

Appendix 16: Characteristics Table for The Clinical Question: Psychological treatments

Comparisons Included in this Clinical Question

CAT vs TAU (manualised good clinical practice) CHANEN 2008	CBT (non-comparative) HENGEVELD1996	CBT+TAU vs TAU DAVIDSON2006	Cognitive analytic therapy (non-comparative) RYLE2000
Cognitive therapy (non-comparative) BROWN2004	Cognitive therapy vs Rogerian supportive therapy	day treatment followed by outpatient group psychotherapy vs day treatment only WILBERG1998	DBT HARLEY2007
DBT (non comparative) ALPER2001 BARLEY1993 CUNNINGHAM2004 LANIUS2003 MCQUILLAN2005 PRENDERGAST2007	DBT vs CCT (control) TURNER2000	DBT vs CTBE LINEHAN2006	DBT vs CVT+12 step LINEHAN2002
DBT vs TAU KOONS2001 LINEHAN1991 LINEHAN1999 VANDENBOSCH2002	DBT vs TFP vs SPT	DBT vs Waitlist BOHUS2004 CARTER unpub	IGP vs IDP MUNROEBLUM1995
intensive inpatient treatment (non-comparative) GABBARD2000	IPT (non-comparative) MARKOWITZ2006	IPT vs CBT	MACT + TAU vs TAU WEINBERG2006
MACT vs TAU TYRER2003	MBT (noncomparative) ANDREAunpub	Partial hospitalisation vs standard psychiatric care BATEMAN1999	psychoanalytically-oriented psychotherapy (non-comparative) LOFFLERSTASTKA2003 STEVENSON2005
Psychoanalytic-interactional therapy (non-comparative) LEICHSENRING2007	Schema therapy (non-comparative) NORDAHL2005	SFT vs TFP GIESENBLOO2006	Social Problem Solving + brief psychoeducation vs Waitlist control
SSRIs plus IPT BELLINO2005	STEPPS (non-comparative) BLUM2002	STEPPS + TAU vs TAU BLUM2008	TFP vs DBT vs SPT CLARKIN2004

Therapeutic community
CHIESA2000
CHIESA2004
CHIESA2007
DAVIES1999
DOLAN1992
DOLAN1997
WARREN2004

transference-focused psychotherapy (non-comparative)
CLARKIN2001
LOPEZ2004

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes																												
<p>ALPER2001</p> <p>Study Type: case series</p> <p>Study Description: Retrospective study, reports outcomes after 4 weeks of DBT. Also qualitative data reported from interviews with nurses to describe their view of DBT.</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 120</p> <p>Setting: COUNTRY: US; inpatients.</p> <p>Info on Screening Process: 65 medical records screened, Inclusion criteria: diagnosis of BPD; on DBT unit for 4wks consecutively; reports of self-injurious behaviour.</p>	<p>n= 15</p> <p>Age: Range 22-42</p> <p>Sex: all females</p> <p>Diagnosis: 100% BPD by Not reported</p> <p>Notes: ETHNICITY: 93% White 7% Black</p> <p>Baseline: incidents of self harm 15/week</p>	<p>Data Used</p> <p>Self-harm</p>	<p>Group 1 N= 15</p> <p>DBT - Patients treated with DBT in regional treatment center, no details of DBT reported.</p>																													
<p>ANDREAunpub</p> <p>Study Type: cohort study</p> <p>Blindness:</p> <p>Duration (days):</p> <p>Followup: 18 months</p> <p>Setting: NETHERLANDS; partial hospitalisation</p>	<p>n= 33</p> <p>Age:</p> <p>Sex:</p> <p>Diagnosis: 100% BPD</p> <p>Baseline:</p> <table border="0"> <tr><td></td><td>Mean</td></tr> <tr><td>Quality of life (EQ)</td><td>0.46</td></tr> <tr><td>Symptom distress (OQ)</td><td>60.9</td></tr> <tr><td>SCL-90</td><td>1.73</td></tr> <tr><td>BDI</td><td>26.6</td></tr> <tr><td>IIP</td><td>3.02</td></tr> <tr><td>Interpersonal relations (OQ)</td><td>23.8</td></tr> <tr><td>Dissatisfaction in social role (OQ)</td><td>17.8</td></tr> <tr><td>Borderline symptomatology (BPDSI)</td><td>28.6</td></tr> <tr><td>Selfcontrol (SIPP)</td><td>3.84</td></tr> <tr><td>Identity integration (SIPP)</td><td>3.04</td></tr> <tr><td>Responsibility (SIPP)</td><td>3.79</td></tr> <tr><td>Relational functioning (SIPP)</td><td>3.54</td></tr> <tr><td>Social concordance (SIPP)</td><td>5.18</td></tr> </table>		Mean	Quality of life (EQ)	0.46	Symptom distress (OQ)	60.9	SCL-90	1.73	BDI	26.6	IIP	3.02	Interpersonal relations (OQ)	23.8	Dissatisfaction in social role (OQ)	17.8	Borderline symptomatology (BPDSI)	28.6	Selfcontrol (SIPP)	3.84	Identity integration (SIPP)	3.04	Responsibility (SIPP)	3.79	Relational functioning (SIPP)	3.54	Social concordance (SIPP)	5.18	<p>Data Used</p> <p>SIPP BPD Severity Index IIP BDI SCL-90 OQ EQ Quality of Life</p>	<p>Group 1 N= 33</p> <p>MBT - psychoanalytically oriented partial hospitalisation programme</p>	
	Mean																															
Quality of life (EQ)	0.46																															
Symptom distress (OQ)	60.9																															
SCL-90	1.73																															
BDI	26.6																															
IIP	3.02																															
Interpersonal relations (OQ)	23.8																															
Dissatisfaction in social role (OQ)	17.8																															
Borderline symptomatology (BPDSI)	28.6																															
Selfcontrol (SIPP)	3.84																															
Identity integration (SIPP)	3.04																															
Responsibility (SIPP)	3.79																															
Relational functioning (SIPP)	3.54																															
Social concordance (SIPP)	5.18																															
<p>BARLEY1993</p> <p>Study Type: cohort study</p> <p>Study Description: longitudinal data comparing parasuicide rates in unit introducing DBT & general psychiatric unit with consistent non DBT treatment</p>	<p>n= 130</p> <p>Age: Range 16-57</p> <p>Sex: 27 males 103 females</p> <p>Diagnosis: 100% BPD by Not reported</p>	<p>Data Used</p> <p>Parasuicidal behaviour</p>	<p>Group 1 N= 130</p> <p>DBT - DBT was introduced to unit - skills training group, nursing staff familiarized with DBT strategies, 'homework' groups focused on application of what patients learn in skills training group.</p>																													

<p>Blindness: No mention</p> <p>Duration (days): Mean 1290</p> <p>Setting: COUNTRY: UK; inpatients</p> <p>Info on Screening Process: not reported</p>	<p>Exclusions: none mentioned</p> <p>Notes: ETHNICITY: not reported; 130 participants is number of patients that were discharged from unit introducing DBT; no data provided for patients in general psychiatric unit.</p> <p>Baseline:</p> <table border="0"> <tr> <td></td> <td>unit introducing DBT</td> <td>unit without DBT</td> </tr> <tr> <td>parasuicide rate (mean/month)</td> <td>0.236</td> <td>0.378</td> </tr> </table>		unit introducing DBT	unit without DBT	parasuicide rate (mean/month)	0.236	0.378															
	unit introducing DBT	unit without DBT																				
parasuicide rate (mean/month)	0.236	0.378																				
<p>BATEMAN1999</p> <p>Study Type: RCT</p> <p>Study Description: 18-month trial with 3 and 8 year follow-up (continuation treatment for MBT group up to 36 months)</p> <p>Type of Analysis: completers</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 504</p> <p>Followup: 8 years</p> <p>Setting: COUNTRY:UK</p> <p>Partial hospitalisation</p> <p>Notes: RANDOMISATION: procedure not described. No details regarding blinding.</p> <p>Info on Screening Process: Ppts recruited from general psychiatric unit. 60 ppts met inclusion criteria, 10 refused randomisation, 6 admitted to partial hospitalisation & excluded from study, 4 declined further treatment. 6 refused to participate in regular self-assessment.</p>	<p>n= 44</p> <p>Age: Mean 32</p> <p>Sex: 16 males 22 females</p> <p>Diagnosis:</p> <p>100% BPD by SCID-I</p> <p>Exclusions: - DSM-III schizophrenia</p> <ul style="list-style-type: none"> - bipolar disorder - substance misuse - mental impairment - evidence of organic brain disorder <p>Notes: DIB also used to determine diagnosis of BPD</p> <p>ETHNICITY: no data</p> <p>Baseline:</p> <table border="0"> <tr> <td></td> <td>Partial hospitalisation</td> <td>Control</td> </tr> <tr> <td>GSI</td> <td>2.50 (0.58)</td> <td>2.30 (0.71)</td> </tr> <tr> <td>PSTS</td> <td>74.1 (14.5)</td> <td>72.3 (15.2)</td> </tr> <tr> <td>BDI</td> <td>36.0 (7.6)</td> <td>34.9 (7.4)</td> </tr> <tr> <td>State anxiety</td> <td>68.4 (7.0)</td> <td>63.2 (6.8)</td> </tr> <tr> <td>Trait Anxiety</td> <td>66.5 (6.1)</td> <td>62.0 (9.9)</td> </tr> </table>		Partial hospitalisation	Control	GSI	2.50 (0.58)	2.30 (0.71)	PSTS	74.1 (14.5)	72.3 (15.2)	BDI	36.0 (7.6)	34.9 (7.4)	State anxiety	68.4 (7.0)	63.2 (6.8)	Trait Anxiety	66.5 (6.1)	62.0 (9.9)	<p>Data Used</p> <ul style="list-style-type: none"> Suicide attempts Self-harm BDI GSI No. on medication at endpoint Leaving treatment early for any reason Stait anxiety <p>Data Not Used</p> <ul style="list-style-type: none"> Positive Symptom Total Score - data not extractable IIP - data not extractable Social Adjustment Scale (modified) - data not extractable SCL-90-R - data not reported Trait anxiety <p>Notes: SCL-90-R administered every 6 months. Self-rated questionnaires administered every 3 months. Outcomes extracted at 18 and 24 month</p>	<p>Group 1 N= 19</p> <p>Partial hospitalisation - Once wkly individual psychoanalytic psychotherapy; thrice wkly grp analytic psychotherapy (1hr each). Once wkly expressive therapy (1hr). Wkly community meeting (1hr). 1hr meeting monthly with case manager plus medication review. Treatment not manualised</p> <p>Group 2 N= 19</p> <p>Standard care (control) - Regular psychiatric review with senior psychiatrist when necessary. Inpatient admission as appropriate then discharge to non-psychoanalytic psychiatric partial hospitalisation focusing on problem solving. No formal psychotherapy offered.</p>	<p>Study quality 1+</p> <p>Funding unclear</p>
	Partial hospitalisation	Control																				
GSI	2.50 (0.58)	2.30 (0.71)																				
PSTS	74.1 (14.5)	72.3 (15.2)																				
BDI	36.0 (7.6)	34.9 (7.4)																				
State anxiety	68.4 (7.0)	63.2 (6.8)																				
Trait Anxiety	66.5 (6.1)	62.0 (9.9)																				
<p>Results from this paper:</p> <p>Internal validity:</p> <table border="0"> <tr> <td>1.1 Well covered</td> <td>1.6 Adequately addressed</td> </tr> <tr> <td>1.2 Not reported</td> <td>1.7 Adequately addressed</td> </tr> <tr> <td>1.3 Not reported</td> <td>1.8 Partial hospitalisation = 12% Placebo = 12%</td> </tr> <tr> <td>1.4 Not addressed</td> <td>1.9 Not addressed</td> </tr> <tr> <td>1.5 Adequately addressed</td> <td>1.10 Adequately addressed</td> </tr> </table>					1.1 Well covered	1.6 Adequately addressed	1.2 Not reported	1.7 Adequately addressed	1.3 Not reported	1.8 Partial hospitalisation = 12% Placebo = 12%	1.4 Not addressed	1.9 Not addressed	1.5 Adequately addressed	1.10 Adequately addressed								
1.1 Well covered	1.6 Adequately addressed																					
1.2 Not reported	1.7 Adequately addressed																					
1.3 Not reported	1.8 Partial hospitalisation = 12% Placebo = 12%																					
1.4 Not addressed	1.9 Not addressed																					
1.5 Adequately addressed	1.10 Adequately addressed																					
<p>BELLINO2005</p> <p>Study Type: non-randomised comparative</p> <p>Study Description: Compared efficacy of combined therapy (SSRIs & IPT) in 2 groups of patients: major depressive disorder & BPD vs major depressive disorder & other PD.</p> <p>Type of Analysis: completers</p> <p>Blindness: Open</p> <p>Duration (days): Mean 180</p> <p>Setting: ITALY; outpatients</p>	<p>n= 56</p> <p>Age: Mean 27</p> <p>Sex: 16 males 32 females</p> <p>Diagnosis:</p> <p>100% Major Depressive Disorder by SCID-I and II (DSM-IV)</p> <p>35% BPD by SCID-I and II (DSM-IV)</p> <p>65% PD other than BPD by SCID-I and II (DSM-IV)</p> <p>Exclusions: 8 patients dropped out for non compliance in 1st</p>	<p>Data Used</p> <ul style="list-style-type: none"> SAT-P Mean IIP-64 HAM-D-17 HAM-A CGI 	<p>Group 1 N= 21</p> <p>IPT - 1 session per week</p> <p>Citalopram. Mean dose 20-40mg/day</p> <p>Group 2 N= 14</p> <p>IPT - 1 session per week</p> <p>Sertraline. Mean dose 50-100mg/day</p> <p>Group 3 N= 13</p> <p>Fluoxetine. Mean dose 20-40mg/day</p>																			

	4 weeks			
BLUM2002				
<p>Study Type: cohort study</p> <p>Study Description: preliminary efficacy data for STEPPS</p> <p>Type of Analysis: completers</p> <p>Blindness: Open</p> <p>Duration (days): Mean 140</p> <p>Setting: US; outpatients</p>	<p>n= 52</p> <p>Age: Mean 33 Range 18-51</p> <p>Sex: 3 males 49 females</p> <p>Diagnosis: 100% BPD by DSM-IV</p>	<p>Data Used</p> <p>BDI</p> <p>PANAS</p> <p>BEST</p>	<p>Group 1 N= 52</p> <p>STEPPS - 20 manual based 2-hr weekly group meetings with 2 facilitators & 1 2-hr session for family and significant others</p>	
BLUM2008				
<p>Study Type: RCT</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 140</p> <p>Followup: 1 year</p> <p>Setting: Outpatients; US</p> <p>Notes: RANDOMISATION: by coin toss; unclear if raters blind</p> <p>Info on Screening Process: 172 assessed (92 from inpatient/outpatient psychiatric services, 35 from clinicians/mental health centres, 29 adverts, 8 word of mouth, 8 unspecified).</p>	<p>n= 165</p> <p>Age: Mean 32</p> <p>Sex: 134 females</p> <p>Diagnosis: 100% BPD by DSM-IV</p> <p>Exclusions: Non-English speaking; had a psychotic or primary neurological disorder; were cognitively impaired; had current (past month) substance abuse or dependence; participated in STEPPS before.</p> <p>Notes: Only those receiving allocated treatment included in data analysis (n=124), so N females estimated from demographic data given.</p> <p>Baseline: BDI: 29 (6.5); ZAN-BPD: 18 (6.9) - all average of groups</p>	<p>Data Used</p> <p>A&E attendance</p> <p>Hospital admissions</p> <p>Self-harm - Full data not given</p> <p>Suicide attempts - Full data not given</p> <p>GAS</p> <p>GSI</p> <p>Barratt Impulsiveness Scale (BIS)</p> <p>BDI Mean</p> <p>ZAN-BPD</p> <p>Data Not Used</p> <p>CGI - Not extracting - weak measure</p> <p>Notes: Taken at endpoint (20 weeks) and 1-year follow-up; GSI has been scaled by multiplying by 10 to facilitate the reporting of significant digits; dichotomous data are N participants with >=1 event</p>	<p>Group 1 N= 93</p> <p>STEPPS - Systems training for emotional predictability & problem solving; manualised 20 2-hr wkly group-based sessions; cognitive-behavioural elements + skills training; designated mental health pro + family member/friend educated in BPD & how to interact with pt</p> <p>TAU - Participants continued psychotropic medication, psychotherapy and case management</p> <p>Group 2 N= 72</p> <p>TAU - Participants continued psychotropic medication, psychotherapy and case management</p>	<p>SIGN 1+ ; participants designate mental health professional + friend/relative who could be reached in a crisis; friend/relative participated in systems component of the treatment</p>
<p>Results from this paper:</p> <p>Leaving study early for any reason: N = 69</p> <p>Internal validity:</p> <p>1.1 Well covered 1.6 Well covered</p> <p>1.2 Poor addressed 1.7 Adequately addressed</p> <p>1.3 Poorly addressed 1.8 STEPPS 52%; TAU 29%</p> <p>1.4 Adequately addressed 1.9 Poorly addressed</p> <p>1.5 Adequately addressed 1.10 Not applicable</p>				
BOHUS2004				
<p>Study Type: non-randomised controlled trial</p> <p>Type of Analysis: completers and ITT</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 112</p> <p>Setting: COUNTRY: Germany Inpatient</p> <p>Notes: RANDOMISATION: process not</p>	<p>n= 60</p> <p>Age: Mean 29 Range 18-44</p> <p>Sex: all females</p> <p>Diagnosis: BPD by SCID-II</p> <p>Exclusions: - lifetime diagnosis of schizophrenia - bipolar I disorder - current substance abuse</p>	<p>Data Used</p> <p>GAF</p> <p>STAI</p> <p>HARS</p> <p>GSI</p> <p>Leaving treatment early for any reason</p> <p>STAXI - Anger</p> <p>Data Not Used</p> <p>IIP</p>	<p>Group 1 N= 40</p> <p>DBT - Treatment part manualised (Linehan 1993).. Individual therapy (2hr/wk), grp skills training (2hr/wk) grp psychoeducation (1hr/wk) per grp meetings (2hr/wk) mindfulness grp (1hr/wk), individual body-oriented therapy (1.5hr/wk) therapist team consultations.</p>	<p>Study quality 1+ Study funded by German Research Foundation & Borderline Personality Disorder Research Foundation, New York</p>

<p>described. No description of blinding and no other info given.</p> <p>Info on Screening Process: Ppts recruited from BPD research unit at a university hospital. 80 ppts met inclusion criteria, 20 refused to participate due to uncertainty about returning for post-assessment</p>	<p>- mental retardation - living further than 250 miles away from inpatient unit - current ongoing outpatient DBT or subsequent DBT after discharge also excluded</p> <p>Notes: DIB-R also used to determine diagnoses</p> <p>Baseline:</p> <table border="1"> <thead> <tr> <th></th> <th>DBT</th> <th>Waitlist</th> </tr> </thead> <tbody> <tr> <td>DES</td> <td>26.1 (14.6)</td> <td>32.1 (14.4)</td> </tr> <tr> <td>GAF</td> <td>48.5 (8.4)</td> <td>48.1 (11.1)</td> </tr> <tr> <td>HARS</td> <td>24.0 (8.6)</td> <td>25.2 (9.0)</td> </tr> <tr> <td>STAI</td> <td>73.1 (5.6)</td> <td>74.4 (8.0)</td> </tr> <tr> <td>BDI</td> <td>31.3 (9.4)</td> <td>N/R</td> </tr> <tr> <td>IIP</td> <td>7.61(1.43)</td> <td>6.61 (1.87)</td> </tr> <tr> <td>STAXI</td> <td>6.43 (2.6)</td> <td>7.11 (2.2)</td> </tr> <tr> <td>SCL-90</td> <td>1.74 (0.48)</td> <td>1.92 (0.68)</td> </tr> </tbody> </table>		DBT	Waitlist	DES	26.1 (14.6)	32.1 (14.4)	GAF	48.5 (8.4)	48.1 (11.1)	HARS	24.0 (8.6)	25.2 (9.0)	STAI	73.1 (5.6)	74.4 (8.0)	BDI	31.3 (9.4)	N/R	IIP	7.61(1.43)	6.61 (1.87)	STAXI	6.43 (2.6)	7.11 (2.2)	SCL-90	1.74 (0.48)	1.92 (0.68)	<p>DES - scale excluded</p> <p>HRSD-24 (Hamilton 1960) - data not extractable</p> <p>BDI - data not reported for control grp</p> <p>LPC - data not reported</p> <p>Notes: Initial assessment at interview for WL group & at inpatient admittance for DBT group. Post-testing conducted 4 months after initial assessment (i.e. 4 wks after discharge for DBT group). Outcomes extracted at 4 months</p>	<p>Group 2 N= 20</p> <p>Waitlist control - During 4 mth wait period everyone had some form of professional mental health care. 12 of 19 were hospitalised in a non-DBT psychiatric unit at least once. Average 44 inpatient treatment days. 14 of 19 had outpatient care av 6.1 sessions.</p>	
	DBT	Waitlist																													
DES	26.1 (14.6)	32.1 (14.4)																													
GAF	48.5 (8.4)	48.1 (11.1)																													
HARS	24.0 (8.6)	25.2 (9.0)																													
STAI	73.1 (5.6)	74.4 (8.0)																													
BDI	31.3 (9.4)	N/R																													
IIP	7.61(1.43)	6.61 (1.87)																													
STAXI	6.43 (2.6)	7.11 (2.2)																													
SCL-90	1.74 (0.48)	1.92 (0.68)																													

<p>Results from this paper:</p> <p>Internal validity:</p> <table border="1"> <tr> <td>1.1 Well covered</td> <td>1.6 Adequately addressed</td> </tr> <tr> <td>1.2 Not addressed</td> <td>1.7 Adequately addressed</td> </tr> <tr> <td>1.3 Not addressed</td> <td>1.8 DBT = 22.5% Placebo = 5%</td> </tr> <tr> <td>1.4 Not addressed</td> <td>1.9 Adequately addressed</td> </tr> <tr> <td>1.5 Adequately addressed</td> <td>1.10 Not applicable</td> </tr> </table>		1.1 Well covered	1.6 Adequately addressed	1.2 Not addressed	1.7 Adequately addressed	1.3 Not addressed	1.8 DBT = 22.5% Placebo = 5%	1.4 Not addressed	1.9 Adequately addressed	1.5 Adequately addressed	1.10 Not applicable
1.1 Well covered	1.6 Adequately addressed										
1.2 Not addressed	1.7 Adequately addressed										
1.3 Not addressed	1.8 DBT = 22.5% Placebo = 5%										
1.4 Not addressed	1.9 Adequately addressed										
1.5 Adequately addressed	1.10 Not applicable										

<p>BROWN2004</p> <p>Study Type: cohort study</p> <p>Study Description: uncontrolled cohort study</p> <p>Type of Analysis: ITT & completers</p> <p>Blindness: Open</p> <p>Duration (days): Mean 276 Range 14-393</p> <p>Followup: 18 months</p> <p>Setting: US; outpatients</p> <p>Notes: Patients allowed to use psychotropic medications, but those who started a new type or switched medications were excluded.</p> <p>Info on Screening Process: 212 incl criteria: suicide ideation/self harm behav in last 2 months & met BPD criteria. Excl criteria: schizophrenic, Delusional, Schizophreniform, Schizoaffective, Psychotic Disorders or mental retardation; receiving counselling/psychotherapy,</p>	<p>n= 32</p> <p>Age: Mean 29 Range 20-55</p> <p>Sex: 4 males 28 females</p> <p>Diagnosis:</p> <ul style="list-style-type: none"> 100% BPD by SCID-II 78% Major Depressive Disorder by SCID-I 41% Eating disorder by SCID-I 34% Panic disorder by SCID-I 31% Social Phobia by SCID-I 31% Post traumatic stress disorder by SCID-I 19% General Anxiety Disorder by SCID-I 19% Specific Phobia by SCID-I 13% Substance abuse by SCID-I 9% Alcohol misuse by SCID-I 9% Dysthymia by SCID-I 6% Bipolar II disorder by SCID-I 72% PD other than BPD by SCID-II <p>Exclusions: 3 participants dropped out before termination interview (12months after baseline assessment), another 5</p>	<p>Data Used</p> <ul style="list-style-type: none"> Personality Belief Quaire PHI BPD DSM criteria BHS HRSD-17 (Hamilton 1960) BDI Mean Scale for Suicide Ideators 	<p>Group 1 N= 32</p> <p>Cognitive therapy - Treatment consisted of 50 minute weekly sessions for 50 weeks with up to 12 additional treatment sessions to be used as needed during year treatment period. Therapists trained using detailed treatment manual & received supervision. Mean no sessions = 34.</p>	
---	--	--	---	--

	<p>patients dropped out before 18 month follow-up</p> <p>Notes: 72% Caucasian, 19% African American, 9% Hispanic, Asian or other</p> <p>Baseline:</p> <table> <tr> <td></td> <td>Mean (SD)</td> </tr> <tr> <td>SSI</td> <td>8.2 (7.9)</td> </tr> <tr> <td>BDI</td> <td>38.4 (9.7)</td> </tr> <tr> <td>BHS</td> <td>14.1 (5.6)</td> </tr> <tr> <td>HRDS</td> <td>26.0 (10.7)</td> </tr> <tr> <td>No. BPD criteria</td> <td>6.4 (1.4)</td> </tr> </table>		Mean (SD)	SSI	8.2 (7.9)	BDI	38.4 (9.7)	BHS	14.1 (5.6)	HRDS	26.0 (10.7)	No. BPD criteria	6.4 (1.4)			
	Mean (SD)															
SSI	8.2 (7.9)															
BDI	38.4 (9.7)															
BHS	14.1 (5.6)															
HRDS	26.0 (10.7)															
No. BPD criteria	6.4 (1.4)															
<p>CARTER unpub</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT/per protocol analysis for self-rated outcomes</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 182</p> <p>Setting: Australia; outpatients</p> <p>Notes: RANDOMISATION: by sealed opaque envelopes</p> <p>Info on Screening Process: 84 people referred, 79 were eligible, 3 did not complete baseline assessment</p>	<p>n= 76</p> <p>Age: Mean 25</p> <p>Sex: all females</p> <p>Diagnosis: 100% BPD by DSM-IV</p> <p>100% Self-harm by Self-reported</p> <p>Exclusions: No history of multiple episodes of self-harm; < 3 self-reported episodes of self-harm in last 12 months; no other specific exclusion criteria; assessing psychiatrist determined whether pts suitable for inclusion in the therapy and study</p> <p>Notes: 76 randomised: 1 died and 2 withdrew consent before treatment started; unclear to which grps allocated so deceased not included and other 2 divided between grps</p>	<p>Data Used</p> <p>Length of admission (self-harm) (mean days)</p> <p>Length of admission (any psychiatric) (mean days)</p> <p>Admission for self-harm (N)</p> <p>Admission for self-harm (mean)</p> <p>Admission for any psychiatric reasons (N)</p> <p>Admission for any psychiatric reasons (mean)</p> <p>Leaving treatment early for any reason</p> <p>Data Not Used</p> <p>WHOQOL - Not reported</p> <p>PHI - Not reported</p> <p>Notes: Taken at 6 months before WLC started treatment; self-harm defined as any intentional self-injury or deliberate ingestion of > prescribed amount of therapeutic substances, or deliberate ingestion of substances never intended for human consumption</p>	<p>Group 1 N= 39</p> <p>DBT - Modified DBT (modification unclear); team-based approach; individual therapy, skills training groups, telephone access to an individual therapist & therapist supervision groups following Linehan model; 12 mths but outcomes taken at 6 months</p> <p>Group 2 N= 36</p> <p>Waitlist control - Six-month waiting list for DBT whilst receiving treatment as usual (no details)</p>	<p>Study quality 1++</p> <p>Study funding not given</p>												
<p>Results from this paper:</p> <p>Internal validity:</p> <table> <tr> <td>1.1 Well covered</td> <td>1.6 Adequately addressed</td> </tr> <tr> <td>1.2 Adequately addressed</td> <td>1.7 Adequately addressed</td> </tr> <tr> <td>1.3 Adequately addressed</td> <td>1.8 DBT = 49% WLC = 14%</td> </tr> <tr> <td>1.4 Adequately addressed</td> <td>1.9 Adequately addressed</td> </tr> <tr> <td>1.5 Adequately addressed</td> <td>1.10 Not applicable</td> </tr> </table>					1.1 Well covered	1.6 Adequately addressed	1.2 Adequately addressed	1.7 Adequately addressed	1.3 Adequately addressed	1.8 DBT = 49% WLC = 14%	1.4 Adequately addressed	1.9 Adequately addressed	1.5 Adequately addressed	1.10 Not applicable		
1.1 Well covered	1.6 Adequately addressed															
1.2 Adequately addressed	1.7 Adequately addressed															
1.3 Adequately addressed	1.8 DBT = 49% WLC = 14%															
1.4 Adequately addressed	1.9 Adequately addressed															
1.5 Adequately addressed	1.10 Not applicable															
<p>CHANEN2008</p> <p>Study Type: RCT</p> <p>Study Description: Includes a non-randomised control arm (not included)</p> <p>Type of Analysis: ITT (average across 10 multiply-imputed datasets)</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 168</p> <p>Followup: 12 and 24 months</p> <p>Setting: COUNTRY: Australia; outpatient</p> <p>Notes: RANDOMISATION: computer-generated by administrator, stratified by number of BPD criteria (>= 5)</p> <p>Info on Screening Process: 106 assessed with</p>	<p>n= 78</p> <p>Age: Mean 16</p> <p>Sex: 19 males 59 females</p> <p>Diagnosis: 100% Traits of BPD by DSM-IV</p> <p>40% Anxiety disorder by DSM-IV</p> <p>4% Eating disorder by DSM-IV</p> <p>33% Substance abuse by DSM-IV</p>	<p>Data Used</p> <p>Parasuicidal behaviour</p> <p>SCID-II BPD dimensional score</p> <p>Data Not Used</p> <p>Social & Occupational Functioning Assessment Scale</p> <p>Youth Self-Report/Young Adult Self-Report q'aires - Not being extracted</p>	<p>Group 1 N= 41</p> <p>Cognitive analytic therapy - Max 24 wkly sessions (median sessions 13 (8-23)). Therapists CBT-trained clinical psychologists with 9 months' CAT training; + usual care: assertive case management, psychiatrist appointments, activity groups, crisis team & inpatient care, pharmacotherapy</p>	<p>Study quality 1++</p> <p>Study funded by National Health and Medical Council Canberra Australian</p>												

20 excluded	<p>63% Mood disorder by DSM-IV</p> <p>26% Disruptive behaviour disorder by DSM-IV</p> <p>Exclusions: Mental retardation; psychiatric disorder due to medical condition; pervasive developmental disorder; severe primary axis I disorder that should be principal focus of treatment; sustained psychosis; received >9 sessions of specialist mental health treatment in previous year</p> <p>Notes: 86 randomised but those not receiving baseline assessment not included in author analyses; 32 in non-randomised control group; diagnosis - >=2 BPD criteria (NB too young for BPD diagnosis); mean 3 current axis I diagnoses; mean 1.5 axis II diagnoses</p> <p>Baseline: SCID-II BPD criteria mean number 4.5 (range 2-8)</p>	Notes: SCID-II items scored 1 to 3; Youth/Young Adult self-report = internalising/externalising psychopathology score; SOFAS = global function; parasuic = suicide attempts+self-harm; all 6,12,24 mths; means are averages across 10 multiply-imputed datasets	<p>Group 2 N= 37</p> <p>TAU - Manualised good clinical practice, median sessions received 11 (4.5-23), developed for study; team-based care; problem-solving model with modules for comorbid disorders; supervision for therapists (therapists & usual care as for CAT)</p>	
-------------	--	---	--	--

Results from this paper:
Internal validity:

1.1 Well covered	1.6 Adequately addressed
1.2 Adequately addressed	1.7 Adequately addressed
1.3 Adequately addressed	1.8 CAT = 45% TAU = 41%
1.4 Adequately addressed	1.9 Adequately addressed
1.5 Adequately addressed	1.10 Not applicable

<p>CHIESA2000</p> <p>Study Type: cohort study</p> <p>Study Description: Prospective study comparing short-hospital stay + follow-up with long-stay</p> <p>Blindness:</p> <p>Duration (days):</p> <p>Setting: UK</p> <p>Notes: Allocation to treatment based on geographic region: those living in Greater London allocated to 2-step; others to 1-step</p> <p>Info on Screening Process: 135 consecutive admissions to the Cassel Hospital between 1993 and 1997</p>	<p>n= 90</p> <p>Age: Mean 32</p> <p>Sex: 19 males 71 females</p> <p>Diagnosis:</p> <p>56% Cluster A by DSM-III-R</p> <p>77% Cluster B by DSM-III-R</p> <p>87% Cluster C by DSM-III-R</p> <p>48% Panic disorder by DSM-III-R</p> <p>20% Eating disorder by DSM-III-R</p> <p>17% Drug/alcohol abuse/dependence by DSM-III-R</p> <p>45% Phobic disorders by DSM-III-R</p> <p>37% Other anxiety disorders by DSM-III-R</p> <p>Exclusions: Age < 18 or > 55; non-English speaking; IQ < 90; no Axis II diagnosis; previous diagnosis of schizophrenia or delusional disorder; previous continuous stay in hospital for 2 yrs or more; organic brain damage; involvement in criminal proceedings for violent crimes</p> <p>Notes: 70% BPD</p>	<p>Data Used</p> <p>Admission for any psychiatric reasons (N)</p> <p>Attempted suicide</p> <p>Self-harm</p> <p>GAS</p> <p>GSI</p> <p>Notes: GSI & GAS at 6 & 12 months; self-harm, suicide attempts & admission 24 months</p>	<p>Group 1 N= 46</p> <p>One-stage group - Hospital stay of 11-16 months; post-discharge responsibility for setting up further treatment or seeking additional support is left to the patient</p> <p>Group 2 N= 44</p> <p>Two-stage group - Hospital stay of 6 months followed by 12-18 months of outpatient group psychotherapy and 6 months' concurrent community outreach nursing, both provided by Cassel hospital staff</p>	SIGN 2+
---	--	--	---	---------

Results from this paper:
Internal validity:

1.1 Well covered	1.6 Not addressed	1.10 Well covered
------------------	-------------------	-------------------

1.2 Well covered	1.7 Well covered	1.11 Not addressed
1.3 Well covered	1.8 Not applicable	1.12 Not addressed
1.4 Not applicable	1.9 Not applicable	1.13 Adequately addressed
1.5 34% not followed-up		

<p>CHIESA2004</p> <p>Study Type: cohort study</p> <p>Type of Analysis: ITT</p> <p>Blindness:</p> <p>Duration (days):</p> <p>Followup: 2 years</p> <p>Setting: UK; Cassel Hospital</p> <p>Notes: Recalled dropouts for assessment</p> <p>Info on Screening Process: All consecutive admissions between 1993 and 1997</p>	<p>n= 143</p> <p>Age: Mean 32</p> <p>Sex: 38 males 105 females</p> <p>Diagnosis:</p> <p>47% Paranoid PD by DSM-IIIIR</p> <p>69% BPD by DSM-IIIIR</p> <p>6% ASPD by DSM-IIIIR</p> <p>50% Obsessive by DSM-IIIIR</p> <p>39% Depression by DSM-IIIIR</p> <p>11% Dysthymia by DSM-IIIIR</p> <p>11% Bulimia Nervosa by DSM-IIIIR</p> <p>26% Social Phobia by DSM-IIIIR</p> <p>18% Drug/alcohol abuse/dependence by DSM-IIIIR</p> <p>50% Not otherwise specified by DSM-IIIIR</p> <p>Exclusions: Aged < 18 or > 55; IQ below 80; not meeting diagnosis for >=1 PD; schizophrenia; paranoid psychosis; drug/alcohol addiction, mental impairment; evidence of organic brain disorder</p>		<p>Group 1 N= 49</p> <p>One-stage group - aka inpatient program: expected 12-month admission with no planned outpatient follow-up</p> <p>Group 2 N= 45</p> <p>Two-stage group - aka step-down program: expected 6-month admission followed by 12-18 month outpatient group analytic psychotherapy and 6-9 month concurrent outreach nursing</p> <p>Group 3 N= 49</p> <p>TAU - aka community comparison group - standard general psychiatric care (psychotropic medication; supportive outpatient and community contact with 1 or more care workers on average every 2-4 weeks; hospital admission if needed; clinical review monthly</p>	SIGN 2+
--	--	--	---	---------

Results from this paper:																	
Internal validity:																	
<table border="0"> <tr> <td>1.1 Well covered</td> <td>1.6 Adequately addressed</td> <td>1.10 Well covered</td> </tr> <tr> <td>1.2 Well covered</td> <td>1.7 Well covered</td> <td>1.11 Not addressed</td> </tr> <tr> <td>1.3 Well covered</td> <td>1.8 Not applicable</td> <td>1.12 Not addressed</td> </tr> <tr> <td>1.4 Not applicable</td> <td>1.9 Not applicable</td> <td>1.13 Adequately addressed</td> </tr> <tr> <td>1.5 44% not followed-up</td> <td></td> <td></td> </tr> </table>	1.1 Well covered	1.6 Adequately addressed	1.10 Well covered	1.2 Well covered	1.7 Well covered	1.11 Not addressed	1.3 Well covered	1.8 Not applicable	1.12 Not addressed	1.4 Not applicable	1.9 Not applicable	1.13 Adequately addressed	1.5 44% not followed-up				
1.1 Well covered	1.6 Adequately addressed	1.10 Well covered															
1.2 Well covered	1.7 Well covered	1.11 Not addressed															
1.3 Well covered	1.8 Not applicable	1.12 Not addressed															
1.4 Not applicable	1.9 Not applicable	1.13 Adequately addressed															
1.5 44% not followed-up																	

<p>CHIESA2007</p> <p>Study Type: cohort study</p> <p>Study Description: Analysis of predictor variables</p> <p>Blindness:</p> <p>Duration (days):</p> <p>Followup: 2 years</p> <p>Setting: UK; Cassel Hospital</p> <p>Info on Screening Process: 137 consecutive</p>	<p>n= 73</p> <p>Age: Mean 30</p> <p>Sex: 18 males 55 females</p> <p>Diagnosis:</p> <p>100% Cluster B by DSM-IIIIR</p> <p>69% Depression by DSM-IIIIR</p>			SIGN 2+
---	---	--	--	---------

<p>admissions to the Cassel Hospital for psychosocial treatment over a 4-yr period; 3% did not meet study criteria (axis II diagnosis); 11% refused consent; 15% dropped out.</p>	<p>33% Bulimia Nervosa by DSM-III-R</p> <p>31% Panic disorder by DSM-III-R</p> <p>29% Obsessive compulsive disorder by DSM-III-R</p> <p>51% Paranoid PD by DSM-III-R</p> <p>18% Schizotypal by DSM-III-R</p> <p>49% Avoidant PD by DSM-III-R</p> <p>34% Dependent by DSM-III-R</p> <p>21% Passive-aggressive by DSM-III-R</p> <p>49% Self-defeating by DSM-III-R</p> <p>30% Social Phobia by DSM-III-R</p> <p>Exclusions: Not meeting criteria for axis II disorder</p>			
---	---	--	--	--

<p>Results from this paper:</p> <p>Internal validity:</p> <table data-bbox="35 734 851 877"> <tr> <td>1.1 Well covered</td> <td>1.6 Not addressed</td> <td>1.10 Well covered</td> </tr> <tr> <td>1.2 Well covered</td> <td>1.7 Well covered</td> <td>1.11 Not addressed</td> </tr> <tr> <td>1.3 Well covered</td> <td>1.8 Not applicable</td> <td>1.12 Not addressed</td> </tr> <tr> <td>1.4 Not applicable</td> <td>1.9 Not applicable</td> <td>1.13 Adequately addressed</td> </tr> <tr> <td>1.5 47% not followed-up</td> <td></td> <td></td> </tr> </table>					1.1 Well covered	1.6 Not addressed	1.10 Well covered	1.2 Well covered	1.7 Well covered	1.11 Not addressed	1.3 Well covered	1.8 Not applicable	1.12 Not addressed	1.4 Not applicable	1.9 Not applicable	1.13 Adequately addressed	1.5 47% not followed-up		
1.1 Well covered	1.6 Not addressed	1.10 Well covered																	
1.2 Well covered	1.7 Well covered	1.11 Not addressed																	
1.3 Well covered	1.8 Not applicable	1.12 Not addressed																	
1.4 Not applicable	1.9 Not applicable	1.13 Adequately addressed																	
1.5 47% not followed-up																			

<p>CLARKIN2001</p> <p>Study Type: cohort study</p> <p>Study Description: Pre & post changed observed in 1 year outpatient treatment of BPD with TFP</p> <p>Type of Analysis: ITT & competer</p> <p>Blindness: Open</p> <p>Duration (days): Mean 365</p> <p>Setting: US; outpatients</p> <p>Info on Screening Process: incl criteria: female, 18-50 years, 5+ DSM IV BPD criteria, >=2 incidents of suicidal/self injurious behav in last 5 years, absence of schizophrenia, bipolar disorder, organic pathology or mental retardation, no other indiv psychotherapy</p>	<p>n= 23</p> <p>Age: Mean 33 Range 19-48</p> <p>Sex: all females</p> <p>Diagnosis:</p> <p>100% BPD by SCID-II</p> <p>47% Major Depressive Disorder by DSM-IV</p> <p>24% Dysthymia by DSM-IV</p> <p>18% Eating disorder by DSM-IV</p> <p>82% Narcissistic PD by DSM-IV</p> <p>76% Paranoid PD by DSM-IV</p> <p>71% OCPD by DSM-IV</p> <p>65% Avoidant PD by DSM-IV</p> <p>Exclusions: 2 patients dropped out at around 4 months and another 2 at around 8 months, another 2 patients were</p>	<p>Data Used</p> <p>Hospitalisation days</p> <p>Hospital admissions</p> <p>Physical condition relating to parasuicide</p> <p>Medical risk of parasuicide</p> <p>Mean number of Self harm/suicide attempts</p> <p>GAF</p>	<p>Group 1 N= 23</p> <p>Transference Focused Therapy - Transference-focused psychotherapy was delivered 3 times a week for 12 months according to the TFP manual</p>	
---	--	---	---	--

	administratively discharged due to protocol violations Notes: 13 patients Caucasian, 4 Hispanic Baseline: <table border="0"> <tr> <td></td> <td>Mean</td> <td>(SD)</td> </tr> <tr> <td>Parasuicide:</td> <td></td> <td></td> </tr> <tr> <td>no. incidents</td> <td>4.39</td> <td>(6.34)</td> </tr> <tr> <td>medical risk</td> <td>2.06</td> <td>(1.17)</td> </tr> <tr> <td>physical condition</td> <td>2.10</td> <td>(1.24)</td> </tr> <tr> <td>Services:</td> <td></td> <td></td> </tr> <tr> <td>hospitalizations</td> <td>1.48</td> <td>(1.59)</td> </tr> <tr> <td>days hospitalized</td> <td>55.33</td> <td>(84.32)</td> </tr> </table>		Mean	(SD)	Parasuicide:			no. incidents	4.39	(6.34)	medical risk	2.06	(1.17)	physical condition	2.10	(1.24)	Services:			hospitalizations	1.48	(1.59)	days hospitalized	55.33	(84.32)			
	Mean	(SD)																										
Parasuicide:																												
no. incidents	4.39	(6.34)																										
medical risk	2.06	(1.17)																										
physical condition	2.10	(1.24)																										
Services:																												
hospitalizations	1.48	(1.59)																										
days hospitalized	55.33	(84.32)																										

CLARKIN2004 Study Type: RCT Study Description: Treatment defined as: 50 weeks of treatment exposure that could take place over a time period of upto 13.5 months Type of Analysis: Completers analysis Blindness: No mention Duration (days): Mean 365 Setting: COUNTRY:US Mixed sample recruited from range of settings Notes: RANDOMISATION: Simple randomisation carried out by an independent researcher who had no knowledge about study hypotheses. No details about blinding. Info on Screening Process: Ppts self referred or by GP, clinics & family members. 336 ppts referred & interviewed; 109 of these eligible for randomization. Exclusions due to absence of 5 criteria for BPD (N = 34) and age (N=30), 9 had substance dependence; 8 schizophrenia/disorder.	n= 90 Age: Mean 31 Sex: 6 males 84 females Diagnosis: 100% BPD by SCID-I 77% Mood disorder 48% Anxiety disorder 33% Eating disorder 38% Drug/alcohol abuse/dependence Exclusions: - comorbid schizophrenia - schizoaffective disorder - bipolar disorder - delusional disorder - delerium - dementia - amnesic and other cognitive disorders - those who lived more than 50miles from the study site - current substance dependence - IQ lower than 80 - Scheduling conflict Notes: ETHNICIY: 62% Caucasian, 10% African American, 9% Hispanic, 5% Asian, 8% Other Baseline: <table border="0"> <tr> <td></td> <td>TFP</td> <td>DBT</td> <td>SPT</td> </tr> <tr> <td>Reflective function</td> <td>2.86 (1.16)</td> <td>3.31 (0.95)</td> <td>2.80 (0.80)</td> </tr> <tr> <td>Coherance</td> <td>2.93 (1.34)</td> <td>3.00 (1.64)</td> <td>3.25 (1.33)</td> </tr> <tr> <td>Resolution of loss</td> <td>2.39 (2.62)</td> <td>2.63 (2.80)</td> <td>1.52 (1.98)</td> </tr> <tr> <td>Resolution of trauma</td> <td>2.09 (2.22)</td> <td>2.44 (2.54)</td> <td>1.61 (2.29)</td> </tr> </table> GAF score of 50 for all three treatment groups.		TFP	DBT	SPT	Reflective function	2.86 (1.16)	3.31 (0.95)	2.80 (0.80)	Coherance	2.93 (1.34)	3.00 (1.64)	3.25 (1.33)	Resolution of loss	2.39 (2.62)	2.63 (2.80)	1.52 (1.98)	Resolution of trauma	2.09 (2.22)	2.44 (2.54)	1.61 (2.29)	Data Used AIA-Q GAF Data Not Used OAS-M (suicidality) Barratt Impulsiveness Scale (BIS) BDI Mean BSI (self report) Notes: Outcomes at 12 mths; mean endpoint data supplied by authors as estimated means calculated from ordinary least squares regression based on the origin & slope of each participant assuming 12 months' treatment. Primary outcome of study was rate of change.	Group 1 N= 31 Transference Focused Therapy - Highly structured, individual twice wkl treatment for 45 mins/session. Focuses on containment of acting out (parasuicidal) behv & identification of dominant relational patterns. Unclear if treatment manualised. Group 2 N= 29 DBT - DBT- manualised CBT with 2 components, a) individual therapy once a week for 60mins b) group skills training, weekly for 2.5hrs. Emergency telephone contact and individual sessions scheduled as needed. Individual therapy - Focuses on heirachy of target behvrs, ppt tracks these on a daily basis with diary cards. Suicidal & self mutilating behvs at the top of heirachy & are examined in each session. Alternative strategies for coping explored as result of behvral analyses Group skills training - Used to help ppts develop less self-destructive and more adaptive means of coping with intolerable affects. Training sessions consist of teaching new skills to ppts and practising these through specific assignments between sessions e.g. emotion regulation Group 3 N= 30 Supportive Psychotherapy - Delivered once weekly for 45 mins/session (more if needed). Primary aim: achieving change through devpt of healthy collaborative r'ship with therapist & replace self-destructive enactments with verbal expression of conflict.	Study quality 1+ Study funded by grants from Borderline Personality Disorder Research Foundation
	TFP	DBT	SPT																					
Reflective function	2.86 (1.16)	3.31 (0.95)	2.80 (0.80)																					
Coherance	2.93 (1.34)	3.00 (1.64)	3.25 (1.33)																					
Resolution of loss	2.39 (2.62)	2.63 (2.80)	1.52 (1.98)																					
Resolution of trauma	2.09 (2.22)	2.44 (2.54)	1.61 (2.29)																					

Results from this paper: Internal validity: <table border="0"> <tr> <td>1.1 Well covered</td> <td>1.6 Adequately addressed</td> </tr> <tr> <td>1.2 Adequately addressed</td> <td>1.7 Adequately addressed</td> </tr> <tr> <td>1.3 Well covered</td> <td>1.8 TFP = 29%, DBT = 48%, SPT = 23%</td> </tr> <tr> <td>1.4 Adequately addressed</td> <td>1.9 Not addressed</td> </tr> <tr> <td>1.5 Adequately addressed</td> <td>1.10 Not applicable</td> </tr> </table> Note caveat about outcome data supplied by authors - not raw endpoint scores and study therefore analysed separately	1.1 Well covered	1.6 Adequately addressed	1.2 Adequately addressed	1.7 Adequately addressed	1.3 Well covered	1.8 TFP = 29%, DBT = 48%, SPT = 23%	1.4 Adequately addressed	1.9 Not addressed	1.5 Adequately addressed	1.10 Not applicable
1.1 Well covered	1.6 Adequately addressed									
1.2 Adequately addressed	1.7 Adequately addressed									
1.3 Well covered	1.8 TFP = 29%, DBT = 48%, SPT = 23%									
1.4 Adequately addressed	1.9 Not addressed									
1.5 Adequately addressed	1.10 Not applicable									

<p>CUNNINGHAM2004</p> <p>Study Type: case series</p> <p>Study Description: Qualitative study in which 14 BPD patients were interviewed. Open-ended semi-structured questions were asked and patients' views of DBT are reported.</p> <p>Blindness: No mention</p> <p>Duration (days):</p> <p>Setting: COUNTRY: US; outpatients</p> <p>Info on Screening Process: Not reported.</p>	<p>n= 14</p> <p>Age: Mean 39 Range 23-61</p> <p>Sex: all females</p> <p>Diagnosis: 100% BPD by DSM-IV</p> <p>Exclusions: None</p> <p>Notes: ETHNICITY: No information</p> <p>Baseline:</p> <p style="padding-left: 40px;">prior to DBT</p> <p>No. in vocational activity 0</p> <p>hrs/wk vocational activity 0</p> <p style="padding-left: 40px;">2years prior to DBT</p> <p>no. clients hospitalised 11</p> <p>no. days/year in hosp 30</p>	<p>Data Used</p> <p>Vocational activity (hrs/week & no.clients)</p> <p>Hospitalisation days</p> <p>Hospital admissions</p>	<p>Group 1 N= 14</p> <p>DBT - Patients received 6 months - 3 years of DBT involving individual therapy, skills training and telephone skills coaching.</p>	
---	--	---	---	--

<p>DAVIDSON2006</p> <p>Study Type: RCT</p> <p>Type of Analysis: Completers analysis</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 365</p> <p>Followup: 24 month</p> <p>Setting: COUNTRY: UK</p> <p>Mixed sample recruited from range of settings</p> <p>Notes: RANDOMISATION: stratified by centre using permuted blocks of size 4. Randomisation schedule generated by centre & kept securely by trial coordinator.</p> <p>Info on Screening Process: Ppts identified by clinicians via new & existing pts referred to CMHTS, clinical psych. & liaison psychiatry services. 125 referred to study, 15 did not meet entry criteria. 2 refused randomisation, & 2 others could not be contacted after initial assmt.</p>	<p>n= 106</p> <p>Age: Mean 32</p> <p>Sex: 17 males 89 females</p> <p>Diagnosis: 100% BPD by SCID-II</p> <p>Exclusions: - currently receiving in-patient treatment for mental state disorder - currently receiving systematic psychological therapy or specialist service particularly psychodynamic psychotherapy - Insufficient knowledge of English to enable them to be assessed adequately and to understand the treatment approach - Temporary resident in the area - Existence of an organic illness, mental impairment, alcohol or drug dependence, schizophrenia, or bipolar affective disorder - defined by SCID I - Under age 18 or over age 65 - Meeting less than 5 criteria for BPD SCID-II - No episode of deliberate self-harm in previous 12 months - Unable to provide informed consent</p> <p>Notes: ETHNICITY: White 100%</p> <p>Baseline:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>CBT+TAU</th> <th>TAU</th> </tr> </thead> <tbody> <tr> <td>BDI</td> <td>42.6 (10.1)</td> <td>42.5 (12.3)</td> </tr> <tr> <td>BSI/GSI</td> <td>2.6 (0.6)</td> <td>2.4 (0.9)</td> </tr> <tr> <td>IIP-32</td> <td>72.4 (16.0)</td> <td>65.9 (17.4)</td> </tr> <tr> <td>State Anxiety</td> <td>53.6 (12.2)</td> <td>51.4 (12.0)</td> </tr> <tr> <td>Trait Anxiety</td> <td>65.8 (7.8)</td> <td>64.0 (8.6)</td> </tr> <tr> <td>Young SQ</td> <td>4.13 (0.66)</td> <td>3.78 (0.70)</td> </tr> <tr> <td>SFQ</td> <td>14.9 (4.9)</td> <td>14.3 (4.1)</td> </tr> <tr> <td>EuroQol Ther</td> <td>42.0 (21.1)</td> <td>48.4 (23.9)</td> </tr> <tr> <td>EuroQol WHSV</td> <td>0.49 (0.37)</td> <td>0.52 (0.36)</td> </tr> </tbody> </table>		CBT+TAU	TAU	BDI	42.6 (10.1)	42.5 (12.3)	BSI/GSI	2.6 (0.6)	2.4 (0.9)	IIP-32	72.4 (16.0)	65.9 (17.4)	State Anxiety	53.6 (12.2)	51.4 (12.0)	Trait Anxiety	65.8 (7.8)	64.0 (8.6)	Young SQ	4.13 (0.66)	3.78 (0.70)	SFQ	14.9 (4.9)	14.3 (4.1)	EuroQol Ther	42.0 (21.1)	48.4 (23.9)	EuroQol WHSV	0.49 (0.37)	0.52 (0.36)	<p>Data Used</p> <p>Leaving treatment early for any reason</p> <p>BDI</p> <p>SFQ</p> <p>EuroQol Total</p> <p>GSI</p> <p>Stait anxiety</p> <p>Suicide attempts</p> <p>In patient psychiatric hospitalisation</p> <p>A&E attendance</p> <p>Data Not Used</p> <p>Acts of self mutilation - data not extractable per person</p> <p>Brief Symptom Positive Symptom Distress Index</p> <p>YSQ</p> <p>Suicidal acts</p> <p>Notes: Outcomes extracted at 12 and 24 months</p>	<p>Group 1 N= 54</p> <p>CBT plus TAU - CBT focuses on ppts beliefs & behaviours that impair their social & adaptive functioning. 30 sessions over 1 yr lasting upto 1 hr. They work on long-standing problems & develop new ways of thinking & behaving.</p> <p>Group 2 N= 52</p> <p>TAU - Ppts received standard treatment that they would have been given if the trial had not been in place, such as A&E services for self harm, CBT within the NHS other psychological help from CMHTs to manage a crisis.</p>	<p>Study quality 1+ Study funded by grant from Wellcome Trust</p>
	CBT+TAU	TAU																																
BDI	42.6 (10.1)	42.5 (12.3)																																
BSI/GSI	2.6 (0.6)	2.4 (0.9)																																
IIP-32	72.4 (16.0)	65.9 (17.4)																																
State Anxiety	53.6 (12.2)	51.4 (12.0)																																
Trait Anxiety	65.8 (7.8)	64.0 (8.6)																																
Young SQ	4.13 (0.66)	3.78 (0.70)																																
SFQ	14.9 (4.9)	14.3 (4.1)																																
EuroQol Ther	42.0 (21.1)	48.4 (23.9)																																
EuroQol WHSV	0.49 (0.37)	0.52 (0.36)																																

Results from this paper:

Internal validity:

1.1 Adequately addressed	1.6 Adequately addressed
1.2 Well covered	1.7 Adequately addressed
1.3 Well covered	1.8 CBT+TAU = 13% TAU = 17%
1.4 Well covered	1.9 Not addressed

1.5 Adequately addressed 1.10 Adequately addressed				
DAVIES1999				
Study Type: cohort study	n= 52	Data Used	Group 1 N= 52	
Blindness:	Age: Mean 27 Range 19-45	Hospitalisation days - Comparison not useful	Therapeutic community	
Duration (days):	Sex: 22 males 30 females	Notes: Gives mean bed days before hospitalisation (3 yrs) and post hospitalisation (3 yrs)		
Followup: Up to 3 years	Diagnosis:			
Info on Screening Process: Admissions between Jan 1993 and Dec 1995	87% Emotionally unstable PD by ICD-10			
	4% Paranoid PD by ICD-10			
	4% Dependent by ICD-10			
	2% Anakastic by ICD-10			
	25% Eating disorder by ICD-10			
	13% Mood disorder by ICD-10			
	40% Drug/alcohol abuse/dependence by ICD-10			

DOLAN1992				
Study Type: cohort study	n= 62	Data Used	Group 1 N= 62	SIGN: 2+
Study Description: Prospective follow-up study of people admitted to the Henderson (no control group)	Age: Mean 25 Range 17-44	GSI	Therapeutic community - Average stay 30 weeks (range 4 to 55)	
Blindness:	Sex:			
Duration (days):	Diagnosis:			
Followup: 6 months post discharge	100% Axis II PD by Not reported			
Setting: UK	Exclusions: None			
Info on Screening Process: Everyone admitted between Jan 1985 and Dec 1988 were included (n=95) with 62 followed-up	Notes: Diagnosis not reported but intro quotes a recent study which showed 87% of people admitted to the Henderson have BPD diagnosis.			

Results from this paper:				
Internal validity:				
1.1 Well covered	1.6 Not applicable	1.10 Not addressed		
1.2 Well covered	1.7 Well covered	1.11 Not addressed		
1.3 Adequately addressed	1.8 Not applicable	1.12 Not addressed		
1.4 Not applicable	1.9 Not addressed	1.13 Not addressed		
1.5 147/194 76% and 51/170 30% completed psychological typing tests				

DOLAN1997				
Study Type: cohort study	n= 137	Data Used	Group 1 N= 70	SIGN 2+
Blindness:	Age:	BSI (self report)	Therapeutic community	
Duration (days):	Sex:	Notes: BSI scores are mean change from referral to follow-up	Group 2 N= 67	
Followup: 1 year	Diagnosis:		Not admitted	
Info on Screening Process: All referrals between Sept 1990 and Nov 1994 (n=598); 380 completed baseline assessment; 159 returned	72% Dependent by DSM-III-R			
	64% Histrionic PD by DSM-III-R			

<p>completed follow-up assessments (54.4% of admitted group and 53.2% of non-admitted group).</p>	<p>80% Paranoid PD by DSM-III-R</p> <p>63% Avoidant PD by DSM-III-R</p> <p>63% Schizoaffective disorder by DSM-III-R</p> <p>67% Passive-aggressive by DSM-III-R</p> <p>55% Narcissistic PD by DSM-III-R</p> <p>81% BPD by DSM-III-R</p> <p>52% ASPD by DSM-III-R</p> <p>63% Schizotypal by DSM-III-R</p> <p>64% Obsessive by DSM-III-R</p> <p>Exclusions: None</p> <p>Notes: 70 admitted; 67 not admitted; 3 had 1 PD and 8 met criteria for 11. Demographics not given.</p>			
---	--	--	--	--

<p>Results from this paper:</p> <p>Internal validity:</p> <table border="0"> <tr> <td>1.1 Well covered</td> <td>1.6 Not applicable</td> <td>1.10 Well covered</td> </tr> <tr> <td>1.2 Well covered</td> <td>1.7 Well covered</td> <td>1.11 Not addressed</td> </tr> <tr> <td>1.3 Well covered</td> <td>1.8 Not applicable</td> <td>1.12 Not addressed</td> </tr> <tr> <td>1.4 Well covered</td> <td>1.9 Not addressed</td> <td>1.13 Not addressed</td> </tr> <tr> <td>1.5 58% did not complete follow-up assessment</td> <td></td> <td></td> </tr> </table>					1.1 Well covered	1.6 Not applicable	1.10 Well covered	1.2 Well covered	1.7 Well covered	1.11 Not addressed	1.3 Well covered	1.8 Not applicable	1.12 Not addressed	1.4 Well covered	1.9 Not addressed	1.13 Not addressed	1.5 58% did not complete follow-up assessment		
1.1 Well covered	1.6 Not applicable	1.10 Well covered																	
1.2 Well covered	1.7 Well covered	1.11 Not addressed																	
1.3 Well covered	1.8 Not applicable	1.12 Not addressed																	
1.4 Well covered	1.9 Not addressed	1.13 Not addressed																	
1.5 58% did not complete follow-up assessment																			

<p>GABBARD2000</p> <p>Study Type: cohort study</p> <p>Study Description: PD patients monitored at 2 private US hospitals from admission to discharge plus 1 year follow up</p> <p>Type of Analysis: completers</p> <p>Blindness: Open</p> <p>Duration (days): Mean 137 Range 10-1014</p> <p>Followup: 1 year</p> <p>Setting: US; inpatients</p> <p>Info on Screening Process: 617, excluded patients under 18, with IQ<70, without PD, those who dropped out at follow-up, & those with organic brain disorders or psychotic disorders</p>	<p>n= 216</p> <p>Age: Mean 38 Range 18-79</p> <p>Sex: 72 males 144 females</p> <p>Diagnosis:</p> <p>46% PD NOS by DSM-III-R</p> <p>35% BPD by DSM-III-R</p> <p>4% Dependent PD by DSM-III-R</p> <p>4% Histrionic PD by DSM-III-R</p> <p>3% Narcissistic PD by DSM-III-R</p> <p>2% Avoidant PD by DSM-III-R</p> <p>2% OCPD by DSM-III-R</p> <p>2% Schizotypal by DSM-III-R</p> <p>1% Passive-aggressive by DSM-III-R</p>	<p>Data Used</p> <p>Bellaks ego function scales</p> <p>Risk Scales</p> <p>GAS</p> <p>BPRS</p>	<p>Group 1 N= 216</p> <p>Intensive inpatient treatment - Mean length of stay = 137 days, median = 58 days, range 10-1014</p>	
--	---	--	---	--

	<p>0% ASPD by DSM-III-R</p> <p>0% Schizoid PD by DSM-III-R</p> <p>0% Paranoid PD by DSM-III-R</p> <p>0% Self-defeating by DSM-III-R</p> <p>Baseline:</p> <table> <tr> <td></td> <td>Mean</td> <td>(SD)</td> </tr> <tr> <td>GAS</td> <td>39.66</td> <td>(6.6)</td> </tr> <tr> <td>Suicide risk</td> <td>3.82</td> <td>(0.9)</td> </tr> <tr> <td>Substance abuse</td> <td>3.90</td> <td>(1.1)</td> </tr> </table>		Mean	(SD)	GAS	39.66	(6.6)	Suicide risk	3.82	(0.9)	Substance abuse	3.90	(1.1)			
	Mean	(SD)														
GAS	39.66	(6.6)														
Suicide risk	3.82	(0.9)														
Substance abuse	3.90	(1.1)														

<p>GIESENBLOO2006</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 1095</p> <p>Followup: 12, 24 and 36 month</p> <p>Setting: COUNTRY: Netherlands Outpatients (4 general CMHTs).</p> <p>Notes: RANDOMISATION: stratified across 4 treatment centers. Adaptive biased urn procedure used. Assessments made by independent researchers.</p> <p>Info on Screening Process: Ppts with BPD referred by therapists at secondary and tertiary CMHTs. No details on numbers screened, but power analysis required 45 ppts/grp.</p>	<p>n= 88</p> <p>Age: Mean 31</p> <p>Sex: 8 males 80 females</p> <p>Diagnosis: 100% BPD by SCID-I</p> <p>Exclusions: - Under age of 18, over age of 60 - Psychotic disorders - bipolar disorder - dissociative identity disorder - antisocial personality disorder - attention-deficit/hyperactivity disorder - addiction to substance requiring detoxification - mental retardation and other psychiatric disorders - BPDSI-IV score less than 20 - Dutch illiteracy</p> <p>Notes: BPDSI-IV cut off score of 20 also used to discriminate BPD from other PD</p> <p>Baseline:</p> <table> <tr> <td></td> <td>SFT</td> <td>TFP</td> </tr> <tr> <td>BPDSI-IV</td> <td>33.53 (1.23)</td> <td>34.37 (1.23)</td> </tr> <tr> <td>EuroQol Ther</td> <td>50.00 (3.29)</td> <td>55.00 (2.72)</td> </tr> <tr> <td>WHOQOL</td> <td>10.33 (0.19)</td> <td>10.42 (0.09)</td> </tr> <tr> <td>Psycho&Per</td> <td>0.36 (0.06)</td> <td>0.64 (0.13)</td> </tr> </table>		SFT	TFP	BPDSI-IV	33.53 (1.23)	34.37 (1.23)	EuroQol Ther	50.00 (3.29)	55.00 (2.72)	WHOQOL	10.33 (0.19)	10.42 (0.09)	Psycho&Per	0.36 (0.06)	0.64 (0.13)	<p>Data Used</p> <p>Leaving treatment early for any reason WHOQOL</p> <p>Data Not Used</p> <p>Psychopathological & personality factor score Defense Style Questionnaire Miskimins Self Goal Discrepancy Scale Rosenberg Self Esteem Scale YSQ EuroQol thermometer BPD Severity Index-IV</p> <p>Notes: Both treatments 50 min sessions twice weekly. Treatment integrity monitored by means of supervision. Randomly selected audiotapes of each quarter used for evaluation. Outcomes extracted at 12, 24, 32 months.</p>	<p>Group 1 N= 45</p> <p>Schema Focused Therapy - Treatment manualised (Young, 1994). Focused on therapeutic r'ship, daily life outside therapy, past (traumatic) experiences. Recovery achieved when dysfunctional schemas no longer control or rule ppts life</p> <p>Group 2 N= 43</p> <p>Transference Focused Therapy - Change achieved frm analysing & interpreting transference r'ship, focusing on the here & now context. Exploration, confrontation & interpretation used. Recovery achieved when good & bad rep of self & others are integrated & fixed object r'tions are resolved</p>	<p>Study Quality 1+ Study funded by research grant from the Dutch Health Care Insurance Board. The Dutch National Fund of Mental Health supported central training of therapists.</p>
	SFT	TFP																	
BPDSI-IV	33.53 (1.23)	34.37 (1.23)																	
EuroQol Ther	50.00 (3.29)	55.00 (2.72)																	
WHOQOL	10.33 (0.19)	10.42 (0.09)																	
Psycho&Per	0.36 (0.06)	0.64 (0.13)																	

<p>Results from this paper:</p> <p>Internal validity:</p> <table> <tr> <td>1.1 Well covered</td> <td>1.6 Adequately addressed</td> </tr> <tr> <td>1.2 Well covered</td> <td>1.7 Adequately addressed</td> </tr> <tr> <td>1.3 Well covered</td> <td>1.8 SFT= 27% TFP= 51%</td> </tr> <tr> <td>1.4 Adequately addressed</td> <td>1.9 Adequately addressed</td> </tr> <tr> <td>1.5 Adequately addressed</td> <td>1.10 Not applicable</td> </tr> </table>	1.1 Well covered	1.6 Adequately addressed	1.2 Well covered	1.7 Adequately addressed	1.3 Well covered	1.8 SFT= 27% TFP= 51%	1.4 Adequately addressed	1.9 Adequately addressed	1.5 Adequately addressed	1.10 Not applicable
1.1 Well covered	1.6 Adequately addressed									
1.2 Well covered	1.7 Adequately addressed									
1.3 Well covered	1.8 SFT= 27% TFP= 51%									
1.4 Adequately addressed	1.9 Adequately addressed									
1.5 Adequately addressed	1.10 Not applicable									

<p>HARLEY2007</p> <p>Study Type: cohort study</p> <p>Study Description: Naturalistic study, all patients received DBT skills training, some also received individual DBT therapy, rest received non-DBT individual therapy.</p> <p>Type of Analysis: completers</p>	<p>n= 49</p> <p>Age: Mean 40</p> <p>Sex: 4 males 45 females</p> <p>Diagnosis: 100% BPD by SCID-II</p>	<p>Data Used</p> <p>PAI</p>	<p>Group 1 N= 10</p> <p>DBT skills training - Skill groups met once and week and were modelled closely on Linehans DBT skills training manual. In system DBT - Individual DBT was given to patients by therapists located in same hospital as skills DBT group - these patients received full DBT package.</p>	
--	---	------------------------------------	---	--

<p>Blindness: No mention</p> <p>Duration (days): Mean 210</p> <p>Setting: COUNTRY: US; outpatients</p> <p>Info on Screening Process: 67 patients completed intake procedure. Excluded if did not have BPD diagnosis; were against enrolling in program or had already completed DBT skills training.</p>	<p>61% Depression by SCID-I</p> <p>27% Bipolar II disorder by SCID-I</p> <p>22% Eating disorder by SCID-I</p> <p>39% Post traumatic stress disorder by SCID-I</p> <p>41% Anxiety disorder by SCID-I</p> <p>12% Substance use disorder by SCID-I</p> <p>Exclusions: 25 participants dropped out - either chose to discontinue or were no longer eligible due to poor attendance.</p> <p>Notes: ETHNICITY: 96% Caucasian</p> <p>Baseline: PAI BOR-A 74 (7.9) PAI BOR-1 72 (8.5) PAI BOR-N 76 (8.5) PAI BOR-S 66 (10.9)</p>	<p>Notes: PAI scales used: Depression, Anxiety, Suicide, Negative Impression Management, Schwartz Outcome, Borderline including Affective instability, Identity diffusion, Negative relationships and Self-harm.</p>	<p>Group 2 N= 16</p> <p>DBT skills training - Skill groups met once and week and were modelled closely on Linehans DBT skills training manual.</p> <p>In system non DBT - Non-DBT individual therapy was given to patients by therapists located in same hospital as skills DBT group .</p> <p>Group 3 N= 23</p> <p>DBT skills training - Skill groups met once and week and were modelled closely on Linehans DBT skills training manual.</p> <p>Out of system non DBT - Non-DBT individual therapy was given to patients by therapists located outside the hospital that provided skills DBT group .</p>							
<p>HENGEVELD1996</p> <p>Study Type: case series</p> <p>Study Description: Effectiveness of short term group CBT for recurrent suicide attempters</p> <p>Type of Analysis: ITT</p> <p>Blindness: Open</p> <p>Duration (days): Mean 140</p> <p>Followup: 10 months</p> <p>Setting: NETHERLANDS; outpatients</p> <p>Info on Screening Process: 23, inclusion criteria: female, over 18, multiple presentations to hospital following self-harm, at least 1 prior suicide attempt, no current inpatient treatment, no ongoing alcohol abuse</p>	<p>n= 9</p> <p>Age: Mean 31 Range 21-43</p> <p>Sex: all females</p> <p>Diagnosis:</p> <p>44% Adjustment disorder by DSM-III-R</p> <p>11% Impulse control disorder by DSM-III-R</p> <p>11% Schizoaffective disorder by DSM-III-R</p> <p>11% Dysthymia by DSM-III-R</p> <p>11% Major Depressive Disorder by DSM-III-R</p> <p>44% BPD by DSM-III-R</p> <p>11% Histrionic PD by DSM-III-R</p> <p>22% PD NOS by DSM-III-R</p> <p>Exclusions: 4 patients dropped out, 1 was referred for individual treatment following another suicide attempt, 1 missed several sessions, 2 withdrew from course because they felt they no longer needed it.</p> <p>Baseline:</p> <table border="0"> <tr> <td></td> <td>Mean</td> </tr> <tr> <td>BDI</td> <td>22.9</td> </tr> <tr> <td>SCL-90</td> <td>231.3</td> </tr> </table>		Mean	BDI	22.9	SCL-90	231.3	<p>Data Used</p> <p>BDI</p> <p>SCL-90</p>	<p>Group 1 N= 9</p> <p>CBT - high frequency group CBT consisting of 8 weekly sessions & 2 booster sessions. Treatment organised as a training course in addition to outpatient treatment.</p>	
	Mean									
BDI	22.9									
SCL-90	231.3									
<p>KOONS2001</p> <p>Study Type: RCT</p> <p>Type of Analysis: Completers</p>	<p>n= 28</p> <p>Age: Mean 35 Range 21-46</p> <p>Sex: all females</p>	<p>Data Used</p> <p>BPD DSM criteria</p> <p>STAXI -Anger In</p>	<p>Group 1 N= 10</p> <p>DBT - Treatment manualised Individual therapy & group skills training 190 mins</p>	<p>Ppts paid \$20 for each of the three assessment: baseline, 3 months and 6 months</p>						

<p>Blindness: No mention Duration (days): Mean 168</p> <p>Setting: COUNTRY: US Primary Care</p> <p>Notes: RANDOMISATION: procedure not described. No details on blinding.</p> <p>Info on Screening Process: Ppts recruited through VA primary care clinic, VA counseling centres & other VA medical centres. 56 ppts referred, 17 excluded, 5 unwilling to participate, 4 lacked access to dependable transportation resources. 2 did not meet BPD criteria. 28 randomised.</p>	<p>Diagnosis: 100% BPD by DSM-III-R</p> <p>25% Substance abuse</p> <p>Exclusions: - Schizophrenia - Bipolar Disorder - Substance dependence - Antisocial Personality Disorder - Male</p> <p>Notes: ETHNICITY: 75% Caucasian, 25% African American</p> <p>Baseline:</p> <table border="1"> <thead> <tr> <th></th> <th>DBT</th> <th>TAU</th> </tr> </thead> <tbody> <tr> <td>Parasuicide</td> <td>5.1 (13.2)</td> <td>0.7 (1.3)</td> </tr> <tr> <td>Suicide ideation</td> <td>36.2 (13.5)</td> <td>44.6 (11.4)</td> </tr> <tr> <td>Hopelessness</td> <td>11.9 (6.7)</td> <td>13.6 (6.8)</td> </tr> <tr> <td>HDRS</td> <td>29.7 (13.7)</td> <td>32.6 (9.7)</td> </tr> <tr> <td>BDI</td> <td>22.8 (11.1)</td> <td>34.7 (14.6)</td> </tr> <tr> <td>HARS</td> <td>18.4 (7.3)</td> <td>27.7 (9.3)</td> </tr> <tr> <td>Anger In</td> <td>22.9 (5.7)</td> <td>20.5 (4.7)</td> </tr> <tr> <td>Anger Out</td> <td>18.2 (5.7)</td> <td>17.2 (5.8)</td> </tr> <tr> <td>DES</td> <td>22.3 (15.2)</td> <td>41.0 (22.4)</td> </tr> <tr> <td>BPD criteria</td> <td>6.8 (1.1)</td> <td>6.7 (0.8)</td> </tr> </tbody> </table>		DBT	TAU	Parasuicide	5.1 (13.2)	0.7 (1.3)	Suicide ideation	36.2 (13.5)	44.6 (11.4)	Hopelessness	11.9 (6.7)	13.6 (6.8)	HDRS	29.7 (13.7)	32.6 (9.7)	BDI	22.8 (11.1)	34.7 (14.6)	HARS	18.4 (7.3)	27.7 (9.3)	Anger In	22.9 (5.7)	20.5 (4.7)	Anger Out	18.2 (5.7)	17.2 (5.8)	DES	22.3 (15.2)	41.0 (22.4)	BPD criteria	6.8 (1.1)	6.7 (0.8)	<p>HARS HRSD-24 (Hamilton 1960) BDI BHS Beck Scale for Suicide Ideation Parasuicidal behaviour</p> <p>Data Not Used DES</p> <p>Notes: DBT therapists met regularly with consultants for support. TAU clinicians did not meet regularly. All ppts offered pharmacotherapy Outcomes extracted at 6 months; parasuicidal behaviour from PHI (N over previous 3 months)</p>	<p>per/wk & a therapists' consultation meeting attended wkly. Individual therapists are available btwn sessions for telephone coaching in use of skills to reduce target behvs.</p> <p>Individual therapy - Hierarchy of target behvs monitored on diary card & discussed in each session acc to priority. Behvrl & solution analysis used to replace maladaptive behvs.</p> <p>Group skills training - Aims to teach skills for identifying & regulating emotions, tolerating distress, interacting with others more effectively and living more mindfully</p> <p>Group 2 N= 10</p> <p>TAU - Ppts offered 60 mins of weekly individual therapy with a clinician. Ppts also offered one or more of several supportive & psychoeducational grps. Type of treatment offered was at the therapist's discretion.</p>	<p>Study Quality 1+ Study funded by grant from VA Research Advisory Group</p>
	DBT	TAU																																			
Parasuicide	5.1 (13.2)	0.7 (1.3)																																			
Suicide ideation	36.2 (13.5)	44.6 (11.4)																																			
Hopelessness	11.9 (6.7)	13.6 (6.8)																																			
HDRS	29.7 (13.7)	32.6 (9.7)																																			
BDI	22.8 (11.1)	34.7 (14.6)																																			
HARS	18.4 (7.3)	27.7 (9.3)																																			
Anger In	22.9 (5.7)	20.5 (4.7)																																			
Anger Out	18.2 (5.7)	17.2 (5.8)																																			
DES	22.3 (15.2)	41.0 (22.4)																																			
BPD criteria	6.8 (1.1)	6.7 (0.8)																																			

<p>Results from this paper:</p> <p>Internal validity:</p> <table border="1"> <tr> <td>1.1 Well covered</td> <td>1.6 Adequately addressed</td> </tr> <tr> <td>1.2 Adequately addressed</td> <td>1.7 Adequately addressed</td> </tr> <tr> <td>1.3 Not addressed</td> <td>1.8 DBT N= 3 TAU N = 2 (plus 3 others not by group)</td> </tr> <tr> <td>1.4 Not addressed</td> <td>1.9 Not addressed</td> </tr> <tr> <td>1.5 Adequately addressed</td> <td>1.10 Adequately addressed</td> </tr> </table>		1.1 Well covered	1.6 Adequately addressed	1.2 Adequately addressed	1.7 Adequately addressed	1.3 Not addressed	1.8 DBT N= 3 TAU N = 2 (plus 3 others not by group)	1.4 Not addressed	1.9 Not addressed	1.5 Adequately addressed	1.10 Adequately addressed
1.1 Well covered	1.6 Adequately addressed										
1.2 Adequately addressed	1.7 Adequately addressed										
1.3 Not addressed	1.8 DBT N= 3 TAU N = 2 (plus 3 others not by group)										
1.4 Not addressed	1.9 Not addressed										
1.5 Adequately addressed	1.10 Adequately addressed										

<p>LANIUS2003</p> <p>Study Type: cohort study</p> <p>Study Description: descriptive data from women who fulfilled BPD and PTSD criteria and completed 1 year of DBT</p> <p>Blindness: No mention Duration (days): Mean 365</p> <p>Setting: COUNRTY: Canada; mostly out-patient based</p> <p>Info on Screening Process: none</p>	<p>n= 18</p> <p>Age: Mean 35 Sex: all females</p> <p>Diagnosis: 100% BPD & PTSD by DSM-IV</p> <p>61% Dysthymia by Not reported</p> <p>56% Major Depressive Disorder by Not reported</p> <p>50% Dissociative disorder NOS by Not reported</p> <p>33% Eating disorder by Not reported</p> <p>22% Substance abuse by Not reported</p> <p>11% Panic disorder by Not reported</p> <p>6% Bipolar II disorder by Not reported</p> <p>6% Schizoaffective disorder by Not reported</p> <p>Exclusions: none</p> <p>Notes: ETHNICITY: not reported</p>	<p>Data Used</p> <p>Employment/schooling Outpatient visits A&E attendance In patient psychiatric hospitalisation</p>	<p>Group 1 N= 18</p> <p>DBT - no details of DBT given</p>	
--	---	---	--	--

	no. days inpatient stay 1083 no.emergency room visits 85 no. outpatient visits 656 no. patients employed/at school 1			
LEICHSENTRING2007				
Study Type: cohort study Study Description: naturalistic study assessing the effectiveness of psychoanalytic-interactive therapy Blindness: Open Duration (days): Setting: GERMANY	n= 132 Age: Mean 30 Sex: 18 males 114 females Diagnosis: 100% BPD	Data Used GAS IIP SCL-90	Group 1 N= 132 Psychoanalytic-interactive therapy	
LINEHAN1991				
Study Type: RCT Type of Analysis: Completers Blindness: Single blind Duration (days): Mean 365 Setting: COUNTRY: US Outpatients Notes: RANDOMISATION:Ppts matched on no. of lifetime parasuicide & psych hospitalizations, age & good vs poor clinical prognosis then randomly assigned. Info on Screening Process: Ppts were clinically referred. No details on numbers screened.	n= 63 Age: Mean 27 Range 18-45 Sex: all females Diagnosis: 100% BPD by DSM-III-R Exclusions: - Score of less than 7 on DIB - Less than 2 incidents of parasuicide in last 5 years - schizophrenia - bipolar disorder - substance dependence - mental retardation - less than 18 years old or more than 45 years of age - unwilling to terminate other individual psychotherapy if assigned to DBT - Notes: DIB also used to determine BPD diagnosis ETHNICITY: no data Baseline: DBT TAU No of parasuicidal acts 3.50 (7.88) 15.91 (25.02) (Median)	Data Used Self Harm - parasuicidal acts Leaving treatment early for any reason GAS STAI - Anger Psychiatric Inpatient admission Scale for Suicide Ideators Data Not Used Maintenance in Therapy Survival and Coping Scale - data not reported The Reason for Living Inventory - data not reported BHS - data not reported BDI - data not reported The Treatment History Interview PHI Notes: Outcomes extracted at 18 and 24 months	Group 1 N= 32 DBT - Treatment manualised (Linehan 1984). Weekly individual and group therapy over 1 year. Individual therapy - Directive, problem-oriented techniques incl. behvrl skill training, contingency management, cognitive modification & exposure to emotional cues - all balanced with supportive techniques such as reflection, empathy & acceptance Group skills training - Weekly session for 2.5 hrs. Taught interpersonal skills, distress/reality acceptance and emotion regulation skills. Group therapists did not accept telephone calls from ppts, any crisis referred to individual therapist, Group 2 N= 31 TAU - All ppts received alternative therapy referrals from which they could choose any treatment available in the community	Study quality 1+ Study supported by grant from the National Institute of Mental Health, Bethesda
Results from this paper: Internal validity: 1.1 Adequately addressed 1.6 Well covered 1.2 Adequately addressed 1.7 Adequately addressed 1.3 Not addressed 1.8 DBT = 31% TAU = 29% 1.4 Adequately addressed 1.9 Not addressed 1.5 Well covered 1.10 Not applicable				
LINEHAN1999				
Study Type: RCT Type of Analysis: ITT Blindness: Single blind Duration (days): Mean 365 Followup: 16 month Setting: COUNTRY: US Outpatients Notes: RANDOMISATION:Minimization	n= 28 Age: Mean 30 Range 18-45 Sex: all females Diagnosis: 100% BPD by SCID-I 74% Substance use disorder by SCID-I	Data Used Leaving treatment early for any reason % of days drug/alcohol free GAS % of urinalysis clean Data Not Used Parasuicidal behaviour - Not extractable GSA - not a validated measure Social History Interview	Group 1 N= 12 DBT - Modified for use with substance abusing pop i.e.replacing drug use with behavioural skills. 4mths drug maintenance, 4mths drug tapering (for skills acquisition) & 4mths no drug replacement (for skills generalisation). Opiates replaced with methadone.	Study quality 1+ Study supported by grant from National Institute of Drug Abuse, Bethesda

<p>randomisation procedure used - ppts matched on age, severity of drug dependence, readiness to change & global adjustment.</p> <p>Info on Screening Process: Ppts referred by clinicians. No details on numbers screened.</p>	<p>58% Cocaine abuse/dependence by SCID-I</p> <p>52% Alcohol dependence by SCID-I</p> <p>50% Major Depressive Disorder by SCID-I</p> <p>38% Post traumatic stress disorder by SCID-I</p> <p>12% ASPD by SCID-I</p> <p>46% Dysthymia by SCID-I</p> <p>36% Panic disorder by SCID-I</p> <p>9% Agoraphobia without panic by SCID-I</p> <p>22% Social Phobia by SCID-I</p> <p>20% Specific Phobia by SCID-I</p> <p>28% Obsessive compulsive disorder by SCID-I</p> <p>24% General Anxiety Disorder by SCID-I</p> <p>9% Anorexia Nervosa by SCID-I</p> <p>10% Bulimia Nervosa by ICD-9</p> <p>20% Binge-eating Disorder by SCID-I</p> <p>Exclusions: - Schizophrenia - Any psychotic disorder - Bipolar disorder - mental retardation</p> <p>Notes: International Personality Disorders Exam also used to determine BPD diagnosis ETHNICITY: European 78%, African American 7%, Latin 4%, other 11%</p> <p>Baseline: none reported</p>	<p>The Treatment History Interview</p> <p>Notes: Outcomes extracted at 12 and 16 months; parasuicidal behaviour collected with PHI</p>	<p>Individual therapy - Sessions based on clearly prioritized targets and focus on enhancing motivation (e.g. to quit using drugs and to continue therapy) and foci of specific sessions determined by ppts behv since previous session.</p> <p>Group skills training - Teaches mindfulness, distress tolerance, emotion regulation, interpersonal effectiveness and self-management skills.</p> <p>STEPPS - Follows Linehan's 1993 treatment manual. Weekly individual psychotherapy (1 hour) group training skills (2 hours + 15 min window). Skills coaching phone calls with therapist provided when needed</p> <p>Group 2 N= 16</p> <p>TAU - Resembles standard care that ppts would receive in the community. Ppts either referred to alternative substance abuse or mental health counsellors & programs in the community or allowed to continue with their psychotherapist at time of pretreatment</p> <p>STEPPS - Ppts also allowed to meet with case managers when needed.</p>	
---	---	--	---	--

<p>Results from this paper:</p> <p>Internal validity:</p> <p>1.1 Well covered 1.6 Adequately addressed</p> <p>1.2 Adequately addressed 1.7 Adequately addressed</p> <p>1.3 Not addressed 1.8 DBT = 41.6% TAU = 16%</p> <p>1.4 Adequately addressed 1.9 Adequately addressed</p> <p>1.5 Adequately addressed 1.10 Not applicable</p>	
--	--

<p>LINEHAN2002</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 365</p> <p>Followup: 16 month</p> <p>Setting: COUNTRY: US</p>	<p>n= 23</p> <p>Age: Mean 36</p> <p>Sex: all females</p> <p>Diagnosis: 100% BPD by SCID-II</p>	<p>Data Used</p> <p>Leaving treatment early for any reason</p> <p>Mean % clean urinalyses</p> <p>Abstinence: Self report mean days of heroin</p> <p>Data Not Used</p> <p>Parasuicidal behaviour - No data by treatment group</p>	<p>Group 1 N= 11</p> <p>DBT - Treatment manualised (Linehan 1993) & adapted for substance abusers.</p>	<p>Study Quality 1+</p> <p>Study supported by grant from National Institute of Drug Abuse, National Institute of Health. Roxane Laboratories, Inc. donated Methadone and ORLAAM.</p>
---	--	--	---	--

<p>Outpatients</p> <p>Notes: RANDOMISATION:Minimization random assignment - ppts matched on severity of drug dependence, cocaine dep, ASPD & global adjustment.</p> <p>Info on Screening Process: Ppts recruited from mental health clinics, needle exchange programs, substance abuse and methadone maintenance clinics & non-profit HIV/AIDS prevention programs. 64 ppts underwent screening interview, 24 accepted into study.</p>	<p>52% Cocaine abuse/dependence</p> <p>13% Sedative dependence</p> <p>26% Alcohol dependence</p> <p>9% Cannabis dependence</p> <p>39% Major Depressive Disorder</p> <p>18% Eating disorder</p> <p>52% Anxiety disorder</p> <p>44% ASPD</p> <p>Exclusions: - not meeting criteria of BPD - bipolar mood disorder - pregnant - not completing pre-treatment/medical evaluation</p> <p>Notes: Personality Disorders Exam also used to determine diagnosis of BPD ETHNICITY: Caucasian 66%, African American 26%, Mixed ethnicity 4%.</p> <p>Baseline: Average GAF score for both groups 43.2 (8.36).</p>	<p>Notes: Urine samples collected 3 times weekly prior to each treatment session and/or when ppts received LAAM.</p>	<p>Individual therapy - Targetted dsyfunctional behvs in hierarchical order (suicidal, therapy-interfering, substance use and QofL interfering behvs) & replacing those behvs with skillful behvs learnt in psychoeducational skills group.</p> <p>Group skills training - Teaches mindfulness, interpersonal effectiveness, distress tolerance and emotion regulation.</p> <p>Opiate Replacement medication - All ppts received Levomethadyl acetate hydrochloride (LAAM) oral solution 40mg. During the first 2 weeks dose increased in 5-10mg increments per dose every 48hrs until reaching a maintenance dose (modal dose 90/90/130mg). Dose adjusted if necessary.</p> <p>Group 2 N= 12</p> <p>CVT - Treatment inc all DBT acceptance-based strategies, inc validation, reciprocal communication & case management when requested. Therapists are non directive, agenda determined by ppt. Prob solving limited to reducing suicide risk & ensuring med adherence.</p> <p>12 step - Validates the ppt experience in a warm & supportive atmosphere that encourages devt of confidence. Ppts attend 120min women's Narcotics Anonymous meeting.</p>	
--	---	--	---	--

Results from this paper:

Internal validity:	
1.1 Well covered	1.6 Adequately addressed
1.2 Adequately addressed	1.7 Adequately addressed
1.3 Not reported	1.8 DBT = 36% CVT+12 step = 0%
1.4 Adequately addressed	1.9 Well covered
1.5 Adequately addressed	1.10 Not applicable

<p>LINEHAN2006</p> <p>Study Type: RCT</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 365</p> <p>Followup: 12 months</p> <p>Setting: COUNTRY: US University outpatient and community practice</p> <p>Notes: RANDOMISATION:Computerised adaptive minimization randomisation procedure - ppts matched to treatment condition. Investigator blinded.</p> <p>Info on Screening Process: Ppts were women clinically referred for treatment. 186 women assessed for eligibility, 75 excluded (53 did not meet inclusion criteria, 22 refused to participate). 111 randomised.</p>	<p>n= 101</p> <p>Age: Mean 29</p> <p>Sex: all females</p> <p>Diagnosis: 100% BPD by DSM-IV</p> <p>72% Major Depressive Disorder by DSM-IV</p> <p>41% Panic disorder by DSM-IV</p> <p>50% Post traumatic stress disorder by DSM-IV</p> <p>78% Anxiety disorder by DSM-IV</p> <p>30% Substance use disorder by DSM-IV</p> <p>24% Eating disorder by DSM-IV</p>	<p>Data Used</p> <p>Admissions for suicidal ideation Leaving treatment early for any reason Non suicidal injuries Unambivalent suicide attempts Psychiatric Inpatient admission A&E attendance HRSD-17</p> <p>Data Not Used</p> <p>The Reasons for Living Inventory survival & coping The Reasons for Living Inventory mean total Suicide Ideation Highest Medical Risk</p> <p>Notes: Outcomes extracted at 12 and 24 months</p>	<p>Group 1 N= 60</p> <p>DBT - Treatment manualised (Linehan's 1993). Individual psychotherapy 1hr per/wk. Grp skills training 2.5hrs/wk.Telephone consultation (as needed within therapists limits to ensure generalisation.</p> <p>Group 2 N= 51</p> <p>CTBE - Community treatment by experts developed especially for this study. Similar to TAU, treatment provided uncontrolled by research team. Therapists asked to provide dose & type of therapy that they felt most suitable for ppt. Min schedule of 1 session/wk.</p>	<p>Study Quality 1+ Study supported by 2 grants from the National Institute of Mental Health</p>
--	--	--	--	--

	<p>8% Depression by DSM-IV</p> <p>11% ASPD by DSM-IV</p> <p>11% Cluster B by DSM-IV</p> <p>Exclusions: - less than 2 suicidal attempts or self-injuries in past 5 yrs - lifetime diagnosis of Schizophrenia - schizoaffective disorder - bipolar disorder - psychotic disorder - mental retardation - seizure disorder requiring medication - mandate to treatment - need for primary treatment for another debilitating condition</p> <p>Notes: International Personality Disorder Examination also used to screen ppts with BPD. ETHNICITY: 4% African American, 2% Asian American, 1% Native American/Alaskan, 5% 'other' 88% White</p> <p>Baseline:</p> <table border="1"> <thead> <tr> <th></th> <th>DBT</th> <th>CTBE</th> </tr> </thead> <tbody> <tr> <td>Suicide ideation</td> <td>51.7 (20.3)</td> <td>59.9 (21.6)</td> </tr> <tr> <td>Reasons for living Inventory Mean</td> <td>2.8 (0.7)</td> <td>2.7 (0.9)</td> </tr> <tr> <td>Survival & Coping</td> <td>2.7 (0.9)</td> <td>2.7 (1.0)</td> </tr> <tr> <td>HDRS-17</td> <td>20.2 (5.9)</td> <td>21.7 (7.3)</td> </tr> <tr> <td>Highest medical risk</td> <td>7.1 (4.9)</td> <td>8.8 (4.9)</td> </tr> </tbody> </table>		DBT	CTBE	Suicide ideation	51.7 (20.3)	59.9 (21.6)	Reasons for living Inventory Mean	2.8 (0.7)	2.7 (0.9)	Survival & Coping	2.7 (0.9)	2.7 (1.0)	HDRS-17	20.2 (5.9)	21.7 (7.3)	Highest medical risk	7.1 (4.9)	8.8 (4.9)			
	DBT	CTBE																				
Suicide ideation	51.7 (20.3)	59.9 (21.6)																				
Reasons for living Inventory Mean	2.8 (0.7)	2.7 (0.9)																				
Survival & Coping	2.7 (0.9)	2.7 (1.0)																				
HDRS-17	20.2 (5.9)	21.7 (7.3)																				
Highest medical risk	7.1 (4.9)	8.8 (4.9)																				

Results from this paper:

Internal validity:

1.1 Well covered	1.6 Adequately addressed
1.2 Adequately addressed	1.7 Adequately addressed
1.3 Not addressed	1.8 DBT = 11.5% CTBE = 28.6%
1.4 Not addressed	1.9 Not addressed
1.5 Adequately addressed	1.10 Not applicable

<p>LOFFLERSTASTKA2003</p> <p>Study Type: case control</p> <p>Study Description: All patients received 6 wk inpatient treatment, following this 9 patients who engaged in further outpatient treatment were compared to 11 who did not</p> <p>Blindness: Open</p> <p>Duration (days): Mean 42</p> <p>Followup: 1 year</p> <p>Setting: Inpatient/outpatient</p> <p>Info on Screening Process: 57 people screened, excl criteria: operational psychodynamic diagnostics rating of high/nonexisting treatment requirements or high/moderate integrated structural level; or substance abuse, or other comorbid disorder</p>	<p>n= 20</p> <p>Age: Mean 38</p> <p>Sex: 10 males 10 females</p> <p>Diagnosis: 100% BPD by DSM-IV</p> <p>Exclusions: 20 patients received 6 wk inpatient therapy, 11 (8 male, 3 female) did not engage in further outpatient treatment</p>	<p>Data Used</p> <p>Quaire for competence & control convictions Quaire for assessing aggression factors IIP STAXI</p>	<p>Group 1 N= 11</p> <p>Psychoanalytically-oriented therapy inpatient - 6 wks inpatient therapy with aim of clarifying, planning & preparing patients for outpatient therapy</p> <p>Group 2 N= 5</p> <p>Psychoanalytically-oriented therapy inpatient - 6 wks inpatient therapy with aim of clarifying, planning & preparing patients for outpatient therapy</p> <p>Psychoanalytically-oriented therapy outpatient - engaged in outpatient therapy for 1 year</p> <p>Group 3 N= 4</p> <p>Psychoanalytically-oriented therapy inpatient - 6 wks inpatient therapy with aim of clarifying, planning & preparing patients for outpatient therapy</p> <p>Systemic family therapy - engaged in outpatient therapy for 1 year</p>	
--	--	---	--	--

LOPEZ2004

<p>Study Type: non-comparative</p> <p>Study Description: BPD patients were given 48 sessions of manual based transference-focused psychotherapy by inexperienced therapists who were supervised by experts</p> <p>Type of Analysis: completers</p> <p>Blindness: Open</p> <p>Duration (days): Mean 168</p> <p>Setting: MEXICO; outpatients</p> <p>Info on Screening Process: Inclusion criteria: 18-40 years, diagnosis of BPD, graduated from high school, no diagnosis of schizophrenia, bipolar disorder, delusional disorder, severe substance abuse, mental organic disorder or antisocial disorder.</p>	<p>n= 14</p> <p>Age: Mean 25</p> <p>Sex: all females</p> <p>Diagnosis: 100% BPD by SCID-I and II (DSM-IV)</p> <p>Exclusions: 4 participants dropped out due to severe conflicts with parents</p> <p>Baseline: Mean (SD) SCL-90 2.14 (1.0) GAF 37.1 (18.9)</p>	<p>Data Used GAF SCL-90</p>	<p>Group 1 N= 14</p> <p>Transference Focused Therapy - 48 sessions of transference-focused psychotherapy based on a manual were delivered in two weekly individual sessions by 7 inexperienced therapists supervised by experts.</p>	
<p>MARKOWITZ2006</p> <p>Study Type: case series</p> <p>Study Description: very preliminary outcomes of IPT developed for BPD</p> <p>Type of Analysis: completers</p> <p>Blindness: Open</p> <p>Duration (days): Mean 240</p> <p>Setting: US</p>	<p>n= 8</p> <p>Age:</p> <p>Sex:</p> <p>Diagnosis: 100% BPD by Diagnostic Interview for PD</p> <p>Exclusions: 2 dropped out due to substance abuse/dependence, 1 was withdrawn due to suicidality</p>	<p>Data Used SCL-90 HRSD-17 (Hamilton 1960)</p>	<p>Group 1 N= 8</p> <p>IPT - IPT adapted for BPD, 18 sessions of IPT in 16-wks plus 16 weekly continuation sessions</p>	
<p>MCQUILLAN2005</p> <p>Study Type: cohort study</p> <p>Study Description: Reports symptom scores before and after 3 week intensive DBT program.</p> <p>Type of Analysis: completers</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 21</p> <p>Setting: COUNTRY: Switzerland; outpatient unit/crisis centre - patients can voluntarily spend max of 2 nights at centre.</p> <p>Info on Screening Process: 127 people referred to program by physician, participants excluded if principal problem was psychotic, bipolar, developmental, substance dependence, or eating disorder. Most suicidal patients were preferentially offered admission.</p>	<p>n= 127</p> <p>Age: Mean 31 Range 18-52</p> <p>Sex: 24 males 103 females</p> <p>Diagnosis: 100% Personality Disorder by International PD Examination Screening Qu'aire</p> <p>92% BPD by International PD Examination Screening Qu'aire</p> <p>Exclusions: Of 87 patients admitted to program, 16 dropped out - 5 due to hospitalization, reasons for others not reported.</p> <p>Notes: ETHNICITY: not reported; Participant details reported for 127 patients referred to program, after assessment 87 of these were admitted to the program and 71 completed the program.</p> <p>Baseline: BDI 29.1 (11.3) BHS 10.4 (4.9) SASS 32.1 (8.6)</p>	<p>Data Used SASS BHS BDI Mean</p>	<p>Group 1 N= 87</p> <p>DBT - Intensive 3 week DBT - 13hrs group therapy per week plus individual sessions and telephone contact with therapists.</p>	<p>There are disparities between numbers of patients reported in the methods and those reported in the results - 6 patients are unaccounted for in the results.</p>
<p>MUNROEBLUM1995</p> <p>Study Type: RCT</p> <p>Type of Analysis: Completers analysis</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 365</p> <p>Followup: 12 and 24 month</p>	<p>n= 110</p> <p>Age: Range 18-52</p> <p>Sex: 21 males 89 females</p> <p>Diagnosis: 100% BPD by DIB</p>	<p>Data Used Leaving treatment early for any reason</p> <p>Data Not Used HSCL-90 - Only between group statistics given BDI - Only between group statistics given</p>	<p>Group 1 N= 38</p> <p>Interpersonal group therapy (IGP) - Manual guided 30 sessions of treatment (25 weekly sessions followed by 5 biweekly sessions leading to termination). Each session 1.5-2hrs. Addresses conflicted unstable & poorly defined self-</p>	<p>Study quality 1+ Study supported by grants from the Ontario Mental Health Foundation and the National Health Research and Development Programme</p>

<p>Setting: COUNTRY: Canada Outpatients and inpatients</p> <p>Notes: RANDOMISATION: procedure not described. No details on blinding.</p> <p>Info on Screening Process: 110 eligible ppts recruited from the in and out patient units of teaching hospitals, 79 accepted treatment assignment</p>	<p>Exclusions: - Learning difficulty - neurological impairment - mental retardation - primary diagnosis of alcohol or drug addiction - physical disorders of known psychiatric consequence</p> <p>Notes: ETHNICITY: No data</p> <p>Baseline: none reported</p>	<p>Social Adjustment Scale - Only between group statistics given</p> <p>Objective Behaviours Index - Scale developed for study</p> <p>Notes: Outcomes taken as baseline, 6, 12, 18 and 24 month follow up.</p>	<p>system dependent on here & now interpersonal transactions</p> <p>Group 2 N= 41</p> <p>Individual dynamic psychotherapy (IDP) - Consisted of open-ended individual dynamic psychotherapy based on model by Kernberg 1975. Individual sessions took place one or twice weekly. All sessions audiotaped. Therapists used strategies of interpretation, confrontation and exploration.</p>											
<p>Results from this paper:</p> <p>Internal validity:</p> <table border="0" style="width: 100%;"> <tr> <td>1.1 Adequately addressed</td> <td>1.6 Adequately addressed</td> </tr> <tr> <td>1.2 Adequately addressed</td> <td>1.7 Poorly addressed</td> </tr> <tr> <td>1.3 Not addressed</td> <td>1.8 IDP = 36.5% IGP = 57.8%</td> </tr> <tr> <td>1.4 Not addressed</td> <td>1.9 Adequately addressed</td> </tr> <tr> <td>1.5 Adequately addressed</td> <td>1.10 Not applicable</td> </tr> </table>					1.1 Adequately addressed	1.6 Adequately addressed	1.2 Adequately addressed	1.7 Poorly addressed	1.3 Not addressed	1.8 IDP = 36.5% IGP = 57.8%	1.4 Not addressed	1.9 Adequately addressed	1.5 Adequately addressed	1.10 Not applicable
1.1 Adequately addressed	1.6 Adequately addressed													
1.2 Adequately addressed	1.7 Poorly addressed													
1.3 Not addressed	1.8 IDP = 36.5% IGP = 57.8%													
1.4 Not addressed	1.9 Adequately addressed													
1.5 Adequately addressed	1.10 Not applicable													
<p>NORDAHL2005</p> <p>Study Type: case series</p> <p>Study Description: case series assessing effectiveness of schema therapy in 6 BPD wome</p> <p>Type of Analysis: completers</p> <p>Blindness: Open</p> <p>Duration (days): Range 540-1080</p> <p>Followup: 1 year</p> <p>Setting: NORWAY; outpatients</p>	<p>n= 6</p> <p>Age: Mean 26 Range 19-42</p> <p>Sex: all females</p> <p>Diagnosis: 100% BPD by DSM-IV</p> <p>67% Major Depressive Disorder by DSM-IV</p> <p>33% Dysthymia by DSM-IV</p> <p>33% Bulimia Nervosa by DSM-IV</p> <p>50% Anxiety disorder by DSM-IV</p> <p>17% Alcohol misuse by DSM-IV</p> <p>33% Somatoform disorder by DSM-IV</p> <p>33% Avoidant PD by DSM-IV</p> <p>17% Dependent PD by DSM-IV</p> <p>17% Histrionic PD by DSM-IV</p>	<p>Data Used</p> <p>YSQ</p> <p>IIP</p> <p>BAI</p> <p>BDI</p> <p>SCL-90-R</p>	<p>Group 1 N= 6</p> <p>Schema therapy - 1hr weekly session for mean of 22 months (range 18-36), treatment was faded at least 6 months by the end of therapy.</p>											
<p>PRENDERGAST2007</p> <p>Study Type: cohort study</p> <p>Study Description: 6 month DBT treatment outcomes described for 11 women with BPD</p> <p>Type of Analysis: completers</p> <p>Blindness: Open</p> <p>Duration (days): Mean 180</p> <p>Setting: COUNTRY: Australia; community</p>	<p>n= 11</p> <p>Age: Mean 36 Range 23-47</p> <p>Sex: all females</p> <p>Diagnosis: 100% BPD by DSM-IV</p>	<p>Data Used</p> <p>Service Contact</p> <p>Parasuicidal behaviour</p> <p>Coping Scale for Adults</p> <p>GAF</p> <p>STAXI</p> <p>Hospitalisation days</p> <p>Hospital admissions</p>	<p>Group 1 N= 16</p> <p>DBT - Treatment involved 24 weekly 60-90min sessions of individual psychotherapy & 24 weekly 150min sessions of group therapy, also telephone support outside clinic hours.</p>											

<p>setting</p> <p>Info on Screening Process: Ppts recruited from alternative community services and GPs. Ppts excluded if they did not have BPD diagnosis, <18 years, male, experiencing current psychotic episode or could not abstain from alcohol or drugs 24hrs prior to therapy sessions.</p>	<p>45% Dysthymia by DSM-IV</p> <p>18% Major Depressive Disorder by DSM-IV</p> <p>9% Post traumatic stress disorder by DSM-IV</p> <p>Exclusions: 5 women did not complete study, 1 due to psychotic symptoms; 2 due to environmental stressors & long term hospitalisation; 2 excluded due to failure to comply in program.</p> <p>Notes: ETHNICITY: not reported; 16 women were accepted onto DBT program but only details of 11 completing participants were given.</p> <p>Baseline: BDI 36.18 (10.72)</p>	<p>BDI</p> <p>Notes: Subscale scores for STAXI and Coping Scale for Adults provided. Frequency, severity and intent information provided for Parasuicidal behaviour. Number, duration and type of contact given for Service Contact measure.</p>																	
<p>RYLE2000</p> <p>Study Type: cohort study</p> <p>Study Description: 24-sessions CAT & 4 follow-up sessions over 1 year. Assessed 6 months after therapy & divided into improved & unimproved groups, followed-up 18m later</p> <p>Type of Analysis: completers</p> <p>Blindness: Open</p> <p>Duration (days): Mean 365</p> <p>Followup: 18 months</p> <p>Setting: UK; outpatients</p>	<p>n= 27</p> <p>Age: Mean 34</p> <p>Sex: 11 males 16 females</p> <p>Diagnosis: 100% BPD by Personality Assessment Schedule</p> <p>Exclusions: 2 removed from sample after therapy when retrospective diagnostic assessment failed to confirm diagnosis, 3 referred for treatment of substance abuse, 1 admitted for inpatient care, 2 moved away, & 4 dropped out before completion of therapy. 27 patients left attended 6month follow-up and 18 attended 18 month follow-up</p> <p>Baseline:</p> <table border="1"> <thead> <tr> <th></th> <th>Mean</th> <th>(SD)</th> </tr> </thead> <tbody> <tr> <td>BDI</td> <td>29.7</td> <td>(12.14)</td> </tr> <tr> <td>IIP</td> <td>2.16</td> <td>(0.56)</td> </tr> <tr> <td>SCL-90-R</td> <td>1.92</td> <td>(0.79)</td> </tr> <tr> <td>SQ</td> <td>33.22</td> <td>(18.29)</td> </tr> </tbody> </table>		Mean	(SD)	BDI	29.7	(12.14)	IIP	2.16	(0.56)	SCL-90-R	1.92	(0.79)	SQ	33.22	(18.29)	<p>Data Used</p> <p>Social Questionnaire</p> <p>SCL-90-R</p> <p>IIP</p> <p>BDI Mean</p>	<p>Group 1 N= 39</p> <p>Cognitive analytic therapy - All patients received 24 sessions of CAT plus 4 follow up sessions over approx 1 year, 6m after therapy divided into improved (14) & unimproved (13) & these sets of patients compared on no. different factors</p>	
	Mean	(SD)																	
BDI	29.7	(12.14)																	
IIP	2.16	(0.56)																	
SCL-90-R	1.92	(0.79)																	
SQ	33.22	(18.29)																	
<p>STEVENSON2005</p> <p>Study Type: non-comparative</p> <p>Study Description: Cohort study using 'control' group devised from hypothetical natural history of BPD constructed from DSM scores of 150 patients</p> <p>Blindness: Open</p> <p>Duration (days): Mean 365</p> <p>Followup: 5 years</p> <p>Setting: Outpatients; Australia</p> <p>Info on Screening Process: From consecutive referrals 48 people met entry criteria and accepted treatment; 40 completed treatment; 7 continued treatment past 1 year; 3 couldn't be contacted for 24-month follow-up</p>	<p>n= 30</p> <p>Age: Mean 30</p> <p>Sex: 11 males 19 females</p> <p>Diagnosis: 100% BPD by DSM-III</p> <p>Exclusions: Difficulty with English; uncontrollable violent behaviour; borderline intellectual retardation</p>		<p>Group 1 N= 30</p> <p>Psychotherapy - 1 year's treatment based on Conversational Model of Hobson - 1 hour, twice per week; most patients on medication at beginning of trial but most able to withdraw gradually</p>																
<p>TURNER2000</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT</p>	<p>n= 24</p> <p>Age: Mean 22 Range 18-27</p> <p>Sex: 5 males 19 females</p>	<p>Data Used</p> <p>Leaving treatment early for any reason</p> <p>In patient psychiatric hospitalisation</p>	<p>Group 1 N= 12</p> <p>DBT - Based on Linehan's 1993 treatment manual. Psychodynamic techniques incorporated to conceptualize</p>	<p>19 ppts taking psychotropic medication at the beginning of the study</p> <p>Study Quality 1+</p>															

<p>Blindness: Single blind Duration (days): Mean 365</p> <p>Setting: COUNTRY:US Outpatients</p> <p>Notes: RANDOMISATION: procedure not described. Assessments conducted by independent researcher unaware of ppts treatment condition but aware of study purpose</p> <p>Info on Screening Process: 64ppts referred & evaluated. 33 ppts met criteria for BPD. 9 ppts withdrew or had to be withdrawn during the intake process. 4 dropped out during pre-test, 3 required inpatient drug & alcohol treatment. 2 withdrew after treatment assignment.</p>	<p>Diagnosis: 100% BPD by DIB</p> <p>71% General Anxiety Disorder</p> <p>12% Major Depressive Disorder</p> <p>12% Dysthymia</p> <p>75% Alcohol abuse</p> <p>83% Substance abuse</p> <p>8% ASPD</p> <p>4% Obsessive compulsive disorder</p> <p>25% Histrionic PD</p> <p>12% SPD</p> <p>Exclusions: - Schizophrenia - schizoaffective disorder - bipolar disorder - organic mental disorders - mental retardation</p> <p>Notes: International Personality Disorders Examination also used to determine BPD diagnosis ETHNICITY: 76.2% Caucasian, 17% African American, 4% Asian American</p> <p>Baseline:</p> <table border="1"> <thead> <tr> <th></th> <th>CCT</th> <th>DBT</th> </tr> </thead> <tbody> <tr> <td>Rating of parasuicide</td> <td>7.25 (0.75)</td> <td>7.17 (0.83)</td> </tr> <tr> <td>BSIS</td> <td>23.53 (3.34)</td> <td>24.08 (3.73)</td> </tr> <tr> <td>No.of suicide attempts</td> <td>13.58 (3.34)</td> <td>14.08 (3.73)</td> </tr> <tr> <td>Rating of Impulsiveness</td> <td>7.58 (0.51)</td> <td>7.42 (0.51)</td> </tr> <tr> <td>Rating of Anger</td> <td>7.08 (0.90)</td> <td>7.33 (0.65)</td> </tr> <tr> <td>BDI</td> <td>27.75 (6.11)</td> <td>27.58 (5.30)</td> </tr> <tr> <td>HRSD</td> <td>17.42 (4.46)</td> <td>20.75 (4.33)</td> </tr> <tr> <td>BAI</td> <td>20.42 (3.45)</td> <td>19.25 (3.55)</td> </tr> <tr> <td>BPRS</td> <td>30.83 (6.00)</td> <td>30.33 (6.56)</td> </tr> <tr> <td>Hospitalization days</td> <td>10.00 (8.11)</td> <td>10.20 (3.37)</td> </tr> </tbody> </table>		CCT	DBT	Rating of parasuicide	7.25 (0.75)	7.17 (0.83)	BSIS	23.53 (3.34)	24.08 (3.73)	No.of suicide attempts	13.58 (3.34)	14.08 (3.73)	Rating of Impulsiveness	7.58 (0.51)	7.42 (0.51)	Rating of Anger	7.08 (0.90)	7.33 (0.65)	BDI	27.75 (6.11)	27.58 (5.30)	HRSD	17.42 (4.46)	20.75 (4.33)	BAI	20.42 (3.45)	19.25 (3.55)	BPRS	30.83 (6.00)	30.33 (6.56)	Hospitalization days	10.00 (8.11)	10.20 (3.37)	<p>BAI HRSD-24 (Hamilton 1960) BDI Suicide/self harm attempts Beck Scale for Suicide Ideation</p> <p>Data Not Used Hospitalisation days BPRS Rating of Anger Rating of impulsiveness Rating of parasuicide - not clearly defined</p> <p>Notes: NB: number of suicide attempts/self harm attempts are self-report and no formal definition provided. Outcomes extracted at 12 months</p>	<p>ppts behvrl, emotional, & cognitive r'ship schema. Skills training given in indivl therapy & not via separate workshop.</p> <p>Group 2 N= 12</p> <p>Client Centred therapy - 2 X wk. Emphasizes empathic understanding of ppts sense of aloneness & providing a supportive atmosphere for individuation & relapse prevention in a safe therapeutic envt. Therapist aided ppts to use self control & reflection to reduce stress.</p>	<p>Funding unclear</p>
	CCT	DBT																																			
Rating of parasuicide	7.25 (0.75)	7.17 (0.83)																																			
BSIS	23.53 (3.34)	24.08 (3.73)																																			
No.of suicide attempts	13.58 (3.34)	14.08 (3.73)																																			
Rating of Impulsiveness	7.58 (0.51)	7.42 (0.51)																																			
Rating of Anger	7.08 (0.90)	7.33 (0.65)																																			
BDI	27.75 (6.11)	27.58 (5.30)																																			
HRSD	17.42 (4.46)	20.75 (4.33)																																			
BAI	20.42 (3.45)	19.25 (3.55)																																			
BPRS	30.83 (6.00)	30.33 (6.56)																																			
Hospitalization days	10.00 (8.11)	10.20 (3.37)																																			

Results from this paper:

Internal validity:

1.1 Adequately addressed	1.6 Adequately addressed
1.2 Adequately addressed	1.7 Well covered
1.3 Not addressed	1.8 DBT= 33% CCT = 50%
1.4 Adequately addressed	1.9 Well covered
1.5 Adequately addressed	1.10 Not applicable

<p>TYRER2003</p> <p>Study Type: RCT</p> <p>Blindness:</p> <p>Duration (days):</p> <p>Setting: A&E following self-harm episode; UK</p> <p>Notes: RANDOMISATION: used independent</p>	<p>n= 70</p> <p>Age:</p> <p>Sex:</p> <p>Diagnosis: 100% BPD by Not reported</p>	<p>Data Used HADS anxiety scale GAF MADRS Parasuicidal behaviour</p> <p>Data Not Used</p>	<p>Group 1 N= 34</p> <p>MACT - Up to 5 sessions in 3 months from index self-harm episode + 2 optional booster sessions within 6 months: evaluation of self-harm attempt, crisis skills, problem solving, basic cognitive techniques to manage emotions & -ve</p>	<p>SIGN 1++</p>
--	---	---	---	-----------------

<p>telephone randomising system, stratified by hospital and parasuicide risk status</p>	<p>Exclusions: Insufficient English, temporary residence in the area concerned, ICD-10 diagnosis code organic F.0, alcohol and drug dependence F1x.2, schizophrenia F.2, bipolar F31, and psychiatric hospitalisation following index episode. Did not have >=1 previous self-harm episode</p> <p>Notes: Only data from those with BPD are used (provided on request from authors)</p>	<p>HADS depression scale - Reports other depression measure</p>	<p>thinking, relapse prevention</p> <p>Group 2 N= 36</p> <p>TAU - Initial psychiatric assessment followed by psychiatric outpatient care, occasional day-patient care or referral back to GP depending on the arrangements of the hospital; patients already in psychiatric care continued with treatment</p>																			
<p>VANDENBOSCH2002</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 365</p> <p>Setting: COUNTRY: Netherlands Outpatients</p> <p>Notes: RANDOMISATION: Minimisation randomisation used to ensure comparability of two grps by age, alcohol & social problems. No description of blinding.</p> <p>Info on Screening Process: Ppts recruited from both substance abuse treatment centers and psychiatric services. 92 ppts referred, 28 excluded, 64 eligible and randomised</p>	<p>n= 64</p> <p>Age: Mean 35 Range 18-70</p> <p>Sex: all females</p> <p>Diagnosis: 100% BPD by SCID-II</p> <p>Exclusions: - Bipolar disorder - (chronic) psychotic disorder - insufficient command of Dutch language - severe cognitive impairments - living outside of the 40km circle centred on Amsterdam</p> <p>Notes: Personality Diagnostic questionnaire also used to determine diagnosis of BPD. ETHNICITY: no data. 97% Dutch Nationality</p> <p>Baseline:</p> <table border="1"> <thead> <tr> <th></th> <th>DBT</th> <th>TAU</th> </tr> </thead> <tbody> <tr> <td>No of BPD criteria</td> <td>7.3 (1.3)</td> <td>7.3 (1.3)</td> </tr> <tr> <td>ASI suicide attempts</td> <td>19</td> <td>22</td> </tr> <tr> <td>LPC self-mutilation</td> <td>25</td> <td>29</td> </tr> <tr> <td>Lifetime self-mutilation acts, median</td> <td>13.1</td> <td>14.4</td> </tr> <tr> <td>Addictive problems</td> <td>16</td> <td>16</td> </tr> </tbody> </table>		DBT	TAU	No of BPD criteria	7.3 (1.3)	7.3 (1.3)	ASI suicide attempts	19	22	LPC self-mutilation	25	29	Lifetime self-mutilation acts, median	13.1	14.4	Addictive problems	16	16	<p>Data Used Leaving treatment early for any reason</p> <p>Data Not Used Self Harm - parasuicidal acts - data not extractable LPC - data not extractable BPD Severity Index - rating scale excluded</p> <p>Notes: NB: LPC does not provide a count of the number of episodes/acts of parasuicide or self mutilation. Outcomes extracted at 12 months</p>	<p>Group 1 N= 31</p> <p>DBT - Treatment manualised (Linehan's 1993). 1) weekly individual cognitive-behavioural psychotherapy sessions; 2) weekly skills training for 2-2.5hrs per session; 3) weekly supervision and consultation meetings for the therapist; 4) phone consultation</p> <p>Individual therapy - Focus primarily on motivational issues, including motivation to stay alive and to stay in treatment.</p> <p>Group skills training - Teaches self-regulation and change skills, and self and other acceptance skills.</p> <p>Group 2 N= 27</p> <p>TAU - Clinical management from original referral source (addiction treatment centres & psychiatric services. Ppts generally received no more than 2 sessions/month with a psychologist, a psychiatrist or a social worker.</p>	<p>Study Quality 1+ Study supported by ZAO Health Insurance Company, Amsterdam</p>
	DBT	TAU																				
No of BPD criteria	7.3 (1.3)	7.3 (1.3)																				
ASI suicide attempts	19	22																				
LPC self-mutilation	25	29																				
Lifetime self-mutilation acts, median	13.1	14.4																				
Addictive problems	16	16																				
<p>Results from this paper:</p> <p>Internal validity:</p> <table border="0"> <tr> <td>1.1 Well covered</td> <td>1.6 Adequately addressed</td> </tr> <tr> <td>1.2 Adequately addressed</td> <td>1.7 Well covered</td> </tr> <tr> <td>1.3 Not addressed</td> <td>1.8 DBT = 37% TAU = 77%</td> </tr> <tr> <td>1.4 Not addressed</td> <td>1.9 Well covered</td> </tr> <tr> <td>1.5 Adequately addressed</td> <td>1.10 Not applicable</td> </tr> </table>					1.1 Well covered	1.6 Adequately addressed	1.2 Adequately addressed	1.7 Well covered	1.3 Not addressed	1.8 DBT = 37% TAU = 77%	1.4 Not addressed	1.9 Well covered	1.5 Adequately addressed	1.10 Not applicable								
1.1 Well covered	1.6 Adequately addressed																					
1.2 Adequately addressed	1.7 Well covered																					
1.3 Not addressed	1.8 DBT = 37% TAU = 77%																					
1.4 Not addressed	1.9 Well covered																					
1.5 Adequately addressed	1.10 Not applicable																					
<p>WARREN2004</p> <p>Study Type: cohort study</p> <p>Study Description: Prospective, naturalistic study of referrals to Henderson Hospital following up those admitted and those not admitted</p> <p>Blindness:</p> <p>Duration (days):</p> <p>Followup: 1 year after discharge</p> <p>Setting: UK</p> <p>Info on Screening Process: 585 referrals were approached; 384 completed baseline assessment; 104 could not complete follow-up assessment (5 died, 87 uncontactable, 12 re-referred); 145 failed to complete f-u assessment</p>	<p>n= 135</p> <p>Age: Mean 28</p> <p>Sex: 66 males 69 females</p> <p>Diagnosis: 58% Dependent by DSM-III-R</p> <p>60% Histrionic PD by DSM-III-R</p> <p>72% Paranoid PD by DSM-III-R</p> <p>66% Avoidant PD by DSM-III-R</p> <p>46% Schizoaffective disorder by DSM-III-R</p>	<p>Data Used Multiple-Impulsivity Scale EAT-26</p>	<p>Group 1 N= 134 Therapeutic community</p> <p>Group 2 N= 74 Not admitted</p>	<p>SIGN 2+</p>																		

<p>40% Narcissistic by DSM-III-R</p> <p>43% Obsessive by DSM-III-R</p> <p>41% Passive-aggressive by DSM-III-R</p> <p>69% Schizotypal by DSM-III-R</p> <p>62% ASPD by DSM-III-R</p> <p>84% BPD by DSM-III-R</p> <p>Exclusions: None</p> <p>Notes: Of those completing f-u assessment 75 admitted, 60 not admitted; 95% > 1 PD diagnosis</p>			
---	--	--	--

<p>Results from this paper:</p> <p>Internal validity:</p> <p>1.1 Well covered 1.6 Not addressed 1.10 Well covered</p> <p>1.2 Well covered 1.7 Well covered 1.11 Not addressed</p> <p>1.3 Well covered 1.8 Not applicable 1.12 Not addressed</p> <p>1.4 Not applicable 1.9 Not applicable 1.13 Adequately addressed</p> <p>1.5 64% did not complete follow-up assessment</p>			
---	--	--	--

<p>WEINBERG2006</p> <p>Study Type: RCT</p> <p>Type of Analysis: Completer</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 56</p> <p>Followup: 6 months</p> <p>Setting: Community and outpatients; US</p> <p>Notes: RANDOMISATION: no details</p> <p>Info on Screening Process: 60 referrals from local press adverts, clinical services of local hospital and from sample used in separate study; screened by phone; 37 invited for further assessment</p>	<p>n= 30</p> <p>Age: Range 18-40</p> <p>Sex: all females</p> <p>Diagnosis:</p> <p>100% BPD by DSM-IV</p> <p>Exclusions: Comorbid psychotic disorders, bipolar I disorder, substance dependence, elevated suicide risk</p> <p>Baseline: Frequency of self-harm: MACT 9.33 (+-14.78) TAU 8.2 (+-10.46)</p>	<p>Data Used</p> <p>Suicide Ideation</p> <p>Self-harm</p> <p>Notes: Taken posttreatment & 6 mo f-u; self-harm measured with PHI, data given frequency of self-harm (measurement period unclear); self-harm severity also measured but not extracted; suicidal ideation measured on Suicidal Behavior Q'aire</p>	<p>Group 1 N= 15</p> <p>MACT - Manual-assisted cognitive treatment for self-harm; 6 sessions incorporating DBT, CBT and bibliotherapy: functional analysis of parasuicide, emotion regulation, problem-solving, management of -ve thinking & substance use, relapse prevention</p> <p>TAU - No details</p> <p>Group 2 N= 15</p> <p>TAU - No details</p>	<p>SIGN: 1+</p>
---	--	--	---	-----------------

<p>WILBERG1998</p> <p>Study Type: cohort study</p> <p>Study Description: Compared treatment at day unit followed by outpatient group psychotherapy with patients treated at day unit but without subsequent outpatient therapy</p> <p>Type of Analysis: completes</p> <p>Blindness: Open</p> <p>Duration (days): Mean 365</p> <p>Setting: NORWAY; inpatient followed by outpatient</p> <p>Info on Screening Process: 179, 62 patients had BPD, exclusion criteria: comorb schizotypal PD, day unit stay <3wks</p>	<p>n= 43</p> <p>Age: Mean 31</p> <p>Sex: 10 males 33 females</p> <p>Diagnosis:</p> <p>100% BPD by DSM-III</p> <p>Exclusions: 6 patients lost at follow up, 2 were dead, 4 refused to participate.</p> <p>Baseline:</p> <table border="0"> <tr> <td></td> <td>HSRS</td> <td>GSI</td> </tr> <tr> <td>Outpatient treatment group</td> <td>36.9 (5.1)</td> <td>1.67 (0.48)</td> </tr> <tr> <td>no outpatient treatment group</td> <td>39.2 (5.1)</td> <td>1.92 (0.56)</td> </tr> </table>		HSRS	GSI	Outpatient treatment group	36.9 (5.1)	1.67 (0.48)	no outpatient treatment group	39.2 (5.1)	1.92 (0.56)	<p>Data Used</p> <p>Remission from substance use disorder</p> <p>Suicide attempts</p> <p>Hospital admissions</p> <p>GSI</p> <p>HSRS</p>	<p>Group 1 N= 12</p> <p>Group Psychotherapy - Group therapy conducted in accordance with group analytic principles, run on co-therapy basis, 1.5hr once a week, received outpatient therapy for average 12 months (range 1-33)</p> <p>Group 2 N= 31</p> <p>TAU - did not have any outpatient therapy following treatment at day unit</p>	
	HSRS	GSI											
Outpatient treatment group	36.9 (5.1)	1.67 (0.48)											
no outpatient treatment group	39.2 (5.1)	1.92 (0.56)											

Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
ABBASS2008	Only 44% BPD diagnosis (total N = 27) data for BPD group supplied by authors, but too few to include (6 in each arm), study described narratively (intensive short-term dynamic psychotherapy vs control)
BALL2007	57% BPD, no data reported for BPD subgroup.
BUDMAN1996	uncontrolled pre-post study with a mixed PD group, high drop out and BPD is not reported separately
CHIESA2004A	Does not focus on efficacy outcomes (therapeutic communities)
COPAS1984	Diagnosis unclear and seems likely not to be borderline personality disorder (therapeutic community: Henderson)
GARA1989	Retrospective data collection (therapeutic communities)
GERAGHTY2003	Retrospective analysis of ethnicity data, no efficacy outcomes (therapeutic communities)
GREGORY2008	Participants were alcohol dependent which is outside the guideline scope (psychodynamic psychotherapy vs TAU)
HUBAND2007	Not 100% BPD (mixed PD population) (problem-solving vs waitlist)
ISOHANNI1990	Not relevant (therapeutic communities)
ISOHANNI1990A	focus is not on post-discharge outcomes (therapeutic communities)
ISOHANNI1992	focus is not on post-discharge outcomes (therapeutic communities)
JEFFREY1985	not a primary research study (therapeutic communities)
JOYCE2007	Not 100% BPD population; data for BPD subgroup requested from authors but not obtained (CBT vs IPT)
KOSTER1988	Dutch study (therapeutic communities)
LYNCH2007	Not 100% BPD
MIZEN1984	description only (therapeutic communities)
RATHUS2002	(DBT vs TAU) Non RCT
SPRINGER1996	29.5% BPD (total N = 44) (short-term cognitive-behavioural group therapy vs control discussion group)
WEERTMAN2007	Not BPD

References of Included Studies

ALPER2001 (Published Data Only)

Alper, G. & Peterson, S.J. (2001) Dialectical behavior therapy for patients with borderline personality disorder. *Journal of Psychosocial Nursing*, 39, 38-45.

ANDREAunpub (Unpublished Data Only)

Andrea, H., Bales, D., Smits, M. (unpublished) Mentalization based treatment in the Netherlands: Preliminary results.

BARLEY1993 (Published Data Only)

Barley, W. D., Buie, S. E., Peterson, E. W., et al. (1993) Development of an inpatient cognitive-behavioral treatment program for borderline personality disorder. *Journal of Personality Disorders*, 7, 232-240.

BATEMAN1999 (Published Data Only)

Bateman, A. & Fonagy, P. 8-year follow-up of patients treated for borderline personality disorder - mentalization based treatment versus treatment as usual. Submitted.

*Bateman, A. & Fonagy, P. (1999) Effectiveness of partial hospitalization in the treatment of borderline personality disorder: a randomized controlled trial. [see comment]. *American Journal of Psychiatry*, 156, 1563-1569.

BELLINO2005 (Published Data Only)

Bellino, S., Zizza, M., Di Lorenzo, R., et al. (2005) Combined therapy with interpersonal psychotherapy of major depressed patients: comparison between patients with borderline personality disorder and patients with other personality disorders. *Italian Journal of Psychopathology*, 11, 157-164.

- BLUM2002** (Published Data Only)
Blum,N., Pfohl,B., St. John, D., et al. (2002) STEPPS: aa cognitive-behavioral systems-based group treatment for outpatients with borderline personality disorder: a preliminary report. *Comprehensive Psychiatry*, 43, 301-310.
- BLUM2008** (Unpublished and Published Data)
Blum, N., St John, D., Pfohl, B., et al. (2008) Systems Training for Emotional Predictability and Problem Solving (STEPPS) for outpatients with borderline personality disorder: a randomized controlled trial and 1-year follow-up. *American Journal of Psychiatry*, 165, 468-478.
- BOHUS2004** (Published Data Only)
Bohus, M., Haaf, B., Simms, T., (2004) Effectiveness of inpatient dialectical behavioral therapy for borderline personality disorder: a controlled trial. *Behaviour Research and Therapy*, 42, 487-499.
- BROWN2004** (Published Data Only)
Brown,G.K., Newman,C.F., Charlesworth,S.E., et al. (2004) An open clinical trial of cognitive therapy for borderline personality disorder. *Journal of Personality Disorders*, 18, 257-271.
- CARTER unpub** (Unpublished Data Only)
Carter, G. Hunter Dialectical Behaviour Therapy Project. Unpublished report.
- CHANEN2008** (Unpublished Data Only)
Chanen,A.M., Jackson,H.J., McCutcheon,L.K., et al. (2008) Early intervention for adolescents with borderline personality disorder using cognitive analytic therapy. *British Journal of Psychiatry*, 193, 477-484.
- CHIESA2000** (Published Data Only)
Chiesa,M., Fonagy,P., Holmes,J. (2003) When less is more: an exploration of psychoanalytically oriented hospital-based treatment for severe personality disorder. *International Journal of Psycho-Analysis*, 84, 637-650.
*Chiesa,M. & Fonagy,P. (2000) Cassel Personality Disorder Study: methodology and treatment effects. *British Journal of Psychiatry*, 176, 485-491.
- CHIESA2004** (Published Data Only)
Chiesa,M., Fonagy,P., Holmes,J. (2006) Six-year follow-up of three treatment programs to personality disorder. *Journal of Personality Disorders*, 20, 493-509.
*Chiesa,M., Fonagy,P., Holmes,J., et al. (2004) Residential versus community treatment of personality disorders: a comparative study of three treatment programs. *American Journal of Psychiatry*, 161, 1463-1470.
- CHIESA2007** (Published Data Only)
Chiesa,M. & Fonagy,P. (2007) Prediction of medium-term outcome in cluster B personality disorder following residential and outpatient psychosocial treatment. *Psychotherapy & Psychosomatics*, 76, 347-353.
- CLARKIN2001** (Published Data Only)
Clarkin,J.F., Foelsch,P.A., Levy,K.N., et al. (2001) The development of a psychodynamic treatment for patients with borderline personality disorder: a preliminary study of behavioral change. *Journal of Personality Disorders*, 15, 487-495.
- CLARKIN2004** (Published Data Only)
Levy, K. N., Meehan, K. B., Kelly, K. M., et al. (2006) Change in attachment patterns and reflective function in a randomized control trial of transference-focused psychotherapy for borderline personality disorder. *Journal of Consulting and Clinical Psychology*, 74, 1086-1097.
Clarkin, J. F., Levy, K. N., Lenzenweger, M. F., et al. (2007) Evaluating three treatments for borderline personality disorder: a multiwave study. *American Journal of Psychiatry*, 164, 922-928.
*Clarkin, J. F., Levy, K. N., Lenzenweger, M. F., et al. (2004) The Personality Disorders Institute/Borderline Personality Disorder Research Foundation randomized control trial for borderline personality disorder: rationale, methods, and patient characteristics. *Journal of Personality Disorders*, 18, 52-72.
- CUNNINGHAM2004** (Published Data Only)
Cunningham,K.; Wolbert,R. & Lillie,B. (2004) It's about me solving my problems: clients' assessments of dialectical behavior therapy. *Cognitive and Behavioral Practice*, 11, 248-256.
- DAVIDSON2006** (Published Data Only)
Davidson, K., Norrie, J., Tyrer, P., et al. (2006) The effectiveness of cognitive behavior therapy for borderline personality disorder: results from the borderline personality disorder study of cognitive therapy (BOSCOT) trial. *Journal of Personality Disorders*, 20, 450-465.
- DAVIES1999** (Published Data Only)
Davies,S. & Campling,P. (2003) Therapeutic community treatment of personality disorder: service use and mortality over 3 years' follow-up. *British Journal of Psychiatry - Supplementum*, 44, S24-S27.
*Davies,S., Campling,P. & Ryan, K. (1999) Therapeutic community provision at regional and district levels. *Psychiatric Bulletin*, 23, 79-83.

DOLAN1992 (Published Data Only)

Dolan,B.M.; Evans,C. & Wilson,J. (1992) Therapeutic community treatment for personality disordered adults: changes in neurotic symptomatology on follow-up. *International Journal of Social Psychiatry*, 38, 243-250.

DOLAN1997 (Published Data Only)

Dolan,B., Warren,F. & Norton,K. (1997) Change in borderline symptoms one year after therapeutic community treatment for severe personality disorder. *British Journal of Psychiatry*, 171, 274-279.

GABBARD2000 (Published Data Only)

Gabbard,G.O., Coyne,L.; Allen,J.G., et al. (2000) Evaluation of intensive inpatient treatment of patients with severe personality disorders. *Psychiatric Services*, 51, 893-898.

GIESENBLOO2006 (Published Data Only)

Spinhoven, P., Giesen-Bloo, J., van Dyck, R., et al. (2007) The therapeutic alliance in schema-focused therapy and transference-focused psychotherapy for borderline personality disorder. *Journal of Consulting and Clinical Psychology*, 75, 104-115.

Giesen-Bloo, J., Van Dyck, R., Spinhoven, P., et al. (2006) Outpatient psychotherapy for borderline personality disorder: randomized trial of schema-focused therapy vs transference-focused psychotherapy.[erratum appears in *Archives of General Psychiatry*, 63, 1008] *Archives of General Psychiatry*, 63, 649-658.

HARLEY2007 (Published Data Only)

Harley,R.M., Baity,M.R., Blais,M.A., et al. (2007) Use of dialectical behavior therapy skills training for borderline personality disorder in a naturalistic setting. *Psychotherapy Research*, 17, 351-358.

HENGEVELD1996 (Published Data Only)

Hengeveld,M.W., Jonker,D.J.L. & Rooijmans,H.G.M. (1996) A pilot study of a short cognitive-behavioral group treatment for female recurrent suicide attempters. *International Journal of Psychiatry in Medicine*, 26, 83-91.

KOONS2001 (Published Data Only)

Koons, C. R., Robins, C. J., Tweed, J. L., et al. (2001) Efficacy of dialectical behavior therapy in women veterans with borderline personality disorder. *Behavior Therapy*, 32, 371-390.

LANIUS2003 (Published Data Only)

Lanius,R.A. & Tuhan,I. (2003) Stage-Oriented trauma treatment using dialectical behaviour therapy. *The Canadian Journal of Psychiatry*, 48, 126-127.

LEICHSENRING2007 (Published Data Only)

Leichsenring,F., Masuhr,O., Jaeger,U., et al. (2007) The effectiveness of psychoanalytic-interactional therapy in borderline personality disorder: a study of clinical data. *Zeitschrift fur Psychosomatische Medizin und Psychotherapie*, 53, 129-143.

LINEHAN1991 (Published Data Only)

Linehan, M.M., Tutek, D.A., Heard, H.L., et al. (1994) Interpersonal outcome of cognitive behavioural treatment for chronically suicidal borderline patients. *American Journal of Psychiatry*, 151, 1771-1776

Linehan, M.M., Heard, H.L. & Armstrong, H.E. (1993) Naturalistic follow-up of a behavioral treatment for chronically parasuicidal borderline patients. *Archives of General Psychiatry*, 50, 971-974.

Linehan, M. M., Armstrong, H. E., Suarez, A., et al. (1991) Cognitive-behavioral treatment of chronically parasuicidal borderline patients. [see comment]. *Archives of General Psychiatry*, 48, 1060-1064.

LINEHAN1999 (Published Data Only)

Linehan, M. M., Schmidt, H., Dimeff, L. A., et al. (1999) Dialectical behavior therapy for patients with borderline personality disorder and drug-dependence. *American Journal on Addictions*, 8, 279-292.

LINEHAN2002 (Published Data Only)

Linehan, M. M., Dimeff, L. A., Reynolds, S. K., et al. (2002). Dialectical behavior therapy versus comprehensive validation therapy plus 12-step for the treatment of opioid dependent women meeting criteria for borderline personality disorder. *Drug and Alcohol Dependence*, 67, 13-26.

LINEHAN2006 (Published Data Only)

Linehan, M. M., Comtois, K. A., Murray, A. M., et al. (2006) Two-year randomized controlled trial and follow-up of dialectical behavior therapy vs therapy by experts for suicidal behaviors and borderline personality disorder. *Archives of General Psychiatry*, 63, 757-766.

LOFFLERSTASTKA2003 (Published Data Only)

Loffler-Stastka,H., Voracek, M., Leithner,K., et al. (2003) Predicting psychotherapy utilization for patients with borderline personality disorder. *Psychotherapy Research*, 13, 255-264

- LOPEZ2004** (Published Data Only)
Lopez,D., Cuevas,P., Gomez,A., et al. (2004) Transference-focused psychotherapy for borderline personality disorder. A study with female patients. *Salud Mental*, 27, 44-54.
- MARKOWITZ2006** (Published Data Only)
Markowitz,J.C., Skodol,A.E. & Bleiberg,K. (2006) Interpersonal psychotherapy for borderline personality disorder: possible mechanisms of change. *Journal of Clinical Psychology*, 62, 431-444.
- MCQUILLAN2005** (Published Data Only)
McQuillan,A., Nicastro,R., Guenot,F., et al. (2005) Intensive dialectical behavior therapy for outpatients with borderline personality disorder who are in crisis. *Psychiatric Services*, 56, 193-197.
- MUNROBLUM1995** (Published Data Only)
Munroe-Blum, H. & Marziali, E. (1995) A controlled trial of short-term group treatment for borderline personality disorder. *Journal of Personality Disorders*, 9, 190.
- NORDAHL2005** (Published Data Only)
Nordahl,H.M. & Nysaeter,T.E. (2005) Schema therapy for patients with borderline personality disorder: a single case series. *Journal of Behavior Therapy and Experimental Psychiatry*, 36, 254-264.
- PRENDERGAST2007** (Published Data Only)
Prendergast,N. & McCausland,J.(2007) Dialectic behaviour therapy: a 12-month collaborative program in a local community setting. *Behaviour Change*, 24, 25-35.
- RYLE2000** (Published Data Only)
Ryle,A. & Golyunkina,K. (2000) Effectiveness of time-limited cognitive analytic therapy of borderline personality disorder: factors associated with outcome. *British Journal of Medical Psychology*, 73, 197-210
- STEVENSON2005** (Published Data Only)
Stevenson,J. & Meares,R. (1992) An outcome study of psychotherapy for patients with borderline personality disorder. *American Journal of Psychiatry*, 149, 358-362.
Stevenson,J., Meares,R. & D'Angelo,R. (2005) Five-year outcome of outpatient psychotherapy with borderline patients. *Psychological Medicine*, 35, 79-87.
- TURNER2000** (Published Data Only)
Turner, R. M. (2000) Naturalistic evaluation of dialectical behavior therapy-oriented treatment for borderline personality disorder. *Cognitive and Behavioral Practice*, 7, 413-419.
- TYRER2003** (Unpublished and Published Data)
Tyrer,P., Jones,V., Thompson,S., et al. (2003) Service variation in baseline variables and prediction of risk in a randomised controlled trial of psychological treatment in repeated parasuicide: the POPMACT Study. *International Journal of Social Psychiatry*, 49, 58-69.
- VANDENBOSCH2002** (Published Data Only)
Verheul, R., van den Bosch,L.M., Koeter, M. W., et al. (2003) Dialectical behaviour therapy for women with borderline personality disorder: 12-month, randomised clinical trial in the Netherlands.[see comment]. *British Journal of Psychiatry*, 182, 135-140.
Van den Bosch., Verheul, R., Schippers, G. M., & Brink, W.V.D. (2002) Dialectical behavior therapy of borderline patients with and without substance use problems. Implementation and long-term effects. *Addictive Behaviors*, 27, 911-923.
- WARREN2004** (Published Data Only)
Warren,F., Zaman,S., Dolan,B., et al. (2006) Eating disturbance and severe personality disorder: outcome of specialist treatment for severe personality disorder. *European Eating Disorders Review*, 14, 69-78.
*Warren,F., Evans,C., Dolan,B., et al. (2004) Impulsivity and self-damaging behaviour in severe personality disorder: the impact of democratic therapeutic community treatment. *Therapeutic Communities: the International Journal for Therapeutic and Supportive Organizations*, 25, 55-72.
- WEINBERG2006** (Published Data Only)
Weinberg,I., Gunderson,J.G., Hennen,J., et al. (2006) Manual assisted cognitive treatment for deliberate self-harm in borderline personality disorder patients. *Journal of Personality Disorders*, 20, 482-492
- WILBERG1998** (Published Data Only)
Wilberg,T., Friis,S., Karterud,S., et al. (1998) Outpatient group psychotherapy: a valuable continuation treatment for patients with borderline personality disorder treated in a day hospital? A 3-year follow-up study. *Nordic Journal of Psychiatry*, 52, 213-222.

References of Excluded Studies

- ABBASS2008 (published data only)
Abbass,A., Sheldon,A., Gyra,J., et al. (2008) Intensive short-term dynamic psychotherapy for DSM-IV personality disorders: a randomized controlled trial. *Journal of Nervous and Mental*

Diseases, 196, 211-216.

BALL2007

Ball, S.A (2007) Comparing individual therapies for personality disordered opioid dependent patients. *Journal of Personality Disorders*, 21, 305-321.

BUDMAN1996 (Published Data Only)

Budman,S.H., Demby,A., Soldz,S., et al. (1996) Time-limited group psychotherapy for patients with personality disorders: outcomes and dropouts. *International Journal of Group Psychotherapy*, 46, 357-377.

CHIESA2004A (Published Data Only)

Chiesa,M., Wright, M., Leger, D. (2004) Psychotropic medication and the therapeutic community: a survey of prescribing practices for severe personality disorder. *Therapeutic Communities: International Journal for Therapeutic and Supportive Organizations*, 25, 131-144.

COPAS1984 (Published Data Only)

Copas, J.B., O'Brien, M., Roberts, J., et al. (1984) Treatment outcome in personality disorder: the effect of social, psychological and behavioural variables. *Personality and Individual Differences*, 5, 565-573.

GARA1989 (Published Data Only)

Gara,A., Hutchinson,V. & Hafner,R.J. (1989) Residents' evaluation of a therapeutic community. *Australian Clinical Review*, 8, 211-216.

GERAGHTY2003 (Published Data Only)

Geraghty,R. & Warren, F. (2003) Ethnic diversity and equality of access to specialist therapeutic community treatment for severe personality disorder. *Psychiatric Bulletin*, 27, 453-456.

GREGORY2008 (Published Data Only)

Gregory,R.J., Chlebowski,S., Kang,D., et al. (2008) A controlled trial of psychodynamic psychotherapy for co-occurring borderline personality disorder and alcohol use disorders. *Psychotherapy: Theory, Research, Practice, Training*, 45, 28-41.

HUBAND2007 (Published Data Only)

Huband, N., McMurrin, M., Evans, C., et al. (2007) Social problem-solving plus psychoeducation for adults with personality disorder: pragmatic randomised controlled trial. *British Journal of Psychiatry*, 190, 307-313.

ISOHANNI1990 (Published Data Only)

Isohanni,M. & Nieminen,P. (1990) Relationship between involuntary admission and the therapeutic process in a closed ward functioning as a therapeutic community. *Acta Psychiatrica Scandinavica*, 81, 240-244.

ISOHANNI1990A (Published Data Only)

Isohanni,M. & Nieminen,P. (1990) The determinants of therapeutic community activity at an acute patients' psychiatric ward. *International Journal of Therapeutic Communities*, 11, 140-148.

ISOHANNI1992 (Published Data Only)

Isohanni,M. & Nieminen,P. (1992) The determinants of participation in individual psychotherapy in an acute patients' therapeutic community. *Nordic Journal of Psychiatry*, 46, 295-301.

JEFFREY1985 (Published Data Only)

Jeffrey,W.D. (1985) Pathology enhancement in the therapeutic community. *International Journal of Social Psychiatry*, 31, 110-118.

JOYCE2007 (Published Data Only)

Luty, S.E., Carter, J.D., McKenzie, J.M., et al. (2007) Randomised controlled trial of interpersonal psychotherapy and cognitive-behavioural therapy for depression. *British Journal of Psychiatry*, 190, 496-502.

*Joyce, P.R., McKenzie, J.M., Carter, J.D., et al. (2007) Temperament, character and personality disorders as predictors of response to interpersonal psychotherapy and cognitive-behavioural therapy for depression. *British Journal of Psychiatry*, 190, 503-508

KOSTER1988 (Published Data Only)

Koster,A.M. & Wagenborg,J.E. (1998) The follow-up project on psychotherapeutic communities: a collection of measures of change. *International Journal of Therapeutic Communities*, 9, 163-176.

LYNCH2007 (Published Data Only)

Lynch,T.R., Cheavens,J.S., Cukrowicz,K.C., et al. (2007) Treatment of older adults with co-morbid personality disorder and depression: a dialectical behavior therapy approach. *International Journal of Geriatric Psychiatry*, 22, 131-143.

MIZEN1984 (Published Data Only)

Mizen,C.S. (1984) Combined therapy with borderline and narcissistic inpatients at the Cassel Hospital. *Psychoanalytic Psychotherapy*, 8, 17-35.

RATHUS2002

Rathus, J. H. & Miller, A. L. (2002) Dialectical behavior therapy adapted for suicidal adolescents. *Suicide & Life-Threatening Behavior*, 32, 146-157.

SPRINGER1996 (Published Data Only)

Springer, T., Lohr, N.A., Buchtel, H.A., et al. (1996) A preliminary report of short-term cognitive-behavioural group therapy for inpatients with personality disorders. *Journal of Psychotherapy Practice and Research*, 5, 57-71.

WEERTMAN2007 (Published Data Only)

Weertman, A. & Arntz, A. (2007) Effectiveness of treatment of childhood memories in cognitive therapy for personality disorders: a controlled study contrasting methods focusing on the present and methods focusing on childhood memories. *Behaviour Research and Therapy*, 45, 2133-2143.

© NCCMH. All rights reserved.

Comparisons Included in this Clinical Question

Amitriptyline vs Haloperidol vs Placebo SOLOFF1989	Aripiprazole vs Placebo NICKEL2006	Carbamazepine vs Placebo DE LA FUENTE1994	Divalproex vs Placebo FRANKENBURG2002 HOLLANDER2001 HOLLANDER2003
E-EPA (Omega 3) vs Placebo HALLAHAN2007 ZANARINI2003	Fluoxetine plus DBT vs Placebo plus DBT SIMPSON2004	Fluoxetine plus IPT vs Fluoxetine plus CT BELLINO2007	Fluoxetine vs Fluoxetine plus IPT BELLINO2006B
Fluoxetine vs Olanzapine vs Combined Fluoxetine plus Olanzapine ZANARINI2004	Fluvoxamine vs Placebo RINNE2002	Haloperidol vs Phenelzine vs Placebo SOLOFF1993	Lamotrigine vs Placebo TRITT2003
Loxapine vs Chlorpromazine LEONE1982	Olanzapine + DBT vs Placebo + DBT SOLER2005	Olanzapine vs Placebo BOGENSCHUTZ2004 ELILILLY#6253 SCHULTZ2008 ZANARINI2001	Topiramate vs Placebo LOEW2006 NICKEL2004 NICKEL2005
Ziprasidone vs Placebo PASCUAL2008			

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
<p>BELLINO2006B</p> <p>Study Type: RCT</p> <p>Type of Analysis: Completers</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 168</p> <p>Setting: COUNTRY: Italy Outpatients</p> <p>Notes: RANDOMISATION: procedure not described. Investigator blinded to treatment allocation.</p> <p>Info on Screening Process: Ppts selected from those attending an outpatient service at University of Turin for personality disorder. No info given on numbers screened. 39 ppts enrolled none excluded</p>	<p>n= 39</p> <p>Age: Mean 26</p> <p>Sex: 12 males 20 females</p> <p>Diagnosis: 100% BPD by DSM-IV-TR</p> <p>100% Major depressive episode by DSM-IV</p> <p>Exclusions: - life time diagnosis of delirium, dementia, amnesic or other cognitive disorder - schizophrenia or other psychotic disorder - those whose major depressive episode was an expression of bipolar disorder - current substance abuse disorder - those treated with psychotropic drugs or psychotherapy during 2 months prior to study - inadequate use of birth control by women of child bearing age</p> <p>Notes: Number of males and females reflects those who completed the study (N = 32, 12 Male, 20 female). ETHNICITY: no data</p> <p>Baseline:</p>	<p>Data Used</p> <p>SAT-P Mean IIP-64 HARS HRSD-24 (Hamilton 1959)</p> <p>Data Not Used</p> <p>CGI - Not extracting this</p> <p>Notes: OUTCOMES: Taken at baseline, week 12 & week 24</p> <p>Remission defined by decreased HRSD score (more than or equal to 40%), with final score of less than or equal to 8, and a score of 1 or 2 on the improvement item of the CGI</p>	<p>Group 1 N= 19</p> <p>Fluoxetine. Mean dose 20mg - DOSE: Initial dose 20mg daily, at beginning wk 2 opportunity to increase dose to 40mg daily if needed. Ppts each had 4 appointments, first 2 fortnightly & last 4 mnthly Psychiatrist provided pharmacotherapy & clinical management (not described)</p> <p>Group 2 N= 20</p> <p>Fluoxetine. Mean dose 20mg - DOSE: Initial dose 20mg daily. Max dose 40mg. IPT. Mean dose 1hr/weekly - IPT consisted weekly sessions lasting 1 hour and followed Klerman et al (1989) manual. Psychotherapist with min 5yrs experience delivered sessions of IPT.</p>	<p>Study Quality 1+ Article reports that this study received no funding and no support</p>

	Fluoxetine	Fluoxetine + IPT
CGI Severity	4.1 (0.8)	4.6 (0.5)
HRSD	19.6 (4.6)	18.6 (1.8)
HARS	17.7 (4.1)	16.0 (3.1)

Results from this paper:
 Leaving study early for any reason: N = 7

Internal validity:

1.1 Well covered	1.6 Well covered
1.2 Not addressed	1.7 Adequately addressed
1.3 Not reported	1.8 Fluoxetine 10%; Combined treatment 8%
1.4 Poorly addressed	1.9 Not reported
1.5 Well covered	1.10 Not applicable

Unpublished data: Correction - The number of drop-outs in the two treatment groups was exchanged, due to a printing mistake. We had 3 drop-outs in the group that received fluoxetine and 4 drop-outs in the group that received combined therapy.

BELLINO2007

Study Type: RCT

Study Description: Participants were treated with fluoxetine for 24wks and were also given 1hr/wk of either IPT or CT.

Type of Analysis: completers

Blindness: Single blind

Duration (days): Mean 168

Setting: COUNTRY: Italy; Outpatients

Notes: RANDOMISATION: used Research Randomizer v3.0 program

Info on Screening Process: No people screened not reported, exclusions inc cognitive disorders, psychotic disorders, substance abuse, treatment with psychotropic drugs or psychotherapy during 2 months prior to study. Females not using contraceptive.

n= 32

Age: Mean 31

Sex: 7 males 19 females

Diagnosis:
100% BPD by DSM-IV-TR

100% Major depressive episode by DSM-IV-TR

Exclusions: 6 participants discontinued during 1st 3 wks due to noncompliance.

Notes: ETHNICITY: Not reported. Age and Sex data is only reported for completers.

Baseline:

	Fluox & IPT	Fluox & CT
GSI	3.5 (0.5)	3.3 (0.5)
HDRS	19.7 (3.4)	19.7 (3.4)
HARS	18.1 (0.8)	18.0 (1.1)
BDI-II	22.0 (2.6)	21.0 (0.9)
SOFTAS	51.7 (5.9)	54.0 (7.1)

SAT-P & IIP-64 subscales also reported

Data Used

IIP-64

SAT-P Mean

Social & Occupational Functioning Assessment Scale

BDI

HARS

HADS depression scale

CGI

Group 1 N= 14

Fluoxetine. Mean dose 32.86mg/day - 20mg/day for 1st 2 wks, then dose could be increased to up to 40mg/day.

IPT - 1hr/week conducted referring to IPT of depression manual by psychotherapist with at least 5 years experience of IPT.

Group 2 N= 12

Cognitive therapy - 1hr/week conducted referring to CT of depression manual by psychotherapist with at least 5 years experience of CT.

Fluoxetine. Mean dose 30.00mg/day - 20mg/day for 1st 2 wks, then dose could be increased to up to 40mg/day.

BOGENSCHUTZ2004

Study Type: RCT

Study Description: Type of analysis: last observation carried forward but only for those with 2 post-baseline assessments with 2 weeks of treatment

Type of Analysis: Last observation carried forward

Blindness: Double blind

Duration (days): Mean 84

Setting: COUNTRY: New Mexico Outpatients (community and outpatient clinics)

Notes: RANDOMISATION: assignment in equal numbers. No description of blinding and no other info given.

n= 40

Age: Mean 33 Range 18-54

Sex: 15 males 25 females

Diagnosis:
100% BPD by SCID-II

Exclusions: - Schizophrenia
- schizoaffective disorder
- bipolar affective disorder
- current major depressive disorder
- psychotic disorder due to substance or a general medical condition
- substance dependence that's not in full or partial remission
- active suicidal thoughts
- current suicidal intent or definite plans
- pregnancy

Data Used

Weight Change - data not extracted yet

Data Not Used

ASI - data not extractable

SCL-90 - data not extractable

AIA-Q - data not extractable

HARS - data not extractable

HRSD-24 (Hamilton 1960) - data not extractable

OAS-M - data not extractable

CGI-BPD - Scale not validated

Group 1 N= 16

Olanzapine. Mean dose 6.9mg - DOSE: Initial dose 2.5mg/day, increased by 2.5 to 5mg increments/week upto 10mg/day. After 8 wk therapy additional dose increase if necessary by 2.5-5mg increments/wk to max dose of 20mg/day. If side effects present reduce dose by 2.5-5mg/week.

Group 2 N= 19

Placebo. Mean dose 10.2mg - DOSE: Ppts receive pseudo dose of 10.2mg

Study Quality 1+
Study supported by grant from Eli Lilly & Co, Indianapolis

<p>community and outpatient clinics at a university psychiatric hospital No info on numbers screened 40 ppts with BPD enrolled and randomised to either treatment group.</p>	<p>- neurological impairment</p> <p>Notes: Informed consent obtained. Patients had to be free of mood stabilisers, antipsychotics, benzos, & antidepressants for 2 wks prior to treatment. ETHNICITY: 57.5% White, 25% Hispanic, 7.5% Asian/Pacific Islander, 4% unknown Baseline: None reported</p>	<p>Notes: OUTCOMES TAKEN: Prior to initiation of treatment with Olanzapine (0 weeks) and after 2,4,8 and 12 weeks of treatment with study medication</p>		
--	--	--	--	--

Results from this paper:
Leaving treatment early due to adverse events: Olanzapine N = 2, Placebo N= 0
Leaving treatment early due to any other reason: Olanzapine N = 8, Placebo N = 7

Olanzapine (patients left study early due to these side effects) None left placebo group due to side effects

Side effects: Weight gain N = 2 (10%)
Sedation N = 2 (10%)

Internal validity:

1.1 Well covered	1.6 Well covered
1.2 Not reported	1.7 Adequately addressed
1.3 Not addressed	1.8 Olanzapine = 50% Placebo = 35%
1.4 Not reported	1.9 Not addressed
1.5 Well covered	1.10 Not applicable

Unpublished data: endpoint means and SD for global CGI, AIAQ, SCL-90 scores, plus a copy of the CGI-BPD scale.

<p>DE LA FUENTE1994</p> <p>Study Type: RCT</p> <p>Type of Analysis: Not reported</p> <p>Blindness: Double blind</p> <p>Duration (days): Mean 31</p> <p>Setting: COUNTRY: Belgium Inpatient</p> <p>Notes: RANDOMISATION: Ppts randomised to either group. No other info given. Both ppts and investigator kept blind to treatment allocation</p> <p>Info on Screening Process: No info on numbers screened. Ppts recruited from inpatient setting. 20 inpatients fulfilling DSM-III-R criteria for BPD and with score of at least 7 on DIB included in study. No patients excluded.</p>	<p>n= 20</p> <p>Age: Mean 32 Range 22-45</p> <p>Sex: 6 males 14 females</p> <p>Diagnosis: 100% BPD by DSM-III-R</p> <p>Exclusions: - Abnormal standard physical or neurological examinations - Irregular biological blood tests - Positive history of epilepsy - inability to stop alcohol or psychoactive drugs - Suspected poor treatment compliance - DSM-III-R Major depression - DSM-III-R Axis I disturbances - Antecedents of encephalitis or cranial trauma</p> <p>Notes: DESCRIPTION:Psychotropic drug washout period 10 days prior treatment for all ppts. 32 days of active CBZ treatment. ETHNICITY: no data</p> <p>Baseline:</p> <table border="0"> <tr> <td></td> <td>CBZ</td> <td>PLACEBO</td> </tr> <tr> <td>HRSD</td> <td>28.00 (10.92)</td> <td>30.70 (4.11)</td> </tr> <tr> <td>GAS</td> <td>57.50 (13.52)</td> <td>49.90 (12.24)</td> </tr> <tr> <td>BPRS</td> <td>47.87 (11.18)</td> <td>53.90 (8.22)</td> </tr> <tr> <td>SCL-90</td> <td>117.42 (101.64)</td> <td>141.66 (44.70)</td> </tr> </table>		CBZ	PLACEBO	HRSD	28.00 (10.92)	30.70 (4.11)	GAS	57.50 (13.52)	49.90 (12.24)	BPRS	47.87 (11.18)	53.90 (8.22)	SCL-90	117.42 (101.64)	141.66 (44.70)	<p>Data Used</p> <p>BPRS GAS SCL-90 Depression SCL-90 Hostility HRSD-24 (no reference)</p> <p>Data Not Used</p> <p>Acting Out scale - Made up scale for study SCL-90 Other scales</p> <p>Notes: OUTCOMES TAKEN AT: Baseline, day 8 day 32</p>	<p>Group 1 N= 10</p> <p>Carbamazepine (CBZ). Mean dose 6.44ug-7.07ug - DOSE:single dose at 10pm each day. Plasma levels of CBZ and 10,11 epoxy carbamazepine determined on days 8,16, and 32</p> <p>Atheoretical psychotherapy - Atheoretical psychotherapy provided by same clinician on all occasions (not described in further detail).</p> <p>Group 2 N= 10</p> <p>Placebo - DOSE: Placebo administered in single dose at 10pm each day.</p> <p>Atheoretical psychotherapy - Atheoretical psychotherapy provided by same clinician on all occasions (not described in further detail).</p>	<p>Study Quality 1+ Funding unclear</p>
	CBZ	PLACEBO																	
HRSD	28.00 (10.92)	30.70 (4.11)																	
GAS	57.50 (13.52)	49.90 (12.24)																	
BPRS	47.87 (11.18)	53.90 (8.22)																	
SCL-90	117.42 (101.64)	141.66 (44.70)																	

Results from this paper:
Leaving treatment early due to adverse events: two patients receiving CBZ due to increasing intensity of acting out e.g. wrist cutting and razor blade swallowing.
No placebo patients dropped out.

Internal validity:

1.1 Well covered	1.6 Well covered
------------------	------------------

1.2 Not reported 1.7 Adequately reported
 1.3 Not addressed 1.8 CBZ = 20% Placebo = 0%
 1.4 Well covered 1.9 Not addressed
 1.5 Well covered 1.10 Not applicable

ELILILLY#6253

Study Type: RCT
 Study Description: Study has both 12 week double blind period followed by 12 week open label phase. Only double blind phase reported here.
 Type of Analysis: LOCF
 Blindness: Double blind
 Duration (days): Mean 84
 Setting: Multicenter trial conducted in 9 countries
 Info on Screening Process: 635 pts screened, 174 failed screening procedure, 451 randomised to double blind phase.

n= 451
 Age: Mean 33 Range 18-65
 Sex: 119 males 332 females
 Diagnosis:
 100% BPD by DSM-IV-TR
 Exclusions: - schizophrenia
 - schizoaffective disorder
 - schizophreniform disorder
 - bipolar I or II disorder
 - delusional disorder
 - previous 3 month diagnosis of MDD
 - substance dependence
 - current diagnosis of PTSD
 - panic disorder
 - OCD
 - Comorbid cluster A Axis II personality disorder (paranoid, schizotypal or schizoid)
 - actively suicidal
 Notes: ETHNICITY: Caucasian 65.4%, African descent 7.1%, East/SE Asian 1.6%, Western Asian 0.2%, Hispanic 24.6%, other origin 1.1%
 Baseline:

	Olz 2.5mg	Olz 5-10mg	Placebo
ZAN-BPD	17.01 (5.02)	17.42 (4.51)	17.07 (5.04)
OAS-M Aggression	52.97 (79.16)	36.34 (52.66)	44.26 (77.69)
OAS-M Irritability	5.66 (1.87)	5.59 (1.65)	5.46 (2.01)
OAS-M Suicidality	0.66 (0.89)	0.68 (1.04)	0.58 (1.04)
Sheehan total	18.57 (6.75)	18.42 (6.96)	18.09 (7.12)
GSI	1.65 (0.76)	1.62 (0.68)	1.53 (0.70)
MADRS total	11.71 (4.83)	11.98 (4.73)	11.52 (4.80)
GAF current functioning	55.05 (9.37)	55.72 (8.85)	55.41 (9.65)
GAF Highes functioning	60.04 (10.75)	61.45 (9.73)	59.71 (10.60)

Data Used
 Weight Change
 GSI
 OAS-M (agresion)
 OAS-M (suicidality)
 OAS-M irritability
 Sheehan disability Scale Total
 ZAN-BPD

Group 1 N= 150
 Olanzapine. Mean dose 2.5mg - Participants received 2.5mg of olanzapine daily as oral capsules
Group 2 N= 148
 Olanzapine. Mean dose 5-10mg - Participants in the moderate dose group received 5-10mg of olanzapine daily as oral capsules
Group 3 N= 153
 Placebo - Placebo capsules given orally, once a day.

Results from this paper:

Internal validity:
 1.1 Well covered 1.6 Adequately addressed
 1.2 Not reported 1.7 Well covered
 1.3 Not addressed 1.8 Olanzapine 2.5mg = 30.4%, Olanzapine 5-10mg 35.8%, Placebo = 38.6%
 1.4 Not reported 1.9 Not reported
 1.5 Well covered 1.10 Adequately addressed

FRANKENBURG2002

Study Type: RCT
 Type of Analysis: Last observation carried forward

n= 30
 Age: Mean 27 Range 18-40
 Sex: all females

Data Used
 SCL-90 Depression
 MOAS

Group 1 N= 20
 Divalproex Sodium. Mean dose 850mg/day - DOSE: Two 250mg

Study quality 1+
 Study supported by grant from Abbott Laboratories, Chicago

<p>Blindness: Double blind Duration (days): Mean 168</p> <p>Setting: COUNTRY: US Outpatient - symptomatic volunteers</p> <p>Notes: RANDOMISATION: Ppts randomly allocated to treatment grp. No other info given.</p> <p>Info on Screening Process: Women aged between 18-40 recruited via media advertisement. No details given on numbers screened before randomisation.</p>	<p>Diagnosis: 100% BPD by DIB-DSM-IV</p> <p>100% Bipolar II disorder by DSM-IV</p> <p>Exclusions: - Major depressive episode or hypomanic episode - Current or lifetime schizophrenia - Current schizoaffective disorder - Current psychotic disorder - Current bipolar I disorder - Acutely suicidal - Not Divalproex naïve</p> <p>Notes: No other psychotropic medication permitted during study. 12 hr trough levels done at wk 1, 1 month then every 2 months. Investigator met with ppts for 20-30mins & adjusted dose accordingly. ETHNICITY: White 67% African American 13% Hispanic 13%, Other 7%</p> <p>Baseline:</p> <table border="1"> <thead> <tr> <th></th> <th>Divalproex</th> <th>Placebo</th> </tr> </thead> <tbody> <tr> <td>SCL-90 sensitivity</td> <td>2.3 (0.7)</td> <td>2.6 (0.8)</td> </tr> <tr> <td>SCL-90 anger</td> <td>2.3 (0.9)</td> <td>2.2 (0.9)</td> </tr> <tr> <td>SCL-90 depression</td> <td>2.4 (0.6)</td> <td>3.0 (0.9)</td> </tr> <tr> <td>MOAS Total</td> <td>5.6 (3.8)</td> <td>5.1 (3.4)</td> </tr> </tbody> </table>		Divalproex	Placebo	SCL-90 sensitivity	2.3 (0.7)	2.6 (0.8)	SCL-90 anger	2.3 (0.9)	2.2 (0.9)	SCL-90 depression	2.4 (0.6)	3.0 (0.9)	MOAS Total	5.6 (3.8)	5.1 (3.4)	<p>Weight Change SCL-90 Hostility</p> <p>Data Not Used SF-36 Health Survey - Extractable but need to decided if useable SCL-90 Other scales</p> <p>Notes: OUTCOMES: ppts seen weekly for 1st month and then monthly.</p>	<p>tablets/day. Group 2 N= 10</p> <p>Placebo. Mean dose 2.6 tablets - DOSE: ppts received 2 tablets containing 250mg of inert substance (placebo).</p>	
	Divalproex	Placebo																	
SCL-90 sensitivity	2.3 (0.7)	2.6 (0.8)																	
SCL-90 anger	2.3 (0.9)	2.2 (0.9)																	
SCL-90 depression	2.4 (0.6)	3.0 (0.9)																	
MOAS Total	5.6 (3.8)	5.1 (3.4)																	

Results from this paper:

Leaving treatment early due to any reason Divalproex (N= 12) Placebo (N= 3)
Leaving treatment early due to side effects Divalproex (N = 1) Placebo (N =3)

Adverse Events: 2 ppts receiving placebo developed a major depressive episode

Internal validity:

1.1 Well covered	1.6 Well covered
1.2 Not reported	1.7 Adequately addressed
1.3 Well covered	1.8 Divalproex= 65% Placebo = 60%
1.4 Well covered	1.9 Well covered
1.5 Well covered	1.10 Not applicable

<p>HALLAHAN2007</p> <p>Study Type: RCT</p> <p>Type of Analysis: Completers (LOCF)</p> <p>Blindness: Double blind Duration (days): Mean 84</p> <p>Setting: COUNTRY: Ireland Outpatients</p> <p>Info on Screening Process: 392 ppts assessed for eligibility, 343 excluded (325 did not meet inclusion criteria & 18 refused to participate), 49 randomised</p>	<p>n= 49 Age: Mean 30 Range 16-64 Sex: 17 males 32 females</p> <p>Diagnosis: 71% BPD by DSM-III-R</p> <p>29% Paranoid PD by DSM-III-R</p> <p>Exclusions: - current history of addiction - substance misuse - psychosis - eating disorder - currently receiving psychotherapy - history of dyslipidaemia - any treatment, diet or illness known to interfere with omega-3 - more than 10% weight loss over previous 3 months - taking supplements containing omega-3 - eating fish more than once per week - changes to/intro of psychotropic medication during previous 3 weeks - unwillingness to participate in study - living outside the greater Dublin area</p>	<p>Data Used OAS-M covaried mean HRSD covaried mean BDI covaried mean Self-harm Suicide Ideation</p> <p>Data Not Used Delayed Memory Task covaried mean - Available but not extracted yet Immediate Memory Task covaried mean - Available but not extracted yet Daily Hassles & Uplifts Scale covaried mean - Available but not extracted yet Perceived Stress Scale covaried mean - Available but not extracted yet</p>	<p>Group 1 N= 22 E-EPA (omega 3). Mean dose 2128mg/day - Ppts prescribed 4 capsules of active agent, each pill containing 305 mg EPA and 227mg DHA. Pills to be taken in the morning.</p> <p>Group 2 N= 27 Placebo. Mean dose 2128mg/day - Ppts in placebo group provided with 4 identical capsules as active treatment group to be taken in the morning. Placebo pills contained 99% corn oil and 1% EPA/DHA mixture.</p>	<p>Study Quality 1+ Funding: Salary support provided by Department of Psychiatry USA. Pronova (now Epax) AS, Norway, provided the active preparation & placebo but authors state they were not otherwise involved in the study.</p>
--	--	--	--	---

	Notes: ETHNICITY: no data 53% of sample were taking psychotropic medication at baseline			
	Baseline: Omega-3 Placebo BDI 38.41 32.22			

Results from this paper:
Internal validity:

1.1 Well covered	1.6 Well covered
1.2 Well covered	1.7 Poorly addressed
1.3 Well covered	1.8 Omega-3= 14% Placebo = 26%
1.4 Well covered	1.9 Not reported
1.5 Adequately addressed	1.10 Not applicable

HOLLANDER2001				
Study Type: RCT Type of Analysis: Last observation carried forward Blindness: Double blind Duration (days): Mean 70 Setting: COUNTRY: US Mixed sample: outpatients community Notes: RANDOMISATION: ppts randomised in 3:1 ratio (Divalproex: placebo). Both ppts and investigators blinded to treatment allocation. No other info given. Info on Screening Process: No details on number screened 21 ppts provided consent to participate. Only 16 were randomly assigned. Ppts recruited by referral from private psychiatrists, mental health professionals in the community, self-help groups, outpatient clinics & media ads.	n= 16 Age: Mean 39 Range 18-62 Sex: 10 males 11 females Diagnosis: 100% BPD by SCID-I and II (DSM-IV) Exclusions: - Medical or neurological disease - Psychotic disorders - Current substance abuse - Type I or II Bipolar disorder - Current major depression - Current suicidal ideation - Pregnant Notes: Number of male and female ppts reflects those who gave consent to study not those randomised ETHNICITY: 67% White, 14% Black, 19% Hispanic Baseline: Divalproex Sodium Placebo AQ 80.7 (15.7) 79.8 (15.1) BDI 18.1 (12.2) 19.7 (8.5)	Data Used GAS AQ BDI Mean Data Not Used CGI - Dichotomous measure Notes: ASSESSMENT: Baseline, weekly for the next four weeks, and every 2 weeks thereafter	Group 1 N= 12 Divalproex Sodium. Mean dose 250mg - DOSE: Initial dose 250mg at bedtime. This increased gradually to a dose sufficient to maintain blood valproate level at 80ug/mL or the highest tolerated dose. Group 2 N= 4 Placebo - DOSE: placebo dose of 250mg equivalent to Divalproex administered daily at bedtime. No other details given	Study Quality 1+ Study supported by grants from NIMH, Abbott Laboratories, National Centre for Research Resources, National Institutes of Health, Rockville, Seaver Foundation and PBO Foundation

Results from this paper:
Leaving treatment early for any reason: 6 patients in Divalproex group (50%) and 4 patients in placebo group (100%)
No patient dropped out owing to side effects; all dropped out owing to lack of efficacy or impulsive decisions.

Internal validity:

1.1 Well covered	1.6 Well covered
1.2 Well covered	1.7 Well covered
1.3 Not addressed	1.8 Divalproex = 50%; Placebo = 100%
1.4 Well covered	1.9 Well covered
1.5 Adequately addressed	1.10 Not applicable

HOLLANDER2003				
Study Type: RCT Study Description: This paper consists of 3 different samples, we only focus on Cluster B and Intermittent Explosive Disorder ppts here Type of Analysis: ITT Blindness: Double blind Duration (days): Mean 91 Setting: COUNTRY:US	n= 200 Age: Mean 37 Sex: 57 males 34 females Diagnosis: 39% Cluster B by DSM-IV 14% Post traumatic stress disorder by DSM-IV	Data Used OAS-M Data Not Used CGI - mean available	Group 1 N= 43 Divalproex Sodium. Mean dose 1567mg/64.2ug/ml - DOSE: Initiated at 500mg/twice daily increased by 250mg every 3-7 days during 1st 3 wks of treatment. Dose adjusted according to clinical response and tolerance. Max dose 30mg/kg/day Mean valproate serum level 64.2ug/ml (range 0.0 -147ug/ml)	Study quality 1+ Study supported by grant from Abbott Laboratories

<p>Outpatient</p> <p>Notes: RANDOMISATION: Ppts randomised in equal numbers. Both ppts and investigator blinded to treatment. No other info given</p> <p>Info on Screening Process: No details of screening process given</p>	<p>47% Intermittent explosive disorder by DSM-IV</p> <p>Exclusions: - lifetime Bipolar I or II disorder with hypomania in past year - major depressive disorder - history of schizophrenia or other psychotic disorder - symptoms of dementia - current serious homicidal or suicidal ideation - impulsive aggression - pregnant or lactating females - clinically significant abnormal laboratory data - unstable medical conditions - less than 2 episodes of physical or verbal aggressive outbreaks per/wk for at least one month prior to screening.</p> <p>Notes: Ppts allowed to continue SSRIs, tricyclic antidepressants & stimulants if taken for 2 months at a stable dose prior to study entry. Dose must remain constant throughout study. Dose reduced over 7 days after completion of 12wk treatment.</p> <p>Baseline:</p> <table border="0"> <tr> <td></td> <td>Divalproex</td> <td>Placebo</td> </tr> <tr> <td>OAS-M aggression</td> <td>54.9 (48.8)</td> <td>54.8 (56.3)</td> </tr> </table>		Divalproex	Placebo	OAS-M aggression	54.9 (48.8)	54.8 (56.3)	<p>Notes: OUTCOMES: taken at baseline, weekly thereafter with telephone visits at weeks 5 & 7. CGI taken at baseline, once a week excluding weeks 5 and 7.</p> <p>OAS-M outcome measure is an average score over past 4 weeks of treatment</p>	<p>Group 2 N= 48</p> <p>Placebo - DOSE: ppts received matched dose to the Divalproex group of inert placebo.</p>	
	Divalproex	Placebo								
OAS-M aggression	54.9 (48.8)	54.8 (56.3)								

<p>Results from this paper:</p> <p>Internal validity:</p> <table border="0"> <tr> <td>1.1 Well covered</td> <td>1.6 Adequately addressed</td> </tr> <tr> <td>1.2 Adequately addressed</td> <td>1.7 Adequately addressed</td> </tr> <tr> <td>1.3 Not addressed</td> <td>1.8 Divalproex = 47% Placebo = 45%</td> </tr> <tr> <td>1.4 Adequately addressed</td> <td>1.9 Adequately addressed</td> </tr> <tr> <td>1.5 Adequately addressed</td> <td>1.10 Adequately addressed</td> </tr> </table>		1.1 Well covered	1.6 Adequately addressed	1.2 Adequately addressed	1.7 Adequately addressed	1.3 Not addressed	1.8 Divalproex = 47% Placebo = 45%	1.4 Adequately addressed	1.9 Adequately addressed	1.5 Adequately addressed	1.10 Adequately addressed
1.1 Well covered	1.6 Adequately addressed										
1.2 Adequately addressed	1.7 Adequately addressed										
1.3 Not addressed	1.8 Divalproex = 47% Placebo = 45%										
1.4 Adequately addressed	1.9 Adequately addressed										
1.5 Adequately addressed	1.10 Adequately addressed										

<p>LEONE1982</p> <p>Study Type: RCT</p> <p>Type of Analysis: Completers</p> <p>Blindness: Double blind</p> <p>Duration (days): Mean 42</p> <p>Setting: COUNTRY: US Outpatient</p> <p>Notes: RANDOMISATION: process not described. No details regarding blinding procedure.</p> <p>Info on Screening Process: Ppts were current BPD patients, no other info given. 80 patients screened, none excluded at screening.</p>	<p>n= 80</p> <p>Age: Mean 31 Range 16-59</p> <p>Sex: 32 males 48 females</p> <p>Diagnosis: 100% BPD by DIB</p> <p>Exclusions: - Known allergy/hypersensitivity to either loxapine or chlorpromazine - moderate to severe brain syndrome or mental retardation - severe medical disease - use of sedatives or tranquilizers - treatment with use of psychotropic drugs within 48 hours of commencing trial</p> <p>Notes: Patients had to exhibit four + diagnostic criteria (low achievement, impulsivity, manipulative suicide, heightened affectivity, mild psychotic experiences, high socialization, disturbed close r'ships) 2 had to be rated as severe and 2 at least moderate.</p> <p>Baseline: None-reported</p>	<p>Data Not Used</p> <p>SNOOP - data not extractable CGI - data not extractable BPRS - data not extractable</p> <p>Notes: OUTCOMES TAKEN AT: day 2, weeks 1, 2, 4, 6</p> <p>Night-time sedatives: fluorazepam and chloral hydrate if needed</p>	<p>Group 1 N= 34</p> <p>Loxapine. Mean dose 14.5mg - DOSE: Initial dose 5mg one/two capsules daily increase based on symptom severity & drug tolerance. Dose reduced after desired symptom control achieved. Max dose = 12 capsules</p> <p>Group 2 N= 35</p> <p>Chlorpromazine. Mean dose 110mg - DOSE: Starting at 50mg one or two capsules daily, max dose = 12 capsules</p>	<p>Study Quality 1+ Study supported by grant from Lederle Laboratories</p>
--	--	--	--	--

<p>Results from this paper:</p> <p>Eleven patients not included in study, 8 (loxapine group N = 4; chlorpromazine, N= 4) did not follow study procedures</p> <p>Leaving treatment due to adverse events: 3 patients admitted to hospital within first 3 study days (loxapine, N = 2; chlorpromazine, N = 1).</p> <p>Internal validity:</p> <table border="0"> <tr> <td>1.1 Well covered</td> <td>1.6 Well covered</td> </tr> <tr> <td>1.2 Not reported</td> <td>1.7 Well covered</td> </tr> </table>		1.1 Well covered	1.6 Well covered	1.2 Not reported	1.7 Well covered
1.1 Well covered	1.6 Well covered				
1.2 Not reported	1.7 Well covered				

1.3 Well covered 1.8 Loxapin = 5%; Placebo = 2.5%
 1.4 Not addressed 1.9 Not addressed
 1.5 Well covered 1.10 Not applicable

<p>LOEW2006</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: Double blind</p> <p>Duration (days): Mean 70</p> <p>Setting: COUNTRY: Germany Outpatient - symptomatic volunteers</p> <p>Notes: RANDOMISATION: carried out confidentially by clinic administration with a 1:1 assignment ratio. Both ppts and investigators blinded.</p> <p>Info on Screening Process: Women aged between 18-35 recruited through media advertisements. 81 female ppts screened, 59 ppts eligible to participate, power calculations required 56 ppts who were then randomised to either treatment or placebo group.</p>	<p>n= 56</p> <p>Age: Mean 25</p> <p>Sex: all females</p> <p>Diagnosis: 100% BPD by SCID-I and II (DSM-IV)</p> <p>73% Depressive disorder</p> <p>52% Anxiety disorder</p> <p>13% Obsessive compulsive disorder</p> <p>63% Somatoform disorder</p> <p>Exclusions: - schizophrenia - current use of topirimate/other psychotropic medication - current psychotherapy - pregnant - not using adequate contraception - planning to become pregnant - currently suicidal - currently absuing alcohol or drugs - experiencing severe somatic illness</p> <p>Notes: ETHNICITY: no data</p> <p>Baseline:</p> <table border="1"> <tr> <td></td> <td>Topirimate</td> <td>Placebo</td> </tr> <tr> <td>GSI</td> <td>71.6 (4.6)</td> <td>72.9 (5.4)</td> </tr> </table>		Topirimate	Placebo	GSI	71.6 (4.6)	72.9 (5.4)	<p>Data Used</p> <p>Weight Change IIP-D SCL-90-R GSI</p> <p>Data Not Used</p> <p>SF-36 Health Survey - data not extracted</p> <p>Notes: OUTCOMES: taken weekly for 10 weeks SCL-90 -R transformed scores used in analysis</p>	<p>Group 1 N= 28</p> <p>Topirimate. Mean dose 200mg - DOSE: Initial dose in first week 25mg daily, titrated to 200mg daily by 6th wk and remained constant thereon. Non-structured questionnaire administered weekly to monitor side effects of Topirimate</p> <p>Group 2 N= 28</p> <p>Placebo - DOSE: ppts received doses of inert placebo identical to Topirimate. No other info given</p>	<p>Study quality 1++ Article reports no funding provided for study.</p>
	Topirimate	Placebo								
GSI	71.6 (4.6)	72.9 (5.4)								

Results from this paper:
 Leaving treatment early due to any reason: Topirimate N= 1 Placebo N=3. No serious side effects observed or psychotic symptoms

Internal validity:

1.1 Well covered 1.6 Well covered
 1.2 Well covered 1.7 Well covered
 1.3 Well covered 1.8 Topiramte 2.8% Placebo = 10.7%
 1.4 Well covered 1.9 Well covered
 1.5 Well covered 1.10 Not applicable

<p>NICKEL2004</p> <p>Study Type: RCT</p> <p>Type of Analysis: Completers</p> <p>Blindness: Double blind</p> <p>Duration (days): Mean 56</p> <p>Setting: COUNTRY: Finland Outpatient - symptomatic volunteers</p> <p>Notes: RANDOMISATION: conducted confidentially by clinic administration. 2:1 ratio sequence adopted. Both ppts and investigators blinded. No other info</p> <p>Info on Screening Process: Women aged between 20-35 years recruited via</p>	<p>n= 29</p> <p>Age: Mean 26 Range 20-35</p> <p>Sex: all females</p> <p>Diagnosis: 100% BPD by SCID-I and II (DSM-IV)</p> <p>Exclusions: - Schizophrenia - major depression - bipolar disorder - current use of topirimate or other psychotropic medicine - current psychotherapy treatment - preganant - somatically ill -actively suicidal</p>	<p>Data Used</p> <p>Weight Change STAXI- Trait Anger</p> <p>Data Not Used</p> <p>STAXI Other scales</p> <p>Notes: OUTCOMES: STAXI completed on weekly basis for 8 weeks.</p>	<p>Group 1 N= 19</p> <p>Topirimate. Mean dose 250mg - DOSE: Initial dose 50mg daily then titrated to 250mg in 6th week and stayed constant thereafter.</p> <p>Group 2 N= 10</p> <p>Placebo. Mean dose 50mg - DOSE: Initial dose 50mg matched Topirimate</p>	<p>Study quality 1+ Article states no financial support given for study</p>
---	--	--	---	---

<p>advertisements by GPs. No info on number screened. 74 women agreed to take part. Telephone screening to check they met DSM-IV criteria and general history taken too. 31 eligible, 29 randomised</p>	<p>- abusing drugs or alcohol</p> <p>Notes: STAXI filled in weekly and side-effects monitored on non-structured questionnaire. Physical examination at both beginning and end of study ETHNICITY: no data</p> <p>Baseline:</p> <table border="1"> <thead> <tr> <th></th> <th>Topiramate</th> <th>Placebo</th> </tr> </thead> <tbody> <tr> <td>State Anger</td> <td>31.4 (2.5)</td> <td>31.3 (2.2)</td> </tr> <tr> <td>Trait Anger</td> <td>30.9 (2.4)</td> <td>29.0 (1.6)</td> </tr> <tr> <td>Anger In</td> <td>23.7 (1.3)</td> <td>24.3 (1.6)</td> </tr> <tr> <td>Anger Out</td> <td>24.2 (1.5)</td> <td>23.8 (1.8)</td> </tr> <tr> <td>Anger Control</td> <td>19.1 (1.4)</td> <td>18.7 (0.9)</td> </tr> </tbody> </table>		Topiramate	Placebo	State Anger	31.4 (2.5)	31.3 (2.2)	Trait Anger	30.9 (2.4)	29.0 (1.6)	Anger In	23.7 (1.3)	24.3 (1.6)	Anger Out	24.2 (1.5)	23.8 (1.8)	Anger Control	19.1 (1.4)	18.7 (0.9)			
	Topiramate	Placebo																				
State Anger	31.4 (2.5)	31.3 (2.2)																				
Trait Anger	30.9 (2.4)	29.0 (1.6)																				
Anger In	23.7 (1.3)	24.3 (1.6)																				
Anger Out	24.2 (1.5)	23.8 (1.8)																				
Anger Control	19.1 (1.4)	18.7 (0.9)																				

Results from this paper:
Leaving treatment early for any reason: N = 2 (Topiramate) No serious side effects or psychotic symptoms observed.

Internal validity:

1.1 Well covered	1.6 Adequately Addressed
1.2 Adequately Addressed	1.7 Adequately Addressed
1.3 Adequately Addressed	1.8 Topiramate N=2 (6%) Placebo = 0
1.4 Well covered	1.9 Not reported
1.5 Well covered	1.10 Not applicable

<p>NICKEL2005</p> <p>Study Type: RCT</p> <p>Type of Analysis: completers</p> <p>Blindness: Double blind</p> <p>Duration (days): Mean 56</p> <p>Followup: 18 months</p> <p>Setting: COUNTRY: Finland Outpatient - symptomatic volunteers</p> <p>Notes: RANDOMISATION: Conducted confidentially by clinic administration. 1:1 ratio chosen. Both ppts and investigators blinded. No other info</p> <p>Info on Screening Process: Men recruited through outpatient clinic staff & through advertisements in local & regional press. 59 men agreed to take part in study, 48 were eligible to take part. Power calculations meant 44 required for trial. No further details on selection of 44.</p>	<p>n= 44</p> <p>Age: Mean 29</p> <p>Sex: all males</p> <p>Diagnosis:</p> <ul style="list-style-type: none"> 69% Mood disorder by DSM-IV 14% Somatoform disorder by DSM-IV 45% Anxiety disorder by DSM-IV 12% Eating disorder by DSM-IV 71% Alcohol misuse by DSM-IV 12% Amphetamine misuse by DSM-IV 19% Cannabis misuse by DSM-IV 100% BPD by SCID-I and II (DSM-IV) <p>Exclusions: - acute psychosis - severe major depression - bipolar disorder - current use of Topiramate - use of psychotropic medication - participation in psychotherapy - somatically ill - actively suicidal - met criteria for an addictive illness</p> <p>Notes: ETHNICITY: no data</p> <p>Baseline:</p> <table border="1"> <thead> <tr> <th></th> <th>SA</th> <th>TA</th> <th>AI</th> <th>AO</th> <th>AC</th> </tr> </thead> <tbody> <tr> <td>Topiramate</td> <td>32(3.60)</td> <td>31.3(2.7)</td> <td>24.7(0.7)</td> <td>25.5(2.0)</td> <td>17.8(1.3)</td> </tr> <tr> <td>Placebo</td> <td>33.6(3.4)</td> <td>30.7(2.5)</td> <td>25.6(0.5)</td> <td>25.5(2.0)</td> <td>17.9(1.9)</td> </tr> </tbody> </table>		SA	TA	AI	AO	AC	Topiramate	32(3.60)	31.3(2.7)	24.7(0.7)	25.5(2.0)	17.8(1.3)	Placebo	33.6(3.4)	30.7(2.5)	25.6(0.5)	25.5(2.0)	17.9(1.9)	<p>Data Used</p> <ul style="list-style-type: none"> Weight Change STAXI- Trait Anger <p>Data Not Used</p> <ul style="list-style-type: none"> STAXI Other scales <p>Notes: OUTCOMES: taken weekly</p>	<p>Group 1 N= 22</p> <p>Topiramate. Mean dose 250mg - DOSE: initial dose 50mg/daily titrated to 250mg/daily in 6th week and then remained constant. Side effects of Topiramate monitored weekly using non-structured questionnaires.</p> <p>Group 2 N= 22</p> <p>Placebo - DOSE: ppts received matched dose of Topiramate</p>	<p>Study quality 1+ Article reports that no funding provided for study</p>
	SA	TA	AI	AO	AC																	
Topiramate	32(3.60)	31.3(2.7)	24.7(0.7)	25.5(2.0)	17.8(1.3)																	
Placebo	33.6(3.4)	30.7(2.5)	25.6(0.5)	25.5(2.0)	17.9(1.9)																	

Results from this paper:

No serious side effects or psychotic symptoms observed

Internal validity:

- 1.1 Well covered 1.6 Adequately addressed
- 1.2 Not reported 1.7 Adequately addressed
- 1.3 Adequately addressed 1.8 Topiramate = 0% Placebo = 4.5%
- 1.4 Well covered 1.9 Not addressed
- 1.5 Adequately addressed 1.10 Not applicable

<p>NICKEL2006</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: Double blind</p> <p>Duration (days): Mean 56</p> <p>Followup: 18 month</p> <p>Setting: COUNTRY: Finland Outpatient - symptomatic volunteers</p> <p>Notes: RANDOMISATION: Conducted confidentially by clinic administration. 1:1 ratio chosen. Both ppts and investigators blinded. No other info.</p> <p>Info on Screening Process: Ppts recruited via media advertisements. 57 ppts aged 16 and over telephoned screened to determine if they met DSM-IV criteria for BPD. 5 ppts excluded. No further info on numbers screened</p>	<p>n= 52</p> <p>Age: Mean 22</p> <p>Sex: 9 males 43 females</p> <p>Diagnosis: 83% Depressive disorder</p> <p>58% Anxiety disorder</p> <p>12% Obsessive compulsive disorder</p> <p>71% Somatoform disorder</p> <p>100% BPD by SCID-I and II (DSM-IV)</p> <p>Exclusions: - Schizophrenia - current use of psychotropic medication incl aripiprazole - current psychotherapy - pregnancy (incl planned pregnancy or sexual activity without contraception - current suicidal ideation - current severe somatic illness</p> <p>Notes: ETHNICITY: no data</p> <p>Baseline:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Aripiprazole</th> <th style="text-align: center;">Placebo</th> </tr> </thead> <tbody> <tr> <td>HRDS</td> <td style="text-align: center;">20.3 (4.4)</td> <td style="text-align: center;">20.9 (3.9)</td> </tr> <tr> <td>HARS</td> <td style="text-align: center;">23.3 (4.1)</td> <td style="text-align: center;">22.8 (5.3)</td> </tr> <tr> <td>State Anger</td> <td style="text-align: center;">32.1 (5.3)</td> <td style="text-align: center;">31.9 (5.9)</td> </tr> </tbody> </table>		Aripiprazole	Placebo	HRDS	20.3 (4.4)	20.9 (3.9)	HARS	23.3 (4.1)	22.8 (5.3)	State Anger	32.1 (5.3)	31.9 (5.9)	<p>Data Used</p> <p>SCL-90 Hostility STAXI- Trait Anger HARS HRSD-24 (Hamilton 1976) SCL-90 Depression</p> <p>Data Not Used</p> <p>SCL-90 Other scales STAXI Other scales</p> <p>Notes: OUTCOMES: taken weekly</p>	<p>Group 1 N= 26</p> <p>Aripiprazole. Mean dose 15mg - DOSE: 15mg daily this remained constant throughout trial. During follow-up period ppts continued to receive 15mg/daily.</p> <p>Group 2 N= 26</p> <p>Placebo. Mean dose 15mg - DOSE: participants received one matching tablet containing 15mg inert placebo. During follow up period blind was broken and placebo ppts then received Aripiprazole or another psychopharmica.</p>	<p>Study quality 1+ Article reports this study was not funded</p>
	Aripiprazole	Placebo														
HRDS	20.3 (4.4)	20.9 (3.9)														
HARS	23.3 (4.1)	22.8 (5.3)														
State Anger	32.1 (5.3)	31.9 (5.9)														

<p>Results from this paper:</p> <p>Leaving treatment early due to any reason: N = 5</p> <p>Internal validity:</p> <ul style="list-style-type: none"> 1.1 Well covered 1.6 Well covered 1.2 Adequately addressed 1.7 Adequately addressed 1.3 Well covered 1.8 Total 9% (N=5) 1.4 Adequately addressed 1.9 Well covered 1.5 Adequately addressed 1.10 Not applicable 				
---	--	--	--	--

<p>PASCUAL2008</p> <p>Study Type: RCT</p> <p>Study Description: 2 phases: Selection phase 2wk baseline period - 2 evaluation visits to determine baseline. Experimental phase 12wks of drug/placebo.</p> <p>Type of Analysis: 'ITT'</p>	<p>n= 60</p> <p>Age: Mean 29 Range 18-45</p> <p>Sex: 49 males 11 females</p> <p>Diagnosis: 100% BPD by DSM-IV</p>	<p>Data Used</p> <p>GSI HARS Leaving treatment early for any reason SCL-90-R BDI</p>	<p>Group 1 N= 30</p> <p>Ziprasidone. Mean dose 84.1mg/day - 40mg/day for 1st 2 wks, then flexible dosage, 40-200mg/day.</p>	<p>Study quality 1++ Funding: Ministry of Health, Spain; REM-TAP Network; Pfizer</p>
--	---	---	--	--

<p>Blindness: Double blind Duration (days): Mean 98</p> <p>Setting: COUNTRY: Spain. Outpatients</p> <p>Notes: 'ITT' participants data included only if there was a baseline measure and at least 1 post baseline measure.</p> <p>Info on Screening Process: 127; inclu criteria: DSMIV BPD diagnosis; 18-45; CGI severity of illness score <=4; no comorb with schizoph, drug-induced psychosis, organic brain syndrome, alcohol/subs depend, bipolar, mental retardation, depressive episode; current contraceptive use.</p>	<p>Exclusions: 17/30 dropped out of ziprasidone group and 14/30 dropped out of placebo group. Reasons inc hospitalisation, adverse effects/patient decision, clinician decision/insufficient treatment effect</p> <p>Notes: ETHNICITY: no info Patients were allowed to continue treatment with benzodiazapines, antidepressants & mood stabilizers if they had been initiated prior to inclusion.</p> <p>Baseline:</p> <table border="1"> <thead> <tr> <th></th> <th>Ziprasidone</th> <th>Placebo</th> </tr> </thead> <tbody> <tr> <td>GCI-BPD</td> <td>4.78 (0.6)</td> <td>4.90 (0.8)</td> </tr> <tr> <td>HAM-D-17</td> <td>17.14 (4.5)</td> <td>19.9 (4.2)</td> </tr> <tr> <td>HAM-A</td> <td>19.04 (5.0)</td> <td>20.33 (4.9)</td> </tr> <tr> <td>BPRS</td> <td>13.76 (5.1)</td> <td>15.43 (6.1)</td> </tr> <tr> <td>BIS</td> <td>71.47 (18.9)</td> <td>77.18 (10.7)</td> </tr> <tr> <td>BDI</td> <td>46.0 (12.9)</td> <td>49.0 (10.46)</td> </tr> <tr> <td>SCL-90-R</td> <td>2.2 (0.8)</td> <td>2.71 (0.5)</td> </tr> </tbody> </table>		Ziprasidone	Placebo	GCI-BPD	4.78 (0.6)	4.90 (0.8)	HAM-D-17	17.14 (4.5)	19.9 (4.2)	HAM-A	19.04 (5.0)	20.33 (4.9)	BPRS	13.76 (5.1)	15.43 (6.1)	BIS	71.47 (18.9)	77.18 (10.7)	BDI	46.0 (12.9)	49.0 (10.46)	SCL-90-R	2.2 (0.8)	2.71 (0.5)	<p>BIS BPRS HAM-A HAM-D-17</p> <p>Data Not Used Leaving treatment early due to side-effects - Pbo group data not reported CGI - Not being extracted</p>	<p>Group Psychotherapy - participated in weekly 2hr nonspecific group psychotherapy sessions</p> <p>Group 2 N= 30</p> <p>Placebo - 40mg/day for 1st 2 weeks, then flexible, 40-200mg/day.</p> <p>Group Psychotherapy - participated in weekly 2hr nonspecific group psychotherapy sessions</p> <p>Group 3 N=</p>	
	Ziprasidone	Placebo																										
GCI-BPD	4.78 (0.6)	4.90 (0.8)																										
HAM-D-17	17.14 (4.5)	19.9 (4.2)																										
HAM-A	19.04 (5.0)	20.33 (4.9)																										
BPRS	13.76 (5.1)	15.43 (6.1)																										
BIS	71.47 (18.9)	77.18 (10.7)																										
BDI	46.0 (12.9)	49.0 (10.46)																										
SCL-90-R	2.2 (0.8)	2.71 (0.5)																										

<p>RINNE2002</p> <p>Study Type: RCT with cross over follow-up</p> <p>Study Description: * with structured covariance matrix</p> <p>Type of Analysis: unbalanced repeated measure model *</p> <p>Blindness: Double blind Duration (days): Mean 42</p> <p>Followup: 24 weeks</p> <p>Setting: COUNTRY: Netherlands Mixed sample (community and outpatients)</p> <p>Notes: RANDOMISATION: process not described.</p> <p>Info on Screening Process: Women aged between 18-50 recruited by psychiatric outpatient clinics, community mental health centres & internet/media ads. 125 ppts returned screening instrument 78 ppts invited for further diagnostic interviews. Final study group comprised 38 ppts</p>	<p>n= 38 Age: Mean 29 Range 18-50 Sex: all females</p> <p>Diagnosis:</p> <ul style="list-style-type: none"> 29% Depression by Composite International Diagnostic Interview (CIDI) 21% Dysthymia by Composite International Diagnostic Interview (CIDI) 8% General Anxiety Disorder by Composite International Diagnostic Interview (CIDI) 32% Post traumatic stress disorder by Composite International Diagnostic Interview (CIDI) 100% BPD by DSM-IV <p>Exclusions: - score of less than 110 on assessment of DSM-IV PD. - meeting less than 5 of the criteria of SCID - score less than 20 on structured interview BPD Severity index - schizophrenia - bipolar disorder</p> <p>Notes: Dutch version of SCID used. Ppts had to stop taking all psychactive medications after signing informed consent form and all had to be medication free for atleast 2 wks before trial started ETHNICITY: no data</p> <p>Baseline:</p> <table border="1"> <thead> <tr> <th></th> <th>Fluvoxamine</th> <th>Placebo</th> </tr> </thead> <tbody> <tr> <td>Rapid mood shifts</td> <td>7.35 (1.62)</td> <td>7.51 (1.82)</td> </tr> <tr> <td>Anger</td> <td>3.45 (1.94)</td> <td>4.09 (1.92)</td> </tr> <tr> <td>Impulsivity</td> <td>1.39 (0.90)</td> <td>1.15 (0.86)</td> </tr> </tbody> </table>		Fluvoxamine	Placebo	Rapid mood shifts	7.35 (1.62)	7.51 (1.82)	Anger	3.45 (1.94)	4.09 (1.92)	Impulsivity	1.39 (0.90)	1.15 (0.86)	<p>Data Used BPD Severity Index impulsivity BPD Severity Index Anger Weight Change</p> <p>Data Not Used BPD Severity Index rapid mood shifts</p> <p>Notes: OUTCOMES: taken at baseline, week 6 Weeks 12 and 24 comprise results of half cross over trial. Adverse events recorded every 2 weeks.</p>	<p>Group 1 N= 20 Fluvoxamine. Mean dose 150mg - DOSE: Initial dose of 150mg/day given for first 6 weeks</p> <p>Group 2 N= 18 Placebo - No details given</p>	<p>Study quality 1+ Study supported by the De Geestgronden Institute of Mental Health, by the National Fund for Mental Health grant and by Solvay Pharma</p>
	Fluvoxamine	Placebo														
Rapid mood shifts	7.35 (1.62)	7.51 (1.82)														
Anger	3.45 (1.94)	4.09 (1.92)														
Impulsivity	1.39 (0.90)	1.15 (0.86)														

<p>Results from this paper:</p> <p>Internal validity:</p> <table border="1"> <tr> <td>1.1 Well covered</td> <td>1.6 Adequately addressed</td> </tr> <tr> <td>1.2 Not reported</td> <td>1.7 Well covered</td> </tr> </table>		1.1 Well covered	1.6 Adequately addressed	1.2 Not reported	1.7 Well covered
1.1 Well covered	1.6 Adequately addressed				
1.2 Not reported	1.7 Well covered				

1.3 Not addressed 1.8 Fluvoxamine 5% Placebo = 11%
 1.4 Not reported 1.9 Adequately addressed
 1.5 Well covered 1.10 Not applicable

SCHULTZ2008

Study Type: RCT
 Study Description: multicentre 12wk trial comparing olanzapine with placebo.
 Type of Analysis: 'ITT'
 Blindness: Double blind
 Duration (days): Mean 84
 Setting: COUNTRY: 52 sites across Europe & US; Outpatients
 Notes: RANDOMISATION: 1:1 ratio
 Info on Screening Process: 385; excluded if met criteria for schizophrenia, schizoaffective, schizophreniform, bipolar, delusional disorders, MDD, panic disorder, OCD, sub dep, PTSD, actively suicidal, BMI <17, cluster A PD.

n= 314
 Age: Mean 32
 Sex: 91 males 223 females
 Diagnosis:
 100% BPD by DSM-IV-TR
 Exclusions: - Schizophrenia
 - Schizo-affective disorder
 - Schizophreniform disorder
 - Bipolar I & II
 - Delusional disorder
 - Current PTSD, panic disorder, OCD, comorbid Cluster A Axis II disorder
 - Previous episode of MDD lasting 3 months
 - Substance dependence
 - Actively suicidal
 Notes: Concomitant use of benzodiazepines/hypnotics allowed during study, episodic use of anticholinergics permitted to treat extrapyramidal symptoms, but not as prophylaxis. Patients permitted to enter study if they had been receiving psychotherapy for >3 m.
 Baseline:

	Olanzapine	Placebo
ZAN BPD	17.0 (5.2)	17.7 (5.2)
SCL 90R	1.66 (0.8)	1.79 (0.7)
MADRS	12.5 (4.9)	13.2 (4.5)
GAF	54.0 (10.0)	53.5 (10.3)
OASM aggression	41.2 (57.1)	51.0 (100.8)
OASM irritability	5.6 (1.6)	5.6 (1.8)
OASM suicidality	1.1 (1.4)	1.2 (1.2)
Sheehan	19.0 (6.0)	20.0 (6.4)

Data Used
 Self-harm
 GSI
 OAS-M (agression)
 Leaving treatment early due to side-effects
 Leaving treatment early for any reason
 Weight Change
 SCL-90 Hostility
 ZAN BPD suicidal/self harm item - no variability measure
 ZAN BPD intense anger item
Data Not Used
 Sheehan famil life - Not being extracted
 OAS-M irritability - Not used

Group 1 N= 155
 Olanzapine. Mean dose 7.09mg/day - 2.5 or 5mg/day according to investigators judgement, after 1wk dose could be increased/decreased up to 20mg/day
Group 2 N= 159
 Placebo

Study quality 1+
 Funding Eli Lilly (originally supplied as unpublished material Eli Lilly #6257 - slight differences in outcome data)

Results from this paper:

Internal validity:
 1.1 Well covered 1.6 Adequately addressed
 1.2 Not reported 1.7 Adequately addressed
 1.3 Not addressed 1.8 Olanzapine = 48.4% Placebo = 38.4%
 1.4 Not reported 1.9 Adequately addressed
 1.5 Well covered 1.10 Adequately addressed

SIMPSON2004

Study Type: RCT
 Type of Analysis: Completers
 Blindness: Double blind
 Duration (days): Mean 91
 Setting: COUNTRY: US
 Partial hospitalisation program
 Notes: RANDOMISATION: Block assignment to treatment group aimed at minimizing possible confound of comorbid Axis 1 presentations. No other info.
 Info on Screening Process: Women recruited

n= 25
 Age: Mean 35
 Sex: all females
 Diagnosis:
 60% Major Depressive Disorder by SCID-I
 44% Post traumatic stress disorder by SCID-I
 100% BPD by SCID-II
 Exclusions: - Primary diagnosis of substance dependence
 - seizure disorder

Data Used
 GAF
 OAS-M (suicidality)
 OAS-M (self-injury)
 OAS-M (agression)
 STAXI total
 BDI
Data Not Used
 STAI - data not extractable
 DES - not extracting this

Group 1 N= 9
 Fluoxetine - DOSE: Week 1 20mg/day upto 40mg/day at wk 3.
 DBT - 12 one hr sessions of individual DBTprovided in line with Linehan 1993
Group 2 N= 11
 Placebo - DOSE: Placebo equivalent dose to Fluoxetine.
 DBT - 12 one hr sessions of individual DBTprovided in line with Linehan 1993

Study quality 1+
 Study supported by Department of Psychiatry and Human Behaviour at Brown Medical School and Eli Lilly

<p>from admissions to a 5-day DBT-based partial hospital programme. No info on numbers screened.</p>	<ul style="list-style-type: none"> - unstable medical conditions - lifetime history of schizophrenia/bipolar - monoamine oxidase inhibitor treatment 2 wks prior - previous adequate trial of fluoxetine - pregnant or lactating women - unwilling to use adequate birth control <p>Notes: All ppts received 12 one hr sessions of individual DBT and participated in weekly 2 hour skills group for 13 weeks. Tarazodone 50-100mg allowed for insomnia. ETHNICITY: 20% African American, 72% White, 8% Native American</p> <p>Baseline:</p> <table border="1"> <thead> <tr> <th></th> <th>Fluoxetine</th> <th>Placebo</th> </tr> </thead> <tbody> <tr> <td>BDI</td> <td>32.11 (10.93)</td> <td>32.09 (11.76)</td> </tr> <tr> <td>STAI</td> <td>119.22 (13.56)</td> <td>121.82 (10.02)</td> </tr> <tr> <td>STAXI</td> <td>25.78 (16.00)</td> <td>33.73 (14.09)</td> </tr> <tr> <td>DES</td> <td>18.89 (16.78)</td> <td>20.67 (9.18)</td> </tr> <tr> <td>GAF</td> <td>49.39 (9.10)</td> <td>46.58 (5.90)</td> </tr> <tr> <td>OAS-M aggression</td> <td>12.56 (22.88)</td> <td>11.18 (12.44)</td> </tr> <tr> <td>OAS-M self-injury</td> <td>11.33 (34.00)</td> <td>21.00 (62.76)</td> </tr> <tr> <td>OAS-M suicidality</td> <td>2.63 (3.78)</td> <td>2.09 (1.04)</td> </tr> </tbody> </table>		Fluoxetine	Placebo	BDI	32.11 (10.93)	32.09 (11.76)	STAI	119.22 (13.56)	121.82 (10.02)	STAXI	25.78 (16.00)	33.73 (14.09)	DES	18.89 (16.78)	20.67 (9.18)	GAF	49.39 (9.10)	46.58 (5.90)	OAS-M aggression	12.56 (22.88)	11.18 (12.44)	OAS-M self-injury	11.33 (34.00)	21.00 (62.76)	OAS-M suicidality	2.63 (3.78)	2.09 (1.04)	<p>Notes: Medical management meetings held wk 3,5,7,9,11</p>		
	Fluoxetine	Placebo																													
BDI	32.11 (10.93)	32.09 (11.76)																													
STAI	119.22 (13.56)	121.82 (10.02)																													
STAXI	25.78 (16.00)	33.73 (14.09)																													
DES	18.89 (16.78)	20.67 (9.18)																													
GAF	49.39 (9.10)	46.58 (5.90)																													
OAS-M aggression	12.56 (22.88)	11.18 (12.44)																													
OAS-M self-injury	11.33 (34.00)	21.00 (62.76)																													
OAS-M suicidality	2.63 (3.78)	2.09 (1.04)																													

Results from this paper:
Leaving study early due to any reason: Fluoxetine N = 3 due to negative experience of wash out period
Placebo N = 1 due to needing hospitalisation outside of study and the other due to lack of improvement in condition

Internal validity:

1.1 Well covered	1.6 Well covered
1.2 Adequately addressed	1.7 Well covered
1.3 Not addressed	1.8 Fluoxetine = 12% Placebo = 8%
1.4 Adequately addressed	1.9 Not addressed
1.5 Adequately addressed	1.10 Not applicable

<p>SOLER2005</p> <p>Study Type: RCT</p> <p>Type of Analysis: Last observation carried forward</p> <p>Blindness: Double blind</p> <p>Duration (days): Mean 72</p> <p>Setting: COUNTRY: Spain unclear setting</p> <p>Notes: RANDOMISATION: ppts randomised on 1:1 ratio basis. Blinding procedure not described. No other info provided.</p> <p>Info on Screening Process: 125 ppts referred from clinical services 65 met inclusion criteria 5 dropped out during selection phase During 4 wk selection phase ppts had 3 evaluation visits to establish pre-intervention baseline.</p>	<p>n= 60</p> <p>Age: Mean 27</p> <p>Sex: 8 males 52 females</p> <p>Diagnosis: 100% BPD by DSM-IV</p> <p>Exclusions: - not meeting DSM-IV criteria for BPD - under age 18, over age 45 - comorbid, unstable axis 1 disorder - score less than 4 on GSI - currently receiving psychotherapy - not using medically accepted contraception</p> <p>Notes: ETHNICITY: no data</p> <p>Baseline:</p> <table border="1"> <thead> <tr> <th></th> <th>DBT+ olanzapine</th> <th>DBT+ placebo</th> </tr> </thead> <tbody> <tr> <td>17 items HRDS</td> <td>22.5 (3.51)</td> <td>20.67 (3.19)</td> </tr> <tr> <td>HARS</td> <td>26.83 (3.98)</td> <td>24.36 (3.85)</td> </tr> <tr> <td>GSI</td> <td>5.33 (0.88)</td> <td>4.95 (0.69)</td> </tr> </tbody> </table>		DBT+ olanzapine	DBT+ placebo	17 items HRDS	22.5 (3.51)	20.67 (3.19)	HARS	26.83 (3.98)	24.36 (3.85)	GSI	5.33 (0.88)	4.95 (0.69)	<p>Data Used</p> <p>CGI</p> <p>HARS</p> <p>HRSD-17 (Hamilton 1960)</p> <p>Weight Change - data not extracted yet</p> <p>Visits to emergency psychiatric services</p> <p>Mean number of Self harm/suicide attempts</p> <p>Data Not Used</p> <p>impulsivity/aggressive behaviour - data not extracted yet</p> <p>Notes: OUTCOMES: Ppts evaluated every 2 weeks by experienced psychiatrist Biweekly reports of dysfunctional behaviours Safety evaluated by assessing adverse events and side effects</p>	<p>Group 1 N= 30</p> <p>Olanzapine. Mean dose 8.83mg - DOSE: Olanzapine dose flexible and ranged btwn 5-20mg/daily.</p> <p>DBT - DBT adapted from standard version, 2 interventions applied: skills training and phone calls.</p> <p>Group Psychotherapy - Ppts took part in weekly 150-minute group psychotherapy</p> <p>Group 2 N= 30</p> <p>Placebo - DOSE: no description given.</p> <p>DBT - DBT adapted from standard version, 2 interventions applied: skills training and phone calls.</p> <p>Group Psychotherapy - Ppts seen weekly for 150 minute group psychotherapy.</p>	<p>Study quality 1+ Study supported by grants from the Ministry of Health, Spain and from Eli Lilly & Co Madrid.</p>
	DBT+ olanzapine	DBT+ placebo														
17 items HRDS	22.5 (3.51)	20.67 (3.19)														
HARS	26.83 (3.98)	24.36 (3.85)														
GSI	5.33 (0.88)	4.95 (0.69)														

Results from this paper:
Leaving treatment early due to any reason: Olanzapine N= 8; Placebo N = 10 (No reasons given).

Internal validity:

1.1 Well covered	1.6 Poorly addressed
------------------	----------------------

1.2 Adequately addressed	1.7 Well covered
1.3 Not addressed	1.8 Olanzapine= 27% Placebo = 33%
1.4 Not addressed	1.9 Well covered
1.5 Adequately addressed	1.10 Not applicable

<p>SOLOFF1989</p> <p>Study Type: RCT</p> <p>Type of Analysis: Completers</p> <p>Blindness: Double blind</p> <p>Duration (days): Mean 42</p> <p>Setting: COUNTRY:US</p> <p>Inpatient (hospital)</p> <p>Notes: RANDOMISATION: Process not described. Raters blind to medication assignment but not to subtype diagnoses or DIB scores. No other info.</p> <p>Info on Screening Process: Ppts referred from both inpatient & outpatient divisions of psychiatric institute No info on number screened 90 consecutively admitted patients meeting DIB criteria were begun in protocol.</p>	<p>n= 90</p> <p>Age: Mean 25</p> <p>Sex: 22 males 68 females</p> <p>Diagnosis: 39% Unstable BPD by DSM-IIIIR</p> <p>4% SPD by DSM-IIIIR</p> <p>57% Mixed BPD&SPD by DSM-IIIIR</p> <p>Exclusions: - schizophrenia - schizoactive disorder - manic disorder - bipolar disorder with mania - hypomania</p> <p>Notes: BPD also defined by DIB with cut off score of 7> 7-day washout period from all medications then rated for symptom severity before random assignment of medications. Plasma obtained wkly ETHNICITY: no data</p> <p>Baseline:</p> <table border="1"> <thead> <tr> <th></th> <th>Amitriptyline</th> <th>Haloperidol</th> <th>Placebo</th> </tr> </thead> <tbody> <tr> <td>GAS</td> <td>43.07 (5.36)</td> <td>41.23 (5.48)</td> <td>42.17 (5.27)</td> </tr> <tr> <td>SCL-90</td> <td>1.64 (0.68)</td> <td>1.91 (0.70)</td> <td>1.84 (0.68)</td> </tr> <tr> <td>HAM-D 17</td> <td>17.04 (4.66)</td> <td>18.04 (4.66)</td> <td>17.67 (4.93)</td> </tr> <tr> <td>HAM-D 24</td> <td>24.79 (7.00)</td> <td>25.52 (6.00)</td> <td>24.95 (7.11)</td> </tr> <tr> <td>BDI</td> <td>30.21 (9.76)</td> <td>35.04 (9.30)</td> <td>30.17 (12.17)</td> </tr> </tbody> </table>		Amitriptyline	Haloperidol	Placebo	GAS	43.07 (5.36)	41.23 (5.48)	42.17 (5.27)	SCL-90	1.64 (0.68)	1.91 (0.70)	1.84 (0.68)	HAM-D 17	17.04 (4.66)	18.04 (4.66)	17.67 (4.93)	HAM-D 24	24.79 (7.00)	25.52 (6.00)	24.95 (7.11)	BDI	30.21 (9.76)	35.04 (9.30)	30.17 (12.17)	<p>Data Used</p> <p>IMPS</p> <p>SCL-90 Hostility</p> <p>BDI</p> <p>HRSD-24 (Hamilton 1960)</p> <p>Barratt Impulsiveness Scale (BIS)</p> <p>Data Not Used</p> <p>GAS - data not extracted yet</p> <p>Schizotypal Symptom Inventory (SSI) - data not extracted yet</p> <p>Self-report test of impulse control (STIC) - data not extracted yet</p> <p>Buss-Durkee Hostility Inventory (BDHI) - data not extracted yet</p> <p>Ward Scale of Impulse Action Reactions - developed for study</p> <p>Notes: OUTCOMES:Outcomes taken weekly</p>	<p>Group 1 N= 29</p> <p>Amitriptyline. Mean dose 149.1mg - DOSE: 25mg given twice daily & increased by 2 tablets on alternate days max of 6 tablets max dose = 150mg</p> <p>Group 2 N= 28</p> <p>Haloperidol. Mean dose 4.8mg - DOSE:2mg given twice daily & increased by 2 tablets on alternate days to max of 6 tablets max dose = 12mg</p> <p>Group 3 N= 28</p> <p>Placebo - DOSE: 2mg placebo tablet given twice daily & increased by 2 tablets on alternate days to max of 6 tablets max dose= 12mg placebo</p>	<p>Study quality 1+ Study supported by National Institute of Mental Health grant and Clinical Research Centre grant</p>
	Amitriptyline	Haloperidol	Placebo																									
GAS	43.07 (5.36)	41.23 (5.48)	42.17 (5.27)																									
SCL-90	1.64 (0.68)	1.91 (0.70)	1.84 (0.68)																									
HAM-D 17	17.04 (4.66)	18.04 (4.66)	17.67 (4.93)																									
HAM-D 24	24.79 (7.00)	25.52 (6.00)	24.95 (7.11)																									
BDI	30.21 (9.76)	35.04 (9.30)	30.17 (12.17)																									

Results from this paper:

Leaving treatment for any reason: N = 5 - data not provided per group

Internal validity:

1.1 Well covered	1.6 Well covered
1.2 Not reported	1.7 Well covered
1.3 Not addressed	1.8 Total number dropping out N= 5
1.4 Poorly reported	1.9 Adequately addressed
1.5 Adequately addressed	1.10 Not applicable

<p>SOLOFF1993</p> <p>Study Type: RCT</p> <p>Type of Analysis: unclear</p> <p>Blindness: Double blind</p> <p>Duration (days): Mean 35</p> <p>Followup: continuation phase 16 wks</p> <p>Setting: COUNTRY: US Inpatients then discharged after 2 weeks and followed up in community</p> <p>Notes: RANDOMISATION: process not described and no details on blinding procedure.</p> <p>Info on Screening Process: Ppts recruited from</p>	<p>n= 108</p> <p>Age: Mean 27</p> <p>Sex: 26 males 82 females</p> <p>Diagnosis: 71% Major Depressive Disorder</p> <p>47% Atypical Depressive Disorder</p> <p>44% Hysteroid Dysphoria</p>	<p>Data Used</p> <p>SCL-90 Hostility</p> <p>HRSD-24 (Guy 1970)</p> <p>BDI</p> <p>SCL-90 Depression</p> <p>IMPS</p> <p>Atypical Depression Inventory total</p> <p>GAS</p> <p>GSI</p> <p>Barratt Impulsiveness Scale (BIS)</p> <p>Self-report test of impulse control (STIC)</p> <p>Buss-Durkee Hostility Inventory (BDHI)</p>	<p>Group 1 N= 38</p> <p>Phenelzine Sulfate. Mean dose 60.45mg - DOSE: Pts titrated to 60mg within week1. Adjustment and stabilisation of dose in 2nd wk. Max dose 90mg. CONTINUATION PHASE: Dose remained unchanged except in few cases where lowered to minimize side effects or increased to enhance efficacy.</p>	<p>Study quality 1+ Study supported by USPHS Grants and National Institute Mental Health Grant and Clinical Research Centre grant</p>
---	--	---	---	---

<p>inpatient services No info on numbers screened 108 consecutively admitted borderline patients randomly assigned to one of 3 conditions</p>	<p>0% SPD</p> <p>39% BPD by DSM-IIIR</p> <p>61% Mixed BPD&SPD by DSM-IIIR</p> <p>Exclusions: - drug/alcohol-related deficits/physical dependence - central nervous system disease - recent electroconvulsive therapy - formal diagnosis of seizure disorder - borderline mental retardation</p> <p>Notes: DIB scaled score >7 used to determine diagnosis of BPD 7 day washout period from all medication Ppts remained in hospital for 2wks after beginning medication regimen. Continuation phase after 5 wks acute treatment trial lasted 16wks ETHNICITY: no data</p> <p>Baseline:</p> <table border="1"> <thead> <tr> <th></th> <th>Phenelzine</th> <th>Haloperidol</th> <th>Placebo</th> </tr> </thead> <tbody> <tr> <td>Ham-D-24</td> <td>24.35 (6.38)</td> <td>25.83 (4.68)</td> <td>25.79 (6.79)</td> </tr> <tr> <td>Ham-D-17</td> <td>17.53 (4.38)</td> <td>18.57 (3.48)</td> <td>18.07 (4.36)</td> </tr> <tr> <td>BDI</td> <td>31.55 (8.09)</td> <td>37.23 (10.7)</td> <td>34.07 (9.51)</td> </tr> <tr> <td>SCL-90 Dep.</td> <td>2.63 (0.67)</td> <td>2.71 (0.77)</td> <td>2.87 (0.35)</td> </tr> <tr> <td>ADI Total</td> <td>7.38 (2.36)</td> <td>6.20 (2.20)</td> <td>6.79 (2.33)</td> </tr> </tbody> </table>		Phenelzine	Haloperidol	Placebo	Ham-D-24	24.35 (6.38)	25.83 (4.68)	25.79 (6.79)	Ham-D-17	17.53 (4.38)	18.57 (3.48)	18.07 (4.36)	BDI	31.55 (8.09)	37.23 (10.7)	34.07 (9.51)	SCL-90 Dep.	2.63 (0.67)	2.71 (0.77)	2.87 (0.35)	ADI Total	7.38 (2.36)	6.20 (2.20)	6.79 (2.33)	<p>Data Not Used</p> <p>Schizotypal Symptom Inventory (SSI) HRSD-17 SCL-90 Obsessive-compulsive Ward Scale of Impulse Action Reactions - developed for study BSI (self report) SCL-90 Other scales</p> <p>Notes: OUTCOMES: % of platelet MAO inhibition taken on wkly basis for 5 wks CONTINUATION PHASE: Wkly research ratings for 1st 4 weeks, bi-wkly ratings for remaining 12 weeks. Medication compliance assessed by counting pills & mnthly Haloperidol levels & MOA</p>	<p>Group 2 N= 36</p> <p>Haloperidol. Mean dose 3.93mg - DOSE: Pts titrated to 4mg within week 1. Adjustment and stabilisation of dose in 2nd wk Max dose 6mg. CONTINUATION PHASE: Dose remained unchanged except in few cases where lowered to minimize side effects or increased to enhance efficacy.</p> <p>Group 3 N= 34</p> <p>Placebo. Mean dose 4.31tablets - DOSE: Pts titrated to 4 tablets within week 1. Max dose 6 tablets. CONTINUATION PHASE: Dose remained unchanged except in few cases where lowered to minimize side effects or increased to enhance efficacy.</p>	
	Phenelzine	Haloperidol	Placebo																									
Ham-D-24	24.35 (6.38)	25.83 (4.68)	25.79 (6.79)																									
Ham-D-17	17.53 (4.38)	18.57 (3.48)	18.07 (4.36)																									
BDI	31.55 (8.09)	37.23 (10.7)	34.07 (9.51)																									
SCL-90 Dep.	2.63 (0.67)	2.71 (0.77)	2.87 (0.35)																									
ADI Total	7.38 (2.36)	6.20 (2.20)	6.79 (2.33)																									

Results from this paper:
Leaving treatment for any reason N = 32 no other details given and data not broken down by groups

Internal validity:

1.1 Well covered	1.6 Well covered
1.2 Not reported	1.7 Well covered
1.3 Not addressed	1.8 Overall 29.6% dropped out
1.4 Not reported	1.9 Not addressed
1.5 Adequately addressed	1.10 Not applicable

<p>TRITT2003</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: Double blind</p> <p>Duration (days): Mean 56</p> <p>Setting: COUNTRY: Finland Outpatient - symptomatic volunteers</p> <p>Notes: RANDOMISATION: conducted confidentially in secrecy by clinic administration section and arranged in 2:1 ratio. Both ppts and investigators blinded.</p> <p>Info on Screening Process: Women aged between 20-40 yrs recruited via advertisements in GP practices</p> <p>GPs recommended 72 women of which 56 agreed to participate, 38 eligible to take part in study; power calculations required 27 ppts</p>	<p>n= 27</p> <p>Age: Mean 29 Range 20-40</p> <p>Sex: all females</p> <p>Diagnosis: 100% BPD by SCID-I and II (DSM-IV)</p> <p>Exclusions: - schizophrenia - major depression - bipolar disorder - current use of Lamotrigine - current use of other psychotropic medication - current psychotherapy - pregnant or planning pregnancy - not using contraception - somatically ill - actively suicidal - abusing alcohol or drugs</p> <p>Notes: Tablets were supplied in numbered boxes. Side effects monitored weekly via non-structured questionnaire. ETHNICITY: no data</p> <p>Baseline:</p>	<p>Data Used</p> <p>Weight Change STAXI- Trait Anger</p> <p>Data Not Used</p> <p>STAXI Other scales</p> <p>Notes: OUTCOMES: STAXI administered weekly.</p>	<p>Group 1 N= 18</p> <p>Lamotrigine. Mean dose Not reported - DOSE: Initial dose for first 2wks 50mg daily, titrated to 100mg in 3rd week then to 150mg in 4th and 5th week and to 200mg daily in the 6th, 7th and 8th week.</p> <p>Group 2 N= 9</p> <p>Placebo. Mean dose not reported - DOSE: Ppts received one blinded capsule medication (placebo) daily.</p>	<p>Study quality 1+ Funding unclear</p>
---	---	--	---	---

	Lamotrigine	Placebo
State anger	32.2 (3.5)	31.7 (3.9)
Trait anger	30.7 (3.7)	29.4 (3.2)
Anger in	22.3 (3.5)	23.2 (3.3)
Anger out	25.3 (3.5)	24.8 (3.1)
Anger control	17.2 (2.9)	17.9 (2.3)

Results from this paper:
 Leaving treatment early due to adverse events (febrile infection): Lamotrigine N = 1; Placebo N = 1
 Leaving treatment due to any reason: Placebo N = 1.
 No serious side effects observed

Internal validity:

1.1 Well covered	1.6 Adequately addressed
1.2 Adequately addressed	1.7 Adequately addressed
1.3 Well covered	1.8 Lamotrigine = 5.5% Placebo = 22%
1.4 Well covered	1.9 Well covered
1.5 Well covered	1.10 Not applicable

ZANARINI2001

Study Type: RCT

Type of Analysis: Completers analysis

Blindness: Double blind

Duration (days): Mean 168

Setting: COUNTRY: US
 Outpatient - symptomatic volunteers

Notes: RANDOMISATION: ppts randomised according to a 2:1 randomised sequence number. Both ppts and investigators blinded - no details on process provided.

Info on Screening Process: Women aged between 18-40 recruited via ads in newspapers. 30 subjects completed pre-randomization assessments. 2 excluded from further study due to responding well to SSRI treatment. 28 entered into trial and randomised. No info on number screened

n= 28

Age: Mean 27

Sex: all females

Diagnosis:
 100% BPD by DSM-IV

Exclusions: - Patients previously treated with Olanzapine
 - medically ill
 - had seizure disorder
 - currently on psychotropic medication
 - actively abusing alcohol or drugs
 - acutely suicidal
 - pregnant
 - breastfeeding
 - planning to become pregnant
 - not using reliable forms of contraception

Notes: Face-to-face interview plus informed consent. At each visit patients filled in series of assessment forms.
 ETHNICITY: White 67%, non-white 33%

Baseline:

	Olanzapine	Placebo
SCL-90	2.57 (0.64)	2.24 (0.75)
Sensitivity	2.26 (0.82)	1.76 (0.41)
Depression	2.58 (1.03)	2.42 (0.37)
Anger	2.16 (0.71)	1.89 (0.85)
Paranoia	2.39 (0.78)	1.93 (0.92)

Data Used
 Weight Change

Data Not Used
 SCL-90 - not extractable

Notes: OUTCOMES TAKEN: Every week for the first month, then monthly for the next 5 months.

Group 1 N= 19
 Olanzapine. Mean dose 5.33mg - DOSE: Initial dose 1/2 tablet (2.5mg) of Olanzapine. Dose adjusted according to perceived response&side effects

Group 2 N= 9
 Placebo. Mean dose 1.2 tablets - DOSE: Participants received 1/2 a tablet of matching inert placebo to olanzepine. Dose increased according to need: ppts received maximum of 1.2 tablets daily.

Study quality 1++
 Study supported by grant from Eli Lilly

Results from this paper:
 Leaving treatment early due to adverse events - Olanzapine N = (6) Placebo N = (2) and lost to follow up Olanzapine N = (5) Placebo N = (6).
 Side effects: Minor sedation - Olanzapine N= 8/19 (42.1%) Placebo N = 3/9 (33.3%)
 Constipation - Olanzapine N = 6/19 (31.6%) Placebo N = 0/9
 Weight gain - Olanzapine N = 9/19 (47.4%) Placebo N = 0/9

Internal validity:

1.1 Well covered	1.6 Well covered
1.2 Well covered	1.7 Well covered
1.3 Well covered	1.8 Olanzapine = 57.89% Placebo = 88.88%
1.4 Well covered	1.9 Adequately addressed
1.5 Well covered	1.10 Not applicable

<p>ZANARINI2003</p> <p>Study Type: RCT</p> <p>Type of Analysis: Completers</p> <p>Blindness: Double blind</p> <p>Duration (days): Mean 56</p> <p>Setting: COUNRTY: US Outpatient - symptomatic volunteers</p> <p>Notes: RANDOMISATION: Ppts randomised in 2:1 ratio, no other info given. No description of blinding procedure.</p> <p>Info on Screening Process: No info on numbers screened Women aged between 18 and 40 recruited via advertisements in local newspapers</p>	<p>n= 30</p> <p>Age: Mean 26 Range 18-40</p> <p>Sex: all females</p> <p>Diagnosis: 100% BPD by DIB_R</p> <p>Exclusions: - medically ill - currently taking psychotropic medication - taking E-EPA supplements - eating more than 1-2 servings of fatty fish per week -actively abusing alcohol or drugs - acutely suicidal - current or lifetime criteria for schizophrenia, schizoaffective disorder, or bipolar I or II disorder - currently in midst of major depressive episode</p> <p>Notes: SCID also administered to determine BPD diagnosis. Side effects monitored via structured questionnaire at each visit.</p> <p>Baseline:</p> <table border="1"> <thead> <tr> <th></th> <th>E-EPA</th> <th>Placebo</th> </tr> </thead> <tbody> <tr> <td>MADRS</td> <td>17.7 (8.4)</td> <td>18.0 (3.1)</td> </tr> <tr> <td>MOAS</td> <td>22.7 (38.1)</td> <td>27.6 (23.6)</td> </tr> </tbody> </table>		E-EPA	Placebo	MADRS	17.7 (8.4)	18.0 (3.1)	MOAS	22.7 (38.1)	27.6 (23.6)	<p>Data Used</p> <p>OAS-M mean score over 4 weeks</p> <p>MADRS</p> <p>Self-harm</p> <p>Notes: OUTCOMES: weekly for first month and then biweekly for next month</p>	<p>Group 1 N= 20</p> <p>E-EPA (omega 3). Mean dose 100mg - DOSE: 2 capsules per day (beginning the day after baseline assessment). Each capsule contained 500mg of 97% E-EPA.</p> <p>Group 2 N= 10</p> <p>Placebo. Mean dose 100mg - DOSE: 2 capsules identical to active treatment administered daily. Each capsule contained 500mg of mineral oil.</p>	<p>Study quality 1+ Study supported by Independent Investigator Award from the National Alliance for Research on Schizophrenia and Depression</p>
	E-EPA	Placebo											
MADRS	17.7 (8.4)	18.0 (3.1)											
MOAS	22.7 (38.1)	27.6 (23.6)											

<p>Results from this paper:</p> <p>Internal validity:</p> <table border="1"> <tbody> <tr> <td>1.1 Well covered</td> <td>1.6 Adequately addressed</td> </tr> <tr> <td>1.2 Adequately addressed</td> <td>1.7 Well covered</td> </tr> <tr> <td>1.3 Not reported</td> <td>1.8 E-EPA 10% Placebo = 10%</td> </tr> <tr> <td>1.4 Not addressed</td> <td>1.9 Not addressed</td> </tr> <tr> <td>1.5 Well covered</td> <td>1.10 Not applicable</td> </tr> </tbody> </table>		1.1 Well covered	1.6 Adequately addressed	1.2 Adequately addressed	1.7 Well covered	1.3 Not reported	1.8 E-EPA 10% Placebo = 10%	1.4 Not addressed	1.9 Not addressed	1.5 Well covered	1.10 Not applicable
1.1 Well covered	1.6 Adequately addressed										
1.2 Adequately addressed	1.7 Well covered										
1.3 Not reported	1.8 E-EPA 10% Placebo = 10%										
1.4 Not addressed	1.9 Not addressed										
1.5 Well covered	1.10 Not applicable										

<p>ZANARINI2004</p> <p>Study Type: RCT</p> <p>Blindness: Double blind</p> <p>Duration (days): Mean 56</p> <p>Setting: COUNRTY:US Outpatient - symptomatic volunteers</p> <p>Notes: RANDOMISATION: equal numbers of ppts assigned to each group. Both ppts and investigators blinded to study assignment. No other info.</p> <p>Info on Screening Process: Ppts recruited via media ads No info on numbers screened. 45 ppts entered the trial, all randomised to one of three treatment groups</p>	<p>n= 45</p> <p>Age: Mean 23</p> <p>Sex: all females</p> <p>Diagnosis: 93% Mood disorder</p> <p>51% Substance use disorder</p> <p>49% Anxiety disorder</p> <p>44% Eating disorder</p> <p>100% BPD by DIB_R</p> <p>Exclusions: - Previously successfully treated with fluoxetine or olanzapine - medically ill - seizure disorder - current use of psychotropic medication - actively abusing alcohol or drugs - acutely suicidal - pregnant, breastfeeding or planning pregnancy - not using reliable forms of contraception - currrent major depressive disorder</p>	<p>Data Used</p> <p>MADRS</p> <p>OAS-M</p> <p>Weight Change - data not extracted yet</p> <p>Notes: OUTCOMES: taken at end point</p>	<p>Group 1 N= 14</p> <p>Fluoxetine. Mean dose 15mg - DOSE: Initial dose 1 capsule fluoxetine containing 10mg, plus 1 capsule containing placebo. Mean dose at endpoint evaluation = 15.0mg (SD= 6.5mg) Range (10-30mg)</p> <p>Group 2 N= 16</p> <p>Olanzapine. Mean dose 3.3mg - DOSE: Initial dose one capsule containing 2.5mg Olanzapine plus one capsule of placebo. Mean dose at endpoint evaluation = 3.3mg (SD= 1.8mg) Range 2.5-7.5mg.</p> <p>Group 3 N= 15</p> <p>Fluoxetine Olanzapine combined. Mean dose 12.7mg + 3.2mg - DOSE: Initial dose one capsule 10mg Fluoxetine plus one capsule 2.5mg Olanzapine. Mean dose at endpoint evaluation 12.7mg Fluoxetine and 3.2mg Olanzapine.</p>	<p>Study quality 1+ Study supported by grant from Eli Lilly, Indianapolis</p>
---	---	--	---	---

- lifetime schizophrenia
- schizoaffective disorder
- bipolar disorder

Notes: DSM-IV also used to determine BPD diagnosis
Dose adjusted by unblinded psychiatrist according to perceived response and side effects.

Baseline:

	Fluoxetine	Olanzapine	OFC
OAS-M	23.21 (19.69)	27.81 (22.89)	25.00 (19.42)
MADRS	14.43 (4.47)	18.81 (7.19)	16.20 (6.32)

Results from this paper:

% treatment early due to adverse events N = 2 (1 OFC group due to dizziness and headaches and 1 in Fluoxetine group due to suicidal gesture).
Leaving treatment early due to any reason N = 1 (OFC ppt loss to follow up).

	Fluoxetine	Olanzapine	OFC
Side effects: Mild sedation	N = 3 (21.4%)	N= 12 (75%)	N= 7 (46.7%)
Mild akathisia	N = 5 (35.7%)	N = 4 (25 %)	N = 5 (33.3%)

Internal validity:

- | | |
|----------------------|---------------------------------|
| 1.1 Well covered | 1.6 Well covered |
| 1.2 Poorly addressed | 1.7 Well covered |
| 1.3 Not reported | 1.8 Fluoxetine = 7% OFC = 13.3% |
| 1.4 Well covered | 1.9 Not reported |
| 1.5 Well covered | 1.10 Not applicable |

Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
GOLDBERG1986	(Thiotixine vs placebo) Small BPD sample
LINKS1990	(Lithium therapy vs Desipramine vs Placebo) cross over trial
MONTGOMERY1983	(Mianserin vs Placebo)Primary inclusion criteria: admission for suicidal act plus 2 or more episodes of previous self harm.
PHILIPSEN2004A	(Naloxone vs Placebo) Naloxone can only be injected and therefore is not an acceptable option for BPD
SALZMAN1995	(Fluoxetine vs placebo) Too mild diagnosis of BPD
SERBAN1984	(Thiothixine vs Haloperidol) Small BPD sample

References of Included Studies

BELLINO2006B (Unpublished and Published Data)

Bellino, S., Zizza, M., Rinaldi, C., et al. (2006) Combined treatment of major depression in patients with borderline personality disorder: a comparison with pharmacotherapy. Canadian Journal of Psychiatry - Revue Canadienne de Psychiatrie, 51, 453-460.

BELLINO2007 (Published Data Only)

Bellino,S., Zizza,M., Rinaldi,C., et al. (2007) Combined therapy of major depression with concomitant borderline personality disorder: comparison of interpersonal and cognitive psychotherapy. Canadian Journal of Psychiatry - Revue Canadienne de Psychiatrie, 52, 718-725.

BOGENSCHUTZ2004 (Unpublished and Published Data)

Bogenschutz, M. P. & George, N. (2004) Olanzapine versus placebo in the treatment of borderline personality disorder. Journal of Clinical Psychiatry, 65, 104-109.

DE LA FUENTE1994 (Published Data Only)

De la Fuente, J.M. & Lotstra, F. (1994) A trial of carbamazepine in borderline personality disorder. European Neuropsychopharmacology, 4, 479-486.

ELILILLY#6253 (Published Data Only)

Efficacy and safety of olanzapine in patients with borderline personality disorder: a randomized double-blind comparison with placebo. Unpublished manuscript.

FRANKENBURG2002 (Published Data Only)

Frankenburg, F. R. & Zanarini, M. C. (2002) Divalproex sodium treatment of women with borderline personality disorder and bipolar II disorder: a double-blind placebo-controlled pilot study. *Journal of Clinical Psychiatry*, 63, 442-446.

HALLAHAN2007 (Published Data Only)

Hallahan, B., Hibbeln, JR., Davis, JM., et al. (2007) Omega-3 fatty acid supplementation in patients with recurrent self-harm. Single centre double-blind randomised controlled trial. *British Journal of Psychiatry*, 190, 118-122.

HOLLANDER2001 (Published Data Only)

Hollander, E., Allen, A., Lopez, R. P., et al. (2001) A preliminary double-blind, placebo-controlled trial of divalproex sodium in borderline personality disorder. *Journal of Clinical Psychiatry*, 62, 199-203.

HOLLANDER2003 (Published Data Only)

Hollander, E., Swann, A. C., Coccaro, E. F., et al. (2005) Impact of trait impulsivity and state aggression on divalproex versus placebo response in borderline personality disorder. *American Journal of Psychiatry*, 162, 621-624.

*Hollander, E., Tracy, K.A., Swann, A.C., et al. (2003) Divalproex in the treatment of impulsive aggression: efficacy in cluster B personality disorders. *Neuropsychopharmacology*, 28, 1186-1197.

LEONE1982 (Published Data Only)

Leone, N. F. (1982) Response of borderline patients to loxapine and chlorpromazine. *Journal of Clinical Psychiatry*, 43, 148-150.

LOEW2006 (Published Data Only)

Loew, T. H., Nickel, M. K., Muehlbacher, M., et al. (2006) Topiramate treatment for women with borderline personality disorder: a double-blind, placebo-controlled study. *Journal of Clinical Psychopharmacology*, 26, 61-66.

NICKEL2004 (Published Data Only)

Nickel, M. K., Nickel, C., Mitterlehner, F. O., et al. (2004) Topiramate treatment of aggression in female borderline personality disorder patients: a double-blind placebo-controlled study. *Journal of Clinical Psychiatry*, 65, 1515-1519.

NICKEL2005 (Published Data Only)

Nickel, M. K., Nickel, C., Kaplan, P., et al. (2005). Treatment of aggression with topiramate in male borderline patients: a double-blind, placebo-controlled study. *Biological Psychiatry*, 57, 495-499.

NICKEL2006 (Published Data Only)

Nickel, M. K., Muehlbacher, M., Nickel, C., et al. (2006) Aripiprazole in the treatment of patients with borderline personality disorder: a double-blind, placebo-controlled study. *American Journal of Psychiatry*, 163, 833-838.

PASCUAL2008 (Published Data Only)

Pascual, J.C.; Soler, J.; Puigdemont, D., et al. (2008) Ziprasidone in the treatment of borderline personality disorder: a double-blind placebo-controlled randomized study. *Journal of Clinical Psychiatry*, 69, 603-608.

RINNE2002 (Published Data Only)

Rinne, T., Van Den Brink, W., Wouters, L., et al. (2002) SSRI treatment of borderline personality disorder: a randomized, placebo-controlled clinical trial for female patients with borderline personality disorder.[see comment]. *American Journal of Psychiatry*, 159, 2048-2054.

SCHULTZ2008 (Unpublished and Published Data)

Schultz, S. C., Zanarini, M. C., Bateman, A., et al. (2008) Olanzapine for the treatment of borderline personality disorder: a variable-dose, 12-week, randomized, double-blind, placebo-controlled study. *British Journal of Psychiatry*, 193, 485-492.

SIMPSON2004 (Published Data Only)

Simpson, E. B., Yen, S., Costello, E., et al. (2004) Combined dialectical behavior therapy and fluoxetine in the treatment of borderline personality disorder. *Journal of Clinical Psychiatry*, 65, 379-385.

SOLER2005 (Published Data Only)

Soler, J., Pascual, J. C., Campins, J., et al. (2005) Double-blind, placebo-controlled study of dialectical behavior therapy plus olanzapine for borderline personality disorder. *American Journal of Psychiatry*, 162, 1221-1224.

SOLOFF1989 (Published Data Only)

Soloff, P. H., George, A., Nathan, S., et al. (1989) Amitriptyline versus haloperidol in borderlines: final outcomes and predictors of response. *Journal of Clinical Psychopharmacology*, 9, 238-246.

SOLOFF1993 (Published Data Only)

Soloff, P. H., Cornelius, J., George, A., et al. (1993) Efficacy of phenelzine and haloperidol in borderline personality disorder. Archives of General Psychiatry, 50, 377-385.

TRITT2003 (Published Data Only)

Tritt, K., Nickel, C., Lahmann, C., et al. (2003) Lamotrigine treatment of aggression in female borderline-patients: a randomized, double-blind, placebo-controlled study. Journal of Psychopharmacology, 19, 287-291.

ZANARINI2001 (Published Data Only)

Zanarini, M. C. & Frankenburg, F. R. (2001) Olanzapine treatment of female borderline personality disorder patients: a double-blind, placebo-controlled pilot study.[see comment]. Journal of Clinical Psychiatry, 62, 849-854.

ZANARINI2003 (Published Data Only)

Zanarini, M. C. & Frankenburg, F. R. (2003) Omega-3 fatty acid treatment of women with borderline personality disorder: a double-blind, placebo-controlled pilot study. American Journal of Psychiatry, 160, 167-169.

ZANARINI2004 (Published Data Only)

Zanarini, M.C., Frankenburg, F.R. & Parachini, E.A. (2004) A preliminary, randomized trial of fluoxetine, olanzapine and the olanzapine-fluoxetine combination in women with borderline personality disorder. Journal of Clinical Psychiatry, 65, 903-907

References of Excluded Studies

GOLDBERG1986 (Published Data Only)

Goldberg, S. C., Schulz, S. C., Resnick, R. J., et al. (1987) Differential prediction of response to thiothixene and placebo in borderline and schizotypal personality disorders. Psychopharmacology Bulletin, 23, 342-346.

LINKS1990 (Published Data Only)

Links, P.S., Steiner, M., Boiago, I., et al. (1990) Lithium therapy for borderline patients: preliminary findings. Journal of Personality Disorders, 4, 173-181

MONTGOMERY1983 (Published Data Only)

Montgomery, S. A., Roy, D. & Montgomery, D. B. (1983) The prevention of recurrent suicidal acts. British Journal of Clinical Pharmacology, 15 Suppl 2, 183S-188S.

PHILIPSEN2004A (Published Data Only)

Philipsen, A., Schmahl, C. & Lieb, K. (2004) Naloxone in the treatment of acute dissociative states in female patients with borderline personality disorder. Pharmacopsychiatry, 37, 196-199.

SALZMAN1995 (Published Data Only)

Salzman, C., Wolfson, A. N., Schatzberg, A., et al. (1995) Effect of fluoxetine on anger in symptomatic volunteers with borderline personality disorder. Journal of Clinical Psychopharmacology, 15, 23-29.

SERBAN1984 (Published Data Only)

Serban, G. & Siegel, S. (1984) Response of borderline and schizotypal patients to small doses of thiothixene and haloperidol. American Journal of Psychiatry, 141, 1455-1458.

Comparisons Included in this Clinical Question

inpatient care (non-comparative)
ANTIKAINEN1992
ANTIKAINEN1994
ANTIKAINEN1995

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
<p>ANTIKAINEN1992</p> <p>Study Type: non-comparative</p> <p>Study Description: investigates the efficacy of hospital treatment for severe PDs, treatment programme includes dynamic psychotherapy & psychopharmacological treatments</p> <p>Type of Analysis: completers</p> <p>Blindness: Open</p> <p>Duration (days): Mean 88 Range 21-296</p> <p>Setting: FINLAND; inpatients</p> <p>Info on Screening Process: >3 weeks on ward</p>	<p>n= 66</p> <p>Age: Mean 32 Range 15-56</p> <p>Sex: 38 males 28 females</p> <p>Diagnosis: 32% Personality Disorder by DSM-III-R</p> <p>Baseline: Mean (SD) HDRS 19.6 (7.4) BDI 13.8 (7.6) SDQ 2.1 (0.8)</p>	<p>Data Used</p> <p>Sleep disturbance quaire</p> <p>HDRS (21 items)</p> <p>BDI</p>	<p>Group 1 N= 66</p> <p>Dynamic psychotherapy - 45 min twice a week, average total no. sessions was 25 during hospital stay, patients also participated in group therapy sessions twice a week.</p>	
<p>ANTIKAINEN1994</p> <p>Study Type: non-comparative</p> <p>Study Description: aims to identify factors predicting outcome of psychiatric hospital treatment</p> <p>Type of Analysis: completers</p> <p>Blindness: Open</p> <p>Duration (days): Mean 88 Range 21-296</p> <p>Setting: FINLAND; inpatients</p>	<p>n= 66</p> <p>Age: Mean 32 Range 15-56</p> <p>Sex: 37 males 29 females</p> <p>Diagnosis: 14% Dysthymia</p> <p>29% Personality Disorder</p> <p>39% Major Depressive Disorder</p> <p>15% Adjustment disorder</p> <p>3% Substance use disorder</p> <p>Notes: diagnoses are for end of treatment</p> <p>Baseline: Mean (SD) HDRS 19.6 (7.4) BDI 13.8 (7.6)</p>	<p>Data Used</p> <p>HDRS (21 items)</p> <p>BDI</p>	<p>Group 1 N= 66</p> <p>Hospitalisation - individual and group therapy sessions twice a week, ward meetings, committees & creative activities, psychotropic medication</p>	
<p>ANTIKAINEN1995</p> <p>Study Type: non-comparative</p> <p>Study Description: follow-up</p> <p>Type of Analysis: completers</p> <p>Blindness:</p> <p>Duration (days): Mean 88 Range 21-296</p> <p>Followup: 3 years</p>	<p>n= 62</p> <p>Age: Mean 32</p> <p>Sex:</p> <p>Diagnosis: 32% Personality Disorder by DSM-III-R</p> <p>Exclusions: 20 patients lost to follow-up, 2 had died - 1</p>	<p>Data Used</p> <p>HDRS (21 items)</p> <p>BDI</p>	<p>Group 1 N= 62</p> <p>Hospitalisation - individual and group therapy sessions twice a week, ward meetings, committees & creative activities, psychotropic medication</p>	

	suicide, 1 road traffic accident			
--	----------------------------------	--	--	--

Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
JAKUBCZYK2001	no data, discussion paper
JONES1989	no data, describes model & case study

References of Included Studies

ANTIKAINEN1992 (Published Data Only)

Antikainen,R., Lehtonen,J., Koponen, H.J., et al. (1992) The effect of hospital treatment on depression and anxiety in patients with borderline personality organization. Nordic Journal of Psychiatry, 46, 399-405.

ANTIKAINEN1994 (Published Data Only)

Antikainen,R., Koponen,H.J., Lehtonen,J., et al. (1994) Factors predicting outcome of psychiatric hospital treatment in patients with borderline personality organization. Nordic Journal of Psychiatry, 48, 177-185.

ANTIKAINEN1995 (Published Data Only)

Antikainen,R., Hintikka,J., Lehtonen,J., Koponen,H., et al. (1995) A prospective three-year follow-up study of borderline personality disorder inpatients. Acta Psychiatrica Scandinavica, 92, 327-335.

References of Excluded Studies

JAKUBCZYK2001 (Published Data Only)

Jakubczyk,A., Zechowski,C. & Namyslowska,I. (2001) Treatment of adolescent borderline patients in a psychiatric unit. Archives of Psychiatry and Psychotherapy, 3, 65-72.

JONES1989 (Published Data Only)

Jones,J.M., Pearson,G.T. & Dimpero,R. (1989) Long-term treatment of the hospitalized adolescent and his family: an integrated systems-theory approach. Adolescent Psychiatry, 16, 449-472.

Appendix 16: Characteristics Table for The Clinical Question: Risk factors for suicide in people with borderline personality disorder

Comparisons Included in this Clinical Question

Adolescent general psychiatric / non specific personality disorder
BRENT1993 RUNESON1991 STONE1992 YOUNG1995

Adolescent MDD compared with BPD
HORESH2003A HORESH2003B

General psychiatric / non specific personality disorder populations
BARBER1998 YEN2004 YEN2005 ZISOOK1994

People with BPD
BRODSKY1997 FYER1988 LINKS2007 PARIS1989 SOLOFF1994

People with depression with & without comorbid BPD
CORBITT1996 SOLOFF2000

Suicidality in people with & without BPD
BERK2007

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
<p>BARBER1998</p> <p>Study Type: non-comparative</p> <p>Study Description: Interviewed psychiatric inpatients concerning aborted suicide attempts.</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Setting: US; inpatients</p> <p>Notes: Participants randomly selected on weekly basis from inpatient admissions.</p> <p>Info on Screening Process: 416; Inclusion criteria: <18 years, English speaking, able to consent & complete interview. Exclusion criteria: severe dementia, mental retardation, psychosis, severe agitation</p>	<p>n= 135</p> <p>Age: Mean 38</p> <p>Sex: 66 males 69 females</p> <p>Diagnosis:</p> <p>40% Major Depressive Disorder</p> <p>27% Schizophrenia</p> <p>15% Bipolar II disorder</p> <p>18% Drug/alcohol abuse/dependence</p> <p>13% BPD</p> <p>Notes: ETHNICITY: 56% white, 20% black, 19% hispanic, 6% asian or other.</p>	<p>Data Used</p> <p>Risk factors applicable to clinical question</p>	<p>Group 1 N= 135</p> <p>Not applicable in this study design</p>	
<p>BERK2007</p> <p>Study Type: observational study</p> <p>Study Description: compared recent suicide attempters with & without BPD</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Setting: US; indivs presenting to emergency dept of hosp having made suicide attempt</p> <p>Info on Screening Process: Exclusions: <16 years, unable to understand study procedures/give informed consent, signif medical condition that would limit participation, unable to provide at least 2 contacts to aid in</p>	<p>n= 180</p> <p>Age: Mean 34 Range 18-64</p> <p>Sex: 77 males 103 females</p> <p>Diagnosis:</p> <p>36% BPD by DSM-IV</p> <p>Notes: ETHNICITY: 63% African-American, 228% White, 9% Latino, Asian American, Native American or unspecified</p>	<p>Data Used</p> <p>Risk factors applicable to clinical question</p>	<p>Group 1 N= 180</p> <p>Not applicable in this study design</p>	

<p>follow-ups.</p> <p>BRENT1993</p> <p>Study Type: observational study</p> <p>Study Description: suicide attempters (37) compared with never suicidal patients (29)</p> <p>Type of Analysis: completers</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Setting: US; inpatients</p> <p>Info on Screening Process: 98; suicide attempters must have made attempt within year of admission, all participants had to have 1 parent who was cooperative & available for interview; other exclusion criteria: IQ <70, delirium, psychosis, chronic medical illness, eating disorders</p>	<p>n= 66</p> <p>Age: Mean 16 Range 13-19</p> <p>Sex: 40 males 26 females</p> <p>Diagnosis:</p> <p>21% BPD by DSM-III-R</p> <p>20% Narcissistic PD by DSM-III-R</p> <p>12% Histrionic PD by DSM-III-R</p> <p>35% Passive-aggressive by DSM-III-R</p> <p>36% Avoidant PD by DSM-III-R</p> <p>20% OCPD by DSM-III-R</p> <p>61% Major Depressive Disorder by DSM-III-R</p> <p>21% Bipolar spectrum disorder by DSM-III-R</p> <p>19% Dysthymia by DSM-III-R</p> <p>34% Substance abuse by DSM-III-R</p> <p>63% Conduct Disorder by DSM-III-R</p> <p>20% ADHD by DSM-III-R</p> <p>32% Anxiety disorder by DSM-III-R</p> <p>7% Schizoid PD by DSM-III-R</p> <p>6% Schizotypal by DSM-III-R</p> <p>20% Paranoid PD by DSM-III-R</p> <p>Notes: ETHNICITY: 88% white</p>	<p>Data Used</p> <p>Risk factors applicable to clinical question</p>	<p>Group 1 N= 66</p> <p>Not applicable in this study design</p>	
<p>BRODSKY1997</p> <p>Study Type: observational study</p> <p>Study Description: tested hypothesis that impulsivity & childhood trauma would be associated with suicidal behav.</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Setting: US; inpatients</p> <p>Info on Screening Process: exclusions: <18 or >60 years, diagnosis of organic brain syndrome, major depression with psychotic</p>	<p>n= 214</p> <p>Age:</p> <p>Sex:</p> <p>Diagnosis:</p> <p>100% BPD by DSM-III-R</p>	<p>Data Used</p> <p>Risk factors applicable to clinical question</p>	<p>Group 1 N= 214</p> <p>Not applicable in this study design</p>	

<p>features, schizophrenia, major medical illness, organic mental disorders, IQ >80.</p>				
<p>CORBITT1996</p> <p>Study Type: observational study</p> <p>Study Description: investigated relationship between PDs & suicidal behaviour in patients with MDD</p> <p>Type of Analysis: n/a</p> <p>Blindness: na/</p> <p>Duration (days):</p> <p>Setting: US; inpatients</p> <p>Info on Screening Process: inclusion criteria: 18-80 years, meet criteria for MDD; exclusion criteria: major medical illness, organic mental disorder, IQ <80</p>	<p>n= 102</p> <p>Age: Mean 35 Range 18-64</p> <p>Sex: 46 males 56 females</p> <p>Diagnosis:</p> <p>34% Major depressive episode by DSM-IIIIR</p> <p>66% Major Depressive Disorder by DSM-IIIIR</p> <p>29% BPD by Personality Disorder Examination</p> <p>17% Cluster B by Personality Disorder Examination</p> <p>Notes: ETHNICITY; 78% white, 21% african-american</p>	<p>Data Used</p> <p>Risk factors applicable to clinical question</p>	<p>Group 1 N= 102</p> <p>Not applicable in this study design</p>	
<p>FYER1988</p> <p>Study Type: observational study</p> <p>Study Description: compares rate of suicide attempts in BPD patients with affective disorders, substance use disorders & both.</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Info on Screening Process: 234; inclusion criteria: met diagnosis for BPD by chart review</p>	<p>n= 180</p> <p>Age: Mean 29 Range 18-45</p> <p>Sex: 34 males 146 females</p> <p>Diagnosis:</p> <p>100% BPD by DSM-III</p> <p>70% Substance abuse by DSM-III</p> <p>65% Affective disorder by DSM-III</p>	<p>Data Used</p> <p>Risk factors applicable to clinical question</p>	<p>Group 1 N= 180</p> <p>Not applicable in this study design</p>	
<p>HORESH2003A</p> <p>Study Type: observational study</p> <p>Study Description: reports on suicidality in 20 MDD & 20 BPD adolescents referred to clinic compared to 20 non-psychiatric community controls with no suicide attempts</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Setting: ISRAEL; outpatients</p> <p>Info on Screening Process: exclusions: lack of knowledge of Hebrew, mental retardation. BPD patients with comorbid depressive disorder also excluded</p>	<p>n= 60</p> <p>Age: Mean 17</p> <p>Sex: 27 males 33 females</p> <p>Diagnosis:</p> <p>33% BPD by DSM-IV</p> <p>33% Major Depressive Disorder by DSM-IV</p> <p>15% Anxiety disorder by DSM-IV</p> <p>15% Eating disorder by DSM-IV</p> <p>3% Oppositional defiant disorder by DSM-IV</p>	<p>Data Used</p> <p>Risk factors applicable to clinical question</p>	<p>Group 1 N= 60</p> <p>Not applicable in this study design</p>	
<p>HORESH2003B</p>				

<p>Study Type: observational study</p> <p>Study Description: compared adolescents with MDD to those with BPD, 50% MDD & 52% BPD made recent suicide attempt</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Setting: ISRAEL; inpatients</p> <p>Info on Screening Process: exclusion criteria: substance abuse, mental retardation, lack of knowledge of Hebrew, refusal to participate</p>	<p>n= 65</p> <p>Age: Mean 15 Range 13-18</p> <p>Sex: 15 males 50 females</p> <p>Diagnosis: 51% BPD by DSM-IV</p> <p>49% Major Depressive Disorder by DSM-IV</p>	<p>Data Used</p> <p>Risk factors applicable to clinical question</p>	<p>Group 1 N= 65</p> <p>Not applicable in this study design</p>	
<p>LINKS2007</p> <p>Study Type: prospective</p> <p>Study Description: investigated whether various elements of affective instability can predict suicide ideation in BPD patients</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days): Mean 21</p> <p>Setting: CANADA; outpatients</p> <p>Info on Screening Process: inclusion: 18-65 years, BPD, 2+ lifetime suicide attempts with 1 in last 2 years; exclusions: current maj dep episode, psychosis, substance dependence, cyclothymic disorder, or bipolar, low levels intell func, dementia, neurological or visual impairment.</p>	<p>n= 82</p> <p>Age: Mean 34</p> <p>Sex: 14 males 68 females</p> <p>Diagnosis: 100% BPD by SCID-II</p>	<p>Data Used</p> <p>Risk factors applicable to clinical question</p>	<p>Group 1 N= 82</p> <p>Not applicable in this study design</p>	
<p>PARIS1989</p> <p>Study Type: quasi-prospective</p> <p>Study Description: Followed-up BPD patients after 15 years and compared 14 who had committed suicide with 100 who had not.</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Followup: 15 years</p>	<p>n= 322</p> <p>Age:</p> <p>Sex: no information</p> <p>Diagnosis: 100% BPD by DIB</p> <p>61% Major Depressive Disorder by DSM-III</p> <p>Exclusions: 157 could not be located at follow-up, 43 refused to be interviewed, 22 were dead, 14 of these committed suicide</p>	<p>Data Used</p> <p>Risk factors applicable to clinical question</p>	<p>Group 1 N= 322</p> <p>Not applicable in this study design</p>	
<p>RUNESON1991</p> <p>Study Type: retrospective</p> <p>Study Description: 58 consecutive suicides committed between 1984-1987 were investigated retrospectively through interviews with relatives & analyses of medical records</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Setting: SWEDEN</p>	<p>n= 58</p> <p>Age: Mean 23 Range 15-29</p> <p>Sex: 15 males 43 females</p> <p>Diagnosis: 33% BPD by DSM-III-R</p> <p>47% Substance abuse by DSM-III-R</p>	<p>Data Used</p> <p>Risk factors applicable to clinical question</p>	<p>Group 1 N= 58</p> <p>Not applicable in this study design</p>	

	<p>22% Alcohol misuse by DSM-III-R</p> <p>41% Major Depressive Disorder by DSM-III-R</p> <p>16% ASPD by DSM-III-R</p> <p>14% Schizophrenia by DSM-III-R</p> <p>14% Adjustment disorder by DSM-III-R</p>			
<p>SOLOFF1994</p> <p>Study Type: observational study</p> <p>Study Description: BPD patients with histories of self-mutilation compared to those with no self-mutilation.</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Setting: US; inpatients</p>	<p>n= 108</p> <p>Age: Mean 27</p> <p>Sex: 26 males 82 females</p> <p>Diagnosis: 100% BPD by DIB</p> <p>Notes: ETHNICITY: 83% caucasian</p>	<p>Data Used</p> <p>Risk factors applicable to clinical question</p>	<p>Group 1 N= 108</p> <p>Not applicable in this study design</p>	
<p>SOLOFF2000</p> <p>Study Type: observational study</p> <p>Study Description: compared suicidal behaviour in patients with BPD, MDD & BPD+MDD</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Setting: US; inpatients</p> <p>Info on Screening Process: exclusion criteria: psychotic disorders, organic mood disorders, bipolar disorder.</p>	<p>n= 158</p> <p>Age: Mean 32 Range 18-83</p> <p>Sex: 56 males 102 females</p> <p>Diagnosis: 51% BPD by SCID (DSM-III-R)</p> <p>49% Major depressive episode by SCID (DSM-III-R)</p> <p>Notes: ETHNICITY: 81% caucasian, 19% non-caucasian</p>	<p>Data Used</p> <p>Risk factors applicable to clinical question</p>	<p>Group 1 N= 158</p> <p>Not applicable in this study design</p>	
<p>STONE1992</p> <p>Study Type: observational study</p> <p>Study Description: followed-up inpatients, reports 9 adolescent suicides</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Followup: 16.5 years (age)</p> <p>Setting: US; inpatients</p>	<p>n= 9</p> <p>Age: Mean 17 Range 14-19</p> <p>Sex: 4 males 5 females</p> <p>Diagnosis: 56% BPD by DSM-III</p> <p>44% Psychotic disorder</p>	<p>Data Used</p> <p>Risk factors applicable to clinical question</p>	<p>Group 1 N= 9</p> <p>Not applicable in this study design</p>	
<p>YEN2004</p> <p>Study Type: prospective</p> <p>Study Description: Collaborative Longitudinal PD study, multisite, naturalistic, prospective study of 4 PDs inc BPD & comparison group with MDD.</p> <p>Type of Analysis: n/a</p>	<p>n= 621</p> <p>Age: Range 18-45</p> <p>Sex:</p> <p>Diagnosis:</p>	<p>Data Used</p> <p>Risk factors applicable to clinical question</p>	<p>Group 1 N= 621</p> <p>Not applicable in this study design</p>	

<p>Blindness: n/a</p> <p>Duration (days):</p> <p>Followup: 2 years</p> <p>Info on Screening Process: inclusion criteria: diagnosis of PD or MDD</p>				
<p>YEN2005</p> <p>Study Type: prospective</p> <p>Study Description: Collaborative Longitudinal PD study: multisite, naturalistic prospective study of 4 PDs inc BPD</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Followup: 2 years</p> <p>Info on Screening Process: exclusion criteria: acute substance intoxication/withdrawal, active psychosis, cognitive impairment, history of schizophrenia, schizophreniform, schizoaffective disorders</p>	<p>n= 489</p> <p>Age: Range 18-45</p> <p>Sex:</p> <p>Diagnosis:</p>	<p>Data Used</p> <p>Risk factors applicable to clinical question</p>	<p>Group 1 N= 489</p> <p>Not applicable in this study design</p>	
<p>YOUNG1995</p> <p>Study Type: observational study</p> <p>Study Description: interviewed families of adolescents admitted to treatment unit & compared 21 BPD with 34 non-BPD cases</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Setting: US; inpatients</p> <p>Info on Screening Process: 71; 16 excluded due to transfer, mental incapacity or parents refusal to participate</p>	<p>n= 55</p> <p>Age: Mean 16 Range 14-18</p> <p>Sex: 26 males 29 females</p> <p>Diagnosis:</p> <p>38% BPD by DSM-IIIIR</p> <p>9% Narcissistic PD by DSM-IIIIR</p> <p>4% ASPD by DSM-IIIIR</p> <p>35% PD NOS by DSM-IIIIR</p>	<p>Data Used</p> <p>Risk factors applicable to clinical question</p>	<p>Group 1 N= 55</p> <p>Not applicable in this study design</p>	
<p>ZISOOK1994</p> <p>Study Type: prospective</p> <p>Study Description: 1000 intakes to outpatient clinic screened for past suicide attempts & present suicide ideation & diagnosed.</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Setting: US; outpatients</p> <p>Info on Screening Process: 1000</p>	<p>n= 100</p> <p>Age: Mean 34</p> <p>Sex: 480 males 520 females</p> <p>Diagnosis:</p> <p>18% Major Depressive Disorder by DSM-IIIIR</p> <p>10% Dysthymia by DSM-IIIIR</p> <p>4% Bipolar II disorder by DSM-IIIIR</p> <p>15% Schizophrenia by DSM-IIIIR</p> <p>6% Drug/alcohol abuse/dependence by DSM-IIIIR</p>	<p>Data Used</p> <p>Risk factors applicable to clinical question</p>	<p>Group 1 N= 100</p> <p>Not applicable in this study design</p>	

	5% Anxiety disorder by DSM-III-R			
	7% BPD by DSM-III-R			

Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
CHANCE2000	not relevant
CRUMLEY1981	did not look at specific risk factors
FRIEDMAN1987	did not look at specific risk factors, describes 2 case studies

References of Included Studies

- BARBER1998** (Published Data Only)
Barber, M.E., Marzuk, P., M., Leon, A.C., et al. (1998) Aborted suicide attempts: a new classification of suicidal behavior. *American Journal of Psychiatry*, 155, 385-389.
- BERK2007** (Published Data Only)
Berk, M.S., Jeglic, E., Brown, G.K., Henriques, G.R., et al. (2007) Characteristics of recent suicide attempters with and without borderline personality disorder. *Archives of Suicide Research*, 11, 91-104.
- BRENT1993** (Published Data Only)
Brent, D.A., Johnson, B., Bartle, S., Bridge, J., et al. (1993) Personality disorder, tendency to impulsive violence, and suicidal behavior in adolescents. *Journal of the American Academy of Child and Adolescent Psychiatry*, 32, 69-75.
- BRODSKY1997** (Published Data Only)
Brodsky, B.S., Malone, K.M., Ellis, S.P., et al. (1997) Characteristics of borderline personality disorder associated with suicidal behavior. *American Journal of Psychiatry*, 154, 1715-1719.
- CORBITT1996** (Published Data Only)
Corbitt, E.M., Malone, K.M., Haas, G.L., et al. (1996) Suicidal behavior in patients with major depression and comorbid personality disorders. *Journal of Affective Disorders*, 39, 61-72.
- FYER1988** (Published Data Only)
Fyer, M.R., Frances, A.J., Sullivan, T., et al. (1988) Suicide attempts in patients with borderline personality disorder. *American Journal of Psychiatry*, 145, 737-739.
- HORESH2003A** (Published Data Only)
Horesh, N., Sever, J., & Apter, A. (2003) A comparison of life events between suicidal adolescents with major depression and borderline personality disorder. *Comprehensive Psychiatry*, 44, 277-283.
- HORESH2003B** (Published Data Only)
Horesh, N.; Orbach, I., Gothelf, D., et al. (2003) Comparison of the suicidal behavior of adolescent inpatients with borderline personality disorder and major depression. *Journal of Nervous and Mental Disease*, 191, 582-588.
- LINKS2007** (Published Data Only)
Links, P.S., Eynan, R., Heisel, M.J., et al. (2007) Affective instability and suicidal ideation and behavior in patients with borderline personality disorder. *Journal of Personality Disorders*, 21, 72-86.
- PARIS1989** (Published Data Only)
Paris, J., Nowlis, D. & Brown, R. (1989) Predictors of suicide in borderline personality disorder. *Canadian Journal of Psychiatry - Revue Canadienne de Psychiatrie*, 34, 8-9.
- RUNESON1991** (Published Data Only)
Runeson, B. & Beskow, J. (1991) Borderline personality disorder in young Swedish suicides. *Journal of Nervous and Mental Disease*, 179, 153-156.
- SOLOFF1994** (Published Data Only)
Soloff, P.H., Lis, J.A., Kelly, T., et al. (1994) Self-mutilation and suicidal behavior in borderline personality disorder. *Journal of Personality Disorders*, 8, 257-267.
- SOLOFF2000** (Published Data Only)
Soloff, P.H., Lynch, K.G., Kelly, T.M., et al. (2000) Characteristics of suicide attempts of patients with major depressive episode and borderline personality disorder: a comparative study. *American Journal of Psychiatry*, 157, 601-608.

STONE1992 (Published Data Only)

Stone,M.H. (1992) Suicide in borderline and other adolescents. *Adolescent Psychiatry*, 18, 289-305.

YEN2004 (Published Data Only)

Yen,S., Shea,M.T., Sanislow,C.A., et al. (2004) Borderline personality disorder criteria associated with prospectively observed suicidal behavior. *American Journal of Psychiatry*, 161, 1296-1298.

YEN2005 (Published Data Only)

Yen,S., Pagano,M.E., Shea,M.T., et al. (2005) Recent life events preceding suicide attempts in a personality disorder sample: findings from the collaborative longitudinal personality disorders study. *Journal of Consulting and Clinical Psychology*, 73, 99-105.

YOUNG1995 (Published Data Only)

Young,D.W. & Gunderson,J.G. (1995) Family images of borderline adolescents. *Psychiatry: Interpersonal and Biological Processes*, 58, 164-172

ZISOOK1994 (Published Data Only)

Zisook,S., Goff,A., Sledge,P., et al. (1994) Reported suicidal behavior and current suicidal ideation in a psychiatric outpatient clinic. *Annals of Clinical Psychiatry*, 6, 27-31.

References of Excluded Studies

CHANCE2000 (Published Data Only)

Chance,S.E., Bakeman,R., Kaslow,N.J., et al. (2000) Core conflictual relationship themes in patients diagnosed with borderline personality disorder who attempted, or who did not attempt, suicide. *Psychotherapy Research*, 10, 337-355.

CRUMLEY1981 (Published Data Only)

Crumley,F.E. (1981) Adolescent suicide attempts and borderline personality disorder: clinical features. *Southern Medical Journal*, 74, 546-549.

FRIEDMAN1987 (Published Data Only)

Friedman,R.C. & Corn,R. (1987) Suicide and the borderline depressed adolescent and young adult. *Journal of American Academy of Psychoanalysis*, 15, 429-448.

© NCCMH. All rights reserved.

Appendix 16: Characteristics Table for The Clinical Question: Stability of the diagnosis of BPD in young people ^{NCCMH}

Comparisons Included in this Clinical Question

Children with disruptive and/or emotional disorders followed-up.
FISCHER2002
HELGELAND2005
HELLGREN1994
RAMKLINT2003
REY1995

Prospective short follow-up studies of BPD.
CHANEN2004
GARNET1994
MEIJER1998

Quasi-prospective studies of developmental antecedents of BPD.
HELGELAND2004
LOFGREN1991
ZELKOWITZ2007

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
<p>CHANEN2004</p> <p>Study Type: prospective</p> <p>Study Description: 2 year prospective study of young people with personality disorder</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Followup: 2 years</p> <p>Setting: AUSTRALIA; outpatients</p> <p>Info on Screening Process: 147 invited to participate, 46 declined</p>	<p>n= 101</p> <p>Age: Range 15-18</p> <p>Sex: 37 males 64 females</p> <p>Diagnosis:</p> <p>24% Mood disorder by DSM-IV</p> <p>31% Anxiety disorder by DSM-IV</p> <p>16% Substance abuse by Composite International Diagnostic Interview (CIDI)</p> <p>11% Disruptive behaviour disorder by DSM-IV</p> <p>7% Eating disorder by DSM-IV</p> <p>4% Somatoform disorder by DSM-IV</p> <p>3% Paranoid PD by SCID-II</p> <p>3% Schizoid PD by SCID-II</p> <p>2% Schizotypal by SCID-II</p> <p>6% ASPD by SCID-II</p> <p>11% BPD by SCID-II</p> <p>1% Histrionic PD by SCID-II</p> <p>2% Narcissistic by SCID-II</p> <p>10% Avoidant PD by SCID-II</p> <p>4% OCPD by SCID-II</p> <p>8% Passive-aggressive by SCID-II</p> <p>10% Depressive PD by SCID-II</p>	<p>Data Used</p> <p>% meeting BPD diagnosis</p>	<p>Group 1 N= 101</p> <p>Not applicable in this study design</p>	

	<p>38% PD NOS by SCID-II</p> <p>Exclusions: 4 participants lost to follow-up, 1 could not be contacted, 1 refused to participate, 2 failed to attend interview</p>			
<p>FISCHER2002</p> <p>Study Type: prospective</p> <p>Study Description: followed-up hyperactive children & community controls & assessed PDs in adolescence/adulthood</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Followup: 14 years (mean)</p> <p>Setting: US; community sample</p> <p>Info on Screening Process: at childhood entry to study participants had to have IQ>80, be free of gross sensory or motor abnormalities & be biological offspring of current parents/adopted shortly after birth.</p>	<p>n= 239</p> <p>Age: Range 4-12</p> <p>Sex: 217 males 22 females</p> <p>Diagnosis:</p> <p>66% Hyperactive</p> <p>Exclusions: 19 participants lost at follow-up</p> <p>Notes: ETHNICITY: 94% white, 5% black, 1% hispanic</p>	<p>Data Used</p> <p>% meeting BPD diagnosis</p>	<p>Group 1 N= 239</p> <p>Not applicable in this study design</p>	
<p>GARNET1994</p> <p>Study Type: prospective</p> <p>Study Description: inpatients with BPD followed up 2 years following discharge and symptoms reassessed.</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Followup: 2 years</p> <p>Setting: US; inpatients</p>	<p>n= 21</p> <p>Age: Mean 17 Range 15-19</p> <p>Sex: 10 males 11 females</p> <p>Diagnosis:</p> <p>100% BPD by Personality Disorder Examination</p> <p>86% Major Depressive Disorder by DSM-III-R</p> <p>43% Dysthymia by DSM-III-R</p> <p>52% Conduct Disorder by DSM-III-R</p>	<p>Data Used</p> <p>% meeting BPD diagnosis</p>	<p>Group 1 N= 21</p> <p>Not applicable in this study design</p>	
<p>HELGELAND2004</p> <p>Study Type: quasi-prospective</p> <p>Study Description: baseline diagnoses determined on basis of medical records & follow-up interview after 28 years.</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Followup: 28 years</p> <p>Setting: NORWAY;</p> <p>Info on Screening Process: 1018, exclusions: organic brain syndrome, no diagnosis given, people who were unavailable at follow-up or did not want to participate</p>	<p>n= 148</p> <p>Age: Mean 15</p> <p>Sex: 77 males 71 females</p> <p>Diagnosis:</p> <p>19% BPD by DSM-IV</p> <p>Exclusions: 13 with diagnosis of schizophrenia at follow-up, 3 participants whos hospital records could not be traced</p> <p>Notes: Age at baseline for 132 included in final sample,</p>	<p>Data Used</p> <p>% meeting BPD diagnosis</p>	<p>Group 1 N= 148</p> <p>Not applicable in this study design</p>	

<p>HELGELAND2005</p> <p>Study Type: quasi-prospective</p> <p>Study Description: followe-up adolescents who were admitted to adolescent unit with emotional/disruptive disorders. Baseline diagnoses made on basis of hospital records</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Followup: 28 years</p> <p>Setting: NORWAY; inpatients</p> <p>Info on Screening Process: 1018, participants excluded if they could not be identified/located, did not agree to take part or did not attend interview</p>	<p>n= 148</p> <p>Age: Mean 15</p> <p>Sex: 77 males 71 females</p> <p>Diagnosis:</p> <p>38% Anxiety disorder by DSM-IV</p> <p>36% Major depression or dysthymia by DSM-IV</p> <p>16% Eating disorder by DSM-IV</p> <p>9% Somatoform disorder by DSM-IV</p> <p>2% Elimination disorder by DSM-IV</p> <p>82% Conduct Disorder by DSM-IV</p> <p>7% Oppositional defiant disorder by DSM-IV</p> <p>6% Psychoactive substance use disorder by DSM-IV</p> <p>4% Adjustment disorder by DSM-IV</p> <p>1% ADHD by DSM-IV</p> <p>Exclusions: 13 participants who received diagnosis of schizophrenia at follow up</p>	<p>Data Used</p> <p>% meeting BPD diagnosis</p>	<p>Group 1 N= 148</p> <p>Not applicable in this study design</p>	
<p>HELLGREN1994</p> <p>Study Type: prospective</p> <p>Study Description: followed up children who had deficits in attention, motor control & perception</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Followup: 9 years</p> <p>Setting: SWEDEN</p> <p>Info on Screening Process: 141, excluded if they did not have attention, motor control or perception or if they were diagnosed with mental retardation</p>	<p>n= 112</p> <p>Age: Mean 7</p> <p>Sex: 71 males 41 females</p> <p>Diagnosis:</p> <p>38% Motor control/perception dysfunc + ADHD</p> <p>6% Motor control/perception dysfunc</p> <p>11% ADHD</p> <p>Exclusions: 11 failed to participate at follow-up either because they had moved away or because they declined participation in the study.</p>	<p>Data Used</p> <p>% meeting BPD diagnosis</p>	<p>Group 1 N= 112</p> <p>Not applicable in this study design</p>	
<p>LOFGREN1991</p> <p>Study Type: quasi-prospective</p> <p>Study Description: followed-up children who had been diagnosed as borderline</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Followup: 10-20 years</p>	<p>n= 19</p> <p>Age: Range 6-10</p> <p>Sex: 14 males 5 females</p> <p>Diagnosis:</p> <p>100% BPD by Bemporad criteria</p>	<p>Data Used</p> <p>% meeting BPD diagnosis</p>	<p>Group 1 N= 19</p> <p>Not applicable in this study design</p>	

<p>Info on Screening Process: 32 children identified as borderline, excluded if they could not be located at follow up.</p>				
<p>MEIJER1998</p> <p>Study Type: prospective</p> <p>Study Description: inpatients followed up 3 years later</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Followup: 3 years</p> <p>Setting: NETHERLANDS; inpatients</p>	<p>n= 54</p> <p>Age: Mean 15 Range 12-17</p> <p>Sex: 27 males 27 females</p> <p>Diagnosis:</p> <p>31% BPD by DIB</p> <p>35% Major depression or dysthymia by DSM-III-R</p> <p>24% Conduct Disorder by DSM-III-R</p> <p>17% Psychotic disorder by DSM-III-R</p> <p>24% PD other than BPD by DSM-III-R</p> <p>Exclusions: exclusion criteria: severe psychotic or autistic symptomatology, follow-up interval <24months, >18 at baseline, unable to locate, unwilling to cooperate. 36 participants were follow-ed up.</p> <p>Notes: Ages are for 36 participants followed-up</p>	<p>Data Used</p> <p>% meeting BPD diagnosis</p>	<p>Group 1 N= 54</p> <p>Not applicable in this study design</p>	
<p>RAMKLINT2003</p> <p>Study Type: quasi-prospective</p> <p>Study Description: followed up group of in child/adolescent inpatients. Baseline diagnoses obtained from medical records</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Followup: 16 years (mean)</p> <p>Setting: SWEDEN</p> <p>Info on Screening Process: 378, participants who could not be contacted, did not respond, failed to complete quaire correctly were excluded</p>	<p>n= 158</p> <p>Age: Mean 14</p> <p>Sex: 63 males 95 females</p> <p>Diagnosis:</p> <p>18% Major Depressive Disorder by DSM-IV</p> <p>27% Drug/alcohol abuse/dependence by DSM-IV</p> <p>48% Disruptive disorder by DSM-IV</p>	<p>Data Used</p> <p>% meeting BPD diagnosis</p>	<p>Group 1 N= 158</p> <p>Not applicable in this study design</p>	
<p>REY1995</p> <p>Study Type: quasi-prospective</p> <p>Study Description: followed-up young adults who had been diagnosed with disruptive/emotional disorders in adolescence.</p> <p>Type of Analysis: n/a</p> <p>Blindness: n/a</p> <p>Duration (days):</p> <p>Followup: 14 years</p> <p>Setting: AUSTRALIA</p> <p>Info on Screening Process: 370, excluded if had diagnosis of major depression, or >1 diagnosis (except ADHD & CD), also if could</p>	<p>n= 145</p> <p>Age: Mean 14 Range 12-16</p> <p>Sex: 81 males 64 females</p> <p>Diagnosis:</p> <p>8% ADHD by DSM-III</p> <p>13% Oppositional defiant disorder by DSM-III</p> <p>17% Conduct Disorder by DSM-III</p> <p>10% ADHD & CD by DSM-III</p>	<p>Data Used</p> <p>% meeting BPD diagnosis</p>	<p>Group 1 N= 145</p> <p>Not applicable in this study design</p>	

not be located or did not attend interview	8% Adjustment disorder with disturbed conduct by DSM-III 14% Separation anxiety by DSM-III 8% Other anxiety disorders by DSM-III 12% Dysthymia by DSM-III 11% Adjustment disorder with mixed emotional features by DSM-III			
ZELKOWITZ2007 Study Type: quasi-prospective Study Description: followed-up children who had been treated in day hospital, baseline diagnosis established by reviewing medical charts Type of Analysis: n/a Blindness: n/a Duration (days): Followup: 5-7 years Setting: CANADA	n= 59 Age: Mean 16 Range 12-20 Sex: 48 males 11 females Diagnosis: 9% BPD by K-SADS-PL 23% Major Depressive Disorder by K-SADS-PL 36% ADHD by K-SADS-PL 12% Oppositional defiant disorder by K-SADS-PL 48% Conduct Disorder by K-SADS-PL 11% Hallucinations by K-SADS-PL 11% Delusions by K-SADS-PL Notes: Ages & diagnoses at follow-up.	Data Used % meeting BPD diagnosis	Group 1 N= 59 Not applicable in this study design	

Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
BAILLIE2006	no data, CIC study
BERNSTEIN1993	CIC study
BERNSTEIN1996	CIC study
BEZIRGANIAN1993	CIC study
BRIEGER2001	no BPD data (PD general only)
BURGE1997	no data for BPD (PD general only)
CHEN2004	CIC study
COHEN1996	CIC study
COHEN2005	CIC study
COHEN2007	CIC study
CRAWFORD2001A	CIC study
CRAWFORD2001B	CIC study
CRAWFORD2005	CIC study

DALEY1999	no useable data
DALEY2006	no BPD data (Cluster B only)
GOODWIN2005	CIC study
GRILO2001	no useable data
JAMES1996	not a prospective or quasi-prospective study
JOHNSON1999A	CIC study
JOHNSON1999B	CIC study
JOHNSON2000	CIC study
JOHNSON2000B	CIC study
JOHNSON2006B	CIC study
KASEN1999	CIC study
KORENBLUM1990	no BPD data (Cluster B only)
LENZENWEGER2005	no useable data
LEVY1999	no BPD data (PD general only)
LEWINSOHN1997	too few BPD participants - only 1.3%
MANZANO1994	no data for BPD (PD general only)
MARTON1987	no data for BPD (PD general only)
SEGAL-TRIVITZ2006	not a prospective or quasi-prospective study
THATCHER2005	no useable data
THOMSEN1990	no data for BPD (PD general only)

References of Included Studies

- CHANEN2004** (Published Data Only)
 Chanen,A.M., Jackson,H.J., McGorry,P.D., et al. (2004) Two-year stability of personality disorder in older adolescent outpatients. *Journal of Personality Disorders*, 18, 526-541.
- FISCHER2002** (Published Data Only)
 Fischer,M., Barkley,R.A., Smallish,L., et al. (2002) Young adult follow-up of hyperactive children. *Journal of Abnormal Child Psychology*, 30, 463-475.
- GARNET1994** (Published Data Only)
 Garnet,K.E., Levy,K.N., Mattanah,J.J., et al. (1994) Borderline personality disorder in adolescents: ubiquitous or specific? *American Journal of Psychiatry*, 151, 1380-1382.
- HELGELAND2004** (Published Data Only)
 Helgeland,M.I. & Torgersen,S. (2004) Developmental antecedents of borderline personality disorder. *Comprehensive Psychiatry*, 45, 138-147.
- HELGELAND2005** (Published Data Only)
 Helgeland,M.I., Kjelsberg,E., Torgersen,S. (2005) Continuities between emotional and disruptive behavior disorders in adolescence and personality disorders in adulthood. *American Journal of Psychiatry*, 162, 1941-1947.
- HELLGREN1994** (Published Data Only)
 Hellgren,L.; Gillberg,I.C.; Bagenholm,A., et al. (1994) Children with deficits in attention, motor control and perception (DAMP) almost grown up: psychiatric and personality disorders at age 16 years. *Journal of Child Psychology and Psychiatry and Allied Disciplines*, 35, 1255-1271.
- LOFGREN1991** (Published Data Only)
 Lofgren,D.P., Bemporad,J., King,J., et al. (1991) A prospective follow-up study of so-called borderline children. *American Journal of Psychiatry*, 148, 1541-1547.
- MEIJER1998** (Published Data Only)
 Meijer,M., Goedhart,A.W. & Treffers,P.D. (1998) The persistence of borderline personality disorder in adolescence. *Journal of Personality Disorders*, 12, 13-22.
- RAMKLINT2003** (Published Data Only)
 Ramklint,M., von Knorring, A.L., von Knorring, L., et al. (2003) Child and adolescent psychiatric disorders predicting adult personality disorder: a follow-up study. *Nordic Journal of Psychiatry*, 57, 23-28.

REY1995 (Published Data Only)

Rey,J.M., Morris-Yates,A., Singh,M., et al. (1995) Continuities between psychiatric disorders in adolescents and personality disorders in young adults. *American Journal of Psychiatry*, 152, 895-900.

ZELKOWITZ2007 (Published Data Only)

Zelkowitz,P., Paris,J., Guzder,J., et al. (2007) A five-year follow-up of patients with borderline pathology of childhood. *Journal of Personality Disorders*, 21, 664-674.

References of Excluded Studies

BAILLIE2006 (Published Data Only)

Baillie,A.J. (2006) Adolescent panic attacks are associated with increased risk of personality disorder as a young adult. *Evidenced Based Mental Health*, 9, 57.

BERNSTEIN1993 (Published Data Only)

Bernstein,D.P., Cohen,P., Velez,C.N., et al. (1993) Prevalence and stability of the DSM-III-R personality disorders in a community-based survey of adolescents. *American Journal of Psychiatry*, 150, 1237-1243.

BERNSTEIN1996 (Published Data Only)

Bernstein,D.P., Cohen,P.; Skodol,A., et al. (1996) Childhood antecedents of adolescent personality disorders. *American Journal of Psychiatry*, 153, 907-913.

BEZIRGANIAN1993 (Published Data Only)

Bezirgianian,S., Cohen,P. & Brook,J.S. (1993) The impact of mother-child interaction on the development of borderline personality disorder. *American Journal of Psychiatry*, 150, 1836-1842.

BRIEGER2001 (Published Data Only)

Brieger,P., Bloink,R., Sommer,S., et al. (2001) A catch-up study of former child and adolescent psychiatric inpatients: psychiatric status in adulthood. *Psychopathology*, 34, 43-49.

BURGE1997 (Published Data Only)

Burge,D., Hammen,C., Davila,J., et al. (1997) The relationship between attachment cognitions and psychological adjustment in late adolescent women. *Development and Psychopathology*, 9, 151-167.

CHEN2004 (Published Data Only)

Chen,H., Cohen,P., Johnson,J.G., et al. (2004) Adolescent personality disorders and conflict with romantic partners during the transition to adulthood. *Journal of Personality Disorders*, 18, 507-525.

COHEN1996 (Published Data Only)

Cohen,P. (1996) Childhood risks for young adult symptoms of personality disorder: method and substance. *Multivariate Behavioral Research*, 31, 121-148.

COHEN2005 (Published Data Only)

Cohen,P., Crawford,T.N., Johnson,J.G., et al. (2005) The children in the community study of developmental course of personality disorder. *Journal of Personality Disorders*, 19, 466-486.

COHEN2007 (Published Data Only)

Cohen,P., Chen,H., Crawford,Thomas, N., et al. (2007) Personality disorders in early adolescence and the development of later substance use disorders in the general population. *Drug and Alcohol Dependence*, 88S, S71-S84.

CRAWFORD2001A (Published Data Only)

Crawford,T.N., Cohen,P. & Brook,J.S. (2001) Dramatic-erratic personality disorder symptoms: II. Developmental pathways from early adolescence to adulthood. *Journal of Personality Disorders*, 15, 336-350.

CRAWFORD2001B (Published Data Only)

Crawford,T.N., Cohen,P. & Brook,J.S. (2001) Dramatic-erratic personality disorder symptoms: I. Continuity from early adolescence into adulthood. *Journal of Personality Disorders*, 15, 319-335.

CRAWFORD2005 (Published Data Only)

Crawford,T.N., Cohen,P., Johnson,J.G., et al. (2005) Self-reported personality disorder in the children in the community sample: convergent and prospective validity in late adolescence and adulthood. *Journal of Personality Disorders*, 19, 30-52.

DALEY1999 (Published Data Only)

Daley,S.E., Hammen,C., Burge,D., et al. (1999) Depression and Axis II symptomatology in an adolescent community sample: concurrent and longitudinal associations. *Journal of Personality Disorders*, 13, 47-59.

- DALEY2006** (Published Data Only)
Daley,S.E., Rizzo,C.J. & Gunderson,B.H. (2006) The longitudinal relation between personality disorder symptoms and depression in adolescence: the mediating role of interpersonal stress. *Journal of Personality Disorders*, 20, 354-368.
- GOODWIN2005** (Published Data Only)
Goodwin,R.D., Brook,J.S. & Cohen,P. (2005) Panic attacks and the risk of personality disorder. *Psychological Medicine*, 35, 227-235.
- GRILO2001** (Published Data Only)
Grilo,C.M., Becker,D.F., Edell,W.S., et al. (2001) Stability and change of DSM-III-R personality disorder dimensions in adolescents followed up 2 years after psychiatric hospitalization. *Comprehensive Psychiatry*, 42, 364-368.
- JAMES1996** (Published Data Only)
James,A., Berelowitz,M. & Vereker,M. (1996) Borderline personality disorder: a study in adolescence. *European Child and Adolescent Psychiatry*, 5, 11-17.
- JOHNSON1999A** (Published Data Only)
Johnson,J.G., Cohen,P., Brown,J., et al. (1999) Childhood maltreatment increases risk for personality disorders during early adulthood. *Archives of General Psychiatry*, 56, 600-606.
- JOHNSON1999B** (Published Data Only)
Johnson,J.G., Cohen,P., Skodol,A.E., et al. (1999) Personality disorders in adolescence and risk of major mental disorders and suicidality during adulthood. *Archives of General Psychiatry*, 56, 805-811.
- JOHNSON2000** (Published Data Only)
Johnson,J.G., Cohen,P., Kasen,S., et al. (2000) Age-related change in personality disorder trait levels between early adolescence and adulthood: a community-based longitudinal investigation. *Acta Psychiatrica Scandinavica*, 102, 265-275.
- JOHNSON2000B** (Published Data Only)
Johnson,J.G., Smailes,E.M., Cohen,P., et al. (2000) Associations between four types of childhood neglect and personality disorder symptoms during adolescence and early adulthood: findings of a community-based longitudinal study. *Journal of Personality Disorders*, 14, 171-187.
- JOHNSON2006B** (Published Data Only)
Johnson,J.G., Cohen,P., Chen,H., et al. (2006) Parenting behaviors associated with risk for offspring personality disorder during adulthood. *Archives of General Psychiatry*, 63, 579-587.
- KASEN1999** (Published Data Only)
Kasen,S., Cohen,P., Skodol,A.E., et al. (1999) Influence of child and adolescent psychiatric disorders on young adult personality disorder. *American Journal of Psychiatry*, 156, 1529-1535.
- KORENBLUM1990** (Published Data Only)
Korenblum,M., Marton,P., Golombek,H., et al. (1990) Personality status: changes through adolescence. *Psychiatric Clinics of North America*, 13, 389-399.
- LENZENWEGER2005** (Published Data Only)
Lenzenweger,M.F. & Desantis, C.D. (2005) Predicting change in borderline personality: using neurobehavioral systems indicators within an individual growth curve framework. *Developmental and Psychopathology*, 17, 1207-1237.
- LEVY1999** (Published Data Only)
Levy,K.N.; Becker,D.F.; Grilo,C.M., et al. (1999) Concurrent and predictive validity of the personality disorder diagnosis in adolescent inpatients. *American Journal of Psychiatry*, 156, 1522-1528.
- LEWINSOHN1997** (Published Data Only)
Lewinsohn,P.M., Rohde,P., Seeley,J.R., et al. (1997) Axis II psychopathology as a function of Axis I disorders in childhood and adolescence. *Journal of the American Academy of Child and Adolescent Psychiatry*, 36, 1752-1759.
- MANZANO1994** (Published Data Only)
Manzano,J.; Laufer,D.; Borella,E., et al. (1994) Continuity and discontinuity of psychopathology: a study of patients examined as children and as adults. III--The infancy of 'adult personality disorders'. *Schweizer Archiv fur Neurologie und Psychiatrie*, 145, 13-17
- MARTON1987** (Published Data Only)
Marton,P., Golombek,H., Stein,B., et al. (1987) Behavior disturbance and changes in personality dysfunction from early to middle adolescence. *Behavior Disturbance and Personality Dysfunction*, 14, 394-406

SEGAL-TRIVITZ2006 (Published Data Only)

Segal-Trivitz, Y., Bloch, Y., Goldburt, Y., et al. (2006) Comparison of symptoms and treatments of adults and adolescents with borderline personality disorder. *International Journal of Adolescent Medicine and Health*, 18, 215-220.

THATCHER2005 (Published Data Only)

Thatcher, D.L., Cornelius, J.R., & Clark, D.B. (2005) Adolescent alcohol use disorders predict adult borderline personality. *Addictive Behaviors*, 30, 1709-1724.

THOMSEN1990 (Published Data Only)

Thomsen, P.H. (1990) The prognosis in early adulthood of child psychiatric patients: a case register study in Denmark. *Acta Psychiatrica Scandinavica*, 81, 89-93.