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Third-Generation Approaches to Behavior Therapy

Chair: Jarrod S. Turner (Murdoch University)

Clinical Evaluation of Behavioral Activation Treatment of Anxiety (BATA) in Three Older Adults (Applied Behavior Analysis) JARROD S. TURNER David J. Leach (Murdoch University)

Abstract: This paper describes three single-case experimental evaluations of behavioral activation treatment of anxiety (BATA) applied with a 51-year-old male, a 62-year-old female, and a 53-year-old female, each of whom met DSM-IV criteria for generalised anxiety disorder (GAD). Each case was a clinical replication of an initial trial of BATA reported in Turner and Leach (2009). Treatment was delivered in twelve weekly 60-minute individual sessions and evaluated using an A-B-C phase change with repeated measurement design. Decreased scores in self-reported anxiety were obtained in each case and the improvements were maintained during a 3-month no treatment maintenance phase. Compared to baseline, each participant also recorded increases in activity levels in some key life areas during the treatment phase. These preliminary findings suggest that increased activation in functionally positive areas is associated with reported decreases in anxiety and that BATA could be an effective stand-alone treatment for GAD in adults.

Clinical Evaluation of Behavioral Activation Treatment of Anxiety (BATA) in 3 Older Adults

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Turner, J.S., & Leach, D.J. (2010).
Experimental evaluation of behavioral
activation treatment of anxiety (BATA) in
three older adults. *International Journal
of Behavioral Consultation and Therapy*,
6 (4), 373-394.

Turner, J.S., & Leach, D.J. (2009). Brief
behavioral activation treatment of
chronic anxiety in an older adult.
Behaviour Change, 26 (3), 214-222.



Definition

Behavioral activation (BA) therapy includes techniques to specifically increase the level of client engagement in meaningful activities

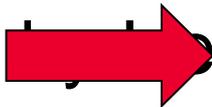
The aim is for the client to contact naturally occurring sources of reinforcement for overt behaviors that may have anti-depressant or anxiolytic functions



Principles

BA is based on the principles of operant conditioning

Concurrent schedules of reinforcement maintain a person's levels of clinically relevant behaviors (healthy and non-healthy)

Illustrated by  ~~Thorstein's~~ Matching Law equation:

$$T_1 = r_1$$

$$T_1 + T_2 = r_1 + r_2$$



Empirical Evidence

Jacobson et al. (1996). Large scale RCT: 'Beckian' CBT vs BA/AT vs BA alone. No outcome differences post treatment & 6 month follow-up.

Gortner et al. (1998). No outcome differences at 2 year follow-up.

Dimidjian et al., (2006). Replication: CBT vs BA vs ADM. No outcome differences post treatment & 6 month follow-up.

BA more effective than CBT with the 'high severity' group



The Current Model (BATA)

Discrete responses are placed within broad functional classes of behaviours (avoidance and approach)

Increased contact with (+) for approach behaviors and decreased contact with (-) for avoidance behaviors weakens the contextual support for anxiety

Increased likelihood of extinction of learned (classically conditioned) fears (i.e., accordant with two-process (factor) models)



The Present Study

Single-case within-subject experimental (A/B/C) design:

‘A’ phase was baseline (self-monitoring (SM) & standardised self-report): 16 to 35 days

‘B’ was treatment: 12 x 1hr weekly individual BA sessions (84 days)

‘C’ was no-treatment maintenance/follow-up (no SM): 84 days

Total of 7 clinical replications (3 in today’s paper)

Measures

Beck Anxiety Inventory (BAI)

Depression, Anxiety, Stress Scales (DASS)

Self-monitored Anxiety Ratings

Self-monitored Activity Recording

Treatment

- (Functional Contextual) Psycho-education, e.g., 3-term contingency / ABC analysis
- Self monitoring
- Goal setting (short, medium, long)
- Activity scheduling
- Task analysis
- Activity reviews
- Avoidance blocking
- Behavioral problem solving

Case 1 Frank

51 Year old male

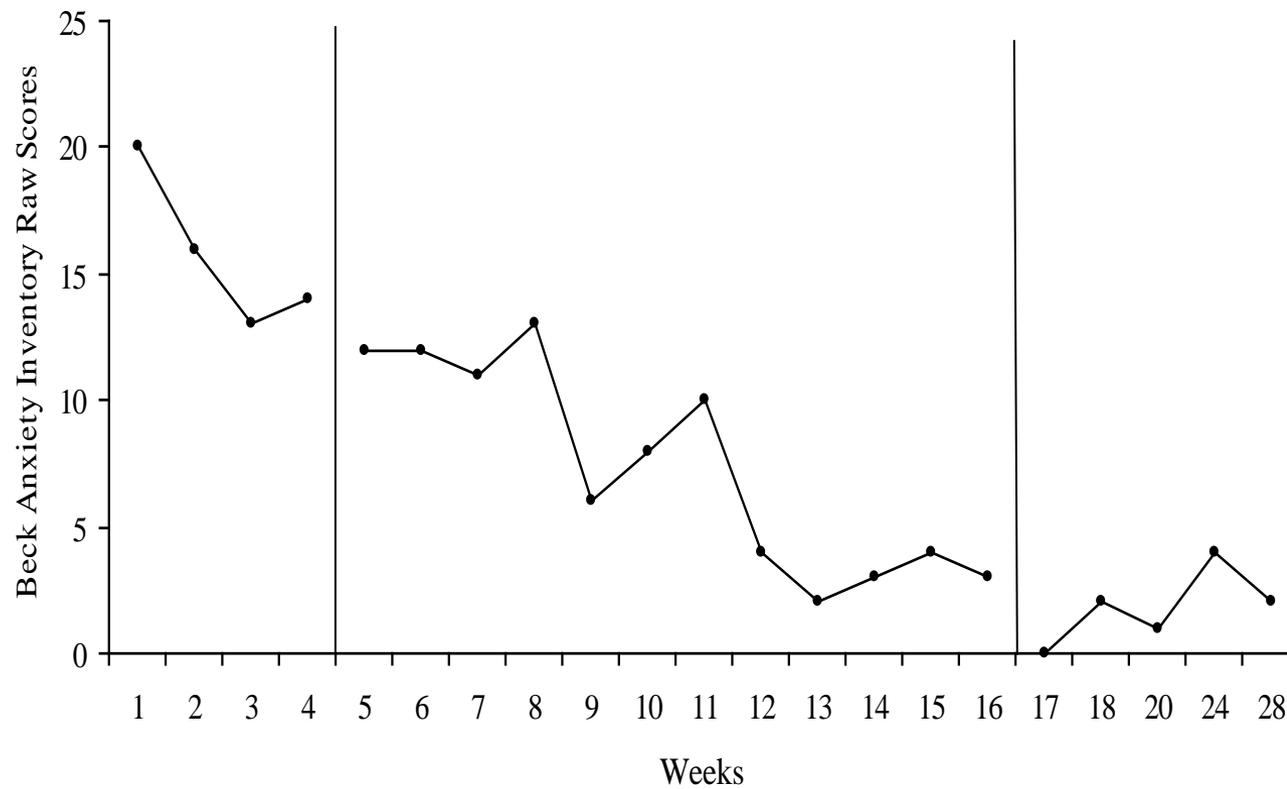
Artist (painter), lecturer, PHD candidate

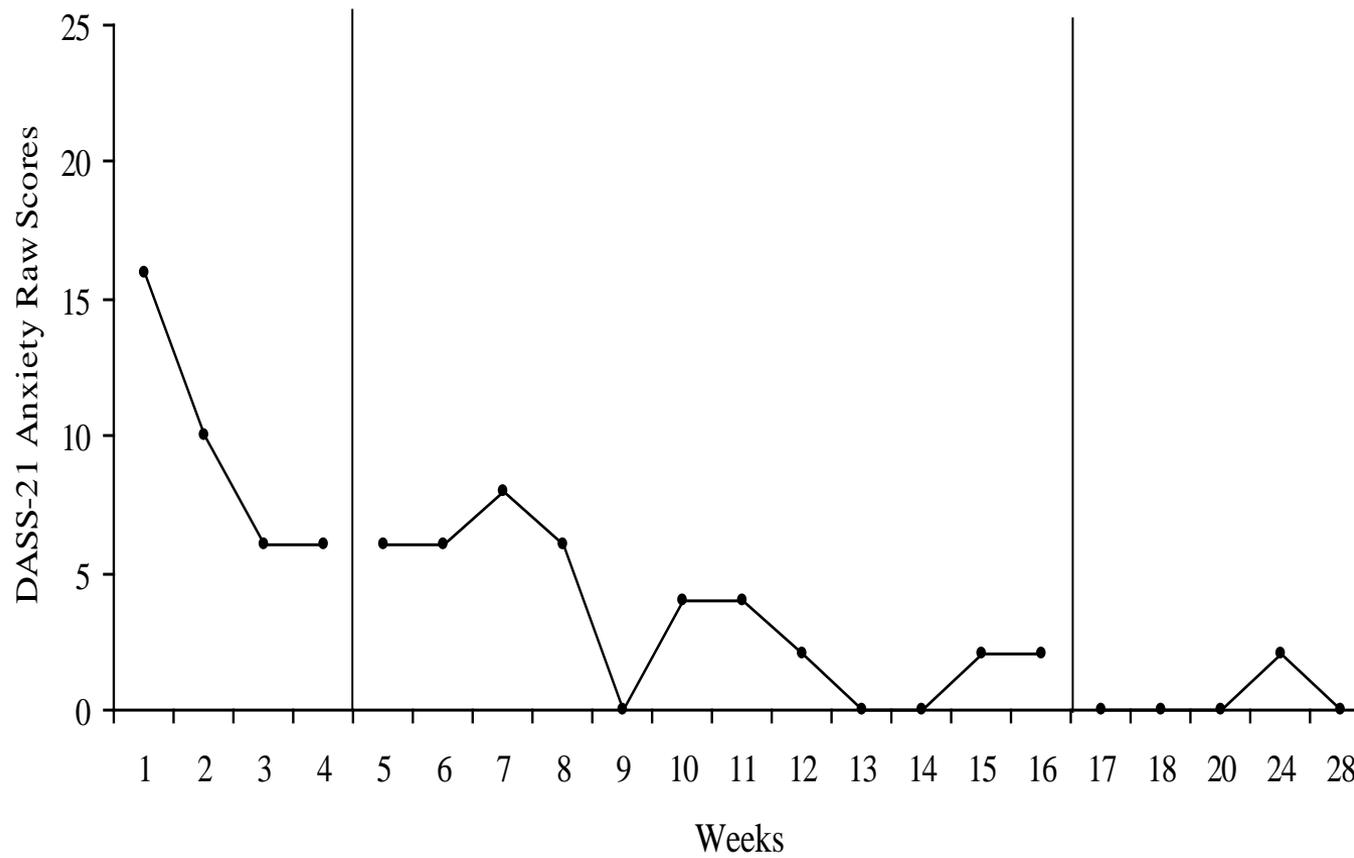
Lengthy psychotherapy history

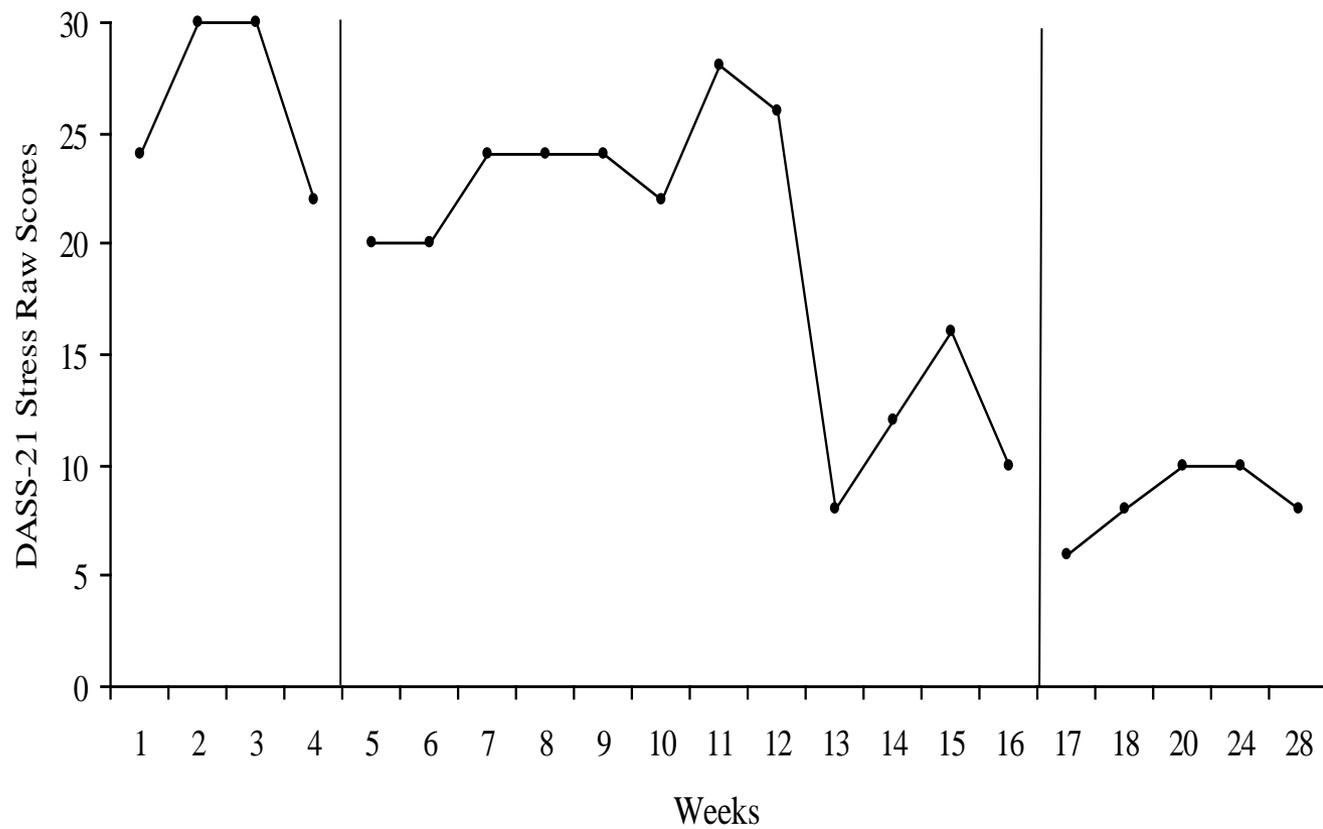
DSM-IV criteria –

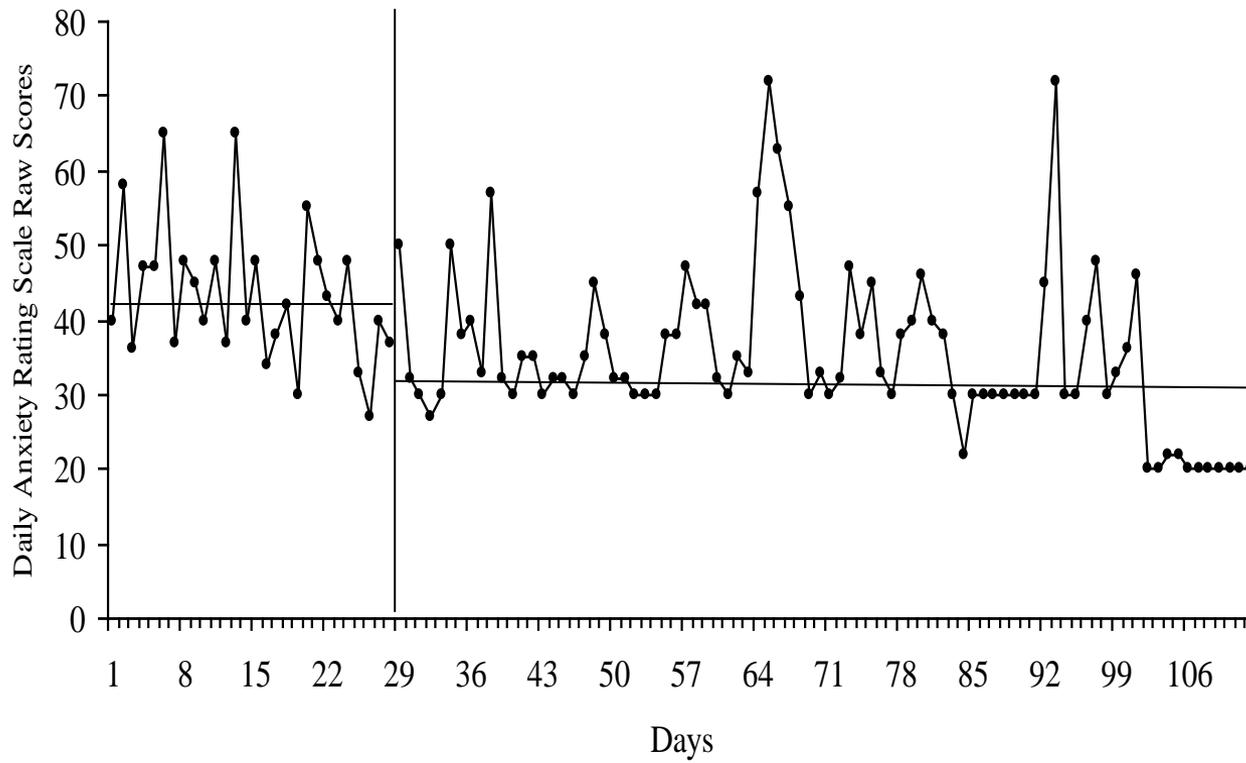
Social Anxiety Disorder (Generalised)

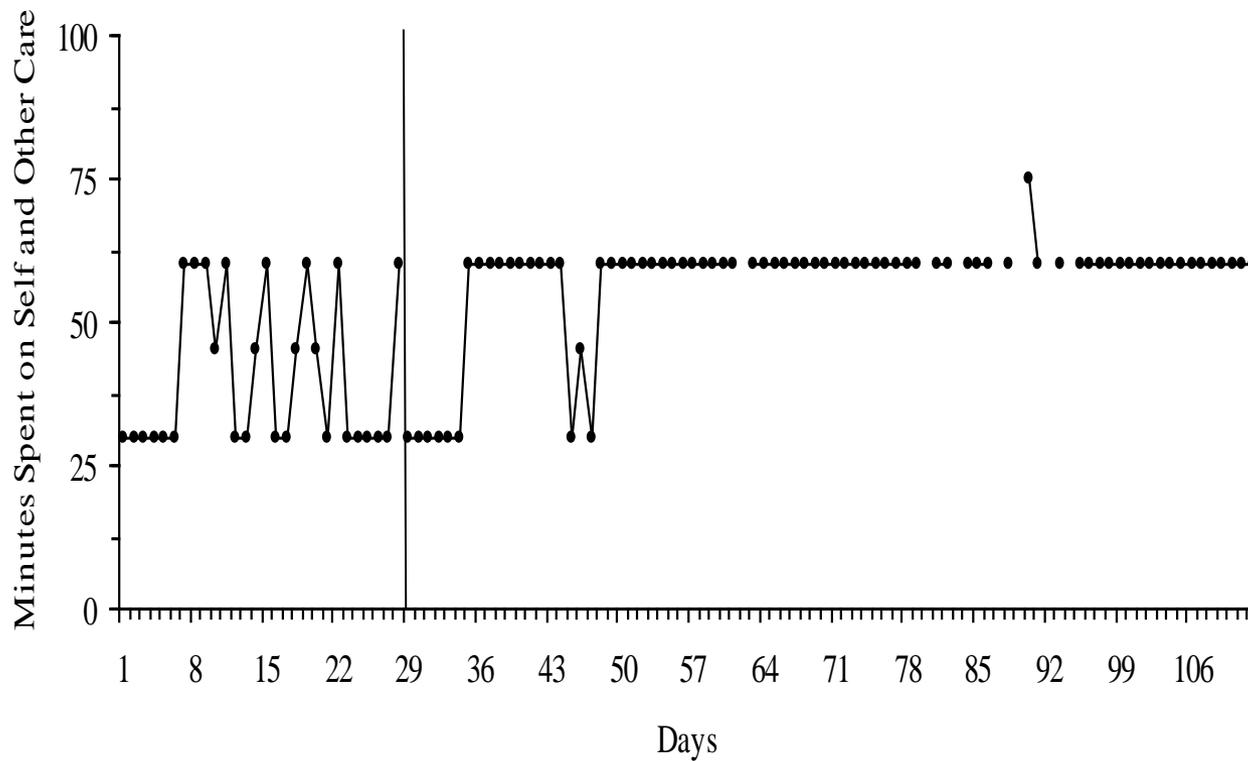
Generalised Anxiety Disorder

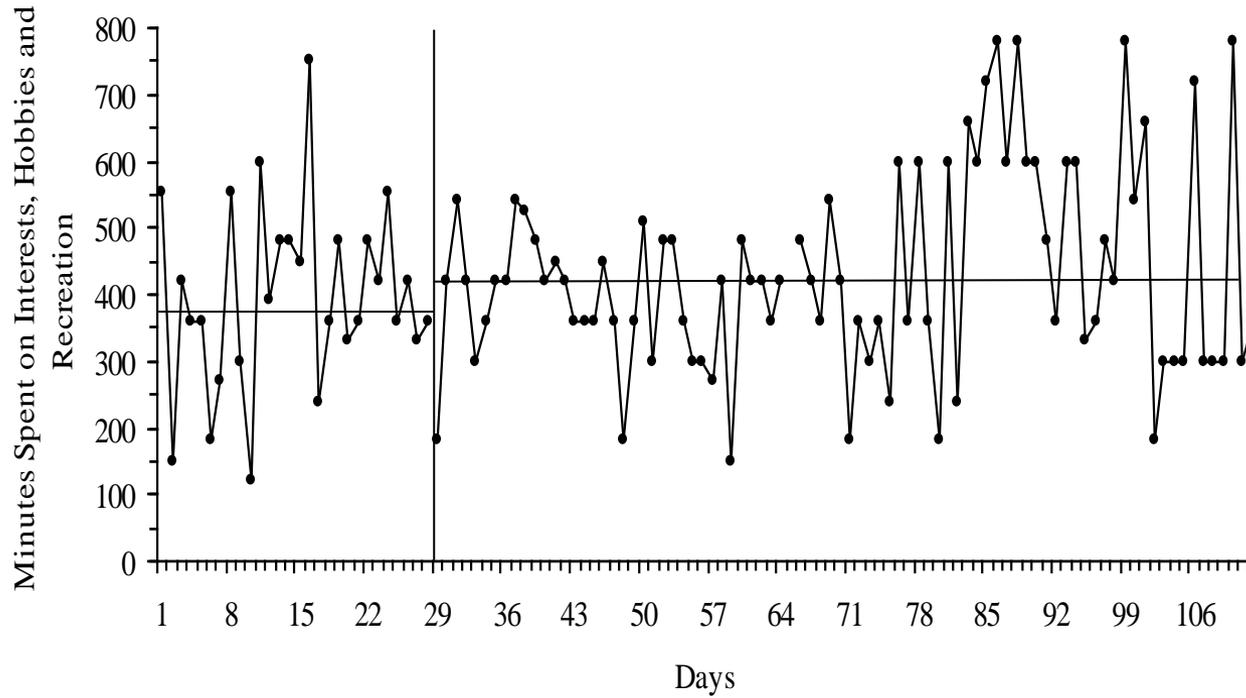


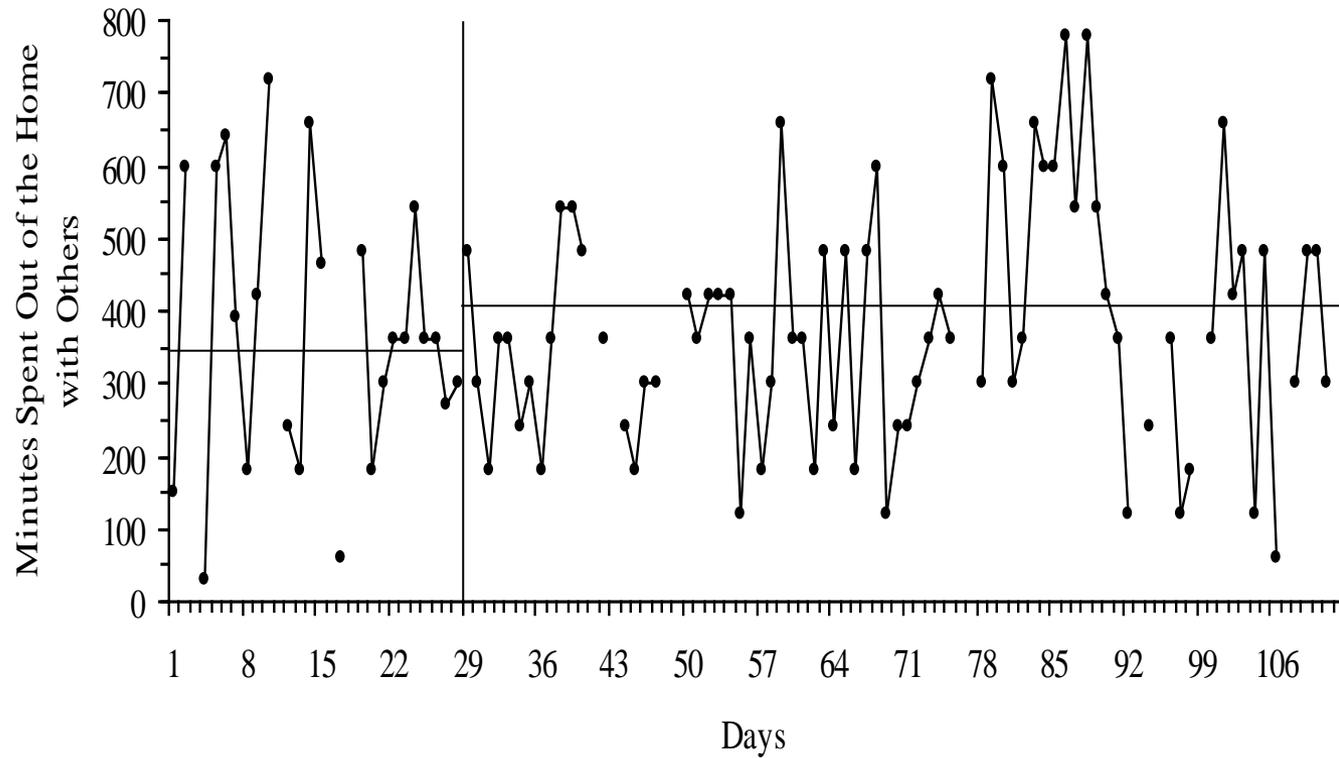












Case 2 Mary

62 Year old female

Part time conservation worker

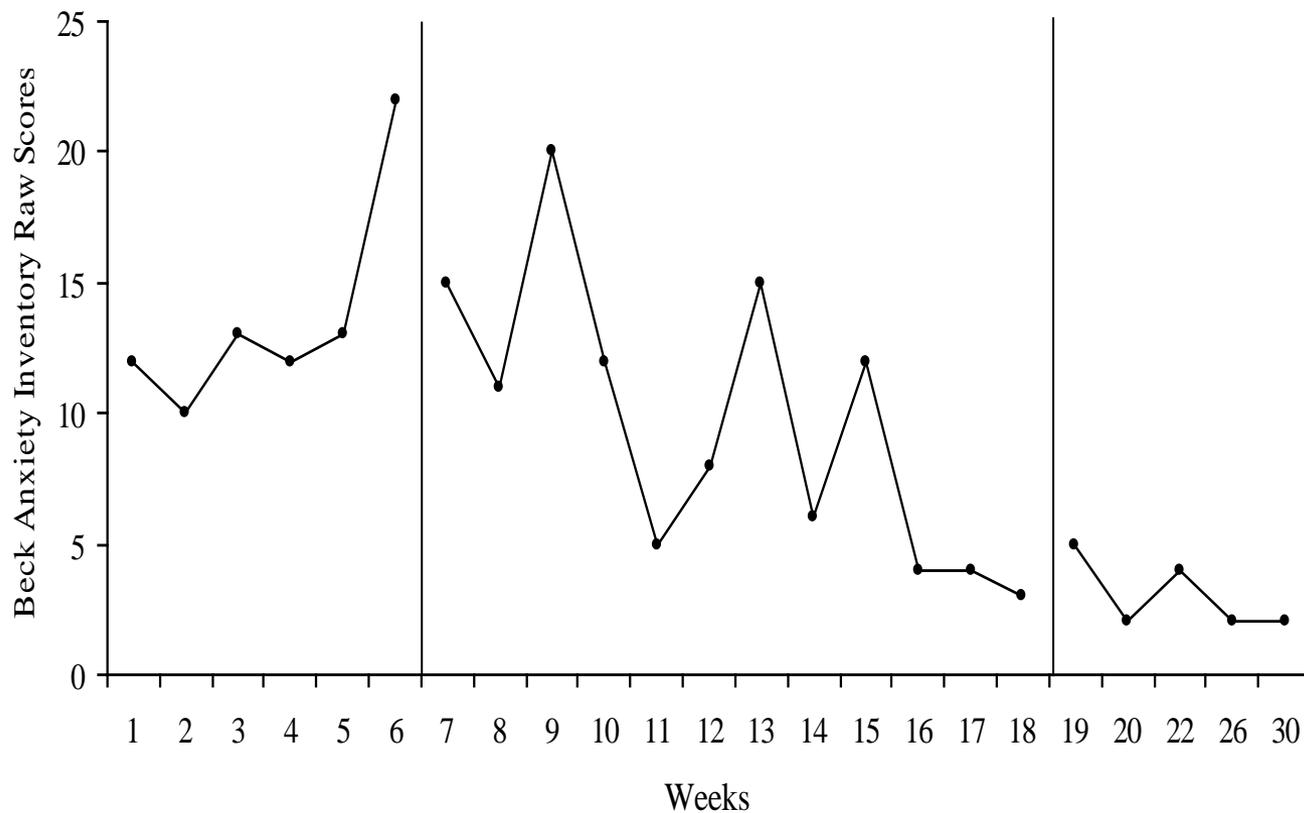
No psychotherapy history

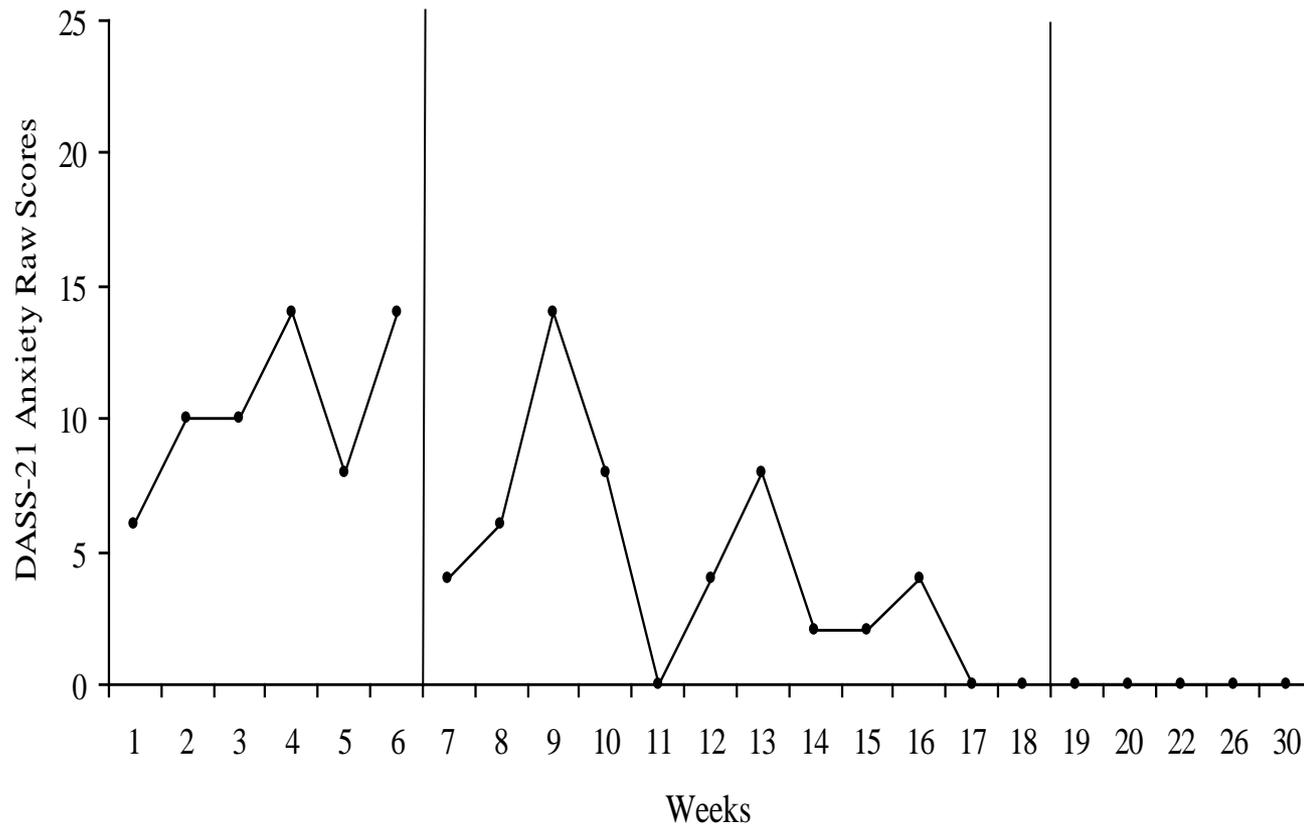
Recent migration to Australia from the UK

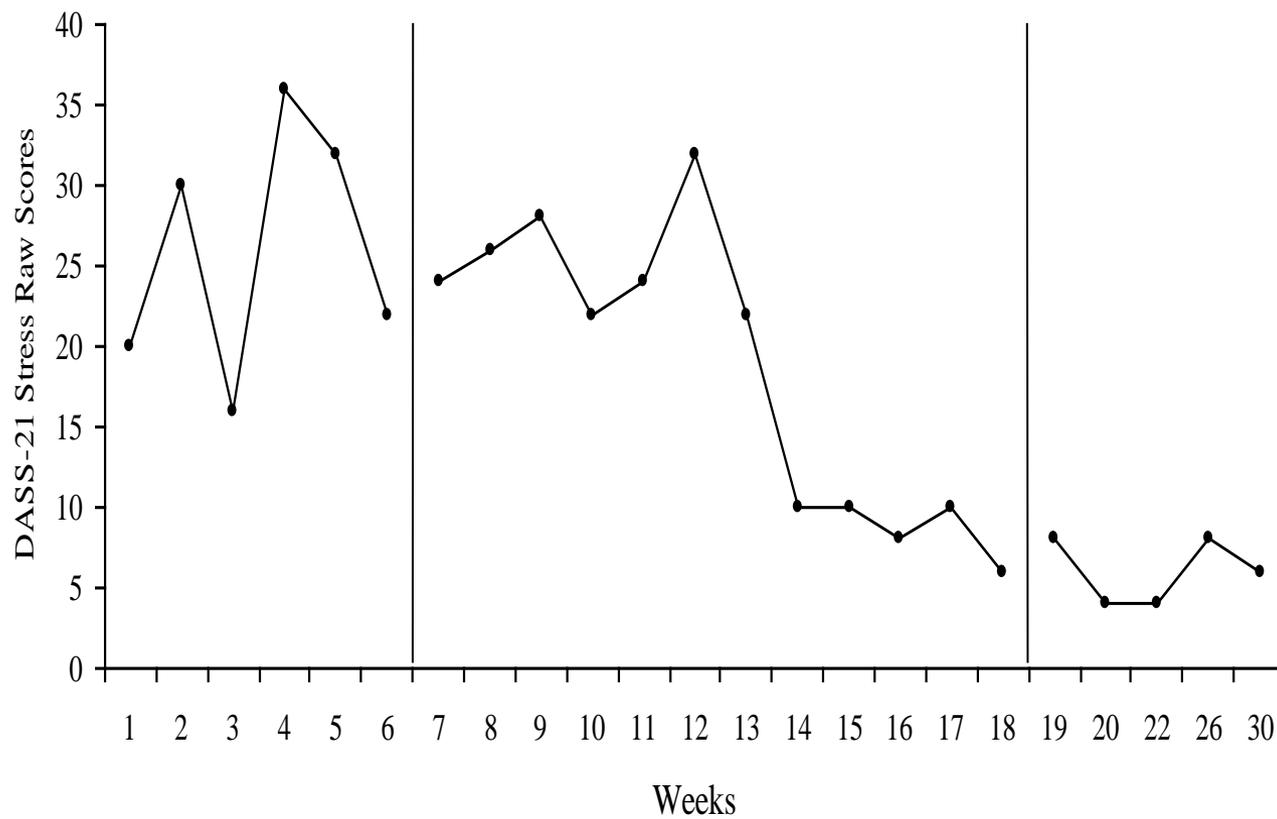
DSM-IV criteria –

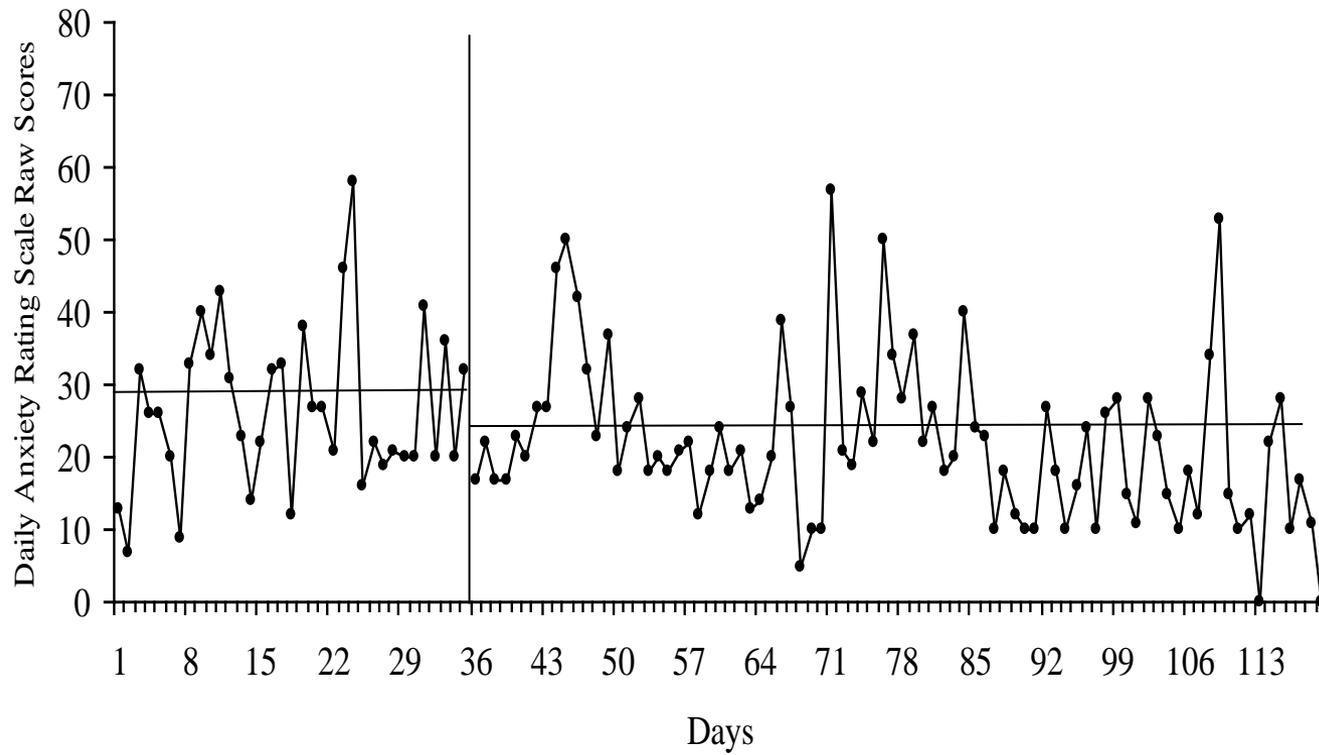
Specific Phobia (Situational)

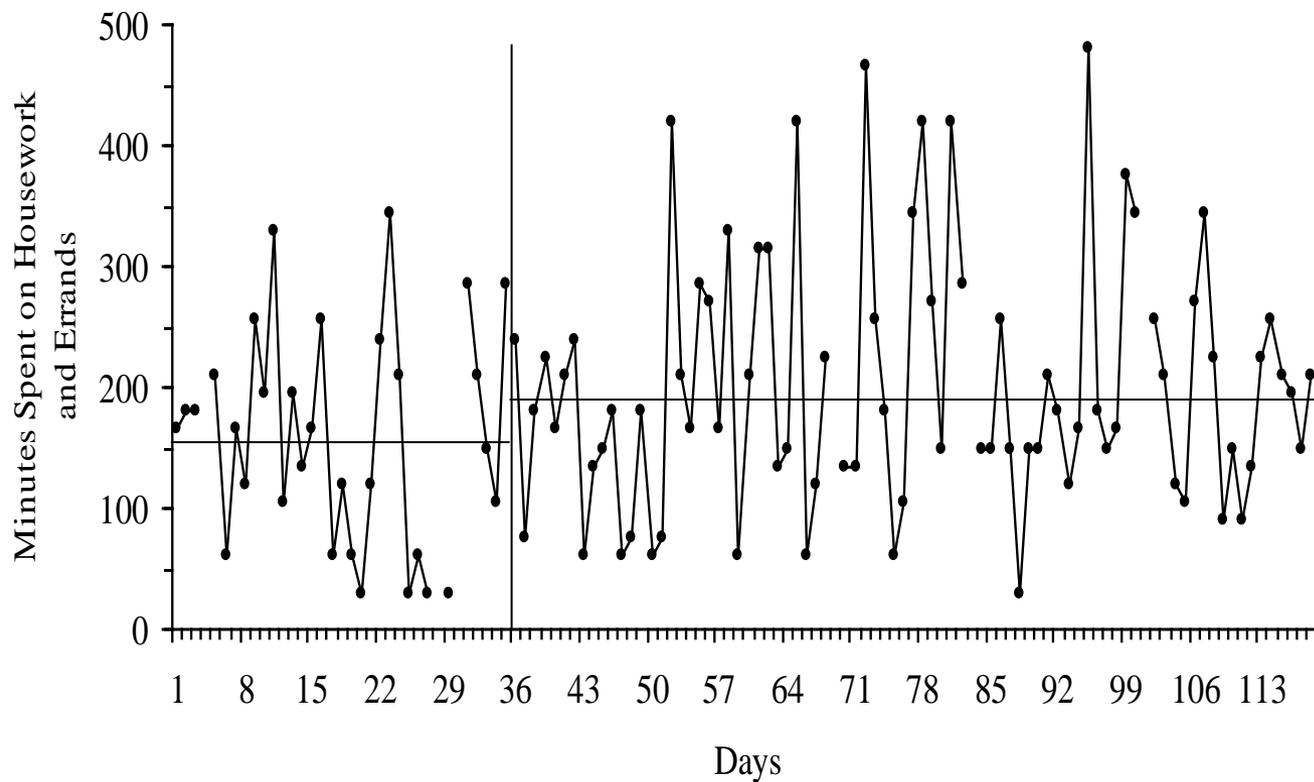
Generalised Anxiety Disorder

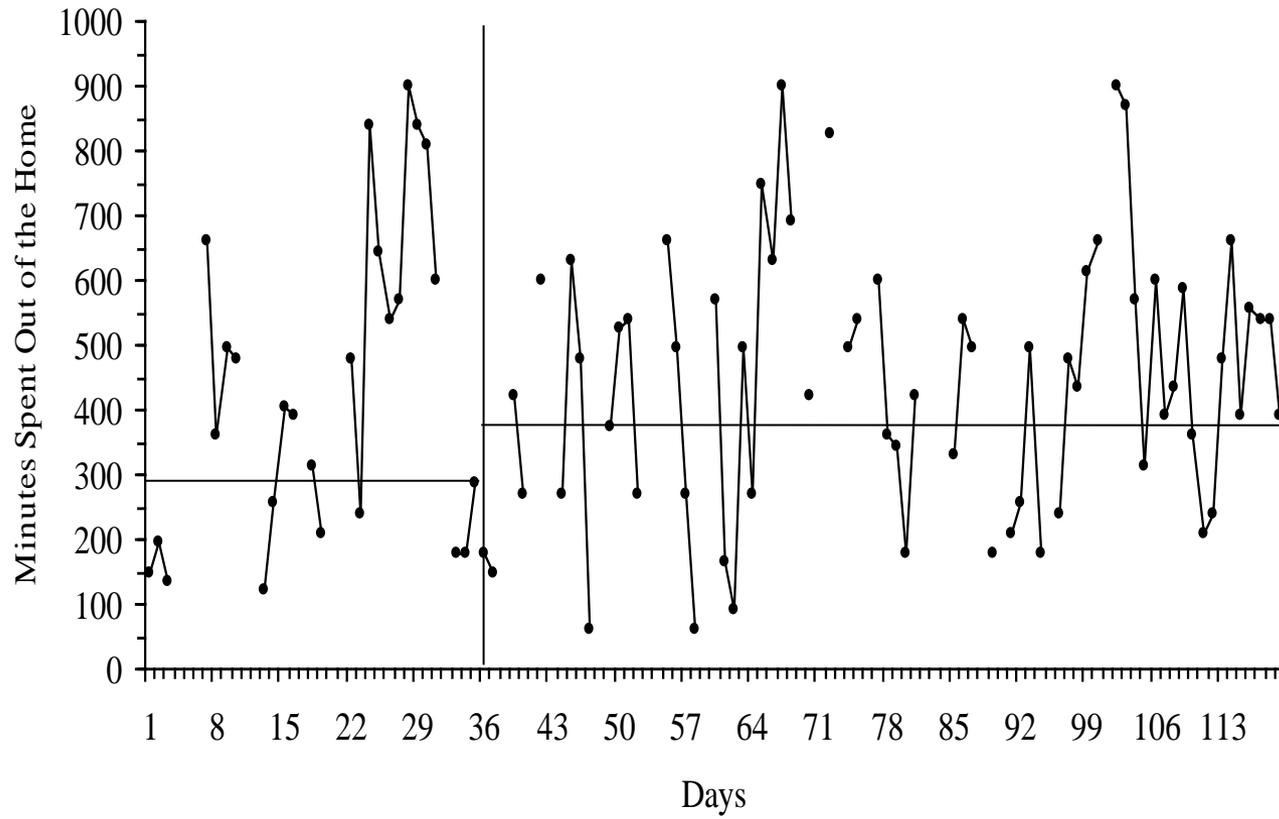












Conclusions

Effective, time efficient, and lasting treatment,
yet rarely applied with anxiety

This study showed that increases in activity
occurred in the context of concurrent decreases
in reported anxiety and stress

In these cases, no need for adjunctive
techniques

The treatment model matches the underlying
principles of behavior