Evidence Table E43. Binge eating disorder behavioral and drug treatment – part 7

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| --- | --- | --- | --- |
| First Author's Last Name  Year | Definition of Psychopathology (BDI; STAI; BAI; RSE; BSQ) | Psychopathology Baseline | Psychopathology Outcomes |
| Agras, 199449 | Beck Depression Inventory (BDI) | BDI, mean (SD)  Pretreatment  G1: 13.7 (8.1)  G2: 13. 5 (7.8)  G3: 12.9 (6.5)  p=NS | BDI, mean (SD)  12 wks  G1:10.8 (8.9)  G2: 12.7 (9.2)  G3: 11.6 (8.0)  p=NS  24 wks  G1: 8.6 (8.2)  G2: 8.5 (6.5)  G3: 11.2 (8.5)  p=NS  36 wks  G1: 7.8 (7.8)  G2: 8.9 (7.6)  G3: 11.3 (10.3)  p=NS  Omnibus group X time, p=NS |

Evidence Table E43. Binge eating disorder behavioral and drug treatment – part 7 (continued)

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| --- | --- | --- | --- |
| First Author's Last Name  Year | Definition of Psychopathology (BDI; STAI; BAI; RSE; BSQ) | Psychopathology Baseline | Psychopathology Outcomes |
| Brambilla, 200950 | Symptoms checklist-90-revised (SCL-90-R)  -obsessive-compulsiveness  -depression  -anxiety  -hostility  -somatization  Personality diagnostic questionnaire-4-revised (PDQ-4-R) (only report the specific personality characteristics that showed significant results, including shizotypic, schizoid, and dependent) | SCL-90-R total scores  G1: 100 (SD 46)  G2: NR  G3: NR  SCL-90-R somatization  G1: 19 (SD 5)  G2: NR  G3: NR  SCL-90-R depression  G1: NR  G2: 17 (SD 10)  G3: NR  SCL-90-R interpersonal relationships  G1: NR  G2: 10 (SD 6)  G3: NR  PDQ-4-R schizotypic personality  G1: 2 (SD 1)  G2: NR  G3: NR  PDQ-4-R dependent personality  G1: 1 (SD 2)  G2: NR  G3: NR  PDQ-4-R schizoid personality  G1: NR  G2: 32 (SD 1)  G3: NR | SCL-90-R total scores  G1: 65 (SD 72)  G2: NR  G3: NR  Group X time, p=NR  SCL-90-R somatization  G1: 12 (SD 9)  G2: NR  G3: NR  Group X time, p=NR  SCL-90-R depression  G1: NR  G2: 12 (SD 7)  G3:  Group X time, p=NR  SCL-90-R interpersonal relationships  G1: NR  G2: 8 (SD 6)  G3: NR  Group X time, p=NR  PDQ-4-R schizotypic personality  G1: 2 (SD 2)  G2: NR  G3: NR  Group X time, p=NR  PDQ-4-R dependent personality  G1: 1 (SD 2)  G2: NR  G3: NR  Group X time, p=NR  PDQ-4-R schizoid personality  G1: NR  G2: 1 (SD 1)  G3: NR  Group X time, p=NR |

Evidence Table 43. Binge eating disorder behavioral and drug treatment – part 7 (continued)

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| --- | --- | --- | --- |
| First Author's Last Name  Year | Definition of Psychopathology (BDI; STAI; BAI; RSE; BSQ) | Psychopathology Baseline | Psychopathology Outcomes |
| Claudino, 200751 | Beck Depression Inventory (BDI) | G1: 16.8 (8.3)  G2: 15.9 (9.4)  p = 0.67 | G1: 10.9 (7.0)  G2: 9.2 (6.9)  Group X time rate of change, p = 0.20 |
| Devlin, 200752  Devlin, 200553 | Beck Depression Inventory (BDI)  Brief Symptom Inventory (BSI) | Pre-treatment BDI mean (SD)  Overall: 15.3 (9.0)  G1: 16.9 (9.1)  G2: 13.9 (10.6)  G3: 14.5 (7.2)  G4: 15.6 (9.3)  Pre-treatment BSI mean (SD)  Overall: 42.4 (29.7)  G1: 45.4 (28.1)  G2: 39.4 (32.4)  G3: 38.8 (27.7)  G4: 45.8 (31.3) | Post-treatment BDI mean (SD)  Overall: 8.3 (8.4)  G1: 6.3 (7.4)  G2: 8.4 (9.9)  G3: 7.5 (6.3)  G4: 10.6 (9.6)  Group X time, p=NS  6 months BDI mean (SD)  Overall: 7.3 (6.8)  G1: NR  G2: NR  G3: NR  G4: NR  12 months BDI mean (SD)  Overall: 7.6 (8.6)  G1: NR  G2: NR  G3: NR  G4: NR  18 months BDI mean (SD)  Overall: 7.5 (7.8)  G1: NR  G2: NR  G3: NR  G4: NR  24 months BDI mean (SD)  Overall: 7.6 (8.9)  G1: NR  G2: NR  G3: NR  G4: NR |

Evidence Table 43. Binge eating disorder behavioral and drug treatment – part 7 (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| First Author's Last Name  Year | Definition of Psychopathology (BDI; STAI; BAI; RSE; BSQ) | Psychopathology Baseline | Psychopathology Outcomes |
| Devlin, 200752  Devlin, 200553  (continued |  |  | Estimated change over 24 months mean (SE):  Overall rate ratio (outcome at 24m divided by outcome at post-treatment): 0.967 (0.027)  G1: NR  G2: NR  G3: NR  G4: NR  Individual CBT (G1&G3 vs. G2&G4): F=1.62, p=0.207  Medication: (G1&G2 vs. G3&G4): F=4.27, p=0.041  Time: F=1.43, p=0.235  CBT-by-time: NS  Medication-by-time: NS  Post-treatment BSI mean (SD)  Overall: 25.6 (29.2)  G1: 20.3 (26.1)  G2: 25.9 (31.8)  G3: 26.8 (29.5)  G4: 28.8 (30.2)  Group X time, p=NR, stated in text as significant; G1 > G2 and G3 and G4  6 months BSI mean (SD)  Overall: 21.4 (26.2)  G1: NR  G2: NR  G3: NR  G4: NR  12 months BSI mean (SD)  Overall: 22.5 (31.9)  G1: NR  G2: NR  G3: NR  G4: NR |

Evidence Table 43. Binge eating disorder behavioral and drug treatment – part 7 (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| First Author's Last Name  Year | Definition of Psychopathology (BDI; STAI; BAI; RSE; BSQ) | Psychopathology Baseline | Psychopathology Outcomes |
| Devlin, 200752  Devlin, 200553  (continued |  |  | 18 months BSI mean (SD)  Overall: 27.8 (32.2)  G1: NR  G2: NR  G3: NR  G4: NR  24 months BSI mean (SD)  Overall: 22.8 (29.4)  G1: NR  G2: NR  G3: NR  G4: NR  Estimated change in BSI over 24 months mean (SE):  Overall rate ratio (outcome at 24m divided by outcome at post-treatment): 1.001 (0.035)  G1: NR  G2: NR  G3: NR  G4: NR  Individual CBT (G1&G3 vs. G2&G4): F=0.60, p=0.441  Medication (G3&G4): F=3.16, p=0.078  Time: 0.00, p=0.967  CBT-by-time: NS  CBT-by-time: NS  Medication-by-time: NS |

Evidence Table 43. Binge eating disorder behavioral and drug treatment – part 7 (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| First Author's Last Name  Year | Definition of Psychopathology (BDI; STAI; BAI; RSE; BSQ) | Psychopathology Baseline | Psychopathology Outcomes |
| Golay, 200554 | Generalized Anxiety (measured in clinical interview)  Major Depression (measured in clinical interview)  Hamilton Anxiety Score (HAM-A)  Hamilton Depression Score (HAM-D)  Beck Depression Inventory (BDI) | Generalized anxiety  G1: 46%  G2: 58%  p = NR  Major Depression  G1: 14%  G2: 22%  p = NR  HAM-A, mean (SEM)  G1: 18.4 (0.3)  G2: 17.5 (0.5)  p = NR  HAM-D, mean (SEM)  G1: 15.3 (0.3)  G2: 16.1 (0.4)  p = NR  BDI, mean (SEM)  G1: 10.8 (1.2)  G2: 13.6 (1.3)  p = NR | Generalized anxiety  G1: 26%  G2: 38%  p = NS  Major Depression  G1: 3%  G2: 12%  p = NS  HAM-A, mean (SEM)  G1: 18.4 (0.4)  G2: 18.3 (0.5)  p = NS  HAM-D, mean (SEM)  G1: 15.6 (0.3)  G2: 16.6 (0.4)  p = NS  BDI, mean (SEM)  G1: 8.2 (0.8)  G2: 11.6 (1.6)  p = NS |

Evidence Table 43. Binge eating disorder behavioral and drug treatment – part 7 (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| First Author's Last Name  Year | Definition of Psychopathology (BDI; STAI; BAI; RSE; BSQ) | Psychopathology Baseline | Psychopathology Outcomes |
| Grilo, 200555 | Beck Depression Inventory (BDI)  Rosenberg Self-Esteem Scale (RSE) | BDI  G1: 17.1 (SD 8.9)  G1: 20.6 (SD 9.6)  p=0.19  RSE  G1: 27.7 (SD 5.1)  G2: 26.0 (SD 5.7)  p=0.28 | Post-treatment BDI  G1: 10.1 (SD 7.7)  G2: 14.7 (SD 9.0)  F=2.00  p=0.16  3m BDI  G1: 9.9 (SD 8.6)  G2: 14.6 (SD 10.9)  F=1.35  p=0.25  Post-treatment RSE  G1: 30.7 (SD 5.6)  G2: 28.0 (SD 5.6)  F=1.68  p=0.20  3m RSE  G1: 30.4 (SD 5.7)  G2: 28.3 (SD 5.2)  F=0.72  p=0.40 |
| Grilo, 201356 | Beck Depression Inventory (BDI) | BDI, mean  G1: 22.9 (SD 12.0)  G2: 25.7 (10.6)  p=NR, NS | Post-treatment BDI  G1: 11.4 (SD 12.0)  G2: 17.7 (SD 12.0)  Groups did not differ significantly in improvements (p=NR, NS)  6m BDI  G1: 10.3 (SD 10.1)  G2: 20.9 (SD 11.9)  Groups did not differ significantly in improvements (p=NR, NS) |

Evidence Table 43. Binge eating disorder behavioral and drug treatment – part 7 (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| First Author's Last Name  Year | Definition of Psychopathology (BDI; STAI; BAI; RSE; BSQ) | Psychopathology Baseline | Psychopathology Outcomes |
| Grilo, 200557  Grilo, 201258  Grilo, 201259  Grilo, 200660 | Beck Depression Inventory (BDI), mean | BDI, mean (SD  G1: 16.9 (8.4)  G2: 18.7 (9.7)  G3: 20.2 (12.1)  G4: 16.5 (8.4)  F:0.83  p=0.480 | BDI, mean (SD):  G1: 11.8 (9.8)  G2: 11.7 (10.3)  G3: 9.2 (7.3)  G4: 6.5 (6.8)  ANCOVA p=0.03  G2 v G1: p=ns  G4 v G3: p=ns  G4 v G2: p=0.04  G4 v G1: p=0.01  G3 v G2: p=ns  G3 v G1: p=0.04  6-month followup  G1: 14.4 (1.7)  G3: 10.7 (1.6)  G4: 10.2 (1.5)  12-month followup  G1: 12.9 (1.6)  G3: 11.2 (1.6)  G4: 11.3 (1.5)  Mixed-model, p=NR, stated = significant  G4 v. G3: p=0.821  G4 v. G1: p=0.030  G3 v. G1: p=0.058 |

Evidence Table 43. Binge eating disorder behavioral and drug treatment – part 7 (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| First Author's Last Name  Year | Definition of Psychopathology (BDI; STAI; BAI; RSE; BSQ) | Psychopathology Baseline | Psychopathology Outcomes |
| Laederach-Hofmann, 199961 | Self-Rating Depression Scale (SDS)  Hamilton Depression Scale (HAMD) | Self-Rating Depression Scale (SDS), mean (SD)  G1: 35.3 (6.3)  G2: 35.0 (5.8)  p=NS  Hamilton Depression Scale (HAMD), mean (SD)  G1: 22.6 (9.8)  G2: 21.3 (12.0)  p=NS | Self-Rating Depression Scale (SDS), mean (SD)  8 wks  G1: 28.9 (5.8)  G2: 30.8 (7.3)  p=NR  32 wks  G1: 32.2 (4.9)  G2: 33.1 (6.8)  p=NR  Hamilton Depression Scale (HAMD), mean (SD)  8 wks  G1: 9.8 (7.0)  G2: 16.0 (10.3)  % change (data in figure), p=0.02  32 wks  G1: 12.6 (5.8)  G2: 19.2 (8.7)  % change (data in figure), p=0.01 |

Evidence Table 43. Binge eating disorder behavioral and drug treatment – part 7 (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| First Author's Last Name  Year | Definition of Psychopathology (BDI; STAI; BAI; RSE; BSQ) | Psychopathology Baseline | Psychopathology Outcomes |
| Lanzarone, 201462 | MMPI-2 Psychopathic Deviate Scale  MMPI-2 Depression scale  MMPI-2 Hypomania scale | MMPI-2 Psychopathic Deviate Scale  G1: 74.1 (SD 5.02)  G2: 74.8 (SD 3.97)  G3: 76.20 (SD 5.41)  p=NS  MMPI-2 Depression scale  G1: 72.50 (SD 5.58)  G2: 70.80 (SD 3.91)  G3: 70.80 (SD 4.76)  p=NS  MMPI-2 Hypomania scale  G1: 62.00 (SD 8.15)  G2: 60.30 (SD 7.94)  G3: 60.10 (SD 10.67)  p=NS | MMPI-2 Psychopathic Deviate Scale  G1: 66.0 (SD 5.38)  G2: 71.40 (SD 3.72)  G3: 72.90 (SD 5.06)  G1 showed a greater reduction compared to G2 (p<0.005) and G3 (p<0.005).  G2 and G3 were not significantly different (p=0.53)  MMPI-2 Depression scale  G1: 69.86 (SD 5.39)  G2: 67.80 (SD 3.58)  G3: 66.60 (SD 4.69)  No significant differences between groups; p=NS  MMPI-2 Hypomania scale  G1: 59.50 (SD 7.29)  G2: 54.10 (SD 8.08)  G3: 54.0 (SD 10.27)  No significant differences between groups; p=NS |

Evidence Table 43. Binge eating disorder behavioral and drug treatment – part 7 (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| First Author's Last Name  Year | Definition of Psychopathology (BDI; STAI; BAI; RSE; BSQ) | Psychopathology Baseline | Psychopathology Outcomes |
| Molinari, 200563 | Minnesota Multiphasic Personality Inventory-2  -Hypochondriasis  -Depression  -Conversion hysteria  -Psychasthenia  -Schizophrenia  -Type A personality  -Family problems  -Work problems | MMPI2-Hypochondriasis  G1: 68.00 (SD 16.91)  G2: 61.0 (SD 7.45)  G3: 73.20 (SD 10.65)  MMPI2-Depression  G1: 66.20 (SD 7.20)  G2: 64.90 (SD 3.75)  G3: 67.60 (SD 10.73)  MMPI2-Conversion hysteria  G1: 63.00 (SD 11.88)  G2: 55.00 (SD 6.37)  G3: 63.70 (SD 8.34)  MMPI2-Psychasthenia  G1: 71.90 (SD 7.20)  G2: 56.50 (SD 10.1)  G3: 64.90 (SD 11.97)  MMPI2-Schizophrenia  G1: 64.80 (SD 4.26)  G2: 62.20 (SD 6.19)  G3: 64.50 (SD 8.54)  MMPI2-Type A personality  G1: 56.10 (SD 11.85)  G2: 59.20 (SD 8.49)  G3: 48.50 (SD 12.68)  MMPI2-Family problems  G1: 60.00 (SD 11.07)  G2: 54.80 (SD 19.03)  G3: 56.10 (SD 10.3)  p=0.004  MMPI2-Work problems  G1: 65.90 (SD 8.54)  G2: 63.90 (SD 9.08)  G3: 64.60 (SD 11.19)  p=0.046 | MMPI2-Hypochondriasis  G1: 61.80 (SD 18.50)  G2: 60.3 (SD 6.94)  G3: 64.70 (SD 6.27)  p=0.031  MMPI2-Depression  G1: 56.60 (SD 9.26)  G2: 65.1 (SD 3.92)  G3: 61.80 (SD 5.35)  p=0.006  MMPI2-Conversion hysteria  G1: 54.80 (SD 13.68)  G2: 55.10 (SD 5.34)  G3: 60.30 (SD 8.55)  p=0.046  MMPI2-Psychasthenia  G1: 57.40 (SD 12.24)  G2: 56.40 (SD 9.00)  G3: 61.60 (SD 11.14)  p=0.002  MMPI2-Schizophrenia  G1: 57.00 (SD 8.47)  G2: 61.80 (SD 4.66)  G3: 60.80 (SD 6.69)  p=0.009  MMPI2-Type A personality  G1: 47.50 (SD 10.64)  G2: 58.70 (SD 7.91)  G3: 46.10 (SD 12.42)  p=0.05  MMPI2-Family problems  G1: 52.20 (SD 9.98)  G2: 54.30 (SD 18.52)  G3: 54.80 (SD 7.99)  p=0.004 |

Evidence Table 43. Binge eating disorder behavioral and drug treatment – part 7 (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| First Author's Last Name  Year | Definition of Psychopathology (BDI; STAI; BAI; RSE; BSQ) | Psychopathology Baseline | Psychopathology Outcomes |
| Molinari, 200563  (continued) |  |  | MMPI2-Work problems  G1: 56.50 (SD 10.69)  G2: 63.50 (SD 7.15)  G3: 57.80 (SD 9.40)  p=0.046 |
| Ricca, 200164 | State-trait anxiety inventory (STAI)-1  STAI-2  Beck Depression Inventory (BDI) | STAI-1, median (25%-75%)  G1: 46 (42-52)  G2: 47.5 (36.5-53.7)  G3: 52 (41-55)  G4: 46.2 (41.1-51.6)  G5: 48.2 (43.7-52.4)  STAI-2, median (25%-75%)  G1: 48 (44-55)  G2: 48 (36-57)  G3: 52 (44-55)  G4: 47.5 (42.3-52.4)  G5: 49.6 (43.4-52.6)  BDI, median (25%-75%)  G1: 22 (13.5-26)  G2: 16.5 (12.2-29.2)  G3: 22 (18-24)  G4: 20 (14-25)  G5: 21 (11-25.3) | 24wk STAI-1, median (25%-75%)  G1: 37 (34.5-45.7), p<0.01 vs. baseline  G2: 45 (36-52.5)  G3: 32 (28.0-36.0), p<0.01 vs. baseline  G4: 44.8 (40.6-50.7)  G5: 34.1 (29.2-38.8), p<0.01 vs. baseline  Change values from baseline to 24wk:  G1: -6.0 (-8.5 to -4.0)  G2: NR  G3: -16.0 (-22 to -9.0)  G4: NR  G5: NR  Reduction in STAI-1 was significantly greater (p<0.01) in G3 than G1, and reduction in G5 was not significantly greater than G1  1y post-treatment STAI-1, median (25%-75%)  G1: 40 (36-44)  G2: 48 (41.0-56.0)  G3: 32 (26.7-34.3)  G4: 50.5 (44.0-53.9), p<0.01 vs. 24wk  G5: 36.1 (30.7-39.3)  Scores were significantly increased at 1y in G4 compared with 24wk  24wk STAI-2, median (25%-75%)  G1: 44.5 (36-51.2), p<0.01 vs. baseline  G2: 46 (38.2-52.8)  G3: 36 (33.0-40.1), p<0.01 vs. baseline  G4: 46.8 (41.7-50.9)  G5: 35 (29.6-39.1), p<0.01 vs. baseline |

Evidence Table 43. Binge eating disorder behavioral and drug treatment – part 7 (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| First Author's Last Name  Year | Definition of Psychopathology (BDI; STAI; BAI; RSE; BSQ) | Psychopathology Baseline | Psychopathology Outcomes |
| Ricca, 200164  (continued) |  |  | Change values from baseline to 24wk:  G1: Article reports conflicting data on p.302: -10.0 (-11.5 to -6.0) AND -3.5 (-10.5 to -3.3)  G2: NR  G3: -17.5 (-22.2 to -12.5)  G4: NR  G5: -14.6 (-15.1 to -12.0)  Reduction in STAI-2 was significantly greater (p<0.01) in G3 than G1, and reduction in G5 was significantly greater than G1  1y post-treatment STAI-2, median (25%-75%)  G1: 44 (36-48.7)  G2: 48 (41.0-56.0)  G3: 36 (33.8-41.5)  G4: 47.1 (42.3-51.1)  G5: 34.9 (29.5-38.9)  No differences in scores were observed at 1y compared to 24wk  24wk BDI, median (25%-75%)  G1: 14 (12-16.5), p<0.01 vs. baseline  G2: 10.5 (8.0-13.5), p<0.01 vs. baseline  G3: 10 (7.5-12.0), p<0.01 vs. baseline  G4: 15 (10.1-19.2), p<0.01 vs. baseline  G5: 14 (11.1-18.8), p<0.01 vs. baseline  Reductions in BDI scores were not significantly different among the groups  1y post-treatment BDI, median (25%-75%)  G1: 14 (9.7-15.5)  G2: 10.5 (7.0-12.5)  G3: 10 (8.0-13.0)  G4: 16 (11.2-20.7)  G5: 14 (11.2-18.4)  No differences in scores were observed at 1y compared to 24wk |

Evidence Table 43. Binge eating disorder behavioral and drug treatment – part 7 (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| First Author's Last Name  Year | Definition of Psychopathology (BDI; STAI; BAI; RSE; BSQ) | Psychopathology Baseline | Psychopathology Outcomes |
| Ricca, 200965 | Beck Depression Inventory (BDI)  State Trait Anxiety Inventory (STAI) | BDI: mean (25th and 75th percentiles)  G1: 19.5 (16.2-26.0)  G2: 20 (14.0-27.0)  STAI: mean (25th and 75th percentiles)  G1: 46 (39.0-52.7)  G2: 43 (38.0-52.0) | 24wk BDI: mean (25th and 75th percentiles)  G1: 14.5 (11.0-21.7)  G2: 16 (11.0-20.0)  G2 had greater reduction, p<0.05  18m BDI: mean (25th and 75th percentiles)  G1: 17.5 (13.0-22.0)  G2: 16.0 (14.0-20.0)  p=NR  24wk STAI: mean (25th and 75th percentiles)  G1: 40 (38.5-44.0)  G2: 40 (32.0-45.0)  p=NR  18m STAI: mean (25th and 75th percentiles)  G1: 42 (38.5-45.5)  G2: 38 (30.0-44.0)  G2 had greater reduction, p<0.05 |