TECHNICAL COMMENTARY

Present-centred therapy

Introduction

Present-centred therapy is a non-trauma-based treatment that may appeal to patients reluctant to engage in trauma-focussed treatments. Present-centred therapy aims to establish positive interpersonal connections through the therapeutic relationship, normalisation of symptoms, validation of experiences, provision of emotional support, and increased sense of mastery and self-confidence in dealing with problems. It has elements of supportive therapy but is a more structured approach that follows a manual and includes the use of a diary to record problems throughout the week. In treatment, patients gain increased insight into how current behaviours are influenced by their symptoms, explore adaptive solutions to these problems, and are encouraged to implement some of their chosen solutions. Through the application and practice of more effective solutions to daily stressors, patients experience enhanced psychosocial functioning and decreased symptoms.

Method

We have included only systematic reviews (systematic literature search, detailed methodology with inclusion/exclusion criteria) published in full text, in English, from the year 2010 that report results separately for people with PTSD. Reviews were identified by searching the databases MEDLINE, EMBASE, and PsycINFO. When multiple copies of review topics were found, only the most recent and comprehensive version was included. We prioritised reviews with pooled data for inclusion.

Review reporting assessment was guided by the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) checklist that describes a preferred way to present a meta-analysis[1]. Reviews with less than 50% of items checked have been excluded from the library. Note that early reviews may have been guided by less stringent reporting checklists than the PRISMA, and that some reviews may have been limited by journal guidelines.

Evidence was graded using the Grading of Recommendations Assessment, Development and Evaluation (GRADE) Working Group approach where high quality evidence such as that gained from randomised controlled trials (RCTs) may be downgraded to moderate or low if review and study quality is limited, if there is inconsistency in results, indirect comparisons, imprecise or sparse data and high probability of reporting bias. It may also be downgraded if risks associated with the intervention or other matter under review are high. Conversely, low quality evidence such as that gained from observational studies may be upgraded if effect sizes are large or if there is a dose dependent response. We have also taken into account sample size and whether results are consistent, precise and direct with low associated risks (see end of table for an explanation of these terms)[2]. The resulting table represents an objective summary of the available evidence, although the conclusions are solely the opinion of staff of NeuRA (Neuroscience Research Australia).

Results

We found one systematic review that met our inclusion criteria[3].

- Moderate quality evidence found a large improvement in PTSD symptoms with present-centred therapy compared to waitlist controls, however present-centred therapy was associated with less improvement in symptoms when compared to trauma-focussed CBT. Fewer people dropped out of treatment with present-centred therapy than with trauma-focussed CBT.

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POST-TRAUMATIC STRESS DISORDER LIBRARY

Present-centred therapy

Belsher BE, Beech E, Evatt D, Smolenski DJ, Shea MT, Otto JL, Rosen CS, Schnurr PP

Present-centred therapy (PCT) for post-traumatic stress disorder (PTSD) in adults

Cochrane Database of Systematic Reviews 2019 (11)

[View review abstract online](#)

Comparison	**Present-centred therapy vs. waitlist or trauma-focussed CBT.**
Summary of evidence	**Moderate quality evidence (medium to large samples, some inconsistency, precise, direct) found a large improvement in PTSD symptoms with present-centred therapy compared to waitlist controls, however present-centred therapy was associated with less improvement in symptoms when compared to trauma-focussed CBT. Fewer people dropped out of treatment with present-centred therapy than with trauma-focussed CBT.**

PTSD symptoms
A large effect showed present-centred therapy was more effective than waitlist in reducing PTSD symptom severity; 3 RCTs, N = 290, SMD = -0.84, 95%CI -1.10 to -0.59, $p < 0.05$, $I^2 = 0\%$ *Present-centred therapy was inferior to trauma-focussed CBT for PTSD symptoms;* 6 RCTs, N = 1,129, SMD = 0.32, 95%CI 0.08 to 0.56, $p < 0.05$, $I^2 = 69\%$ This effect was smaller at 6-12 months (SMD = 0.17).

Risks	Present-centred therapy had fewer dropouts than CBT.
Consistency in results‡	Consistent for waitlist comparison, inconsistent for CBT comparison.
Precision in results§	Precise
Directness of results‖	Direct

Explanation of acronyms

CBT = cognitive behavioural therapy, CI = confidence interval, I^2 = the percentage of the variability in effect estimates that is due to heterogeneity rather than sampling error (chance), N = number of participants, p = statistical probability of obtaining that result, SMD = standardised mean difference, vs. = versus

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TECHNICAL COMMENTARY

Present-centred therapy

Explanation of technical terms

* Bias has the potential to affect reviews of both RCT and observational studies. Forms of bias include; reporting bias – selective reporting of results; publication bias - trials that are not formally published tend to show less effect than published trials, further if there are statistically significant differences between groups in a trial, these trial results tend to get published before those of trials without significant differences; language bias – only including English language reports; funding bias - source of funding for the primary research with selective reporting of results within primary studies; outcome variable selection bias; database bias - including reports from some databases and not others; citation bias - preferential citation of authors. Trials can also be subject to bias when evaluators are not blind to treatment condition and selection bias of participants if trial samples are small[4].

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† Different effect measures are reported by different reviews.

Prevalence refers to how many existing cases there are at a particular point in time. Incidence refers to how many new cases there are per population in a specified time period. Incidence is usually reported as the number of new cases per 100,000 people per year. Alternatively some studies present the number of new cases that have accumulated over several years against a person-years denominator. This denominator is the sum of individual units of time that the persons in the population are at risk of becoming a case. It takes into account the size of the underlying population sample and its age structure over the duration of observation.

Reliability and validity refers to how accurate the instrument is. Sensitivity is the proportion of actual positives that are correctly identified (100% sensitivity = correct identification of all actual positives) and specificity is the proportion of negatives that are correctly identified (100% specificity = not identifying anyone as positive if they are truly not).

Weighted mean difference scores refer to mean differences between treatment and comparison groups after treatment (or occasionally pre to post treatment) and in a randomised trial there is an assumption that both groups are comparable on this measure prior to treatment. Standardised mean differences are divided by the pooled standard deviation (or the standard deviation of one group when groups are homogenous) that allows results from different scales to be combined and compared. Each study's mean difference is then given a weighting depending on the size of the sample and the variability in the data. Less than 0.4 represents a small effect, around 0.5 a medium effect, and over 0.8 represents a large effect[4].

Odds ratio (OR) or relative risk (RR) refers to the probability of a reduction (< 1) or an increase (> 1) in a particular outcome in a treatment group, or a group exposed to a risk factor, relative to the comparison group. For example, a RR of 0.75 translates to a reduction in risk of an outcome of 25% relative to those not receiving the treatment or not exposed to the risk factor. Conversely, a RR of 1.25 translates to an increased risk of 25% relative to those not receiving treatment or not having been exposed to a risk factor. A RR or OR of 1.00 means there is no difference between groups. A medium effect is considered if RR > 2 or < 0.5 and a large effect if RR > 5 or < 0.2[5]. lnOR stands for logarithmic OR where a lnOR of 0 shows no difference between groups. Hazard ratios measure the effect of an explanatory variable on the hazard or risk of an event.

Correlation coefficients (eg, r) indicate the strength of association or relationship

between variables. They can provide an indirect indication of prediction, but do not confirm causality due to possible and often unforseen confounding variables. An r of 0.10 represents a weak association, 0.25 a medium association and 0.40 and over represents a strong association. Unstandardised (*b*) regression coefficients indicate the average change in the dependent variable associated with a 1 unit change in the independent variable, statistically controlling for the other independent variables. Standardised regression coefficients represent the change being in units of standard deviations to allow comparison across different scales.

‡ Inconsistency refers to differing estimates of effect across studies (i.e. heterogeneity or variability in results) that is not explained by subgroup analyses and therefore reduces confidence in the effect estimate. I² is the percentage of the variability in effect estimates that is due to heterogeneity rather than sampling error (chance) - 0% to 40%: heterogeneity might not be important, 30% to 60%: may represent moderate heterogeneity, 50% to 90%: may represent considerable heterogeneity and over this is considerable heterogeneity. I² can be calculated from Q (chi-square) for the test of heterogeneity with the following formula[4];

$$I^2 = \left(\frac{Q - df}{Q} \right) \times 100\%$$

§ Imprecision refers to wide confidence intervals indicating a lack of confidence in the effect estimate. Based on GRADE recommendations, a result for continuous data (standardised mean differences, not weighted mean differences) is considered imprecise if the upper or lower confidence

limit crosses an effect size of 0.5 in either direction, and for binary and correlation data, an effect size of 0.25. GRADE also recommends downgrading the evidence when sample size is smaller than 300 (for binary data) and 400 (for continuous data), although for some topics, these criteria should be relaxed[6].

‖ Indirectness of comparison occurs when a comparison of intervention A versus B is not available but A was compared with C and B was compared with C that allows indirect comparisons of the magnitude of effect of A versus B. Indirectness of population, comparator and/or outcome can also occur when the available evidence regarding a particular population, intervention, comparator, or outcome is not available and is therefore inferred from available evidence. These inferred treatment effect sizes are of lower quality than those gained from head-to-head comparisons of A and B.

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