUT project. Consisted of 11 modules</p> <p>Duration 6 months</p> <p>Drop out 9</p> <p>Compliance Third assessment 28 (75.7%)</p>	<p>Waiting list, Started treatment after 6 months n=37</p> <p>Duration 6 months</p> <p>Drop out 7</p> <p>Compliance Third assessment 30 (81.1%)</p>	<p>Abstinence rate % (n) Post: I: 35.1 (13), C: 8.1% (3)</p> <p>Objective binge episodes Post: 5.57.4, C: 9.1±8.8</p> <p>EDE-Q Total Post: I: 2.5±1.1, C: 2.9±1</p> <p>Depression (BDI-II) Post: I:10±7.4, C: 13.2±9.6</p> <p>BMI Post: I:29.2±6, C: 27.9±5.4</p>	<p>Sampling method Computer generated randomization sequence</p> <p>Blinding None</p> <p>Handling of missing data ITT</p> <p>Funding Hans Wilsdorf foundation, MRNT-CT</p>

Carter and Fairburn 1998 United Kingdom [5]	<p>Population N=72 (31% of screened, 95% of eligible) Mean age: 39.7±10 Mean BMI: 31.4</p> <p>Inclusion criteria Women aged 18–65, BED according to EDE and research assessment interview</p> <p>Setting Single center, outpatient recruited via advertisements</p> <p>Study period NR</p> <p>Follow-up Post treatment, 3 and 6 months</p>	<p><i>Guided self-help (GSH)</i> Programme led approach with a non-specialist therapists as facilitator, between 6–8 25 minutes sessions n=24+10</p> <p><i>Pure self-help (PSH)</i> participants were asked to read the book <i>Overcoming binge eating</i> and to follow its self-help programme n=24+11</p> <p>Duration 12 weeks</p> <p>Drop out GSH: 8 PSH: 0</p>	<p>Waiting list n=24</p> <p>Duration 12 weeks</p> <p>Drop out 1</p>	<p>Binge eating/28 days Post: C:13.5±10.3, GSH 4.3±7.8, PSH: 9.3±11.7 3 months: GSH: 3.6±3.5, PSH: 5±4.3 6 months: GSH: 3.7±4.2, PSH: 4.7±4</p> <p>Global EDE-Q score Post: C: 3.5±0.8, GSH: 2.1±1.2, PSH: 2.7±1.3 3 months: GSH: 2.1±1.3, PSH:2.6±1.5 6 months: GSH: 2.4±1.3, PSH: 2.6±1.5</p> <p>Ceased binge eating, % (n) Post: C 8% (2), GSH: 50% (17), PSH: 43% (15) 3 months: GSH: 41% (14), PSH: 37%(13) 6 months: GSH:50% (17), PSH: 40% (14)</p> <p>BMI Post: C:31.9±7.4, GSH: 31.7±6.1, PSH: 30.7±6.6 3 months: GSH: 30.8±5.9, PSH: 29.4±5.6 6 months: GSH: 31.6±6.2, PSH: 30.4±6.5</p>	<p>Sampling method Permuted block by 3</p> <p>Blinding Assessors blinded</p> <p>Handling of missing data ITT analysis</p>
Cassin et al 2008 Canada [6]	<p>Population N=108 (84% of eligible) Mean age: 42.5±12.7 BED duration: 15.1±11.6 Mean BMI: 33.2±7.8</p> <p>Inclusion criteria Female, met DSM-IV-TR for BED</p>	<p>Adapted Motivational interviewing (AMI)+receiving self-help hand book</p> <p>One individual AMI-session (mean length 82 minutes), the protocol was based on a book by Treasue and Schmidt 1997,</p>	<p>Self-help handbook Participants were asked to read the book and to complete the worksheets at the initial sessions n=54</p> <p>Duration</p>	<p>Binge eating frequency (days/months) I: 2.8±3.5, C: 6.3±6</p> <p>Remission I: 15 (27.8%): C: 6 (11.1%)</p> <p>Depression (BDI-II) I: 14.2±11.1, C: 16.2±12.2</p>	<p>Sampling method Computerized MINIM program</p> <p>Blinding Assessor blinded</p> <p>Handling of missing data</p>

	<p>Setting Outpatients, recruited from local television news, magazine, websites or radio</p> <p>Study period October 2004–July 2005</p> <p>Follow-up post intervention</p>	<p>but modified for use with individuals with BED n=54</p> <p>Duration 16 weeks</p> <p>Drop out 6 (11%)</p>	<p>16 weeks</p> <p>Drop out 8 (15%)</p>		ITT analysis
Castelnuovo et al 2011 Italy [7]	<p>Population N=60 (60% of screened) Mean age: 46±11 Mean weight: 106.95±6.94 100% females</p> <p>Inclusion criteria Age 18–65, BMI≥30, BED DSM-IV criteria</p> <p>Setting Consecutive inpatient from single clinical center</p> <p>Study period 2008</p> <p>Follow-up Post treatment and 6 months</p>	<p>BST (Brief Strategic Therapy) n=30</p> <p>Inpatient treatment: diet, physical activity, dietitian counselling, 8 sessions of BST and 8 out patients telephone based support sessions</p> <p>Duration 7 months (1 month inpatient and 6 month outpatient sessions)</p> <p>Drop out NR</p>	<p>CBT n=30</p> <p>Inpatient treatment: diet, physical activity, dietitian counselling, 8 sessions of CBT and 8 telephone based out patients sessions of CBT</p> <p>Duration 7 months (1 month inpatients and 6 months outpatients)</p> <p>Drop out NR</p>	<p>BED remission, number of weekly binge episodes <2 6 months: BST: 20%, CBT: 63.3%, p 0.001</p> <p>Change in weight 6 months: CBT: -5.95±17.9, BST: -10.53±6.14</p>	<p>Sampling method Web site randomization</p> <p>Blinding Unclear if assessor is blinded</p> <p>Handling of missing data Unclear</p>
Claudino et al 2007 Brazil [8]	<p>Population N=73 (91% of eligible, 15% of screened) Mean age: 38 Mean binge days/week: 3.8 Mean BMI: 37.4</p>	<p>Topiramate+CBT n=37</p> <p>Topiramate: start dose 25 mg/day for 14 days, increased by 25 mg until target dose of</p>	<p>Placebo+group CBT n=36</p> <p>CBT: 19 90-min weekly session (adapted Fairburn</p>	<p>Binge eating frequency, days/wk Post: I: 0±0.2, C: 0.3±0.6</p> <p>Binge episodes/week Post: I: 0±0.2, C: 0.3±0.8</p>	<p>Sampling method Cluster of ten, computer generated list</p> <p>Blinding</p>

	<p>35% females</p> <p>Inclusion criteria BMI\geq30, age 18–60, DSM-IV criteria for BED, >17 BES, not prior been using topiramate</p> <p>Setting Multicentre, outpatients, spontaneously seeking treatment or recruited via media</p> <p>Study period September 2004–April 2005</p> <p>Follow-up Post treatment</p> <p>Run in period 2–5 weeks, single blind</p>	<p>200 mg/day. Patients presented with <5% reduction in weight or <50% reduction in binge episodes were prescribed increased medication till max dose 300mg/day</p> <p>CBT: 19 90-min weekly session (adapted Fairburn model for BED), group of 10, led by therapist. Last 3 sessions occurred biweekly</p> <p>Duration 21 weeks</p> <p>Drop out 7 (19%)</p>	<p>model for BED), group of 10, led by therapist. The last 3 sessions occurred biweekly</p> <p>Duration 21 weeks</p> <p>Drop out 10 (20%)</p>	<p>BED remission I: 31/37, C:22/36, p 0.03</p> <p>Weight Kg: Post: I: 89.8\pm13.2, C: 97.5\pm10.5 BMI: I: 35\pm3.5, c: 36.7\pm4.7, p 0.0002</p> <p>Depression (BDI) I: 10.9\pm7, c: 9.2\pm6.9, p0.2</p> <p>Adverse events Paresthesia: I: 48.6%, C: 11.1 Taste perversion: I: 24.3%, C: 0 Dysuria: I: 13.5%, C: 0 Insomnia: I: 2.7%, C: 16.7%</p>	<p>Double blind (topiramate), assessor blinded</p> <p>Handling of missing data ITT analysis</p> <p>Fundings Janssen-Cilag Farmaceutica, Brazil</p>
<p>Corwin et al 2012 USA [9]</p>	<p>Population N=18 Mean age: 44.8\pm3.7 Mean BMI:37.7\pm2.3 50% females</p> <p>Inclusion criteria Adults, self-reported binge eating \geq3 times/week</p> <p>Setting Outpatients, recruited through website/newsletter</p> <p>Study period NR</p>	<p>Baclofen 3 times/day Dose titration: 10 days to titrate up, 28 days with full dose (20 mg 3 times/day), 10 days to titrate down</p> <p>Wash out period: 15 days</p> <p>Duration 48 days</p> <p>Drop out 5 (28%)</p> <p>Compliance</p>	<p>Placebo</p> <p>Duration 48 days</p> <p>Drop out 0</p>	<p>Binge frequency (% days\pmSEM) I: 0.63\pm0.08, C: 0.78\pm0.05</p> <p>BES score I: 22.9\pm3.3, C: 21.4\pm3.1</p> <p>Depression (HAD) I: 7.1\pm1.2, C: 5.8\pm1</p>	<p>Sampling method Unclear</p> <p>Blinding Double blind</p> <p>Handling of missing data Unclear</p> <p>Fundings Penn State institute for diabetes and obesity</p>

	Follow-up Post intervention	NR			
Dingemans et al 2007 Netherlands [10]	<p>Population N=52 Mean age: 37.6 Mean BMI: 38.9±7.9 94% females</p> <p>Inclusion criteria BED according to the DSM-IV</p> <p>Setting Outpatients, recruited from 3 eating disorder centers and via advertisements in local newspaper and websites</p> <p>Study period NR</p> <p>Follow-up Post-treatment and 1year</p>	<p>CBT n=30</p> <p>CBT: 15 2 hours sessions, the 10 first were weekly, last five were biweekly. Sessions led by two trained therapists</p> <p>Duration 20 weeks</p> <p>Drop out 2 (7%)</p> <p>Compliance unclear</p>	<p>Waiting List n=22</p> <p>Offered CBT after end of treatment</p> <p>Duration 20 weeks</p> <p>Drop out 0</p> <p>Compliance unclear</p>	<p>Objective overeating/28 days Post: I: 2.1±5.5, C: 4.6±6.0</p> <p>Subjective BE episodes/28 days Post: I: 2.3±5.4, C: 7.9±13.3</p> <p>OBE abstinence, N (%) Post: I: 19 (65%), C: 4 (18%)</p> <p>EDE-Q Global score Post: I: 1.3±1., C: 2.3±0.9</p> <p>BMI, Change F(1.49)=2.83, p=0.1</p> <p>Depression (BDI) Post: I: 12.9±13.2, C: 17.4±10.5</p>	<p>Sampling method Unclear</p> <p>Blinding Unclear</p> <p>Handling of missing data NR</p> <p>Other Comments All analyses were corrected for BL differences between the groups</p>
Golay et al 2005 Switzerland [11]	<p>Population N=89 (91% of screened) Mean age:41 Mean BMI: 36.6 91% females</p> <p>Inclusion criteria Age 18–65, BMI≥30, BED met DSM-IV criteria</p> <p>Setting Outpatients, two centers specializing in obesity and</p>	<p>Orlistat, 120 mg, TTD with main meal n=44</p> <p>Duration 24 weeks</p> <p>Drop out 5 (11%)</p> <p>Compliance NR</p>	<p>Placebo n=45</p> <p>Duration 24 weeks</p> <p>Drop out 13 (29%)</p> <p>Compliance NR</p>	<p>BED, % (DSM IV) I: 9/39 (23%), C: 10/34 (29%), p0.539</p> <p>Binge eating episodes, weekly I: 1, C: 1.7</p> <p>Depression score (BDI) I: 8.2±0.8, C: 11.6±1.6.2</p> <p>QoL (NHP) I: 5.4±0.8, C: 6.8</p>	<p>Sampling method Generated by sponsor</p> <p>Blinding Double blind</p> <p>Handling of missing data ITT analysis</p> <p>Funding Roche Pharma AG</p>

	eating disorder, consecutive sample Study period NR Follow-up Post intervention			Weight loss (LSM) 24 week: I: -7.4%, C: -2.3%, p0001	
Grilo et al 2014 USA [12]	Population N=52 Racially ethnically diverse obese individuals Mean age: 44.5 mean BMI: 37.9 73.4% females Inclusion criteria Age 18–65, DSM-5 criteria for BED, BMI≥30–< 50 Setting Primary care, recruited via posters and flyers Study period NR Follow-up Post treatment, 6 and 12 months	Self-help-CBT (shCBT)+placebo capsules n=25 shCBT: given the self-help programme <i>Overcoming Binge eating (Fairburn 1995)</i> , primary care physicians instructed participants to read and follow the self-help CBT manual Duration 16 weeks Drop out Post: 2 (8%) 6 months: 2 12 months: 4 Compliance Post: 21 (84%)	Placebo capsules n=27 Duration 16 weeks Drop out Post: 7 (26%) 6 months: 5 (18.5%) 12 months: 4 (15%) Compliance Post: 14 (52%)	Remission rates (zero OBEs past 28 days, EDE interview) Post: I: 6/25 (24%), C: 8/27 (29.6%) 6 months: I: 10/25 (40%), C: 11/27 (40.7%) 12 months: I: 11/25 (40%), C: 10/27 (37%) Binge episodes/months (EDE) Post: I: 6.4±7.6, C: 5.3±9.9 6 months: I: 3.6±6.4, C: 5.7±10 12 months: I: 4.9±8.5, C: 6.7±13.9 EDE-Q Global score Post: I: 1.71.2, C: 2.1±1.2 6 months: I: 1.7±0.9, C: 1.8±1 12 months: I: 1.6±1, C: 1.8±1.1 Depression (BDI) Post: I: 9.9±9.7, C: 9.6±11.3 6 months: I: 10.3±10.6, C: 8.7±5.1 12 months: 10.5±9.1, C: 7.5±6.9 BMI Post: I: 35.9±5.6, C: 39.6±5.7 6 months: I: 35.3±5.2, C: 38.8±5.1 12 months: 35.4±5.9, C: 39.5±5.9	Sampling method Randomization schedule, stratified by DSM diagnosis of BED Blinding Unclear Handling of missing data ITT analysis Other comments The groups that received sibutramine were excluded since this drug is no longer used in Sweden due to adverse events

<p>Grilo et al 2013 USA [13]</p>	<p>Population N=48 (65% of eligible) Racially ethnically diverse obese individuals Full BED, N=34 Sub-BED, N=14 Mean age: 45.8±11.0 mean BMI: 37.62±4.79 70% females</p> <p>Inclusion criteria Age ≤65, DSM-5 criteria for BED, BMI≥30–50</p> <p>Setting Primary care, recruited via posters and flyers</p> <p>Study period NR</p> <p>Follow-up Post treatment</p>	<p>Self-help-CBT (shCBT) n=24</p> <p>shCBT: given the self-help programme <i>Overcoming Binge eating (Fairburn 1995)</i>, primary care physicians instructed participants to read and follow the self-help CBT manual</p> <p>Duration 4 months</p> <p>Drop out 0</p>	<p>Usual care, (advice and treatment recommended by their primary care physicians) n=24</p> <p>Drop out 0</p>	<p>Remission rates (zero OBEs past month, EDE interview) I: 6/24, C: 2/24</p> <p>Binge frequencies <i>EDE OBE/month</i> I: 5.75±5.94, C: 6.50±7.22</p> <p>EDE-Q Global score I: 3.02±0.88, C: 2.81±0.89</p> <p>Depression BDI I: 8.88±7.67, C: 11.96±7.38</p> <p>BMI I: 37.45±5.34, C: 37.42±4.44</p>	<p>Sampling method Randomization schedule, stratified by DSM diagnosis of BED, blocks of 12</p> <p>Blinding Unclear</p> <p>Handling of missing data ITT analysis</p>
<p>Grilo et al 2013 USA [14]</p>	<p>Population N=79 (57% of screened) persons with mental health needs, Mean age: 46.32±9.68 Mean BMI: 37.57±6.62 82% females</p> <p>Inclusion criteria Aged 21–65 years, BMI ≥30, BED per DSM5 criteria</p> <p>Setting</p>	<p>Orlistat+behavioural weight loss (BWL) n=20 85% females</p> <p>Orlistat: 120 mg 3 times daily</p> <p>BWL: culturally adaptation of the Diabetes-Prevention-Program, 16 sessions</p> <p>Duration 4 months</p>	<p>placebo+BWL n=20 70% females</p> <p>Placebo: 3 times daily BWL: culturally adaptation of the Diabetes-Prevention-Program, 16 sessions</p> <p>Duration 4 months</p>	<p>Remission Post: I: 12 (60%), C: 14 (17%) 6 months: I: 10 (50%), C: 10 (50%)</p> <p>EDE total Post: I: 1.6±0.9, C: 2.0±0.7 6 months: I: 1.5±0.8, C: 1.9±1</p> <p>BMI Post: I: 37.9±6.9, C: 36±5 6 months: I: 37.6±5.7, C: 36.7±5.3</p> <p>Depression, (BDI)</p>	<p>Sampling method Stratification</p> <p>Blinding Double blind</p> <p>Handling of missing data ITT analysis</p> <p>Other comments Only included data from BED population</p>

	<p>Consecutive sample recruited via clinical teams and referrals at a community mental health center serving economically disadvantaged persons</p> <p>Study period August 2007–October 2009</p> <p>Follow-up 6 months</p>	<p>Drop out Post treatment: 1 (5%) 6 months: 2 (10%)</p> <p>Completers 14 (70%)</p>	<p>Drop out Post treatment & 6 months: 1 (5%)</p> <p>Completers 15 (75%)</p>	<p>Post: I: 11.4±12, C: 17.7±12 6 months: I: 10.3±10.1, C: 20.9±11.9</p>	
<p>Grilo et al 2011 USA [15]</p>	<p>Population N=125 Mean age: 44.±9.4 Mean BMI: 38.8±5.8 67% females</p> <p>Inclusion criteria Age 18–60, met full DSM-IV research criteria for BED, BMI 30–55</p> <p>Setting Outpatients recruited via print advertisements</p> <p>Study period NR</p> <p>Follow-up 6 and 12 months</p>	<p>CBT+Behavioural Weight loss program (BWL) n=35</p> <p>CBT was delivered first, followed by BWL. CBT: 16 sessions over 16 weeks, following the protocol by Fairburn 1993. BWL: 16 sessions over 24 weeks following the manualized LEARN programme for weight management (Brownell 2000)</p> <p>BWL N=45 16 group 60-min sessions for 24 weeks</p> <p>Drop out CBT-BWL BWL</p> <p>Compliance</p>	<p>CBT n=45</p> <p>16 group 60-min sessions</p> <p>Duration 24 weeks</p> <p>Drop out</p> <p>Compliance 34 (76%)</p>	<p>Remission rate (zero OBEs the last 28 days) Post: CBT: 44.4%, BWL: 37.8%, CBT-BWL 48.6% 6-month: CBT: 51.1%, BWL: 33.3%, CBT-BWL: 48.6% 12-month: CBT: 51.1%, BWL: 35.6%, CBT-BWL:40%</p> <p>Binge episodes/months Post: CBT: 2.2±3.8, BWL: 4.6±11, CBT-BWL: 3.4±9 6 months: CBT: 2.7±8.5, BWL: 5.5±7.6, CBT-BWL: 3.2±7.8 12 months: CBT: 2.4±8.1, BWL: 4.6±6, CBT-BWL: 4±8.4</p> <p>EDE-Q Global score Post: CBT: 1.7±0.9, BWL: 1.8±0.8, CBT-BWL: 1.6±0.9 6 months: CBT: 1.6±0.8, BWL: 1.8±0.7, CBT-BWL: 1.4±0.9 12 months: CBT: 1.5±0.8, BWL: 1.6±0.8, CBT-BWL: 1.4±0.9</p>	<p>Sampling method No restriction or stratification, computer-generated sequence. Concealed allocation</p> <p>Blinding Unclear</p> <p>Handling of missing data ITT analysis</p>

		BWL: 31 (69%) BT+BWL: 21 (60%)		<p>BMI Post: CBT: 38.5±5.7, BWL: 35.7±5.9, CBT-BWL: 38.9±6.2 6-month: CBT: 38.7±5.7, BWL: 36.6±6.8, CBT-BWL: 38.2±5.3 12-month CBT: 38.3±6, BWL: 36.6±6.5, CBT-BWL: 38.7±5.6</p> <p>Depression (BDI) Post: CBT: 10.1±8.8, BWL: 11.1±8.3, CBT-BWL: 9.7±9.2 6 months: CBT: 8.1±7.3, BWL: 11.1±8.7, CBT-BWL: 10.1±9.9 12 months: CBT: 9.1±7.9, BWL: 9.6±7.7, CBT-BWL: 9.7±9.3</p>	
<p>Grilo et al 2005 [16] Masheb et al 2007 [17] Masheb et al 2008 USA [18]</p>	<p>Population N=90 Mean age: 46.3±9 Mean BMI: 35.5±7 Age onset BED: 27.1/27.5/28.9 79% females</p> <p>Inclusion criteria DSM-IV criteria for BED, age 18–60, BMI ≥ 27</p> <p>Setting Outpatients recruited via print advertisements</p> <p>Study period NR</p> <p>Follow-up Post treatment</p>	<p>CBT- guided self-help (CBT-gsh) n=37</p> <p>Behavioural weight loss treatment (BWL-gsh) N=38</p> <p><i>CBT</i>: self-help version of the professional therapist manual (Fairburn, Marcus, & Wilson, 1993)</p> <p>BWLgsh: manual is the LEARN Program for Weight Management, 16 lessons</p> <p>Duration 12 weeks</p> <p>Completers</p>	<p>Placebo, same no of sessions as CBT or BWL n=15</p> <p>Duration 12 weeks</p> <p>Completers 87%</p>	<p>Remission rate (No OBEs for past 28 days)</p> <p>Self-monitoring, n (%) BT: 17 (46%), BWL: 7 (18.4%), C: 2 (13.3%)</p> <p>Remission rate EDE CBT: 22 (59.5%), BWL: 9 (23.7%), C: 4 (26.7%)</p> <p>Objective BED/month <i>self-monitored</i> CBT: 3.8±6.1, BWL: 7.3±8.2, C: 6.8±6.1 <i>EDE-Q method</i> CBT: 2.8±5.1, BWL: 6.7±8, C: 8.1±6.9</p> <p>Depression (BDI) CBT: 9.5±9.4, BWL: 12.0±10.3, C: 11.4±8.5</p>	<p>Sampling method 5:5:2 ratio, permuted blocks</p> <p>Blinding Unclear</p> <p>Handling of missing data ITT analysis</p>

		CBT:87% BWL: 66%		BMI CBT: 33.1±8, BWL: 34.5±8.8, C: 35.8±7.0 Rapid responder (≥65% reduction in BE by 4 th treatment wk) CBT:23/37, BWL: 18/38	
Grilo et al 2005 USA [19]	Population N=50 (29% of screened, 82% of eligible) Mean age: 47±7 (range 35–58) Mean age onset BED: 25 Mean BMI: 36±4.7 88% females Inclusion criteria DSM-IV criteria for BED, age 35–60, BMI≥30 Setting Outpatient, consecutive, via advertisement, Yale University Medical School Study period NR Follow-up 3 months	Orlistat+gsCBT+Diet Orlistat 120 mg 3 times per <i>CBT</i> : Individually, using guided self-help and Overcoming Binge Eating (Fairburn 1995). 6 individual meetings (15 – 20 min) <i>Diet</i> : balanced calorie diet women 1200 kcal, men;1500 kcal, fat ≤30%, follow Food Guide Pyramid n=25 Mean age of onset: 23.5±12.2 84% females Duration 12 weeks Drop out 6 (24%) Compliance/completers 19 (76%)	Placebo+gsCBT+Diet n=25 Mean age of onset: 27.2±14.0 92% females Duration 12 weeks Drop out 5 (20%) Compliance 20 (80%)	Remission rates (<i>No OBEs for past 28 days, based on EDE</i>), n (%) Post: I: 16 (64%), C: 9 (36%), p 0.048 3 months: I: 13 (52%), C: 13 (52%) Binge Eating, OBEs/Mo Post: I 3.2±5.5, C: 3.6±5.2) p 0.62 3 months: I: 3.4±6.5, C: 2.8±5.3), p0.87 Depression (BDI) Post: I: 10.1±7.7, C: 14.7±9.0 3 months: I: 9.9±8.6, C: 14.6±10.9 EDE-Q Global score Post: I 2.1±1, C: 2.4±0.7 3 months: I: 2.2±1.1, C: 2.3±1 Weight (Kg) Post: I: -3.5±3.5, C: -1.6±2.4 3 months: I: 3.4±5.0, C: 1.3±3.1 Adverse events Gastrointestinal events related to Orlistat (flatus with discharge, fatty or oily stools, oily discharge, increased defecation, and faecal urgency) were higher among the Orlistat group than in	Sampling method Computer generated, no restrictions Blinding Double Handling of missing data ITT analysis Funding American Heart Association; zonaghue Medical Research Foundation

				the placebo group Two patients in the Orlistad+gsCBT dropped out due to side effects	
<p>Grilo, Masheb and Wilson 2005 [20]</p> <p>Grilo et al 2006 [21]</p> <p>Grilo et al 2012 USA [22]</p>	<p>Population N=108 (54% of eligible, 26% of screened) Mean age: 44±8.6 (range 21–59) Mean BMI: 36.3±7.9 78% females</p> <p>Inclusion criteria DSM-IV criteria for BED, age 18–60, 100%–200% of IDW</p> <p>Setting Consecutive, Outpatient, Yale University, New Haven</p> <p>Study period NR</p> <p>Follow-up Post treatment, 6 and 12 months (not for placebo)</p>	<p>Fluoxetine (F), n=27 CBT+placebo (CBT) n=28 CBT+fluoxetine (CBT-F) n=26</p> <p><i>Fluoxetine</i>: 60 mg/day (mornings) <i>CBT</i>: weekly individual 60-minutes sessions for 16 weeks, followed Fairburn's manual for BN</p> <p>Duration 16 weeks</p> <p>Drop out 6 (23%)</p> <p>Completers Fluoxetine: 21 (78%) CBT: 22 (79%) CBT+F: 20 (77%)</p> <p>6 months Fluoxetine: 16 (59%) CBT: 21 (75%) CBT+F 17 (65%)</p> <p>12 months Fluoxetine: 17 63(%) CBT: 22 (79%) CBT+fluoxetine: 19 (73%)</p>	<p>Placebo n=27</p> <p>Duration 16 weeks</p> <p>Drop out 5 (19%)</p> <p>Completers 23 (85%)</p>	<p>Binge episodes/months (EDE-Q) Post: C: 7.2±9.2, F: 10.3±11.1, CBT: 1.8±3.9, CBT+F: 4.7±6.9 6 months EMM±SE F: 11.63±2.37, CBT: 5.73±1.43 CBT+F: 3.94±1.55 12 months EMM±SE F: 10.40±1.92, CBT: 4.63±1.48, CBT+F: 4.64±1.70</p> <p>Binge episodes/months (daily self-monitoring) Post: C: 7.4±10.2, F: 11.0±11.2 CBT: 2.6±5.8, CBT+F: 4.2±6.9</p> <p>Remission rate (Per EDE) Post: C: 26%, F: 26%, CBT: 61%, CBT+F: 50% 6 months: F 1/27, CBT: 7/28, CBT+F 9/26, 12 months: F1/27, CBT: 10/28, CBT+F: 7/26</p> <p>EDE-Q Global score Post: C: 2.1±1.6, F: 3.1±1.6, CBT: 2.1±1, CBT+F: 2.2±1.5 6 months, EMM±SE F:3.52±0.27, CBT+F: 2.5±0.26, CBT: 2.5±0.24 12 months, EMM±SE F: 3.32±0.26, CBT+F: 2.4±0.25, CBT: 2.73±0.24</p>	<p>Sampling method Computer generated table, blocks of 8, sealed concealment</p> <p>Blinding Double</p> <p>Handling of missing data ITT</p> <p>Funding National Institutes of Healthy. Eli Lilly and Co provided fluoxetine and matching Placebo Pills</p>

				<p>Depression (BDI) Post: C: 11.7±10.3, F: 11.8±9.8, CBT: 6.5±6.8, CBT+F: 9.2±7.3 6 months, EMM±SE F: 14.44±1.67, CBT: 10.19±1.49, CBT+F: 10.73±1.64 12 months EMM±SE F: 12.88±1.63, CBT: 11.43±1.49, CBT+f: 11.17±1.57</p> <p>BMI Post: C: 35.7±7.5, F: 38.1±9.6, CBT: 34.2±5.8, CBT+F:34.9±7.9 6 mon EMM±SE F: 36.16±0.58, CBT: 35.93±0.50, CBT+F: 36.86±0.58 12 mon EMM±SE F: 36.15±0.57, CBT: 34.76±0.51, CBT+F: 35.83±0.58</p>	
<p>Guerdjikova et al 2012 USA [23]</p>	<p>Population N=40 (63% of screened) Mean age: 40±12 Mean BMI: 40.6±7.4 88% females</p> <p>Inclusion criteria Aged 18 and 65 years, met DSMIV-TR criteria for BED, ≥2 binge days/week, met DSM-IV-TR criteria for depressive disorder: ≥25 on IDS-C</p> <p>Setting Outpatients, recruited by advertisements, 2 sites:</p>	<p>Duloxetine n=20</p> <p>30 mg/day for 7 days, increased to 60 mg/day two weeks. In absence of remission of BE or depressive symptoms, side effects: dose could increase to 90 mg/day forth week and 120 mg/day at beginning of sixth week. Dosing either 1or 2/day</p> <p>Duration 12 weeks</p>	<p>Placebo n=20</p> <p>Dose same as intervention group</p> <p>Duration 12 weeks</p> <p>Drop out 6 (30%)</p> <p>Compliance 14/20</p>	<p>Remission I: 10 (56%), C: 6 (30%)</p> <p>Binge day frequency/week I: 1.0±1.7 (N=18), C: 1.3±1.2 (N=20), p0.15</p> <p>Binge episode frequency per week I: 1.1±2.0, C: 1.3±1.2, p0.27</p> <p>BMI I:37.7±7.5, C: 42.9±7.7, p0.08</p> <p>Depression I: 19.1±11.5, C: 21.6±12.7</p>	<p>Sampling method 1:1 ratio, permuted blocks, computer generated</p> <p>Blinding Double blind</p> <p>Handling of missing data ITT analysis</p> <p>Fundins Eli Lilly</p>

	University of Cincinnati Medical Center and the Lindner Center of HOPE Study period NR Follow-up Post treatment	Drop out 7 (35%) Compliance 13/20			
Guerdjikova et al 2009 USA [24]	Population N=51 (71% of screened) Mean age: 44 Mean BMI: 40 79.5% females Inclusion criteria Met DS-IV criteria for BED, BMI≥30, age 18–65 Setting Single center, University Medical center, Outpatients recruited via advertisements Study period NR Follow-up Post intervention and 1 week after	Lamotrigine, flexible dose n=26 84% females Starting at 25mg/day for 2 weeks, then successively increased to 100mg/bid if tolerated Duration 16 weeks (12 weeks dosage titration phase and 4 weeks maintenance phase) Drop out NR Compliance 56% (14) completed	Placebo n=25 75% females Duration Drop out NR Compliance 71% (17) completed	Remission ITT: I: 13 (52%), C: 18 (75%), p0.14 Completers: I: 8 (27%), C: 16 (94%) Binge days/week I: 1.58±2.12, C: 0.76±1.71 Binges/week I: 1.65±2.35, C: 0.76±1.71 BMI I: 38.24±5.7, C: 41.50±7.42 Depression (MADRS) I: 2.16±3.34, c: 0.56±1.23 EDE-Q Total score I: 7.96±4.61, C: 9.91±4.19 Adverse events No significant difference between the groups. The most common: Headache: I: 35%, C: 28% Insomnia: I: 35%, C: 20% Somnolence: I: 27%, C: 8%	Sampling method 1:1 ratio computer generate, permuted blocks Blinding Double-blind Handling of missing data ITT analysis Funding GlaxoSmithKleine
Guerdjikova et al	Population N=44 (79% of screened)	Escitalopram n=21 (20)	Placebo n=23	Binges/week I: 0.9±1.4 (n20), C: 1.7±1.5	Sampling method

<p>2008 USA [25]</p>	<p>Mean age: 39 Mean BMI: 40.2 98% females</p> <p>Inclusion criteria Age 18–60, BED according to DSM-IV, BMI≥30 kg/m;</p> <p>Setting Single center, outpatients recruited via advertisements</p> <p>Study period January 2003–July 2003</p> <p>Follow-up Post intervention</p>	<p>10 mg/day for 7 days, then 20 mg/day for 7 days, and then 30 mg/day, remainder of the study. If side effects dosage reduced to 10mg/day</p> <p>Duration 12 weeks</p> <p>Drop out 5/20 (25%)</p> <p>Compliance 75% (15)</p>	<p>Dose same as for intervention</p> <p>Duration 12 weeks</p> <p>Drop out 4 (17%)</p> <p>Compliance 82.7% (19)</p>	<p>Binge days/week I: 0.9±1.4, C: 1.6±1.4</p> <p>Remission I: 50%, C: 26%</p> <p>BMI I: 40.4±7, C: 40.5±5</p> <p>Depression (HAM-D) I: 2.4±2.9, C: 4.8±5.1</p> <p>Adverse events No significant difference between the groups. Most common were: Dry mouth: I: 33%, C:27% Diarrhoea: I: 24%, C:22% Fatigue: I: 14%, C: 22% Headache: I: 14%, C:17%</p>	<p>1:1 ratio, permuted blocks, computer generated</p> <p>Blinding Double blind</p> <p>Handling of missing data ITT analysis</p> <p>Funding Forrest Laboratories</p>
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<p>Hilbert and Tuschen-Caffier 2004 Germany [26]</p>	<p>Population N=28 (36% of eligible, 21% of screened) Full-BED: 71.4% Mean age: 40 Mean BMI: 35.2</p> <p>Inclusion criteria DSM-IV criteria for BED except for frequency criterion (freq 1 day/wk over last 6 months allowed), female</p> <p>Setting Outpatient recruited via advertisements in newspaper: Psychotherapeutic unit</p> <p>Study period NR</p> <p>Follow-up 4 months</p>	<p>CBT-E (CBT with body exposure component) n=14 Mean age: 42.1±12.1 Duration of BED: 13.5±10.7 years</p> <p>2 hrs sessions, 4–5 members/group. Therapy based on CBT for BN with emphasis on body image disturbance. Sessions conducted by clinical psychologist. Nutritionist and physical therapist also provided services.</p> <p>Duration 19 weekly session within 5 month and self-management phase of 3 sessions.</p> <p>Drop out 2 (14.3%)</p>	<p>CBT-C (CBT with cognitive restructuring component focused on body image) n=14 Mean age: 38.6±8.5 Duration of BED: 17.7±13.2 years</p> <p>2 hrs sessions, 4–5 members/groups</p> <p>Duration 19 weekly session within 5 month and self-management phase of 3 sessions</p> <p>Drop out 2 (14.3%)</p>	<p>Binges per week past Month Post: I: 0:6±0:7, C: 1:0±1:9 4 months: I: 1:2±2:0, C: 0:5±1:0</p> <p>Binge episodes/28 days, n (%) Post: I: 0, C: 0 4 months: I: 0, C: 2 (16.6%)</p> <p>BED diagnosis, n (%) Post: I: 2 (16.7%), C: 3 (25%) 4 months: I: 3 (25%), C: 1 (8.3%)</p> <p>Remission (abstinent for last 28 days): Post: I: 4 (33.3%), C: 9 (75%) 4 months: I: 6 (50%), C: 8 (66.7%)</p> <p>BMI Post: I: 33.1±10.4, C: 37.2±10.3 4 months: I: 33.6±11, C: 36.4±11</p> <p>Depression (BDI) Post: I: 12.8±8.8, C: 12.7±9.0 4 months I:13.9±8.7, C: 12.3±6.9</p>	<p>Sampling method NR</p> <p>Blinding unclear if assessor was blinded</p> <p>Handling of missing data No ITT analysis</p> <p>Funding Deutsche Forschungsgemeinschaft DFG</p>
<p>Hudson et al 1998 USA [27]</p>	<p>Population N=85 (74% of eligible) Mean age: 42 Mean BMI: 35 90.5% females</p> <p>Inclusion criteria Age 18–60, criteria for BED DSM-IV, ≥3 BES/wk for ≥6 months. Number of calories consumed ≥1500 kcal, wt >85% of the midpoint of IDW for Height</p>	<p>Fluvoxamine, 50 mg every evening for 3 days. After day 4, dose could be adjusted, individual basis (50–300 mg)</p> <p>n=42 Mean age:41.2 ±9.9 years 93% Females Hx of major depression: 48%</p> <p>Duration</p>	<p>Placebo n=43 Mean age:43 ±9.5 years 88% Females Hx of major depression: 28%</p> <p>Duration 9 weeks</p>	<p>Remission rate (ITT) I: 15 (38%), C: 11 (26)</p> <p>Frequency of binges (difference between groups, ±SE) −0.181±0.066, P 0.006</p> <p>Depression (Hamilton) (difference between groups, ±SE) −0.401±0.359, p 0.27</p> <p>BMI (difference between groups, ±SE)</p>	<p>Sampling method Randomization schedule</p> <p>Blinding Double</p> <p>Handling of missing data ITT analysis</p> <p>Funding</p>

	<p>Setting Outpatient, 3 centers, recruitment unclear</p> <p>Study period February–September 1993</p> <p>Follow-up Post intervention</p> <p>Run in period One week lead-in period</p>	<p>9 weeks</p> <p>Drop out 6</p>	<p>Drop out 13</p>	<p>−0.167±0.083, P 0.04</p> <p>Adverse events Insomnia: I: 44%, C: 14%, p<0.05 Nausea: I: 34%, C: 12%, p<0.01 Abnormal dreams: I: 20%, 5% p<0.01 Headache: I: 42%, C: 28% Asthenia: I: 32%, C:19%</p>	<p>The Upjohn Co. and Solvay Pharmaceuticals</p>
<p>Kelly et al 2014 Canada [28]</p>	<p>Population N=41 (69% of eligible) Mean age 45±15 83% females</p> <p>Inclusion criteria Meeting DSM-5 criteria for BED, age ≥18 years, access to internet</p> <p>Setting Outpatients via advertisements in hospitals and eating disorder community centres, online advertisements</p> <p>Study period NR</p> <p>Follow-up Post intervention</p>	<p>Self-compassion focused therapy (CFT)+food planning n=15</p> <p>Behavioural strategies (BS)+food planning n=13</p> <p>Both groups received psychoeducation based on Fairburn's' CBT. Thereafter they received different strategies to cope with their problems</p> <p>Duration 3 weeks</p> <p>Drop out CFT:4 BS: 1</p>	<p>Wait list control group n=13</p> <p>Duration 3 weeks</p> <p>Drop out 1</p>	<p>Weekly binge episodes (±SE) CFT: 2.57±0.84, BS: 1.9±0.76, C: 4.23±0.78</p> <p>Weekly binge days (±SE) CFT: 1.54±0.51, BS: 1.92±0.48, C: 3.88±0.49</p> <p>EDE–Q Global score(±SE) CFT: 2.08±0.11, BS: 2.45±0.11, C: 2.51±0.12</p> <p>BMI (±SE) CFT: 32.67±1.12, BS: 33.08±1.11, C: 33±1.12</p> <p>Depression (CESD) (±SE) CFT: 16.64±1.8, BS: 19.36±1.75, C: 22.92±1.8</p>	<p>Sampling method Unclear</p> <p>Blinding Unclear</p> <p>Handling of missing data ITT analysis</p>

<p>Kristeller et al 2013 USA [29]</p>	<p>Population N=150 (93% of eligible, 70% of screened) Mean age: 46.6 88% females Full BED: 66%</p> <p>Inclusion criteria Full or subthreshold BED, DSM-IV criteria for BED</p> <p>Setting Two sites, outpatients recruited via advertisements</p> <p>Study period NR</p> <p>Follow-up 1 and 4 months after the weekly session ended</p>	<p>Mindfulness-based eating awareness training (MB-EAT) n=53</p> <p>Psycho-educational/cognitive behaviour (PECB), n=50</p> <p>Both groups had 12 sessions of group treatment: 9 weekly and 3 monthly. Sessions were 1.5 hrs, except sessions 1 and 6 which were 2 hrs</p> <p>Duration 9 weeks treatment and then 3 boosters (1 per month)</p> <p>Drop out MB-EAT: 14 (26%) PECB: 23 (46%)</p> <p>Compliance MB-EAT PECB</p>	<p>Waiting list n=47</p> <p>Duration</p> <p>Drop out 21 (44%)</p>	<p>BED diagnosis, ITT 4 months: MB-EAT: 10/31 (32%), PECB: 419/35 (54%), C: 11/21 (52/31 (64%))</p> <p>Abstainers, (not ITT) 1 month: MB-EAT:9/36 (25%), PECB:10/32 (31%), C: 0 4 months: MB-EAT: 11/35 (39%), PECB: 10/24 (39%), C: 5/25 (20%)</p> <p>Binge days/months, not ITT 1 months: MB-EAT:4.78±5.78, PECB: 5.23±7.95 C:12.83±8.42 4 months: MB-EAT:3.78±5.15, PECB: 5.46±7.67 C:11.38±9.26</p> <p>BMI, not ITT 1 months: MB-EAT:39.54±8.53, PECB: 38.95±8.79, C:38.07±6.29 4 months: MB-EAT:40.05±9.21, PECB:38.93±8.99 C:38.42±6.52</p> <p>Depression (BDI) not ITT 1 months: MB-EAT:8.5±9.47, PECB: 9.48±10.22 C:17.21±11 4 months: MB-EAT:9.31±11.04, PECB:10±10.37 C:14.12±10.79</p>	<p>Sampling method Random number</p> <p>Blinding Unclear</p> <p>Handling of missing data Mix</p>
<p>Laederach-Hoffman et al 1999</p>	<p>Population N=31 (31% of eligible) Mean age: 38</p>	<p>Imipramine (25 mg 3 times/day) for 8 weeks</p>	<p>Placebo for 8 weeks thereafter</p>	<p>Binge eating frequency Post: I: 2.8±3, C: 5.4±5.1 6 months: I: 4.1±2.1, C: 7.2±4.3</p>	<p>Sampling method NR</p>

Switzerland [30]	<p>Mean BMI:39.65 87% females</p> <p>Inclusion criteria Age 20–60, DSM-IV criteria for BED, obese defined as BMI >27.5</p> <p>Setting Medical charts of 500 patients were screened, 100 charts were considered suitable, Counselling centre for weight problems</p> <p>Study period NR</p> <p>Follow-up Post treatment and 6 months FU</p>	<p>Thereafter: <i>Diet counselling</i> 30 min individual diet counselling by dietitian biweekly. <i>Psych Support</i> –behavioural oriented: 1) individual 15–35 min sessions biweekly 2) group-therapy, 1.5 hours (N=10–14) monthly guided by an assistant dietitian</p> <p>n=15 Mean Age: 40.7±10.9 years</p> <p>Duration 8 weeks imipramine 6 months diet and psych support</p> <p>Drop out 2 (13%)</p>	<p><i>diet counselling and psych Support</i> –</p> <p>n=16 Mean age: 35.7±10.3</p> <p>Duration 8 weeks placebo 6 months diet and psych support</p> <p>Drop out 1 (6%)</p>	<p>Weight change (kg) Post I: –2.2±1.8, C: 0.2±3.3 6 months:–1.9±6.3, C: 3±2.2</p> <p>Depression (HAMD) Post I: 9.8±7, C: 16±10.3, p<0.001 6 months: I: 12.6±5.8, C: 19.2±8.7</p> <p>Adverse events: 2 patients</p>	<p>Blinding Double</p> <p>Handling of missing data No ITT analysis</p> <p>Funding NR</p>
Leombruni et al 2008 Italy [31]	<p>Population N=42 (24% of screened) Mean age: 39.6±8.5 (range 21–57) Mean BMI: 39.3±3.5 Duration of BED: 144 months</p> <p>Inclusion criteria Female, age 18–65 years, BMI ≥30, BED according to DSM-IV-TR, absence of medically unstable conditions, full-syndrome Axis I disorders</p>	<p>Sertraline n=22</p> <p>25 mg/day for 3 days, then increased in 25-mg increments 3 days to a maximum of 200 mg/day, as tolerated (range 100–200;</p> <p>All received nutritional training+2 sessions of dietary counselling</p> <p>Duration</p>	<p>Fluoxetine n=20</p> <p>10 mg for 3 days, then increased with 10-mg increments every 3 days to a maximum of 80 mg/day (range 40–80 mg).</p> <p>All received nutritional training+2 sessions of dietary counselling</p>	<p>Abstinent S: 12 (60%), F: 9 (52.9%)</p> <p>Binge/week S:1.1±3.3 (n16), F:0.9±1.1 (n15)</p> <p>Binge Eating Score ES S: 15.9±8.2, F: 19.2±11.5</p> <p>BMI S: 36.6±4.3, F: 38.5±5</p> <p>Depression (BDI) S:9.9±5.9, F:8.4±6.2</p>	<p>Sampling method Unclear</p> <p>Blinding Double blind</p> <p>Handling of missing data No ITT</p> <p>Funding NR</p>

	<p>Setting Outpatients, recruited from 176 overweight patients from Eating Disorders Pilot Centre, Psychiatric Clinic, University of Turin</p> <p>Study period January 2003–January 2005</p> <p>Follow-up post treatment (24 weeks)</p>	<p>24 weeks</p> <p>Drop out 6 (27%)</p> <p>Compliance 16 (72.7%)</p>	<p>Duration 24 weeks</p> <p>Drop out 5 (25%)</p> <p>Compliance 15 (75%)</p>	<p>Side effects (n) S: 3 (15), F: 2 (11.8%)</p>	
Masheb et al 2011 USA [32]	<p>Population N=50 Mean age: 45.8±7.6 (range 29–60) Mean BMI: 39.1±6.6 76% females</p> <p>Inclusion criteria Aged 21–60, met DSM-IV-TR criteria for BED, BMI≥30</p> <p>Setting Outpatients recruited via advertisements</p> <p>Study period NR</p> <p>Follow-up Post treatment (6 months) and 12 months (6 months after end of treatment)</p>	<p>CBT plus low-Energy-Density diet (CBT-ED) n=25</p> <p>21 hourly individual sessions (40 minutes devoted to CBT and 20 minutes devoted to energy density): weekly for 1–16 sessions, biweekly thereafter</p> <p>Duration 6 months</p> <p>Compliance 20/25</p>	<p>CBT plus General Nutrition counselling (CBT-GN) n=25</p> <p>21 hourly individual sessions (40 minutes devoted to CBT and 20 minutes devoted to general information about nutrition): weekly for 1–16 sessions, biweekly thereafter</p> <p>Duration 6 months</p> <p>Compliance 23/25</p>	<p>Remission (0 binges for 28 days prior end of treatment) <i>self monitoring</i> CBT-ED: 15/25, CBT-GN: 18/25 <i>EDE interview</i> CBT-ED: 13/25, CBT-GN: 11/25</p> <p>Binge eating/Months (EDE), 12 months±SE CBT-ED: 0.7±0.3, CBT-GN: 0±0.2</p> <p>EDE-Q total score, ±SE CBT-ED: 1.9±0.2, CBT-GN: 2.1±0.2</p> <p>Mean change in BMI (ITT) 6 months: CBT-ED: 1.34±2.65, CBT-GN: 0.53±1.59 12 months: CBT-ED: 1.24±2.65, CBT-GN: 0.5±3</p> <p>Depression (BDI) ±SE CBT-ED: 1.9±0.2, CBT-GN: 1.8±0.2</p>	<p>Sampling method Computer-generated randomization schedule concealed allocation</p> <p>Blinding Unclear if assessor was blinded</p> <p>Handling of missing data ITT analysis</p>

<p>Masson et al 2013 USA [33]</p>	<p>Population N=60 mean age: 42.8 88.3% females</p> <p>Inclusion criteria Meet BED criteria or BED criteria with binge eating occurring ≥ 1 week for six months, ≥ 18 years of age, High school graduate or equivalent, BMI > 17.5</p> <p>Setting Outpatients recruited via advertisements</p> <p>Study period February 2011–March 2012</p> <p>Follow-up Post treatment and 6 months (no control group)</p>	<p>Guided self-help based on dialectical behaviour therapy (DBTgsh) n=30</p> <p>DBTgsh: received an orientation, DBT manual, and six 20-min support calls over 13 weeks</p> <p>Duration 13 weeks</p> <p>Drop out 3/30</p> <p>Compliance 21/30</p>	<p>Waiting list n=30</p> <p>Duration 13 weeks</p> <p>Drop out 3/30</p> <p>Compliance 27/30</p>	<p>Objective binge frequencies, last 28 days Post: I: 5.97 (9.42), C: 14.37 (11.86)</p> <p>Abstinence, last 28 days Post: I: 40%, C: 3.3%</p> <p>EDE-Q Total score, LS Post: I: 137.30\pm23.51, C: 117.17\pm17.70</p>	<p>Sampling method Urn randomization program, stratified based on age and gender</p> <p>Blinding Assessor was blinded</p> <p>Handling of missing data ITT analysis</p>
<p>McElroy 2015 USA, Sweden, Spain, Germany [34]</p>	<p>Population N=773 (58% of screened), (study 1: 383, study 2: 390) Mean age: 38 Mean BMI: 33.5 86% females</p> <p>Inclusion criteria Age 18–55, moderate to severe BED according to DSM-IV-TR, CGI≥ 4, BMI $\geq 18 - \leq 45$</p> <p>Setting</p>	<p>Lisdexamfetamine dimesylate (LDX)</p> <p>Dose optimization for 4 weeks (start dose 30 mg), dose maintenance for 8 weeks (70 mg, could be titrated down to 50 mg if 70 mg was not tolerated)</p> <p>N Study 1:192 Study 2:195</p>	<p>Placebo N Study 1:191 Study 2:195</p> <p>Duration 12 weeks</p> <p>Drop out Study 1: 29/191 (15%) Study 2: 42/192 (21%)</p>	<p>Binge days/week, change from BL, (LS mean\pmSEM) Study 1: I: -3.87 ± 0.124, C: -2.51 ± 0.124, p < 0.001 Study 2: I: -3.92 ± 0.135, C: -2.26 ± 0.137, p 0.001</p> <p>Remission/cessation Study 1: I: 76/190 (40%), C: 26/184 (14.1%) Study 2: I: 63/174 (36.2%), C: 23/176 (13.1%)</p>	<p>Sampling method 1:1 randomization</p> <p>Blinding Double blinded</p> <p>Handling of missing data ITT analysis</p>

	<p>2 multicentrer, outpatients, via investigator's databases and local advertisements</p> <p>Study period November 2012–25 September 2013</p> <p>Follow-up Post treatment</p> <p>Run in period 2–4 weeks</p>	<p>Duration 12 weeks</p> <p>Drop out Study 1: 20/192(10%) Study 2: 32/195 (16%)</p> <p>Compliance Study 1: 82% Study 2: 75%</p>	<p>Compliance Study 1: 82% Study 2: 75%</p>	<p>Weight, % change from baseline, (LS mean±SEM) Study 1: I: -6.25±0.292, C: 0.11±0.295 Study 2: I: -5.57±0.35, C: -1.15±0.353</p> <p>Adverse events serious Study 1: I: 3/192, C: 2/187 Study 2: I: 1/181, C: 2/185</p>	
<p>McElroy 2015 USA [35]</p>	<p>Population N=60 (43% of screened) Mean age: 41.3±12 Mean BMI: 40.1±8 Obesity: 92% 85% females Mean weekly BE: 4.4±1.2</p> <p>Inclusion criteria Age 18–65 years, met DSM-IV-TR criteria for BED, 3 BED/week for the last 2 weeks, BMI≥25</p> <p>Setting Recruited via radio and advertisements</p> <p>Study period NR</p> <p>Follow-up post treatment</p>	<p>Armodafinil flexible dose Start dose 150mg/day, after 4 weeks if not stooped BE increased to 250 mg/day n=30</p> <p>Duration 10 weeks+1 weeks discontinuation</p> <p>Drop out 8/30 (27%)</p> <p>Compliance 53% (16/30)</p>	<p>Placebo n=30</p> <p>Duration 10 weeks</p> <p>Drop out 3/30(10%)</p> <p>Compliance 50%</p>	<p>Binge days/week, change from BL, I: -3.1±2.1, C: -2.4±1.6</p> <p>Depression, IDS, change from BL I: -5.5±6.9, C: -5.5±7.9</p> <p>BMI, change from BL I: -0.6±0.8, C: 0.1±1.2</p> <p>Adverse events Headache: I: 15/30, C: 10/30 Insomnia: I: 13/30, C: 9/30 Nausea: 7/30, C: 4/30 Felling jittery: I: 9/30, C: 0 Dry mouth: 7/30, C: 1/30 Anxiety: 3/30, C: 2/30 Fatigue: I: 1/30, C: 4/30 Diarrhea: I: 2/30, C: 3/30 Attentions disturbance: I: 2/30, C: 2/30 Flashes: I: 3/30, C: 1/30 Vivid dreams: I: 2/30, C: 1/30 Dizziness: I: 1/30, C: 2/30 Somnolence: I: 2/30, C: 1/30</p>	<p>Sampling method 1:1 computer generated coding, permuted blocks, concealed allocation</p> <p>Blinding Double blinded</p> <p>Handling of missing data ITT analysis</p>

	Run in period 2 weeks				
McElroy et al 2015 USA [36]	<p>Population N=260 (42% of screened, 83% of eligible) Mean age 38.7±10.2 Mean BMI.34.9±5.3 81.5% females</p> <p>Inclusion criteria Age 18–55 years, met DSM-IV TR criteria for BED, BMI≥25–45</p> <p>Setting 31 sites, outpatients, recruitment unclear</p> <p>Study period May 2011–January 2012</p> <p>Follow-up post intervention</p>	<p>Lisdexamfetamine 30, 50 or 70 mg/day Dosage titrated across 3 weeks and maintained for 8 weeks 30 mg/day: n=66 50 mg/day, n=65 70 mg/day, n=65</p> <p>Duration Study duration:14 weeks Treatment: 11 weeks</p> <p>Drop out 30 mg/day: N=15 (23%) 50 mg/day, N=13 (20%) 70 mg/day, N=13 (20%)</p>	<p>Placebo n=63</p> <p>Duration 14 weeks</p> <p>Drop out 17 (27%)</p>	<p>BE days/week Placebo:1.1±1.45 30 mg/day: 1±1.69 50 mg/day: 0.4±0.86 70 mg/day: 0.5±1.25</p> <p>Change Placebo: -3.3±2.04 30 mg/day: -3.5±1.95 50 mg/day: -4.1±1.52 70 mg/day: 4.1±1.57</p> <p>BE episodes Placebo: 1.1±1.55 30 mg/day: 1.2±2.13 50 mg/day:0.5±1.01 70 mg/day:0.5±1.34</p> <p>Remission Placebo: 21.3% 30 mg/day: 34.9% 50 mg/day: 42.4% 70 mg/day: 50%</p> <p>Depression (MADRS) (change±SE) Placebo: -1.7±0.35 30 mg/day: -1.9±0.34 50 mg/day: -1.3±0.33 70 mg/day: -1.6±0.33</p> <p>Weight, kg mean change Placebo: -0.1±3.09 30 mg/day: -3.1±3.64 50 mg/day: -4.9±4.43</p>	<p>Sampling method 1:1:1, web response system</p> <p>Blinding Double blind</p> <p>Handling of missing data ITT analysis</p>

				70 mg/day: -4.9 ± 3.93	
				<p>Adverse events Any: Placebo: 58%, 30 mg/day: 86.4% 50mg/day:86.2%, 70mg/day:81.5% Dry mouth: Placebo: 7.9%, 30 mg/day: 33.3%,50mg/day:33.8%, 70mg/day: 41.5% Decreased appetite: Placebo: 6.3%, 30 mg/day: 25.8%, 50mg/day:20%, 70mg/day:18.5% Insomnia: Placebo: 1.6%, 30 mg/day: 10.6%, 50mg/day: 15.4%, 70mg/day: 13.8%</p>	
McElroy et al 2007 USA [37]	<p>Population N=394 Mean age: 44.5 Mean BMI: 38.5 84.2% females</p> <p>Inclusion criteria Age 18–65 years, met DSM-IV criteria for BED, ≥ 3 BE days/week, BMI 30–50</p> <p>Setting Single center, outpatients from private practice and university, recruited via advertisements and radio</p> <p>Study period October 2003–February 2005</p> <p>Follow-up Post intervention</p>	<p>Topiramate n=195</p> <p>Flexible dose; 25 mg/day, titrated weekly over an 8-week period to 400 mg/day or the max tolerated dose.</p> <p>Duration 16 weeks</p> <p>Drop out 55 (27%)</p> <p>Completers 140</p>	<p>Placebo n=199</p> <p>Duration 16 weeks</p> <p>Drop out 59 (29%)</p> <p>Completers 140</p>	<p>Remission I: 113 (58%), C: 57 (29%)</p> <p>Binge eating days/week. Mean change: I: -3.5 ± 1.9, C: -2.5 ± 2.1, $p < 0.001$ I: 0.9, C: 2.2</p> <p>Depression (MADRS) Mean change: I: -0 ± 7, C: -0.7 ± 6.2</p> <p>BMI, -0.712 $p < 0.01$</p> <p>Adverse events ($p < 0.001$) Parasthesia: I: 55.9%, C: 12.4% Taste perversion: I: 13.9%, C: 1, Concentration problems: I: 12.9%, C: 2.5%</p>	<p>Sampling method 1:1 ratio, permuted block, computer generated</p> <p>Blinding Double blind</p> <p>Handling of missing data ITT analysis</p> <p>Funding Ortho-McNeil Neurolocs, AstraZeneca</p>

<p>McElroy, Hudson et al 2003 USA [38]</p>	<p>Population N=38 (76% of screened) Lifetime major depressive disorder: 86.5% Current major depressive disorder: 31% 95% Females</p> <p>Inclusion criteria Aged 18–60, DSM-IV criteria for BED, ≥3 binge episodes weekly for ≥6 months: weight >85% of IBW</p> <p>Setting Outpatients recruited via advertisement, single center</p> <p>Study period August 2000–July 2001</p> <p>Follow-up Post treatment</p> <p>Run in period 1 week of single-blind placebo</p>	<p>Citalopram 20 mg/day for first 7 days: increased as tolerated to 40 mg/day for 7 days, and then 60 mg/day for remainder of study. n=19 Mean age: 42.0±9.0</p> <p>Duration 6 weeks</p> <p>Drop out 3 (16%)</p> <p>Completers 16/19</p>	<p>Placebo n=19 Mean age:39.2±12.0 95% females</p> <p>Duration 6 weeks</p> <p>Drop out 4 (22%)</p> <p>Completers 15/19</p>	<p>Binges/week I: 1.7±3.1, C: 3.4±3.0</p> <p>Binge days/week I: 1.2±2.0, C: 2.8±2.2</p> <p>Remission I: 9/19 (47%), C: 2/19 (21%)</p> <p>Depression (HAM-D) I: 1.4±2.3, C: 1.9±3.1</p> <p>BMI I: 40.9±7.0, C: 35.7±7.5</p> <p>Adverse events: Sweating (P=0.008), fatigue (P=0.046), dry mouth, headache, diarrhea, nausea, sedation, insomnia, sexual</p>	<p>Sampling method Unclear</p> <p>Blinding Double</p> <p>Handling of missing data ITT analysis</p> <p>Funding In part by Forest Laboratories</p>
<p>McElroy et al 2000 USA [39]</p>	<p>Population N=34 Mean age: 42 Mean BMI: 36.1 94.5% females</p> <p>Inclusion criteria Aged 18–60 years, DSM-IV criteria for BED, ≥3 BE/week for ≥6 months, BE defined by DSM-</p>	<p>Sertraline 50mg/day for ≥3 days: adjusted as tolerated to between 1 to 4 capsules daily. Mean end of study dose 187±30 mg</p> <p>n=18 89% females</p>	<p>Placebo n=16 100% females</p> <p>Duration 6 weeks</p> <p>Drop out 3 (19%)</p>	<p>Binge/week Post: I: 1.13±1.56, C:3.85±3.81, P=.008</p> <p>Frequency of binges Remission/cessation of binges: I: 7, C: 2</p> <p>BMI Diff between groups in change</p>	<p>Sampling method Unclear</p> <p>Blinding Double</p> <p>Handling of missing data ITT analysis</p>

	<p>IV criteria plus required size at least 1500 kcal weight >85% of IBW</p> <p>Setting Outpatient: single center, recruitment unclear</p> <p>Study period NR</p> <p>Follow-up Post treatment</p> <p>Run in period 1 week of single-blind placebo</p>	<p>Duration 6 weeks</p> <p>Drop out 5 (28%)</p> <p>Compliance 13</p>	<p>Compliance 13</p>	<p>over time (SE): -0.596 (0.189), P=0.002 in favour of I</p> <p>Depression (HAMD) Diff between groups over time (SE): 1.33 (1.00)</p> <p>Advert Events: Participants experiencing insomnia: I: 7 (39%), C: 1 (6%), P=0.04</p>	<p>Funding In part by Pfizer, Inc</p>
<p>Munsch et al 2007 [40] Munsch et al 2012 Switzerland [41]</p>	<p>Population N=80 (80% of eligible, 21 of screened) Mean age: 46.1 Mean BMI: 34 89% females</p> <p>Inclusion criteria Aged 18–70, BMI 27–40, meet full DSM-IV-TR1 criteria for BED</p> <p>Setting Outpatients recruited via newspaper advertisements</p> <p>Study period NR</p> <p>Follow-up 6 and 12 months and 6 years</p>	<p>CBT n=44</p> <p>For both CBT and BWLT: ≤7 members/group, led by therapists, active treatment phase: 16 weekly 90-min group sessions. Follow-up treatment: 6 monthly 90-min group sessions. The last session took place 12 months after the end of active treatment.</p> <p>Duration Active: 16 weeks</p> <p>Drop out 16 weeks: 13 (29.3%) FU 12 months: 15 (34%)</p>	<p>Behavioural Weight Loss Treatment (BWL) n=36</p> <p>Duration 16 weeks</p> <p>Drop out 16 weeks: 9 (25.0%) FU 12 months: 13 (36%) 6 years: 18 (50%)</p> <p>Compliance 16 weeks: 67.1% of all sessions FU 12 months: 55%</p>	<p>Objective binge days/28 days Post: CBT: 6.20±8.66, BWL: 7.54±9.38 12 months CBT: 4.8±4.8, BWL: 5.77±9.15</p> <p>BED diagnosis, % Post: CBT:50%, BWL: 78% 12 months CBT:43%, BWL:53% 6 years: CBT: 3.8%(1/26),11.5% (3/2)</p> <p>Remission Post: CBT:41%, BWL: 58% 12 months CBT:52%, BWL:50%</p> <p>No of weekly binges (self-reported) Post: CBT: 0.14±0.45, BWL: 1.15±1.89 12 months CBT: 0.52±1.59, BWL: 1.5±2.14</p> <p>BMI</p>	<p>Sampling method Permuted block design</p> <p>Blinding Assessors blinded</p> <p>Handling of missing data ITT analysis</p>

		6 years: 23 (52%) Compliance 16 weeks: 67.3% of all sessions FU 12 month: 45%		Post: CBT: 33.58±4.53, BWL: 32.±29 4 12 months CBT: 33.1±5.04, BWL: 33.18±4.17 6 years: CBT: 31.5±5.2, BWL: 33.5±3.8 Depression (BDI) Post: CBT: 9.16±7.8, BWL: 9.19±6.54 12 months CBT: 8.23±11.31, BWL: 7.76±6.48	
Pearlstein et al 2003 USA [42]	Population N=20 (80% of screened) Mean age: 41.0 Mean BMI: 41.16 85% females Inclusion criteria DSM IV research criteria for BED based on EDE Setting Outpatient recruited via advertisements and referral from health professional, single center Study period NR Follow-up Post treatment Run in period 1 week of single-blind placebo	Fluvoxamine, flexible dose, titrated up to 150 mg b.i.d. Average dose 239 mg/day n=9 Duration 12 weeks Drop out 0 Compliance 100%	Placebo Average dose 264 mg/day n=11 Duration 12 weeks Drop out 0 Compliance 100%	Remission I: 50%, C: 50% Binge days/past 28 days I: 3.11±4.20, C: 7.31±9.31 Depression (HAM-D) I: 9.38±9.71, C: 7.38±9.71 Weight, lbs I: 242±82, C: 262±99 Adverse events, N: In study completers: Sedation: I: 8, C: 3 Nausea: I: 4, C: 1 Dry mouth:I: 4, C: 3 Decreased libido: I: 3, C: 0	Sampling method Unclear Blinding Double Handling of missing data Unclear Funding Solvay Pharmaceuticals
Peterson et al 2009 USA	Population N=129 Mean age: 48	Therapist-led (TL) n=60	Waiting list n=69	Abstinence/remission rate Post: C: 10%, TL:52%	Sampling method By independent bio-statistician, adaptive

[43]	<p>Mean BMI: 38.7 90% females Antidepressant medication: 78.8%</p> <p>Inclusion criteria DSM-IV full criteria for BED, BMI\geq25</p> <p>Setting Recruited from two Midwestern clinical sites using advertisements and referrals from local eating disorder treatment clinics and other health professionals</p> <p>Study period NR</p> <p>Follow-up Post treatment (6 and 12months only for intervention group)</p>	<p>15 group sessions of 80-minute duration over a 20-week time period, weekly sessions for the first 10 weeks and then bi-weekly group size: 2–11</p> <p>Duration 20 week</p> <p>Drop out TL: 7/60 (12%)</p>	<p>Duration 20 weeks thereafter started treatment</p> <p>Drop out 13/69 (19%)</p>	<p>6 months: TL: 43%, 12 months: TL: 21%</p> <p>OBE days/28 days Post: C: 13.5\pm9.3, TL: 4.4\pm7.3 6 months: TL: 7.4\pm9.3, 12 months: TL: 10.6\pm9.3</p> <p>OBE episodes Post: C: 17.6\pm14.6, TL: 6.3\pm12.3 6 months: TL: 10.6\pm14.8, 12 months: TL: 16.2\pm19.4</p> <p>EDE-Q Global score Post: TL:2.1\pm0.9, C: 2.3\pm0.9 6 months: TL: 2.1\pm0.9 12 months: TL: 2.4\pm1</p> <p>BMI Post: C: 38.3\pm7.4, TL: 40.8\pm11.7 6 months: TL: 39.8\pm10.0 12 months: TL: 38.3\pm8.5</p> <p>Depression (IDS-SR 22) Post: C: 23.3\pm10.7, TL: 19.8\pm11.3 6 months: TL: 20.3\pm11.7 12 months: TL: 20.8\pm12</p>	<p>randomization strategy, concealed</p> <p>Blinding Assessors blinded</p> <p>Handling of missing data Unclear</p> <p>Other comments Only included the group therapist led and waitlist since the other groups had to high drop out to be included. More younger that did not complete trial</p>
Rica et al 2010 Italy [44]	<p>Population N=144 (91% of eligible, 82% of screened) Mean age: 47 88.2% females Sub-BED: 43.8%</p> <p>Inclusion criteria</p>	<p>Individual CBT (I-CBT) n=72</p> <p>22 individual sessions of 50 min each, group size:12</p> <p>Duration 24 weeks</p>	<p>Group CBT (G-CBT) n=72</p> <p>20 group sessions of 60 min each, group size:12</p> <p>Duration 22 weeks</p>	<p>Remission rate Post: I-CBT: 33.3%, G-CBT:16.7% 3 years: I-CBT: 36%, G-CBT: 28%</p> <p>Diagnostic change from BED to s-BED I-CBT:18.1%, G-CBT: 33.3%</p>	<p>Sampling method Table of random no, permuted blocks</p> <p>Blinding The assessors were blinded</p>

	<p>Age 18–60 years, meet DSM-IV criteria for BED or subthreshold BED</p> <p>Setting Outpatients, Clinic for Eating Disorders, recruited via referrals by family doctors and other clinicians</p> <p>Study period January 2000–June 2003</p> <p>Follow-up Post treatment and 3 years</p>	<p>Drop out 4/72 (BED patients)</p>	<p>Drop out 6/72</p>	<p>Binge episodes/months, median (quartiles) Post: I-CBT: 4.0 (0;7.5), G-CBT: 4.0 (2.0;8.0) 3 years: I-CBT: 4.0 (0;6), G-CBT:4.0 (0;8)</p> <p>BMI, mean Post: I-CBT: 36.5 (32.1;42.3) G-CBT: 37.4 (32;40.1) 3 years: I-CBT: 36.0 (3;42.7), G-CBT: 37 (31.9;41.8)</p> <p>Depression (BDI) median (quartiles) Post: I-CBT: 17 (12;23), G-CBT: 15, (9;22.7) 3 years: I-CBT: 17 (11.7;1.5), G-CBT:14.0 (7;22)</p> <p>EDE-Q Total, median (quartiles) Post: I-CBT: 2.1 (0.5;3.3), G-CBT: 2.9 (2.3;3.5) 3 years: I-CBT: 1.3 (0.5;3.1), G-CBT: 2.7 (2.1;3.4)</p> <p>QoL (SCL-90) median (quartiles) Post: I-CBT: 1.2 (0.7;1.7) G-CBT: 1.1 (0.7;1.3) 3 years: I-CBT: 1.2 (0.6;1.7) G-CBT: 1.1 (0.7;1.3)</p> <p>BES, median (quartiles) Post: I-CBT: 16 (3.5;30), G-CBT: 17.0 (12;27.7) 3 years: I-CBT: 17.5 (12.0;31), G-CBT: 17 (11;25)</p>	<p>Handling of missing data ITT analysis</p>
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<p>Schlup et al 2009 [45] Fischer et al 2014 Switzerland [46]</p>	<p>Population N=36 (78% of eligible, 27% of screened) Mean age: 44.3±10.3 Mean BMI: 33.4±7.6</p> <p>Inclusion criteria Age 18–70 years, met DSM-IV-TR full diagnostic criteria for BED</p> <p>Setting Recruited via newspaper advertisements and flyers, University of Basel</p> <p>Study period December 2004–June 2007</p> <p>Follow-up Post treatment, 4 years FU for intervention group</p>	<p>Short version of CBT+booster sessions (sh-CBT) n=18</p> <p>8 weekly 90-min sessions</p> <p>Duration 8 weeks</p> <p>Drop out 1/18</p> <p>Compliance Unclear</p>	<p>Waiting list n=18</p> <p>Duration 8 weeks</p> <p>Drop out 0</p> <p>Compliance Unclear</p>	<p>Abstainer rates, % Sh-CBT: 39%, C: 0%</p> <p>Objective binge episodes (difference from BL) Sh-CBT: -5.47, C: -0.43</p> <p>Subjective binge episodes, (difference from BL) Sh-CBT: -0.65, C: -0.17</p> <p>No of weekly binges (difference from BL) Sh-CBT: -1.58, C: 0.35</p> <p>BMI (difference from BL) Sh-CBT: 0.01, C: 0.42</p> <p>Depression (BDI) (difference from BL) Sh-CBT: -1.86, C: 0.96</p>	<p>Sampling method Permuted block design</p> <p>Blinding Unclear</p> <p>Handling of missing data Linear mixed model</p>
<p>Shapiro et al 2007 USA [47]</p>	<p>Population N=66 (86% of eligible, 56% of screened) Mean age: 39.6±11.4 Mean BMI: 37.72±9.45 92% females Full BED: 70%</p> <p>Inclusion criteria Age 18–60, DSM-IV BED-based, subthreshold BED: ≥two objective binge eating episodes/month, BMI≥27,</p>	<p>CBT n=22 CBT: group treatment for weekly 90-minute sessions, 5–10 participants/group</p> <p>CD-ROM n=22 Interactive programme incorporates vivid illustrations, photography, interactive exercises and video clips</p> <p>Duration</p>	<p>Waiting list n=22</p> <p>Duration 10 weeks</p> <p>Drop out 2/22 (9%)</p>	<p>Abstinence, N (%) Post: CD-ROM: 2 (13.3%), CBT: 1 (7.7%), WL: 0 2 months: CD-ROM: 1 (12.5%), CBT: 2 (22.2%), WL: 0</p> <p>BES Post: CBT: 20.92±4.31, CD-ROM: 23.4±5.83, WL: 23.6±6.14</p> <p>Binge days/week Post: CBT: 2.08±0.67, CD-ROM: 2.58±1.56, WL: 2.5±1.2</p>	<p>Sampling method Block design</p> <p>Blinding Unclear</p> <p>Handling of missing data ITT analysis</p>

	<p>regular access to an IBM-compatible computer</p> <p>Setting Outpatients recruited via newspaper advertisements</p> <p>Study period NR</p> <p>Follow-up Post treatment and 2 months for CBT and CD-ROM</p>	<p>10 weeks</p> <p>Drop out 10 weeks: CBT: 9 (41%) CD-ROM: 7 (32%) 2 months: CBT: 13 (59%), CD-ROM: 14 (63%)</p>		<p>BMI POST, CBT: 37.03±10.49, CD-ROM: 38.63±9, WL: 34.39±6.35</p>	
<p>ter Huurne et al 2015 Netherlands [48]</p>	<p>Population N=85 Mean age: 40.2±11.4 BMI >25: 100% Duration of BED > 11 years: 72%</p> <p>Inclusion criteria Females, age ≥18 years, BED according to DSM-IV</p> <p>Setting Outpatients, announcements and advertisements</p> <p>Study period March 2011–December 2013</p> <p>Follow-up Post treatment</p>	<p>Web based CBT n=43</p> <p>Structured 2 part program, >21 contacts moments and 10 assignments</p> <p>Duration 15 weeks</p> <p>Drop out 4 (9%)</p> <p>Compliance 70% (30/43)</p>	<p>Waiting list n=42</p> <p>Duration 15 weeks</p> <p>Drop out 2 (5%)</p> <p>Compliance 100%</p>	<p>EDE-Q Total I: 2.6±1.3, C: 3.2±0.9</p> <p>BMI I: 34.7±6.5, C: 34.2±5.4</p> <p>QoL, (EQ-5D VAS) I: 67.9±16, C: 62.7±15.5</p> <p>Depression (DASS) I: 8.7±7.5, C: 12±8.3</p>	<p>Sampling method Computer generated block size (2, 4 or 8), stratification 1:1, concealed allocation</p> <p>Blinding Unclear</p> <p>Handling of missing data ITT</p> <p>Other comments We only included data from the BED and not BN and EDNOS population</p>
<p>White et al 2013 USA</p>	<p>Population N=61(66% of screened) Mean age: 44±12.5 Mean BMI 35.8±6.8</p>	<p>Bupropion, 300mg/day n=31</p> <p>Duration</p>	<p>Placebo n=30</p> <p>Duration</p>	<p>Remission (no BE/month) I: 13 (42%), C: 8 (27%)</p> <p>EDE restrain</p>	<p>Sampling method Stratification by obesity grade And smoking</p>

[49]	<p>Inclusion criteria Women, aged 18–65 years, met DSM-IV TR criteria for BED, BMI≥25</p> <p>Setting Outpatients recruited via advertisements</p> <p>Study period November 2006–December 2010</p> <p>Follow-up Post intervention</p>	<p>8 weeks</p> <p>Drop out 4 (13%)</p> <p>Compliance 87%</p>	<p>8 weeks</p> <p>Drop out 3 (10%)</p> <p>Compliance 90%</p>	<p>I: 1.4±1, C: 1.6±0.8</p> <p>EDE-Q Global score I: 1.8±0.9, C: 2±0.9</p> <p>OBE, monthly I: 5±9.4, C: 6.3±8</p> <p>OBE/week I: 0.8±1.2, C: 1±1.5</p> <p>BMI I: 35.7±6.6, C: 35.2±7.4</p> <p>Depression (BDI) I: 8±8.3, C: 8.7±7.2</p> <p>Adverse events No medical events were reported</p>	<p>Blinding Double blind</p> <p>Handling of missing data ITT analysis, last data carried forward</p>
<p>Wilfley et al 2002 [50] Hilbert et al 2012 USA [51]</p>	<p>Population N=162 (83% of eligible, 17% of screened) Mean age: 45.3 Mean BMI: 37.4±5.2 82.7% females</p> <p>Inclusion criteria Age 18–65, DSM-IV criteria for BED: ≥2 days of BE/wk, ≥6 months, marked distress regarding BE, ≥3 of 5 associated behavioural features, no regular use of inappropriate compensatory behaviour, BMI 27–48</p>	<p>Interpersonal psychotherapy (IPT) n=81</p> <p><i>Both groups</i> 9 participants/group 20 90-minute weekly group sessions+3 individual sessions. Manual-based and led by two therapists</p> <p><i>IPT</i>: focused on problem resolution within 4 social domains: Grief, interpersonal role disputes, role transitions, interpersonal deficits</p>	<p>CBT n=81</p> <p><i>CBT</i>: 3 phases focusing on behavioural strategies, cognitive skills and relapse prevention</p> <p>Duration 23 weeks</p> <p>Drop out Post: 4 (5%) 4 months: 6 (7.4%) 8 mo: 10 (12%)</p>	<p>Binge days/28 days Post: CBT: 0.6±1.6, IPT: 0.9±2 4 months: CBT: 2.0±4.6, IPT: 1.5±3.9 8 months: CBT: 2.1 (5.0), IPT: 1.9 (4.5) 12 months: CBT: 1.7±4.3, IPT: 1.2±2.6</p> <p>Remission/Abstinence from binge-eating Post: CBT: 64 (79%), IPT: 59 (72%) 12 months: CBT: 48 (59%), IPT: 50 (62%) 4 years (N=90): CBT: 13/25, IPT: 23/30</p> <p>Depression (SCL) Post: CBT: 34.8±7.9, IPT: 33.6±8.6 4 months: CBT: 34.2±8.3, IPT: 34.6±10.6</p>	<p>Sampling method NR</p> <p>Blinding NA for participants Assessors blinded,</p> <p>Handling of missing data ITT analysis</p> <p>Funding NIMH</p>

	<p>Setting Recruited via advertisements, two sites, outpatient, Eating disorder clinics at Yale U and San Diego State</p> <p>Study period NR</p> <p>Follow-up 4, 8 and 12 months 4 years (but only on 90 of 162 patients)</p>	<p>Duration 23 weeks</p> <p>Drop out Post: 1 (1.2%) 4 months: 5 (6%) 8 months: 6 (7.4%) 12 months 10 (12%) 4 years: 12 (27%)</p> <p>Completers Post treatment: 80 12 months: 68 (84%)</p>	<p>12 mon: 14 (17%) 4 years: 20 (44%)</p> <p>Completers Post treatment: 78 12 months: 68 (84%)</p>	<p>8 months: CBT: 33.3±8.6, IPT: 34.4±10.7 12 months: CBT: 33.1±8.2, IPT: 32.2±10.3</p> <p>BMI Post: CBT: 37.5±5.3, IPT: 37.2±5.2 4 months: CBT: 37.4±5.3, IPT: 36.6±5.3 8 months: CBT 37.5±5.1, IPT:36.4±5.5 12 months: CBT 37.2±5.1, IPT: 36.3±5.4</p> <p>Depression (SCL) Post: CBT: 24.8±7.9, IPT: 33.6±8.6 4 months: CBT: 34.3±8.3, IPT: 34.6±10.6 8 months: CBT: 33.3±8.6, IPT: 34.4±10.7 12 months: CBT: 33.1±8.2, IPT: 32.2±10.3</p>	
<p>Wilson et al 2010 [52] Hilbert et al 2015 USA [53]</p>	<p>Population N=205 (9% of screened) Mean age: 48 Mean BMI: 36.4 56% females</p> <p>Inclusion criteria Age ≥18 years, met DSM-IV criteria for BED, BMI 27–45</p> <p>Setting Recruited via advertisement and clinical referrals, University outpatient clinics</p> <p>Study period</p>	<p>Interpersonal psychotherapy (IPT) n=75</p> <p>Behavioural weight loss treatment (BWL) n=64</p> <p>Twenty sessions of IPT or BWL or 10 sessions</p> <p>Duration 6 months</p> <p>Drop out Post: IPT: 5/75, BWL: 18/64</p>	<p>Guided self-help CBT (gsCBT) n=66</p> <p>Duration 6 months</p> <p>Drop out Post: 20/66</p>	<p>Remission, % Post: IPT: 65%, gsCBT: 60%, BWL: 56% 1 year: IPT:57%, gsCBT: 62%, BWL: 44% 2 years: IPT:68%, gsCBT: 64%, BWL: 47%</p> <p>No of binge days/28 days Post IPT: 3.7±7.2, BWL: 4.3±7.9, gsCBT: 3.8±7.2 1 years: IPT: 4.8±7.6, BWL: 6.5±8.7, gsCBT: 4.3±7.8 2 years: IPT: 4.3,±7.8, BWL: 5.8±8.5, gsCBT: 3.7±7.3</p>	<p>Sampling method Computer generated sequence, stratification</p> <p>Blinding Blinded assessors</p> <p>Handling of missing data ITT analysis</p>

	<p>NR</p> <p>Follow-up Post treatment, 1 and 2 years after end of treatment</p>		<p>BMI Post: IPT: 35.9±5.3, BWL: 35.4±5.7, gsCBT: 36.1±4.4 1 years: IPT: 35.9±5.4, BWL: 36±6.2, gsCBT: 35.7±5 2 years: IPT: 36.1±5.5, BWL: 36.3±6.2, gsCBT: 35.7±4.9</p> <p>EDE-Q Global score Post: IPT: 1.8±0.9, BWL: 2.1±1.0, gsCBT: 1.7±1.0 1 years: IPT: 1.9±1.0, BWL: 2.2±1, gsCBT: 1.7±0.9 2 years: IPT: 1.7±1.1, BWL: 2±1.2, gsCBT: 1.7±1</p> <p>Rapid responder (reduction in BE ≥70 by 4th week of treatment) BWL: 47/64, CBT: 49/66, IPT: 49/75</p>	
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BA= Behavioural activation; BDI=Becks Depression Inventory; BDI-II=Becks Depression Inventory II; BED=binge eating disorder; BES=binge eating scale; BMI=body mass index; BST= Brief Strategic Therapy; BWL=behavioural weight loss; CBT= Cognitive behavioural therapy; CBT-C= CBT with cognitive restructuring component focused on body image; CBT-E= CBT with body exposure component; CBT-ED= CBT plus low-Energy-Density diet; CBT-WL= CBT+weight loss therapy; CBT-WL-D= CBT+weight loss, therapy+desipramine; CESD=Center for Epidemiological Studies for Depression; CFT= Self-compassion focused therapy; CGI= Clinical Global Impressions; DASS=Depression Anxiety Stress Scales; DSM= The Diagnostic and Statistical Manual of Mental Disorders edition; EDE= Eating Disorder Examination; EDE-Q= Eating Disorder Examination-Questionnaire; EMM=estimated marginal of means; G-CBT=group-CBT; GSH= Guided self-help; gsCBT=guided self-help; HAD=Hospital Anxiety and Depression Scale; HAM-D=Hamilton rating scale for depression; I-CBT= Individual-CBT; IDS-C= The Inventory of Depressive Symptomatology, Clinician; IDW= ideal body weight; IPT= Interpersonal psychotherapy; ITT=intention To Treat; LDX=lisdexamfetamine; MADRS= Montgomery Åsberg Depression Rating Scale; MB-EAT= Mindfulness-Based Eating Awareness Training; NHP= Nottingham Health Profile; PECB= Psycho-educational/cognitive behaviour; LSM=Least squares mean; NR=not reported; OBE=objective binge eating; PSH= Pure self-help; QIDS-SR= Quick Inventory of Depressive Symptomatology-self-report; QoL=Quality of Life; SD=standard deviation; shCBT=self-help- CBT;TTD=Three times daily; WL= weight loss therapy



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