

**Characteristics table for the clinical question: In the treatment of GAD, what are the risks and benefits associated with the following high intensity psychological interventions compared with other interventions (including treatment as usual)?**

**Comparisons Included in this Clinical Question**

<b>Acceptance based behavioural therapy vs. waiting list control</b> ROEMER2008	<b>Affect-focused body psychotherapy vs. TAU</b> BERG2009	<b>Analytic psychotherapy vs. anxiety management</b> Durham1994	<b>Applied relaxation vs CT + Applied relaxation</b> BARLOW1992 BORKOVEC2002
<b>Applied relaxation vs wait list control</b> BARLOW1992 DUGAS2009A	<b>Applied relaxation vs. cognitive therapy</b> OST2000	<b>Applied relaxation vs. worry exposure</b> HOYER2009	<b>Behaviour therapy vs. WLC</b> BUTLER1991
<b>Brief dynamic therapy vs. supportive therapy</b> Crits-Christoph2005	<b>Brief vs standard CBT</b> DURHAM2004	<b>CBT vs Applied relaxation</b> DUGAS2009A	<b>CBT vs other active psychological treatment</b> ARNTZ2003 BORKOVEC1993 LEICHSENRING2009 STANLEY1996
<b>CBT vs. CBT + Interpersonal therapy</b> REZVAN2008	<b>CBT vs. discussion group</b> WETHERELL2003	<b>CBT vs. enhanced usual care</b> STANLEY2009	<b>CBT vs. wait list control</b> DUGAS2009A LADOUCEUR2000 LINDEN2005 MOHLMAN2003a STANLEY2003B WETHERELL2003
<b>Cognitive therapy vs. Behaviour therapy</b> BUTLER1991	<b>CT + applied relaxation vs. WLC</b> BARLOW1992	<b>CT vs. Analytic psychotherapy</b> Durham1994	<b>CT vs. Anxiety management</b> Durham1994
<b>CT vs. CT + relaxation</b> BARLOW1992 BORKOVEC2002	<b>CT vs. WLC</b> BARLOW1992 BUTLER1991	<b>Discussion group vs. WLC</b> WETHERELL2003	<b>Group CBT vs. wait-list control</b> DUGAS2003

<b>Integrative relaxation training vs. WLC</b>
JANBOZORGI2009

<b>Meta-cognitive therapy vs. Applied relaxation</b>
WELLS2010

<b>Motivational interviewing + CBT vs. CBT alone</b>
WESTRA2009

<b>Motivational interviewing vs. WLC</b>
WESTRA2009

<b>Relaxation vs CT</b>
BARLOW1992
BORKOVEC2002

## Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
<p>Study Type: RCT</p> <p>Study Description: A comparison of CBT (6wk vs. 12) with CCBT</p> <p>Type of Analysis: ITT</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 10 Range 6-12</p> <p>Followup: 6 months</p> <p>Setting: Outpatients: Scotland and Australia</p> <p>Notes: RANDOMISATION: no details provided</p> <p>Info on Screening Process: 186 met entry criteria after screening, 23 were excluded as they failed to receive at least three sessions of their treatment. However, these were replaced</p>	<p>n= 186</p> <p>Age: Mean 37 Range 18-60</p> <p>Sex: 46 males 140 females</p> <p>Diagnosis: 100% Panic disorder by DSM-IV</p> <p>Exclusions: having a depressive disorder severe enough to require urgent treatment;undergoing CBT for their current episode; evidence of organic mental disorder, schizophrenia, asthma, epilepsy, or pregnancy or intention to become pregnant during the course of the study. Not on a stable course of medication (i.e. for at least 3 months prior to study)</p> <p>Notes: Ppts had a current episode duration of at least 3 months; were between 18-60; considered panic as primary disorder, if on medication were on a stable dose for 3 months at least</p> <p>Baseline: The majority of patients had a diagnosis of panic disorder COMORBID with agoraphobia (76.1%). Patients in Scotland had a significantly greater MEAN DURATION current episode compared with the Australian patients, 114.9 months compared with 40.2 months, F (1, 163) = 34.11, p &lt; .001. (DRUG)Significantly more of the Australian patients (46.6%) were prescribed concurrent benzodiazepines compared with Scottish patients, 14.1%, X2(1, N = 163) = 21.01, p &lt; .001.</p>	<p><b>Data Used</b></p> <p>STAI-T</p> <p>Agrophobic Cognitions Questionnaire</p> <p>Mobility Inventory</p> <p>Clinician assessed panic severity</p> <p>Remission ('panic free status')</p> <p>Social Phobia</p> <p>Fear Questionnaire</p> <p>Number of panic attacks per week</p> <p>Body Sensations Questionnaire</p> <p>Notes: 14/107 completers in active treatments were lost to follow up. All participants in each group were included in post-treatment analysis (intention-to-treat paradigm). DROP OUTS: defined as those receiving &lt; 3 sessions, those w/out adequate pre-trmt data</p>	<p><b>Group 1 N= 41</b></p> <p>Waiting-list control</p> <p><b>Group 2 N= 39</b></p> <p>Brief CBT. Mean dose 6 - 6 sessions face to face CBT</p> <p><b>Group 3 N= 42</b></p> <p>CBT. Mean dose 12 - 12 sessions face to face CBT</p> <p><b>Group 4 N= 41</b></p> <p>CBT 2. Mean dose 6 - Face to face CBT augmented with a palmtop computer programme.</p>	<p>Funding: No details provided</p>
<p><b>ARNTZ2003</b></p> <p>Study Type: RCT</p> <p>Study Description: Comparison of cognitive therapy vs. applied relaxation for long term and immediate effects in sample of 45 GAD patients representative of population.</p> <p>Type of Analysis: Completer analysis</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 84</p>	<p>n= 45</p> <p>Age: Mean 36 Range 20-60</p> <p>Sex: 15 males 30 females</p> <p>Diagnosis: 100% Generalised Anxiety Disorder (GAD) by DSM-III-R</p> <p>Exclusions: i) not having a primary diagnosis of GAD ii) not</p>	<p><b>Data Used</b></p> <p>Remission (STAI-T &lt;45 pts)</p> <p>Clinically significant change (&gt;8 on STAI-T)</p> <p>STAI-trait</p> <p><b>Data Not Used</b></p> <p>Fear Questionnaire - no data</p> <p>SCL anxiety factor - no data</p>	<p><b>Group 1 N= 25</b></p> <p>Cognitive therapy. Mean dose 12 sessions - Self-monitored &amp; challenged automatic thoughts and formulated rational thoughts in diaries, including behavioural experiments to test catastrophic beliefs. Did not involve exposure in-vivo nor relaxation training.</p>	<p>FUNDING: None declared, Quality assessed: selection bias-unclear; performance bias-unclear; attrition bias-low; detection bias-unclear. Additional booster sessions offered upon request from those with complex problems.</p>

## Anxiety (update): High intensity psychological interventions study characteristics

Followup: 6 months (extracted)

Setting: Recruited from community mental health center: Maastricht, Netherlands

Notes: RANDOMISATION: No details provided

Info on Screening Process: 47 screened, 2 excluded because they received a primary diagnosis of personality disorder

requesting treatment iii) younger than 17 or older than 70, iv) a depressive disorder preceding the current episode of GAD or requiring immediate treatment, v) receiving behaviour therapy for GAD, vi) evidence of organic mental disorder accounting for complaints, mental retardation, psychotic disorders, alcohol or drug dependence.

Notes: 22.2% had a diagnosis of GAD alone, the others also had a secondary diagnosis (46.7%). Mean duration of GAD was 8.8 yrs (range = 1-35)

Baseline: STAI-trait scale: CT = 57.5 (8.3), AR = 53.7 (10.2); AR group had lower education level (compared to CT)

Notes: Taken at baseline, 12 weeks, 1 and 6-month follow up. Follow-up data extracted at 6 months. DROP OUT: 5/25 CT (20%), 3/20 AR (15%). Therapist qualification: Trained specifically at workshops. Did not mention if they were clinical psychologists.

### Group 2 N= 20

Applied relaxation. Mean dose 12 sessions - Learned to apply relaxation skills daily & in difficult situations, identified early signs of anxiety, to use skills to counter anxiety as early as possible. Instructed to practice at least twice a day. Graduated exposure to feared situations.

Results from this paper:  
AR and CBT are similarly effective.

## BARLOW1992

Study Type: RCT

Study Description: Relaxation, CT or their combination were compared to WLC for those with GAD

Type of Analysis: Completers

Blindness: No mention

Duration (days): Mean 105

Followup: 24 months (not extractable)

Setting: Phobia and Anxiety Disorder Clinic: New York (referred by health professionals, community agencies, or self-referred)

Notes: RANDOMISATION: No details provided

Info on Screening Process: No details provided

n= 65

Age: Mean 40 Range 18-65

Sex: no information

Diagnosis:

100% Generalised Anxiety Disorder (GAD) by DSM-III-R

Exclusions: a) had begun benzodiazepines or beta-blockers within previous 3 months or tricyclics or MAO inhibitors within the previous 6 months, b) subjects on medication or currently receiving alternative psychotherapy were included in the programme provided that they maintained their current medication regimen or psychotherapy contact at a constant level throughout c) outside the ages of 18-65, d) had been drug/alcohol dependent/abusers within past 6 months, e) were currently suicidal, or showed signs of psychosis or organic brain syndrome

Notes: Only subjects meeting criteria for GAD as a principal diagnosis and for whom that diagnosis rated an ADIS-R clinical severity rating of 4 or more were included in study.

Baseline: Those in the CT group scored significantly lower on BDI than WLC and combined CT and relaxation group.

### Data Used

STAI-trait

HDRS (Hamilton depression rating scale)

ADIS-R (clinical severity)

HAMA

Fear Questionnaire

Response (20% improvement on 3/4 outcome measures)

Cognitive-Somatic Anxiety Questionnaire

Beck Depression Inventory

Notes: Taken at baseline, 15 wks. DROP OUTS: WL = 10/20 (50%), Relaxation = 6/16 (38%), Cognitive therapy = 4/17, Combined = 1/12 (8%). Follow up 6, 12, 24 - months (data not extractable).

### Group 1 N= 17

Cognitive therapy. Mean dose 15 sessions (60 mins each) - Involved 2 phases: exploration of the role of thoughts and their significance, and cognitive skills training in the form of an individualised, 10 item hierarchy.

### Group 2 N= 12

CBT. Mean dose 15 sessions (60 mins each) - Involved training in both relaxation and cognitive restructuring. More emphasis was placed in earlier sessions on relaxation with gradually greater emphasis on cognitive restructuring and application to anxiety-provoking situations.

### Group 3 N= 16

Applied relaxation. Mean dose 15 sessions (60 mins each) - Focused attention onto particular muscle groups. Home practice was required twice per day. Required to apply skills to everyday anxiety provoking situations in a graduated manner based on an individualized, 10 item hierarchy.

### Group 4 N= 20

Waiting-list control. Mean dose 15 - Required to self-monitor for 15 wks following which they were to receive treatment. They were informed that help was available in event of a crisis but no other intervention took place.

FUNDING: National Institute of Mental Health, Quality assessed: Selection: unclear; Performance: unclear; Attrition: high; Detection: low. Delivered by doctoral students or psychologists.

Results from this paper:

Treatments effective against WLC.

But treatments do not differ between each other.

Note the higher drop out rate in Applied Relaxation. Author explained it is hard to retain participants by teaching them relaxation techniques.

## BERG2009

Study Type: RCT  
 Study Description: Explored the long-term effects of affect-focused body psychotherapy for patients with GAD.  
 Type of Analysis: Intention to treat  
 Blindness: Open  
 Duration (days): Mean 365  
 Followup: 2 years (extracted)  
 Setting: Recruited from 6 outpatient clinics: Sweden  
 Notes: RANDOMISATION: Random number table  
 Info on Screening Process: 64 screened; 3 excluded due to not meetin inclusion criteria: GAD according to DSM-IV, aged 18-55 and ability to speak Swedish

n= 61  
 Age: Mean 37 Range 21-55  
 Sex: 19 males 42 females  
 Diagnosis:  
 100% Generalised Anxiety Disorder (GAD) by DSM-IV

Exclusions: a) major depressive disorder and bipolar disorder according to DSM-IV; b) with or without severe suicidal risk; c) organic brain damage; d) psychotic syndrome; e) ongoing drug or alcohol abuse; f) current pregnancy

Notes: 49 (80%) patients met DSM-IV Axis 2 criteria for at least one personality disorder. Slightly more than 70% of patients were on medication.

Baseline: No significant differences in baseline scores.

**Data Used**  
 SCL anxiety factor  
 SCL-90 General Severity index  
 Beck Anxiety Inventory  
 WHO (Ten) Well-being index  
 Notes: Taken at baseline, 1 and 2 years. Drop outs: 6/33 for ABP and 0/28 for TAU. Therapy delivered by physiotherapists.

**Group 1 N= 28**  
 Treatment as usual. Mean dose 52 weekly sessions - 11 patients given formal psychotherapy, 12 had regular but not frequent doctors visits and 5 had unsystematic treatment contacts.

**Group 2 N= 33**  
 Affect-focused body psychotherapy. Mean dose 33 weekly sessions - Integrated bodily techniques and the exploration of affects into psychodynamic frame of reference. Adhered to treatment manual throughout.

FUNDING: supported by grants from various institutions in Sweden, Quality Assessed: selection bias = unclear, performance bias = high, attrition bias = unclear, detection bias = unclear.

## BORKOVEC1993

Study Type: RCT  
 Study Description: Non-directive, applied relaxation, & CBT therapies for GAD were compared at baseline, 10-14 days after 12th session and 6 & 12-month follow up  
 Type of Analysis: Completers  
 Blindness: No mention  
 Duration (days): Mean 84  
 Followup: 6 & 12- months (extracted)  
 Setting: Recruited from agencies and advertisements: Pennsylvania, US.  
 Notes: RANDOMISATION: Assignment to therapist was random within restrictions of availability and caseload.  
 Info on Screening Process: 508 screened, 442 excluded for not meeting DSM-III-R criteria

n= 66  
 Age: Mean 38  
 Sex: 23 males 43 females  
 Diagnosis:  
 100% Generalised Anxiety Disorder (GAD) by DSM-III-R

Exclusions: 1) GAD not primary diagnosis; 2) panic disorder criteria met; 3) assessor severity was too mild (<4); 4) other psychosocial therapy ongoing; 4) reviewed methods of study previously; 5) medical conditions contributing to anxiety symptoms; 6) taking anti-depressant medication; 7) presence of severe depression, substance abuse, psychosis, and organic brain syndrome.

Notes: Average duration of problem = 17.1 (17.2) yrs. 4 clients in each therapy condition were taking anti-anxiety drugs.

Baseline: HARS: ND = 19.7 (4.3), AR = 20.8 (4), CBT = 19.4 (5.4)

**Data Used**  
 Responders (20% reduction in 75% of all scales)  
 HDRS (Hamilton depression rating scale)  
 STAI-trait  
 Assessor Severity Scale  
 Penn State Worry Questionnaire  
 Beck Depression Inventory  
 HARS (Hamilton anxiety rating scale)  
 Notes: Taken at: baseline, 10-14 days after session 12. DROP OUT: ND: 2/20, AR: 5/23, CBT: 4/23. Therapy delivered by two experienced & advanced clinical graduate students.

**Group 1 N= 20**  
 Non-directive therapy. Mean dose 12 sessions (each 90 mins) - involved exploration of life experiences, changing anxious experience & increasing self-confidence, discovering new strengths through introspection & affective experience. Guided by manual, daily homework included.

**Group 2 N= 23**  
 Applied relaxation. Mean dose 12 sessions (each 90 mins) - learned new coping tech for reducing anxiety. Guided by manual. Relaxation practice encouraged twice daily and daily diaries utilised to note early cues.

**Group 3 N= 23**  
 CBT. Mean dose 12 sessions (each 90 mins) - All procedures equal to that of AR except that the extensive time spend in discussion of early cue detection and ways of relaxing in daily life was instead devoted to self-control desensitization. Only 10-15 mins devoted to cognitive therapy per session.

FUNDING: supported in part by National Institute of Mental Health Research Grant. Quality assessed: Bias: Selection-Unclear; Performance-Unclear; Attrition-High; Detection-Low

### Results from this paper:

CBT and AR are similarly effective. They are both superior than Non-Directive therapy.

Conclusions: Suggesting relaxation technique is the core component of treatment of GAD. And that reflective listening is just non-specific factor of treatment.

## BORKOVEC2002

Study Type: RCT n= 69  
 Study Description: Comparison of applied relaxation with self-control desensitization & cognitive therapy with a combination of these methods for clients with GAD  
 Type of Analysis: Intention to treat  
 Blindness: Single blind  
 Duration (days): Mean 98  
 Followup: 6, 12, & 24 - months (all extracted)  
 Setting: 9 referred by mental health practitioners, remaining responded to media advertisement: Pennsylvania, US  
 Notes: RANDOMISATION: No details  
 Info on Screening Process: 459 screened; 383 excluded by phone screening/diagnostic interviews for not meeting admission criteria

Age: Mean 37  
 Sex: no information  
 Diagnosis: 100% Generalised Anxiety Disorder (GAD) by DSM-III-R  
 Exclusions: Did not have a principal diagnosis of GAD; had Panic Disorder; had a low assessor severity rating (<4):had concurrent psychosocial therapy, history of receiving CBT methods in prior therapy, medical contributions to anxiety, on antidepressant med, presence of severe depression, substance abuse, psychosis, and organic brain syndrome.  
 Notes: duration of the GAD diagnosis averaged 12.81yrs (12.07). Only 2 clients (1 in applied relaxation, 1 in CBT) were taking psychotropic drugs for anxiety (agreed to maintain dosage & frequency during therapy)  
 Baseline: Hamilton Anxiety: CT = 25.83 (7.73), AR= 25.04 (6.24), CBT = 23.21 (6.42)

### Data Used

Remission (not meeting diagnosis according to SCID  
 Hospital Anxiety and Depression Scale (depression)  
 STAI-trait  
 Assessor Severity Scale  
 HAMA  
 Penn State Worry Questionnaire  
 Beck Depression Inventory

Notes: Taken at baseline, 10-14 days after 14th session. DROP OUTS: 4/23 for applied relaxation, 2/23 for CT, 1/23 CBT. Delivered by doctoral therapists & advanced clinical graduate students.

### Group 1 N= 23

Cognitive therapy. Mean dose 14 weekly sessions (90-120 mins each) - based on cognitive model of anxiety. Involved training in self-monitoring and early identification of cues. Homework emphasized frequent applications of alternative perspectives and behavioural tasks to test beliefs & predictions

### Group 2 N= 23

Applied relaxation. Mean dose 14 weekly sessions (90-120 mins each) - also involved self-control desensitization, learning new coping techniques to reduce anxiety, self-monitoring, intervening with relaxation responses early, focusing attention on present moment, rehearsal of coping methods, relaxation training, homework

### Group 3 N= 23

CBT. Mean dose 14 weekly sessions (90-120 mins each) - A combination of previous 2 techniques, except that no supportive listening element was included & perspective shifts created during the Ctportions of the session were used during SCD rehearsals along with relaxation responses.

FUNDING: supported in part by NIMHRG. Quality assessed: Bias-Selection-unclear; performance-unclear; attrition-low; detection-low

### Results from this paper:

No difference found between treatments. Effort to increase therapeutic effectiveness also not successful.

## BUTLER1991

Study Type: RCT n= 57  
 Study Description: Compared Behavioural therapy & Cognitive Behavioural therapy to waiting list control for the treatment of a GAD.  
 Type of Analysis: Completer  
 Blindness: No mention  
 Duration (days): Mean 56 Range 28-84  
 Followup: 6 months (extracted)  
 Setting: Referrals from psychiatric hospital sources & general practice; Oxford, UK  
 Notes: RANDOMISATION: No details provided  
 Info on Screening Process: 161 screened, 104 excluded due to insufficient severity or duration of anxiety (38); other psychiatric diagnosis (37) and failure to attend interview (23)

Age: Mean 35  
 Sex: 8 males 49 females  
 Diagnosis: 100% Generalised Anxiety Disorder (GAD) by DSM-III-R  
 Exclusions: a) patients who experienced panic attacks if they had a primary diagnosis of panic disorder or if their GAD centered around fear of another painc attack; b) met diagnostic criteria for phobic disorder or MDD; c) if they were taking anti-depressant medication, or it they had received psychological treatment for anxiety within 2 years.  
 Baseline: no significant differences between groups

### Data Used

Remission (HAMA & BAI <10)  
 STAI-trait  
 Beck Anxiety Inventory  
 Beck Depression Inventory  
 HAMA

Notes: Taken at baseline, 12 wks & 6 month follow up; DROP OUT: CBT: none, WL = NONE, BT = 3/19. Delivered by clinical psychologists.  
 Note: Some indication CBT participants are more resistant to early relapse.

### Group 1 N= 19

Behaviour therapy. Mean dose 12 sessions over 3 months (60 mins each) - Involved reducing avoidance through graded exposure & building confidence through reengagement in pleasurable and rewarding activities

### Group 2 N= 19

Waiting-list control. Mean dose 19 weeks

### Group 3 N= 19

CBT. Mean dose 12 sessions over 3 months (60 mins each) - Activity schedules and records of dysfunctional thoughts were used to identify anxious thoughts & develop skills needed to examine them and formulate alternatives.

FUNDING: Medical Research Council of GB, Quality assessed: Bias: selection-unclear; performance-unclear; attrition-unclear; detection-low

### Results from this paper:

Cognitive Behavioural therapy significantly better than Behavioural therapy  
 Cognitive Behavioural therapy significantly better than waiting list control.  
 Behavioural therapy marginally better than waiting list control.

### Crits-Christoph2005

Study Type: RCT n= 31  
 Study Description: Compared the efficacy of brief dynamic therapy with supportive therapy on interpersonal outcomes for people diagnosed with GAD.  
 Type of Analysis: ITT  
 Blindness: No mention  
 Duration (days): Mean 112  
 Followup: none  
 Setting: Recruited from outpatient referral line, adverts & professional referrals: Pennsylvania  
 Notes: RANDOMIZATION: No details provide (note this is a pilot RCT)  
 Info on Screening Process: No details provided

Age: Range 18-60  
 Sex: no information  
 Diagnosis:  
 100% Generalised Anxiety Disorder (GAD) by DSM-IV

Exclusions: Patients who had begun a psychotropic medicine within the previous 3 months or who had an acute, unstable, or severe AXIS III medical disorder that might interfere with either the safe conduct of the study or the interpretation of the study results. Patients with any current or past history of bipolar disorder, schizophrenic disorders, or Cluster A personality disorders, and patients with any current or past history of seizure disorder (other than febrile seizure as an infant). Also, patients with a clinically significant organic pathology and patients who, in the previous 12 months, met criteria for alcohol or substance dependence or abuse, OCD, eating disorder, or BPD.

Baseline: No details provided

**Data Used**  
 Remission (less than 7 on HAMA)

**Data Not Used**  
 Beck Anxiety Inventory - no data  
 Beck Depression Inventory - no data  
 Penn State Worry Questionnaire - no data  
 HDRS (Hamilton depression rating scale) - no data  
 HAMA - no data

Notes: DROP OUTS: psychodynamic = 1/15, Supportive therapy = 2/16. Outcomes taken at pre and post (16 wks). No follow up. Delivered by PhD & Master & social worker therapists with a minimum of 10 years experience. Note only data from study 2 is relevant.

**Group 1 N= 15**  
 Short-term psychodynamic psychotherapy. Mean dose 16 weekly sessions - Manual based therapy with boosters. Main goal was to understand the anxiety symptoms of the patient in the context of interpersonal conflicts. Through uncovering the patients' relationship pattern, the conflicts are worked through.

**Group 2 N= 16**  
 Supportive therapy. Mean dose 16 weekly sessions - Conducted using the treatment manual for non-directive therapy. Based on person-centered therapy & is oriented toward creating an accepting, non-judgemental, & empathic environment. Direct suggestion or coping methods are forbidden.

Funding: Funded in part by National institute of Mental health Grants (R21-MH56018 & P30-MH45178). Quality assessed: Selection bias = unclear risk, Performance bias = unclear risk, attrition bias = low risk, detection bias = unclear risk

### Results from this paper:

No statistically significant difference between the two treatments.

### DUGAS2003

Study Type: RCT n= 52  
 Study Description: CBT in group format is compared to a wait-list control group over 14 sessions.  
 Type of Analysis: Intention to treat  
 Blindness: No mention  
 Duration (days): Mean 98  
 Followup: 2 years (not extractable)  
 Setting: Outpatients recruited from advertisements in Canada  
 Notes: RANDOMISATION: No details provided  
 Info on Screening Process: 170 screened, 118 excluded due to: not meeting GAD diagnostic criteria (19 had another disorder that was as severe as GAD; 14 had another primary disorder; and 7 had subclinical GAD), and 10 were unable to fit weekly sessions into their schedule

Age: Mean 41  
 Sex: 15 males 37 females  
 Diagnosis:  
 100% Generalised Anxiety Disorder (GAD) by DSM-IV

Exclusions: a) not given a primary diagnosis of GAD; b) change in medication type or dose during the 8 weeks before treatment; c) unwilling to keep medication stable while participating in study; d) evidence of suicidal intent; e) evidence of substance abuse; and f) evidence of current or past schizophrenia, bipolar disorder, or organic mental disorder.

Notes: Average duration of 16.9 years (SD = 15.2), 35 had one/more additional diagnoses, with a range of 1-5 comorbid disorders. 11 participants were taking anxiolytic or antidepressant medication.

Baseline: BA: group CBT: 18.43 (10.71), wait-list control: 16.30 (9.34)

**Data Used**  
 Worry and Anxiety Questionnaire  
 ADIS-IV  
 Penn State Worry Questionnaire  
 Beck Anxiety Inventory  
 Beck Depression Inventory

**Data Not Used**  
 Response (40% reduction in HAMA score) - not reportable

Notes: Outcomes taken at pre-wait list, pre-treatment, & post-treatment. DROP OUT: WLC = 2/27, CBT = 3/25. Delivered by licensed, trained CBT psychologists.

**Group 1 N= 27**  
 Waiting-list control. Mean dose 14 weeks - Telephoned every 3 weeks by clinician who had administered the ADIS-IV to monitor their state

**Group 2 N= 25**  
 CBT. Mean dose 14 weekly 2 hour sessions. - Group CBT (4-6 in each group) which involved 5 treatment components : treatment rationale, awareness, reevaluation, problem-solving, & cognitive exposure. Involved a session-by-session treatment manual.

FUNDING: Canadian Institutes of Health Research, Quality assessed: selection bias-unclear; performance bias-unclear; attrition bias-low; detection bias-low

Results from this paper:  
 Effective against waiting list control and results maintained at 2 years (not extractable as WLC data not extractable)

**DUGAS2009A**

<p>Study Type: RCT</p> <p>Study Description: A randomized clinical trial of CBT &amp; AR for adults with GAD.</p> <p>Type of Analysis: Intention to treat analysis</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 84</p> <p>Followup: 6, 12 and 24 months (not reportable)</p> <p>Setting: Referred by GPs, recruited from Anxiety Disorder Clinic. Montreal; Canada</p> <p>Notes: Random allocation sequence used and allocation concealed.</p> <p>Info on Screening Process: 83 patients screened. 14 excluded because GAD was not diagnosed (5) or was not primary diagnosis (5), the severity of comorbid disorder was not at least 2 points less on Clinician's Severity Rating (2), or a medical problem required immediate attention</p>	<p>n= 65</p> <p>Age: Mean 39 Range 18-64</p> <p>Sex: 22 males 43 females</p> <p>Diagnosis:                  100% Generalised Anxiety Disorder (GAD) by DSM-IV</p> <p>Exclusions: GAD not primary disorder or severity of comorbid disorder is not at least 2 points less on Clinician's Severity Rating, not between age range of 18-64, change in medication type or dose during 4-12 wks before assessment, unwilling to keep medication stable during treatment phase of study, evidence of suicidal intent or current substances misuse or current or past schizophrenia, bipolar disorder or organic mental disorder</p> <p>Notes: Secondary conditions were panic disorder (27), specific phobia (13), social anxiety disorder (9), dysthymic disorder (8), MDD (5), OCD (3) &amp; hypochondriasis (1). 55.4% on anxiolytic or antidepressant medication &amp; 43.1% had previously received CBT</p> <p>Baseline: CSR: CBT 5.78 (1.04) AR 5.36 (1.26) WL 5.90 (1.25), PSWQ: CBT 61.65 (8.27) AR 58.01 (5.51) WL 57.34 (9.78), WAQ-Som: CBT 21.13 (4.07) AR 20.82 (5.48) WL 22.42 (3.17), STAI-T: CBT 53.04 (7.30) AR 52.23 (7.15) WL 52.06 (9.62), BDI-II: CBT 15.36 (8.20) AR 16.65 (9.27) WL 13.70 (7.72)</p>	<p><b>Data Used</b></p> <p>WAQ- somatic subscale</p> <p>Remission (Clinician severity rating of 3 or less</p> <p>Beck Depression Inventory</p> <p>STAI-T</p> <p>Worry and Anxiety Questionnaire</p> <p>Penn State Worry Questionnaire</p> <p>Clinician rated GAD severity</p> <p>Notes: Taken at 12 wks, 6-, 12- and 24-month follow up. DROP OUTS: 2/23 for CBT, 5/22 for AR, no drop outs of WLC. Delivered by licensed psychologists (with 5 years experience) with extensive training in CBT.</p>	<p><b>Group 1 N= 23</b></p> <p>CBT - 12 weekly 1-hour sessions with a clinical psychologist. Included sessions on psychoeducation, uncertainty recognition, reevaluation of usefulness of worry, problem-solving training and imaginal exposure.</p> <p><b>Group 2 N= 22</b></p> <p>Applied relaxation - 12 weekly 1-hour sessions with a clinical psychologist. Modules included psychoeducation, tension release, relaxation by recall &amp; counting and conditioned relaxation.</p> <p><b>Group 3 N= 20</b></p> <p>Waiting-list control - Duration of wait list condition was 12 weeks. Participants were contacted by telephone every 3 weeks. Following this patients were randomly allocated to one of the two active treatment conditions: 33 (CBT) and 31 (AR) with 1 drop out.</p>	<p>Funding: Supported by a grant MOP-42454 from the Canadian Institutes of Health Research. Quality assesment completed: unclear risk of bias for selection, unclear risk of bias for performance, unclear risk of bias for attrition, low risk of detection bias.</p>
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Results from this paper:  
 Cognitive Behavioural therapy statistically significantly better than waiting list control  
 Applied Relaxation was marginally better than waiting list control  
 Cognitive Behavioural therapy marginally better than Applied Relaxation. Only Cognitive Behavioural therapy led to continued improvement.

**Durham1994**

<p>Study Type: RCT</p> <p>Study Description: Tested whether CT was of comparable efficacy to psychodynamic psychotherapy &amp; if 8-10 sessions of therapy is as effective as 16-20 sessions</p> <p>Type of Analysis: Completers</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 98 Range 56-140</p> <p>Followup: 6 &amp; 12 months (extracted)</p> <p>Setting: Referred outpatients by GPs &amp; psychiatrists. Dundee; UK</p> <p>Notes: RANDOMISATION: No details</p>	<p>n= 110</p> <p>Age: Mean 39 Range 18-65</p> <p>Sex: 35 males 75 females</p> <p>Diagnosis:                  100% Generalised Anxiety Disorder (GAD) by DSM-III-R</p> <p>Exclusions: Aged under 18 years or over 65, duration of less than 6 months, scored less than 6 on Leeds Anxiety Scale, primary diagnosis not GAD</p> <p>Baseline: No significant differences</p>	<p><b>Data Used</b></p> <p>Remission (Jacobson criteria for normative funct)</p> <p>STAI-trait</p> <p>Brief symptom inventory</p> <p>Beck Anxiety Inventory</p> <p>Beck Depression Inventory</p> <p>HARS (Hamilton anxiety rating scale)</p> <p>Social Adjustment Scale</p> <p><b>Data Not Used</b></p> <p>Self-esteem scale - no data</p>	<p><b>Group 1 N= 25</b></p> <p>Anxiety Management training. Mean dose 10 sessions - Taught coping skills, structured indiv session, &amp; given homework</p> <p><b>Group 2 N= 25</b></p> <p>Low intensity analytic psychotherapy. Mean dose 10 sessions - Consisted of 8-10 hrs of therapy over 6 months (same as before only less intensive)</p>	<p>FUNDING: Scottish Hospital Endowments Research Trust, Quality Assessed: Bias: Selection-unclear; Performance-unclear; Attrition-High; Detection-Low</p>
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Anxiety (update): High intensity psychological interventions study characteristics

Info on Screening Process: 178 screened, 68 excluded as; primary diagnosis other than GAD (22), failure to complete self-report (25), failure to attend interviews (8), unwilling to participate (5), receiving other treatment (2)

Notes: DROP OUTS: AP (HIGH) = 5/20, AP (LOW) = 4/25, CT (HIGH) = 4/19, CT (LOW) = 0/21, AMT = 6/25. Follow up data extractable at 6 months. Delivered by clinical psychologists, consultant psychotherapists & trainee psychiatrists

**Group 3 N= 20**

High intensity analytic psychotherapy. Mean dose 20 sessions - Consisted of 16-20 hour long sessions of analytic psychotherapy. Involved the exploration and understanding of the presenting symptom, attention paid to negative transference reaction to the pre-set termination.

**Group 4 N= 21**

Low intensity CT. Mean dose 10 sessions - Same as before only less intensive

**Group 5 N= 19**

High intensity CT. Mean dose 20 sessions - Main focus was on identifying anxious cognitions and thinking errors, and on learning to switch to more helpful thoughts and reactions to stressful situations and unpleasant bodily sensations

**Results from this paper:**

Cognitive Therapy was found to be significantly more effective than Analytic Psychotherapy. Cognitive Therapy had similar effects as Anxiety Management training. There are no statistically significant difference between the high or low contact groups. Cognitive Therapy has relatively more sustainable with regard to long term outcomes.

**DURHAM2004**

Study Type: RCT  
 Study Description: Examined whether standard CBT in comparison to high intensity CBT improved outcome for those with poor prognosis  
 Type of Analysis: Completers  
 Blindness: No mention  
 Duration (days): Mean 70 Range 35-105  
 Followup: 6 months (extracted)  
 Setting: referrals from clinical sources; Scotland  
 Notes: RANDOMISATION: No details provided  
 Info on Screening Process: 171 screened, 77 excluded as failed to attend interview (27), insufficient duration or severity of anxiety (24), primary AXIS I diagnosis other than GAD (25), and one patient too old

n= 55  
 Age: Mean 39 Range 18-65  
 Sex: 27 males 28 females  
 Diagnosis: 100% Generalised Anxiety Disorder (GAD) by DSM-IV  
 Exclusions: No primary diagnosis of GAD, clinical global severity rating of less than 4, aged below 18 or older than 65, unwilling to accept random allocation, receiving concurrent psychological intervention, CBT 2 years prior to referral, evidence of psychosis, substance abuse or a medical condition underlying anxiety  
 Baseline: Patients in standard tended to have scores indicating somewhat greater severity compared with intensive on some measures, but controlled for in analysis

**Data Used**  
 STAI-trait  
 Brief symptom inventory  
 ADIS-IV (CGS)  
 Remission (Jacobson criteria for normative funct)  
 HARS (Hamilton anxiety rating scale)  
 Notes: DROP OUT: brief = 14/33, standard = 11/29, intensive = 14/32. Follow-up data extractable at 6 months. Delivered by clinical psychologist & clinical nurse specialists trained in CBT.

**Group 1 N= 19**

Brief CBT. Mean dose 5 sessions (each 60 mins) - Broad CBT approach with least opportunity to focus on key issues. All participants assigned to this group were given a good prognosis.

**Group 2 N= 18**

Standard CBT. Mean dose 10 sessions (each 60 mins) - All participants assigned to this group were given a poor prognosis.

**Group 3 N= 18**

Intensive CBT. Mean dose 15 sessions (each 60 mins) - More opportunity to focus on key issues. All participants assigned to this group were given a poor prognosis.

FUNDING: Chief Scientist Office, Scottish Home and Health dept, Quality assessed: unclear risk of bias for performance, selection, detection & attrition.

**Results from this paper:**

Brief intervention was statistically significantly better than standard on clinician rated anxiety, but not on self rated scores. Brief intervention slightly better than intensive therapy on clinician rated anxiety, but not on self rated scores. No statistically significant difference between standard and intensive therapy (both poor prognosis).  
 Conclusions: This study may have implications for stepped care model

<b>HOYER2009</b>			
Study Type: RCT	n= 73	<b>Data Used</b>	<b>Group 1 N= 24</b>
Study Description: Examined whether worry exposure alone is as efficacious as the empirically supported stand-alone treatment for GAD, applied relaxation over 15 sessions	Age: Mean 45 Range 18-70 Sex: 21 males 52 females	Response (50% reduction in HAMA score) HDRS (Hamilton depression rating scale) STAI-trait HAMA Penn State Worry Questionnaire Beck Depression Inventory	Worry exposure. Mean dose 15 weekly sessions - Manualized protocol addressing avoidance and reassurance behaviours with the aim of reduction. Homework involved practicing worry exposure alone.
Type of Analysis: ITT analysis	Diagnosis: 100% Generalised Anxiety Disorder (GAD) by DSM-IV	Notes: Taken at baseline & 15 weeks. DROP OUT: AR= 4/18, WE = 7/24, WL = 1/31. Follow up data available for some but not all measures. Delivered by graduate clinical psychology students.	<b>Group 2 N= 18</b> Applied relaxation. Mean dose 15 weekly sessions - Manualized protocol with homework at end of each session. Involved psychoeducation, relaxation procedures and homework focused on learning relaxation skills & applying these whenever signs of arousal were noticed.
Blindness: No mention	Exclusions: a) no primary diagnosis of GAD as assessed by DSM-IV; b) younger than 18 and older than 80; c) serious physical impairment (axis III); d) any lifetime history of schizophrenia, bipolar disorder, seizure or organic brain syndrome, substance abuse or dependence within the past year, serious personality disorder, any concurrent psychotherapeutic intervention or benzodiazepine use.		<b>Group 3 N= 31</b> Waiting-list control. Mean dose 15 weeks - patients who completed waiting list condition were subsequently rerandomized to 1 of 2 active treatments.
Duration (days): Mean 105	Notes: 3 participants from worry exposure group and 5 in applied relaxation group were on antidepressant medication before onset of study and maintained a stable dosage throughout study		
Followup: 6 & 12 months (extracted)	Baseline: HAMA: WL = 23.33 (7.02), AR = 22.71 (7.16), WE= 21.6 (7.23)		
Setting: Outpatient psychotherapy unit: Germany			
Notes: RANDOMISATION: Random number generator, randomisation not balanced, therefore resulting in unequal groups.			
Info on Screening Process: 688 screened, 615 excluded for following reasons: a) no GAD diagnosis; b) intake assessment not completed; c) refused participation			

Results from this paper:  
Worry Exposure statistically significantly better than waiting list control, Applied Relaxation statistically significantly better than waiting list control.  
No statistically significant difference between Applied Relaxation or waiting list control.

<b>JANBOZORGI2009</b>			
Study Type: RCT	n= 35	<b>Data Used</b>	<b>Group 1 N= 18</b>
Study Description: Examined the effects of integrative relaxation training (relaxation, lifestyle, & spirituality) on emotional stability for people with GAD.	Age: Mean 24 Range 19-35 Sex: 4 males 31 females	STAI-T Notes: DROP OUTS: Treatment = 1/18, WLC = 2/17. Note STAI-T was the Iranian version of this measure	Integrative relaxation training. Mean dose 12 sessions (weekly & lasted 1.5-2hrs each) - Group programme consisting of a combination of progressive relaxation, lifestyle (e.g. sleep, eating, leisure time management and physical & spiritual exercise). Given a weekly task.
Type of Analysis: Completers	Diagnosis: 100% Generalised Anxiety Disorder (GAD) by DSM-IV		Quality assessed: selection = unclear risk of bias, performance = high risk of bias, attrition = unclear risk of bias, detection = unclear risk of bias. FUNDING: Funded by the Thalieh Counselling Centre in Tehran.
Blindness: No mention	Exclusions: a) undergoing concurrent psychological treatment for anxiety disorder (n = 2); b) had a current diagnosis of schizophrenia (n = 1); c) an intellectual disability (n = 1); d) an organic mental disorders (n = 1); e) not within the age range of 19-35 (n = 4), refused to take part in the study (n = 6), or a principal diagnosis other than GAD was indicated at assessment (n = 19)		<b>Group 2 N= 17</b> Waiting-list control. Mean dose 12 weeks - Completed the questionnaires but did not take part in the interventions.
Duration (days): Mean 84	Baseline: No baseline statistics provided for STAI-T		
Followup: No follow up			
Setting: Patients were referred from a counselling & psychotherapy centre; Iran.			
Notes: RANDOMISATION: No information provided			
Info on Screening Process: 64 referrals, 32 excluded met one or more of the exclusion criteria below.			

**LADOUCEUR2000**

## Anxiety (update): High intensity psychological interventions study characteristics

Study Type: RCT n= 26  
 Study Description: Examined the efficacy of CBT for GAD compared with a delayed treatment control condition. Age: Mean 40  
 Sex: 6 males 20 females  
 Type of Analysis: ITT Diagnosis:  
 100% Generalised Anxiety Disorder (GAD) by DSM-IV  
 Blindness: Open  
 Duration (days): Mean 112  
 Exclusions: a) no primary diagnosis of GAD, b) change in medication type or dose during the 8-week before treatment, c) unwilling to keep medication status stable while participating in study, d) evidence of suicidal intent, e) evidence of current substance abuse, and f) evidence of current or past schizophrenia, bipolar disorder, or organic mental disorder  
 Followup: 1 year (not reportable)  
 Setting: Outpatients self-recruited, Canada  
 Notes: RANDOMISATION: no details provided  
 Info on Screening Process: 99 screened; 73 excluded due to following reasons: a) clearly did not have GAD b) would not benefit from treatment being offered, c) GAD not the most severe psychological disorder.  
 Notes: 9 participants were taking medication and mean duration of GAD of 15.6 yrs (13.3)  
 Baseline: BAI: CBT = 16.54 (10.53), WL = 14.33 (5.85)

### Data Used

Worry and Anxiety Questionnaire  
 ADIS-IV  
 Penn State Worry Questionnaire  
 Beck Anxiety Inventory  
 Beck Depression Inventory

### Data Not Used

Response (40% reduction in HAMA score) - not reported separately for each group  
 Notes: Taken at: Baseline & 16 weeks. DROP OUT: none. Therapy was delivered by licensed psychologists.

### Group 1 N= 12

Waiting-list control. Mean dose 16 weeks - Treatment began after 16 weeks of their initial assessment. Telephoned once a month to monitor their state and provide a minimal amount of support.

### Group 2 N= 14

CBT. Mean dose 16 sessions (each 60 mins) - Treatment consisted a) rationale, b) awareness training, c) correction of erroneous beliefs, d) problem-orientation training, and cognitive exposure.

FUNDING: Medical Research Council of Canada. Quality assessed: bias: selection-unclear; performance-unclear; attrition-low; detection-unclear

### Results from this paper:

CBT statistically significantly better than WLC

Results maintained at 6, 12-months follow up (but not meta-analysable)

## LEICHSENRING2009

Study Type: RCT n= 57  
 Study Description: Compared short-term psychodynamic psychotherapy and CBT with regard to treatment outcome in GAD. Age: Mean 42 Range 18-65  
 Sex: 11 males 46 females  
 Type of Analysis: ITT Diagnosis:  
 100% Generalised Anxiety Disorder (GAD) by DSM-IV  
 Blindness: Open  
 Duration (days): Mean 210  
 Exclusions: a) younger than 18 or older than 65; b) no primary diagnosis of GAD; c) any acute, unstable, or severe axis III medical disorder that might interfere with the successful completion of treatment; d) any current or past history of schizophrenic disorder, bipolar disorder, or cluster A or B axis II disorder; e) any current or past neurological disorder; f) alcohol or substance dependence or misuse, eating disorder, or major depression in the previous 12 months, and g) current concomitant psychotherapeutic or psychopharmacological treatment.  
 Followup: 6 months (extracted)  
 Setting: Recruited by referrals in private practice & advertisements: Germany  
 Notes: RANDOMISATION: No details  
 Info on Screening Process: 231 screened, 174 excluded as did not meet inclusion criteria and/or met exclusion criteria  
 Notes: 72 % had comorbid mental disorders.  
 Baseline: HARS: CBT= 25.90 (5.83), Short-term psychodynamic therapy = 25 (4.18)

### Data Used

Hospital Anxiety and Depression Scale (anxiety)  
 STAI-trait  
 Penn State Worry Questionnaire  
 Beck Anxiety Inventory  
 Beck Depression Inventory  
 HARS (Hamilton anxiety rating scale)

Notes: Taken at baseline, 30 weeks and 6-month follow up. DROP OUTS: CBT=2/29, Psychodynamic therapy = 3/28. Therapy delivered by licensed psychotherapists (both >15 years experience).

### Group 1 N= 28

Short-term psychodynamic psychotherapy. Mean dose 30 - Based on supportive-expressive therapy. Focused on the core conflictual relationship theme associated with the symptoms of GAD. Emphasis was put on a positive therapeutic allegiance

### Group 2 N= 29

CBT. Mean dose 30 - Included up to 30 (50min) sessions carried out accord. to treatment manualization. Included relaxation training, problem solving, planning of recreational activities and homework.

FUNDING: LE 1250/1-1/1-2. Quality assessed: Selection-unclear; Performance-unclear; Attrition-low; Detection-low

### Results from this paper:

No statistically significant differences between treatments for primary outcome measures.

But CBT is superior than psychodynamic on secondary outcomes (depression, worry)

## LINDEN2005

## Anxiety (update): High intensity psychological interventions study characteristics

<p>Study Type: RCT</p> <p>Study Description: A controlled clinical trial was done to evaluate the efficacy of CBT treatment in outpatients with GAD who treated by a therapist.</p> <p>Type of Analysis: ITT (Last observation carried forward)</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 175</p> <p>Followup: 8 months (not reportable)</p> <p>Setting: Recruited from GPs and anxiety call center, Germany</p> <p>Notes: RANDOMISATION: simple</p> <p>Info on Screening Process: 576 screened, 504 excluded as did not meet criteria</p>	<p>n= 72</p> <p>Age: Mean 43 Range 18-65</p> <p>Sex: 12 males 60 females</p> <p>Diagnosis: 100% Generalised Anxiety Disorder (GAD) by DSM-IV</p> <p>Exclusions: had psychiatric comorbidity, a score of less than 18 on HAM-A, serious somatic illness, younger than 18 or older than 65, intake of sedatives during last 3 months, psychotropic treatment for the duration of the therapy, other psychotherapy during last 2 yrs or insufficient language competency.</p> <p>Baseline: No significant differences</p>	<p><b>Data Used</b></p> <p>Remission (NIMH-CGI "Not ill at all") HAMA STAI-S</p> <p>Notes: Taken at baseline, 25 wks and 8 month follow up, DROP OUT: CBT = 5/36 (13.9%), WLC = 4/36 (11.1%). Therapy delivered by professionals in private practice for 11 years.</p>	<p><b>Group 1 N= 36</b></p> <p>CBT. Mean dose 20 sessions over 35 weeks (50 mins each) - CBT (A): Given immediate CBT treatment</p> <p><b>Group 2 N= 36</b></p> <p>Waiting-list control. Mean dose 14.5</p>	<p>FUNDING: Yes. Quality assessed: Bias: Selection-unclear; Performance-unclear; Attrition-Low; Detection-Unclear</p>
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### Results from this paper:

Statistically significant difference in favour of CBT which was sustained at follow-up.

## MOHLMAN2003a

<p>Study Type: RCT</p> <p>Study Description: Examined the efficacy of CBT in comparison to waiting list in late-life GAD.</p> <p>Type of Analysis: Completers</p> <p>Blindness: Open</p> <p>Duration (days): Mean 91</p> <p>Followup: 6 months (not reportable)</p> <p>Setting: Recruited via radio and print advertisements: New York, US</p> <p>Notes: RANDOMISATION:no details provided</p> <p>Info on Screening Process: 81 screened, 54 excluded as did not meet DSM-IV criteria for principal diagnosis of GAD.</p>	<p>n= 27</p> <p>Age: Mean 66 Range 60-74</p> <p>Sex: 8 males 19 females</p> <p>Diagnosis: 100% Generalised Anxiety Disorder (GAD) by DSM-IV</p> <p>Exclusions: a) current use of anti-anxiety medications; b) active suicidality over previous 6 months; c) acute current MDD episode; d) lifetime psychotic symptoms; e) organic brain disease; f) current use of medications that can cause anxiety-like symptoms; g) raw scores of 131 or below on the Dementia Rating Scale.</p> <p>Notes: Those who reported frequent, uncontrollable worries and other GAD symptoms were scheduled for a comprehensive consultation</p> <p>Baseline: There was a significant difference between groups on gender composition, with a higher proportion of women in the CBT group (86 vs. 54%). Comorbid psychiatric problems: WLC = 1.08 (1.04), CBT = 0.67 (0.71)</p>	<p><b>Data Used</b></p> <p>Responders (20% reduction in 75% of all scales)</p> <p>Free of comorbid psych diagnosis</p> <p>Clinician rated GAD severity</p> <p>Remission- SCID(free of GAD)</p> <p>SCL anxiety factor</p> <p>Trait worry (PSWQ + STAI-TRAIT)</p> <p>SCL-90 General Severity index</p> <p>Beck Anxiety Inventory</p> <p>Beck Depression Inventory</p> <p>Notes: Taken at baseline, 13 weeks and 6 month follow up. DROP OUT: CBT = 3/14, WLC = 3/13. Therapy delivered by doctoral clinicians with CBT training.</p>	<p><b>Group 1 N= 13</b></p> <p>Waiting-list control. Mean dose 13 weeks - contacted every month by phone. Any participants who experienced a worsening of symptoms was referred to a clinic in the community for immediate treatment (n= 1). All invited to begin CBT after waiting period.</p> <p><b>Group 2 N= 14</b></p> <p>CBT. Mean dose 13 sessions (each 50 mins) - consisted of psycho-education about GAD and mood, muscle relaxation, cogn restructuring, worry prevention, problem-solving, daily exercises, homework etc</p>	<p>FUNDING: Supported in part by National Institute of Mental Health grant MH01397 &amp; R01MH53582, Q.A.: Bias: Selection-Unclear; Performance-Unclear; Attrition-High; Detection-Unclear</p>
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### Results from this paper:

CBT only marginal effective against WLC.might be due to the lack of statistical power

## OST2000

<p>Study Type: RCT</p> <p>Study Description: Investigates the efficacy of applied relaxation and CT in the treatment of GAD.</p>	<p>n= 36</p> <p>Age: Mean 40 Range 22-60</p> <p>Sex: 10 males 26 females</p>	<p><b>Data Used</b></p> <p>Response-Clinical improvement (HAMA+/- 2SD)</p> <p>Assessor Severity Scale</p>	<p><b>Group 1 N= 16</b></p> <p>Applied relaxation. Mean dose 12 - Progressive relaxation with tension release of muscles</p>	<p>FUNDING: Swedish Medical Research Council, Quality assessed: low- unknown risk of bias</p>
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## Anxiety (update): High intensity psychological interventions study characteristics

Type of Analysis: Completers

Blindness: No mention

Duration (days): Mean 84

Followup: 1 year (extracted)

Setting: Recruited by media: Sweden

Notes: RANDOMISATION: no details provided

Info on Screening Process: 68 screened, 32 excluded since did not have GAD as primary diagnosis or began drugs while waiting for first session, becoming too depressed to take part, lived too far

Diagnosis:

100% Generalised Anxiety Disorder (GAD) by DSM-IV

Exclusions: Did not meet criteria for GAD, duration of less than 1 year, outside age range of 18-60, had a primary diagnosis of depression, had other psychiatric illness in need of treatment, GAD not primary disorder, if on prescribed drugs for GAD dosage was not kept constant over 3 months before commencement of treatment or unwilling to keep constant for duration of study. Finally, if unwilling to take part for whole duration of study.

Baseline: No significant differences

HDRS (Hamilton depression rating scale)

HAMA

STAI-T

STAI-S

Penn State Worry Questionnaire

Cognitive-Somatic Anxiety Questionnaire

Beck Anxiety Inventory

Beck Depression Inventory

Notes: Taken at baseline, 12 wks and 1 year follow up. DROP-OUT: AR= 2/16 (12%), CT = 1/20 (5%). Therapy delivered by therapists with more than 8 years experience. Bias: Selection-unclear; Performance-unclear; Attrition-unclear; Detection-low

**Group 2 N= 20**

Cognitive therapy. Mean dose 12 - Manualized therapy involving 6 steps across six sessions

Results from this paper:

No statistical significance between CBT or AR.

### REZVAN2008

Study Type: RCT

n= 36

Study Description: Compared the effectiveness of CBT with the combination of CBT & interpersonal therapy on decreasing the excessiveness of pathological worry in GAD.

Age: Mean 20

Sex: all females

Diagnosis:

100% Generalised Anxiety Disorder (GAD) by DSM-IV

Blindness: Open

Duration (days): Mean 56

Followup: 1 year (extracted)

Setting: Self-recruited from university counselling center, Iran.

Exclusions: a) did not meet cut off score of GAD-Q (5.7); b) did not meet GAD criteria after a diagnostic interview using DSM-IV; c) GAD not as severe as other co-morbid diagnoses.

Notes: RANDOMISATION: No details provided

Info on Screening Process: 120 people screened; 84 excluded due to not meeting the cut-off of the GAD-Q, did not meet criteria according to DSM-IV, GAD less severe than other comorbid diagnoses

Baseline: All conditions scored similarly on PSWQ and Oxford happiness scale.

**Data Used**

Penn State Worry Questionnaire

Oxford Happiness Scale

Notes: Taken at baseline, 8 wks and 1 year follow up. Did not report if any drop outs. No remission/response data. Follow-up data extracted at 1 yr. No mention of therapist competence.

**Group 1 N= 12**

CBT + Interpersonal therapy. Mean dose 8 sessions (each 90 mins) - In addition to the interventions that CBT group received, some more instructions and techniques were applied in CBT & IPT group

FUNDING:none declared, Quality Assessed: Selection-unclear; Performance-unclear; Attrition-unclear; Detection-unclear

**Group 2 N= 12**

CBT. Mean dose 8 sessions (each 90 mins) - 8 sessions of CBT. Included stimulus control methods, breathing and relaxation techniques, desensitization and applied relaxation.

**Group 3 N= 12**

Waiting-list control. Mean dose 8 weeks

Results from this paper:

CBT statistically significantly better than WLC.

But no statistically significant difference between CBT and CBT+IPT

### ROEMER2008

Study Type: RCT

n= 31

Study Description: Examined the efficacy of an acceptance-based Behaviour therapy aimed at increasing acceptance of internal experiences

Age: Mean 34 Range 18-

Sex: 9 males 22 females

**Data Used**

Response (20% improvement on 3/4 outcome measures)

**Group 1 N= 15**

Acceptance-based behaviour therapy. Mean dose 16 sessions (each 60-90 mins) - Taught a variety of mindfulness

FUNDING: National Institute of Mental Health Grant No. MH63208, Quality assessed: Bias: Selection-Low;

## Anxiety (update): High intensity psychological interventions study characteristics

for those with GAD.	Diagnosis: 100% Generalised Anxiety Disorder (GAD) by DSM-IV	Remission (not meeting diagnosis according to SCID ADIS-IV Penn State Worry Questionnaire Beck Depression Inventory QoL Depression Anxiety Stress Scales	practices and were encouraged to engage in both formal and informal mindfulness practice every day.	Performance-Unclear; Attrition-Low; Detection-unclear
Type of Analysis: ITT			<b>Group 2 N= 16</b>	
Blindness: Unclear				
Duration (days): Mean 98	Exclusions: a) no primary diagnosis of GAD; b) reported current suicidal intent; c) met criteria for current bipolar disorder, substance dependence, or psychotic disorders; d) less than 18 years old			
Followup: 9 months (not reportable)				
Setting: Unknown, Boston, US	Notes: a full 6 months of GAD symptoms without MDD was not required for inclusion.	Notes: Taken at baseline, 14 wks and 3 & 9 month follow up. DROP OUT: Treatment grp = 2/15, WLC = 4/16. Follow up data was not extractable as did not report for each group separately. Therapy delivered by doctoral students		
Notes: RANDOMISATION: coin flip, randomized block fashion	Baseline: Conditions did not differ significantly on demographic variables. BDI: Treatment = 17.53 (1.94), control = 19.69 (1.83), QOLI: Treatment = 0.83 (0.62), Control = 0.27 (0.48).			
Info on Screening Process: 36 screened: 5 excluded (3 declined, 1 missed informed consent meeting, 1 away during study period)				

Results from this paper:  
Statistically significant difference in favour of acceptance based behaviour therapy.

### STANLEY1996

Study Type: RCT	n= 48	<b>Data Used</b>	<b>Group 1 N= 20</b>	FUNDING: Texas Higher Education Coordinating Board, Quality assessed: Selection-unclear; Performance-unclear; Attrition-unclear; Detection-high
Study Description: Compared the efficacy of CBT and nondirective, supportive psychotherapy for older adults with GAD	Age: Mean 68 Range 55-81 Sex: 14 males 34 females	Response (20% improvement on 3/4 outcome measures) HDRS (Hamilton depression rating scale) HAMA STAI-T Clinician rated GAD severity Fear Questionnaire Beck Depression Inventory	Non-directive therapy. Mean dose 14 sessions (each 90 mins) - Focused on nondirective group discussion of anxiety symptoms and experiences	
Type of Analysis: Completers	Diagnosis: 100% Generalised Anxiety Disorder (GAD) by DSM-III-R		<b>Group 2 N= 26</b>	
Blindness: No mention				
Duration (days): Mean 98	Exclusions: Primary diagnosis of an alternate AXIS I disorder, current involvement in psychotherapy, serious medical conditions, alcohol or substance abuse within the previous 6 months, psychotic symptoms, or evidence of cognitive impairment according to a score of 22/lower on mini-mental state exam	Notes: Taken at baseline, 14 wks and 6 months. DROP OUTS: SP = 7/20, CBT = 8/26. Follow-up data extracted at 6 months. Therapy delivered by therapists with 2 years CBT experience, the other experienced in non-directive approach.		
Followup: 1 & 6 months (extracted)				
Setting: Recruited via community programs for older adults, church groups and media: Texas	Baseline: No significant differences			
Notes: RANDOMISATION: No details				
Info on Screening Process: 17% of potential participants excluded due to the use of psychotropic medicine				

Results from this paper:  
No statistically significant difference between CBT and NDT for older adults

### STANLEY2003B

Study Type: RCT	n= 80	<b>Data Used</b>	<b>Group 1 N= 41</b>	FUNDING: Supported by a grant by National Institute of Mental Health, Quality assessed: Selection-unclear; Performance-unclear; Attrition-unclear; Detection-low
Study Description: Addressed the efficacy of CBT, relative to WLC in sample of 85 older adults with GAD	Age: Mean 66 Range 60-100 Sex: 20 males 60 females	Remission (not meeting diagnosis according to SCID HDRS (Hamilton depression rating scale) HAMA STAI-T	Waiting-list control. Mean dose 15 weeks - Involved weekly telephone calls to assess symptom severity, to determine the potential need for immediate care and to maintain low attrition rates. Min support	
Type of Analysis: Completer	Diagnosis: 100% Generalised Anxiety Disorder (GAD) by			

## Anxiety (update): High intensity psychological interventions study characteristics

Blindness: No mention

Duration (days): Mean 105

Followup: 3, 6, & 12 months (not reportable)

Setting: Recruited primarily via media, Texas, US

Notes: RANDOMISATION: No details

Info on Screening Process: Not stated how many screened or excluded: included only if principal or co-principal diagnosis was GAD with at least a moderate level of severity

DSM-IV

Exclusions: Current involvement in psychotherapy, alcohol or substance abuse within the previous year, serious medical conditions that may have accounted for anxiety symptoms or may have interfered with treatment, psychotic symptoms and evidence of cognitive impairment. Also excluded if principal or co-principal diagnosis was not GAD with less than a moderate level of severity or if they failed to discontinue antianxiety or antidepressant medication at least 2 weeks prior to initial screening.

Baseline: Groups differed only with regard to gender, with more men and fewer women assigned to WLC than CBT.

Clinician rated GAD severity

Penn State Worry Questionnaire

Response (20% improvement on 3/4 outcome measures)

Beck Depression Inventory

QoL

Notes: Taken at baseline, 15 wks and 3-, 6 & 12-month follow up (however follow-up not extractable as not given for each group separately). Drop outs (not extractable but 14 in total). Delivered by post doctoral psychologists, & advanced psychology graduates.

provided, but no active intervention was administered.

**Group 2 N= 39**

CBT. Mean dose 15 sessions (each 90 mins) - Adapted and standardized for use with the elderly in an earlier treatment study. Included education and awareness training, deep muscle relaxation, cognitive therapy and graduated exposure. Homework assignments were completed on a weekly basis.

Results from this paper:

CBT statistically significantly better than WLC. Effects maintained over 1 year follow up

### STANLEY2009

Study Type: RCT

Study Description: Examined the impact of CBT relative to enhanced usual care in older adults with GAD in primary care.

Type of Analysis: Completers

Blindness: Open

Duration (days): Mean 92

Followup: 6, 9, 12, & 15 months (extracted)

Setting: Primary care: Texas, US.

Notes: RANDOMISATION: 1: 1 ratio within blocks of 10 to receive CBT or TAU, random number generator

Info on Screening Process: 968 screened, 834 excluded due to following reasons: could not be contacted, reported no anxiety, ineligible, negative responses to screening questions on the primary care evaluation of mental disorders, lack of interest, logistic problems

n= 134

Age: Mean 70 Range 60-100

Sex: 29 males 105 females

Diagnosis:

100% Generalised Anxiety Disorder (GAD) by DSM-IV

Exclusions: No principal or co-principal diagnosis of GAD, mini-mental state exam score of less than 24, active substance abuse, psychosis, or bipolar disorder, or if younger than 60.

Baseline: PSWQ: CBT = 53.3 (10.57), TAU = 57.6 (10.91)

Data Used

Response (2 point change on GAD severity scale)

SF-12 (MCS)

BDI-II

Penn State Worry Questionnaire

Generalized anxiety disorder severity scale

SIGH-A (anxiety)

SF-12 (PCS)- Quality of life

Notes: Taken at baseline, 3 months and 6, 9, 12 month follow up. DROP OUTS: CBT = 4/70, TAU = 14/64. Extracted follow up at 15 months. Delivered by 5 therapists (3 had a MSc, 1 predoctoral, 1 post-bachelor) with 2-5 years of experience).

**Group 1 N= 64**

Treatment as usual. Mean dose 6 sessions - Enhanced usual care: telephoned biweekly during first 3 months to provide support and ensure patient safety. Calls lasted 15 mins.

**Group 2 N= 70**

CBT. Mean dose 10 sessions - included education and awareness, motivational interviewing, relaxation training, cognitive therapy, exposure, problem-solving skills training and behavioural sleep management.

FUNDING: supported by National Institute of Health, Quality assessed: Selection-unclear; Performance-unclear; Attrition-unclear; Detection-low

Results from this paper:

CBT was statistically significantly better than enhanced usual care on depression, worry outcomes but not on clinician rated anxiety outcome

### WELLS2010

Study Type: RCT

Study Description: Compared meta-cognitive therapy to applied relaxation in 20 outpatients with GAD.

n= 20

Age: Mean 49 Range 25-78

Sex: 8 males 12 females

Data Used

Remission- SCID(free of GAD)

Meta-cognition Questionnaire

Beck Depression Inventory

**Group 1 N= 10**

Meta-cognitive therapy. Mean dose 8-12 weekly sessions - The therapist focused on beliefs about the uncontrollability of

FUNDING: none declared. Quality assessed: Selection bias = low risk, performance bias = unclear risk, attrition bias = low risk. detection

## Anxiety (update): High intensity psychological interventions study characteristics

Blindness: No mention

Duration (days): Mean 84

Followup: 6 & 12 months follow up (both extractable)

Setting: Outpatients; UK. Recruitment: drawn from 2 clinical psychology NHS waiting lists comprised of individuals referred mostly by GPs or psychiatrists.

Notes: RANDOMISATION: Individuals unrelated to the trial were asked to draw sealed envelopes from a box.

Info on Screening Process: 61 patients were identified & mailed the questionnaire & based on responses 33 were invited to the screening interview. 24 patients attended & were found to meet the inclusion criteria. Of these 24, 4 were excluded (medical diagnosis/regime & withdrew).

Diagnosis:

100% Generalised Anxiety Disorder (GAD) by DSM-IV-TR

Exclusions: a) did not have excessive worry, difficulty controlling worry, a minimum of 2 worry topics or were not troubled by excessive & uncontrollable worries more days than not; b) did not have a DSM-IV diagnosis of GAD; were not medication free or stable on medication for at least 12 weeks; suffered from alcohol or substance abuse; were not willing to accept random allocation; not fluent in written & spoken English; were younger than 18; had previous CBT treatment for GAD; or evidence of a psychotic or organic illness

Notes: The duration of GAD ranged from 6 months to lifelong. The majority of cases (60%) reported a duration of greater than 5 years. 65% had an additional diagnosis.

Baseline: 2 patients were from an older age grp (76 & 78) & were yoked at randomisation. There were equal proportions of men & women in each group. MCQ-Neg was higher in the AR group (53.9 (4.2) vs. 45.7 (10.4)). Although the other measures were non-significant, examination of means show that AR group had higher scores on all measures suggesting they may be more severe.

Beck Anxiety Inventory

Penn State Worry Questionnaire

STAI-T

Notes: Assessed before treatment, post-treatment (12 weeks), 6 & 12 month follow up. DROP OUTS: MCT = 0/10, AR = 1/10 at 6 month follow up. RCI = reliable change index (Jacobson criteria)

worry & used verbal strategies & behavioural experiments to begin to weaken these beliefs. Patients were instructed in the use of detached-mindfulness in response to intrusive thoughts.

bias = unclear risk.

### Group 2 N= 10

Applied relaxation. Mean dose 8-12 weekly sessions - Apply a relaxation response that could reduce anxious bodily symptoms & worry. 6 stages of relaxation: progressive, release-only, cue-controlled, differential, rapid & application training. Frequent practice was emphasized.

Results from this paper:

At post-treatment and at both follow up points meta-cognitive therapy was superior to applied relaxation. Anxiety, depression and remission outcomes were significantly better for meta-cognitive therapy.

## WESTRA2009

Study Type: RCT

Study Description: Examined whether adding motivational interviewing as a pre-treatment to CBT would improve outcomes

Type of Analysis: ITT

Blindness: Single blind

Duration (days): Mean 42 Range 28-56

Followup: 6 months (extractable)

Setting: Participants were recruited from community ads in Toronto which targeted those who worried excessively. No payment given.

Notes: RANDOMISATION: were randomly assigned to treatment condition by the research co-ordinator using a random numbers table.

Info on Screening Process: 650 screened, 543 exclude as did not meet inclusion criteria (n = 315) or refused to participate (n = 248)

n= 76

Age: Mean 42 Range 16-

Sex: 25 males 51 females

Diagnosis:

100% Generalised Anxiety Disorder (GAD) by DSM-IV

Exclusions: A) did not meet the DMS-IV criteria for GAD; B) were not at least 16 years of age; C) received a GAD severity rating of less than 4 on the ADIS-IV

Baseline: Baseline ADIS score:

MI-CBT 6.03 (0.97)

CBT 6.03 (0.75)

Data Used

ADIS-IV

CGI

Meta-cognition Questionnaire

Sheehan Disability Scale (SDS)

Depression Anxiety Stress Scales

Penn State Worry Questionnaire

Data Not Used

Clinical significant change - Not standardised

Notes: DROP OUTS: MI + CBT = 6/44 (2 misdiagnosed), CBT = 6/46 (2 primary diagnosis shifted to MDD), WLC = same as CBT group.

### Group 1 N= 46

CBT. Mean dose 6 weekly 2 hour sessions, followed by 2 1 hr ses - Received CBT only (no pre-treatment of MI provided). Followed manual developed by Borkovec and colleagues involving self-monitoring, applied relaxation, cognitive therapy, & exposure to worry. Total of 14 hrs of CBT provided.

### Group 2 N= 46

Waiting-list control. Mean dose 4 weeks - The CBT only group were put on a waiting list for 4 weeks whilst awaiting CBT treatment and thus acted as a waiting list control comparison

### Group 3 N= 44

Motivational interviewing + CBT. Mean dose MI = 4 weeks, CBT = 8 weeks - Received 4 individual 50-min weekly MI sessions which followed the principles of Miller (2002) but with a focus on ambivalence and motivation to change worry & related problems. This was followed by 8 weeks of CBT (described above).

FUNDING: National Institute of Mental Health R34-MH072615 and a New Investigator award from the Canadian Institute of Health Research. Quality assessed: Unclear risk of bias for selection, performance & attrition. Low risk of bias for detection.

Results from this paper:  
 There was no statistically significant difference found between participants who received four weeks of motivational interviewing and those who did not on any outcome measures.

There was no statistical significant difference between MI plus CBT group and CBT only group on anxiety and depression outcomes at post-treatment, 6 months or 12 months follow up. The only statistically significant finding was found in improvement of worry score at post-treatment favouring MI plus CBT group.

Conclusions: As these findings are based on a single study, it is difficult to conclude the effect of motivational interviewing as a pre-treatment to CBT.

**WETHERELL2003**

<p>Study Type: RCT</p> <p>Study Description: Examined the effectiveness of CBT, discussion groups or a waiting period for older adults with GAD.</p> <p>Type of Analysis: Completers</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 84</p> <p>Followup: 6 month (not reportable)</p> <p>Setting: Recruited through hospital-affiliated health education programs, senior centers, and the media: California, US (advertised as Worry Reduction class)</p> <p>Notes: RANDOMISATION: No details</p> <p>Info on Screening Process: 498 screened, 423 excluded due to refusing to provide baseline data or not meeting diagnostic criteria</p>	<p>n= 75</p> <p>Age: Mean 67 Range 55-100</p> <p>Sex: 15 males 60 females</p> <p>Diagnosis:                  100% Generalised Anxiety Disorder (GAD) by DSM-IV</p> <p>Exclusions: a) primary diagnosis other than GAD; b) aged under 55; c) history of mania or psychosis, cognitive impairment; d) current participation in psychotherapy, alcohol or other substance abuse within 6 months; e) commencement of psychotropic medication within 2 months, and lack of a recent medical check-up to rule out alternative causes of anxiety symptoms.</p> <p>Notes: Individuals with disorders that mimic anxiety were also included, provided that they were under the care of a physician and disorder was medically controlled. Average duration: 29.4 (28.7)</p> <p>Baseline: GAD severity rating: CBT =4.9 (0.8), DG = 5.1 (1.1), WL = 5.1 (0.9)</p>	<p><b>Data Used</b></p> <p>Remission (not meeting diagnosis according to SCID)</p> <p>HDRS (Hamilton depression rating scale)</p> <p>QoL</p> <p>ADIS-IV</p> <p>Penn State Worry Questionnaire</p> <p>Beck Anxiety Inventory</p> <p>Beck Depression Inventory</p> <p>HARS (Hamilton anxiety rating scale)</p> <p><b>Data Not Used</b></p> <p>Response (20% improvement on 3/4 outcome measures) - no data</p> <p>High end state functioning - no data</p> <p>Notes: Taken at baseline, 12 weeks and 6 month follow up. DROP OUT: CBT = 8/26, DG = 8/26, WL = 2/23. (medication, therapist, comorbidity-&gt;attrition bias). Therapy delivered by advanced doctoral students in clinical psychology.</p>	<p><b>Group 1 N= 26</b></p> <p>CBT. Mean dose 12 sessions - Met for 90 mins weekly in groups of 4-6 adults with a leader. Consisted of relaxation training, cognitive restructuring, and worry exposure based on a manual. Also incorporated 30 min per day homework exercises.</p> <p><b>Group 2 N= 26</b></p> <p>Discussion group. Mean dose 12 sessions - Designed to be comparable to CBT in level of structure, with participants required to adhere to an agenda during sessions and with homework assignments of similar duration. Series of 12 discussions focused on topics known to be worry-provoking.</p> <p><b>Group 3 N= 23</b></p> <p>Waiting-list control. Mean dose 12</p>	<p>FUNDING: National Institute for Mental Health Grant, Quality Assessed: Selection B-unclear; Performance B-unclear; Attrition B-high; Detection B-Low</p>
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Results from this paper:  
 Moderate to large effect on Anxiety, depression, worry  
 Improved remission & response rates compared to WLC  
 No difference between CBT and discussion group.

Conclusions: Note the high attrition bias (those with history of psychotropic medication, those NOT taught by principal investigator had a higher attrition rate)

**Characteristics of Excluded Studies**

Reference ID	Reason for Exclusion
<b>BAKSHANI2007</b>	Participants aged under 18
<b>BOND2002a</b>	Combination therapy
<b>BONNE2003</b>	Not a psychological intervention
<b>BORKOVEC1987</b>	DSM III used
<b>BOYER2004</b>	Pharmacological study
<b>BUTLER1987</b>	Diagnostic criteria

<b>BUTLER1988</b>	Co-morbidity and diagnostic criteria
<b>CONRAD2008</b>	Outcome measures not valid
<b>DEN-BOER2007</b>	GAD not primary diagnosis (only 6% had GAD)
<b>DURHAM1987</b>	Aged under 18
<b>EVANS2008</b>	Not RCT
<b>FAVA2005</b>	n < 10 in each group
<b>FEDERICA2010</b>	n = 4 in each group
<b>GARCIA2004</b>	Not GAD specific: related to all anxiety disorders
<b>GATH1986</b>	Not given a primary diagnosis of GAD
<b>GOSSELIN2006</b>	Outside the scope: discontinuation of medication with psychological treatment
<b>JANNOUN1982</b>	Diagnostic criteria
<b>KIM2006a</b>	Pharmacological data
<b>LINDEN2002</b>	In german
<b>LINDSAY1987b</b>	DSM-III diagnosis
<b>MOHLMAN2003b</b>	N<10
<b>RUINI2006</b>	Outcome measures not viable. Also in Italian.
<b>STANLEY2003A</b>	Only 6 participants in each condition
<b>VAN-BOEIJEN2005</b>	GAD not primary diagnosis
<b>WELLS2006</b>	Non-RCT
<b>WHITE1992</b>	Non-RCT
<b>YONG2009</b>	Non-RCT

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**ARNTZ2003** (Published Data Only)

Arntz, A. (2003) Cognitive therapy versus applied relaxation as treatment of generalized anxiety disorder. *Behaviour Research and Therapy*, 41, 633-646.

**BARLOW1992** (Published Data Only)

Barlow, D. H., Rapee, R. M., & Brown, T. A. (1992) Behavioral treatment of generalized anxiety disorder, *Behavior Therapy*, 23, 551-570.

**BERG2009** (Published Data Only)

Berg, A. L., Sandell, R., & Sandahl, C. (2009) Affect-focused body psychotherapy in patients with generalized anxiety disorder: Evaluation of an integrative method, *Journal of Psychotherapy Integration*, 19, 67-85.

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Borkovec, T. D. & Costello, E. (1993) Efficacy of applied relaxation and cognitive-behavioral therapy in the treatment of generalized anxiety disorder. *Journal of Consulting & Clinical Psychology*, 61, 611-619.

**BORKOVEC2002** (Published Data Only)

Borkovec, T. D., Newman, M. G., Pincus, A. L., et al. (2002) A component analysis of cognitive-behavioral therapy for generalized anxiety disorder and the role of interpersonal problems. *Journal of Consulting and Clinical Psychology*, 70, 288-298.

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Butler, G., Fennell, M., Robson, P., et al. (1991) Comparison of behavior therapy and cognitive behavior therapy in the treatment of generalized anxiety disorder. *Journal of Consulting and Clinical Psychology*, 59, 167-175.

**Crits-Christoph2005** (Published Data Only)

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Dugas, M.J., Brillon, P., Savard, P., et al. (2009) A randomized clinical trial of cognitive-behavioral therapy and applied relaxation for adults with generalized anxiety disorder, *Behavior Therapy*, 10, 1-13.

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**JANBOZORGI2009** (Published Data Only)

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Ladouceur, R., Dugas, M. J., Freeston, M. H., et al. (2000) Efficacy of a cognitive-behavioral treatment for generalized anxiety disorder: Evaluation in a controlled clinical trial. *Journal of Consulting and Clinical Psychology*, 68, 957-964.

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Leichsenring, F., Salzer, S., Jaeger, U., et al. (2009) Short-term psychodynamic psychotherapy and cognitive-behavioral therapy in generalized anxiety disorder: A randomized, controlled trial. *American Journal of Psychiatry*, 166, 875-881.

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Linden, M., Zubaegel, D., Baer, T., et al. (2005) Efficacy of cognitive behaviour therapy in generalized anxiety disorders. *Psychotherapy and Psychosomatics*, 74, 36-42.

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Rezvan, S., Baghban, I., Bahrami, F., et al. (2008) A comparison of cognitive-behavior therapy with interpersonal and cognitive behavior therapy in the treatment of generalized anxiety disorder. *Counselling Psychology Quarterly*, 21, 309-321.

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White, J., Keenan, M., & Brooks, N. (1992) Stress control: A controlled comparative investigation of large group therapy for generalized anxiety disorder. *Behavioural Psychotherapy*, 20, 97-113.

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Yong, W. K., Lee, S. H., Tae, K. C., et al. (2009) Effectiveness of mindfulness-based cognitive therapy as an adjuvant to pharmacotherapy in patients with panic disorder or generalized anxiety disorder. *Depression and Anxiety*, 26, 601-606.

## Characteristics table for the clinical question: In the treatment of GAD, what are the risks and benefits associated with the following combination therapies compared with other interventions (including treatment as usual)?

### Comparisons Included in this Clinical Question

<b>Busiprone + anxiety management training vs. Busiprone + non-directive therapy</b>
BOND2002b

<b>Busiprone + anxiety management training vs. Placebo + anxiety management training</b>
BOND2002b

<b>Busiprone + anxiety management training vs. placebo + non directive therapy</b>
BOND2002b

<b>Busiprone + non-directive therapy vs. Placebo + anxiety management training</b>
BOND2002b

<b>Busiprone + non-directive therapy vs. Placebo + non-directive therapy</b>
BOND2002b

<b>Placebo + anxiety management training vs. placebo + non directive therapy</b>
BOND2002b

### Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
<p><b>BOND2002b</b></p> <p>Study Type: RCT</p> <p>Study Description: Examined the effectiveness of a short course of psychological therapy (AMT or non-directive therapy) combined with busiprone or placebo.</p> <p>Type of Analysis: Completers</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 7</p> <p>Followup: no mention</p> <p>Setting: Recruited patients from anxiety disorders clinic at Maudsley Hospital, London, UK</p> <p>Notes: RANDOMISATION: no details</p> <p>Info on Screening Process: No details</p>	<p>n= 60</p> <p>Age: Mean 34 Range 18-65</p> <p>Sex: 17 males 27 females</p> <p>Diagnosis: 100% Generalised Anxiety Disorder (GAD) by DSM-III-R</p> <p>Exclusions: Any other current psychiatric comorbidity as a primary diagnosis, the use of any psychotropic drug in the past 6 wks, or benzodiazepines in the past 6 months</p> <p>Baseline: HADS-anxiety: bus+ amt = 28.8 (4.8), bus + ndt = 29 (4.5), pl + amt = 27.7 (4.3), pl + ndt = 28.1 (2.7)</p>	<p><b>Data Used</b></p> <p>Hospital Anxiety and Depression Scale (depression)</p> <p>HAMA</p> <p>Hospital Anxiety and Depression Scale (anxiety)</p> <p>Notes: Outcomes are based on completer analysis. In total, 16 dropped out, no details for each group. Taken at baseline, 4 &amp; 8 wks.</p>	<p><b>Group 1 N= 14</b></p> <p>Placebo + non-directive therapy. Mean dose 7 - same as before</p> <p><b>Group 2 N= 12</b></p> <p>Placebo + AMT. Mean dose 7 - same as before</p> <p><b>Group 3 N= 7</b></p> <p>Busiprone + non-directive therapy. Mean dose 7 - Busiprone : see previous. NDT allowed clients to talk freely with feelings acknowledged, reflecting back content, adopting a non-judgmental stance.</p> <p><b>Group 4 N= 11</b></p> <p>Busiprone + AMT. Mean dose 7 - Busiprone (5mg) was given in flexible dosage, starting at 3 capsules a day during 1st wk but allowing for an increase of up to 6 capsules thereafter. AMT was designed to be educational &amp; interactive therapy.</p>	<p>Funding = supported by the UK medical research council. Quality assessed: Selection bias: unclear risk of bias, performance bias: high risk, attrition bias: unclear risk, detection bias: low risk</p>

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**BOND2002b** (Published Data Only)

Bond, A.J., Wingrove, J., Curran, H.V., et al. (2002) Treatment of generalised anxiety disorder with a short course of psychological therapy, combined with busiprone or placebo. Journal of Affective Disorders, 72, 267-271.

