Editorial

Cognitive–behavioural therapy for severe mental disorders: back to the future?†

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Summary

Like recent medication studies, it appears that when cognitive–behavioural therapy is tested in pragmatic effectiveness trials involving routine clinical populations it does not fare as well as in efficacy trials. Given the multitude of factors that can ‘muddy the waters’ in clinical trials, how do we best make sense of the findings?

Declaration of interest

Jan Scott was Principal Investigator on the Medical Research Council effectiveness study of cognitive–behavioural therapy for bipolar disorders and on the Trial Steering Committee for the Welcome study undertaken by Garety et al (in this issue). She has received honoraria for Continuing Medical Education talks on psychological therapies for severe mental disorders from AstraZeneca, BMS-Otsuka, Eli Lilly, GlaxoSmithKline, Jansen-Cilag and Sanofi Aventis.

The basic aims of treatments for schizophrenia, and indeed all severe mental disorders, are to reduce symptoms and distress, enhance functioning and prevent relapse. For many decades, individual variability in the nature and severity of symptoms and differing responses to available treatments suggested achieving these aims would remain elusive. The introduction of second-generation atypical antipsychotics followed by developments such as cognitive–behavioural therapy (CBT) for medication-refractory delusions created renewed optimism, especially as initial randomised controlled trials (RCTs) indicated that these new interventions produced significantly better clinical outcomes with fewer side-effects than all the previously established treatments. Presentations at research meetings began to echo the Dodo in Alice’s Adventures in Wonderland: ‘Everybody had won and all must have prizes’. Further efficacy RCTs of second-generation antipsychotics and CBT demonstrated benefits across the full range of severe mental disorders — indeed, a cursory review of the research literature at the turn of the century might easily leave the impression that second-generation antipsychotics and CBT were psychiatry’s equivalent of steroids in general medicine.

Failures to replicate the initial impressive benefits in later trials together with a series of meta-analyses of antipsychotics and psychological therapies for schizophrenia suggested that effects had been overestimated. Sadly, this information neither received as much attention as the results of earlier studies, nor deterred had been overestimated. Sadly, this information neither received psychological treatment for those with severe mental disorders. Ironically, the data supporting adjunctive therapy has virtually all come from efficacy RCTs, and it is important to acknowledge that it is the consequence of this now seems to be that when independent multicentre RCTs of effectiveness are carried out in ‘real world’ secondary care settings the apparent additional benefits of new treatments disappear. It is in this context that the trial of Garety et al † needs to be judged.

Onken et al † describe three progressive stages in the evolution of evidence-based therapies: the development phase (feasibility studies, development of therapy manuals), efficacy RCTs and exploratory studies of mechanisms of action, and studies of

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generalisability and transportability. Cognitive–behavioural therapy for psychosis had a remarkably long gestation, with case reports appearing nearly 40 years before the publication of pilot RCTs and therapy manuals. There are now over 30 published efficacy trials and a recent comprehensive meta-analysis reported that, compared with usual treatment alone, CBT plus usual treatment demonstrates statistically significant effects on depression, anxiety, positive and negative symptoms and functioning, but not relapse rates. It confirmed that individuals who show the most robust benefit from CBT for psychosis have stable, persistent but distressing, medication-refractory positive symptoms. However, the meta-analysis also demonstrated that as sample sizes and methodological rigour increase, effect sizes decrease by 50–100%.

Effectiveness trials and the exploration of generalisability

In light of this comprehensive evaluation of existing research, the findings of Garety et al fall within the range of expected outcomes. The design of their trial also offers insights into factors affecting the general application of CBT and family therapy for psychoses. The findings that CBT is not effective in reducing relapses in psychosis, yet has some benefit on depression, delusional distress and social functioning are consistent with the more modest effect sizes reported in larger-scale efficacy RCTs. Also, Garety et al note that in CBT, for people with psychosis, some of the therapy benefits are restricted to those living with a significant other person (a factor known to predict better outcome in CBT for depression). Unfortunately, the equivalence in group outcomes was not a consequence of a good response to standard care in the controls but rather to a disappointing lack of progress across all randomised groups. Although suboptimal prescribing and non-adherence were frequent, the clear message was that adjunctive therapy did not perform well and it is important to consider the reasons for this. First, in a sample predominantly comprised of single males, the acceptability of and adherence with therapy was no greater than for medication; the drop-out rates for CBT and family therapy (25–30%) are equivalent to those reported for medication, while those allocated to therapy usually attended only about 60% of the sessions offered. Furthermore, even though access to NHS therapy is still restricted and waiting times exorbitant, only about 60% of more than 600 potential participants agreed to inclusion. It is highly likely that, among the many reasons for this low level of agreement, some declined because they did not want therapy. It seemed especially hard to get patients and their family to simultaneously consent to participate in family therapy, and there appeared to be under-representation of high ‘expressed emotion’ families (those we might postulate would benefit most from family therapy) among those recruited.

One barrier to the generalisability of CBT may be the level of competence of local therapists and their compliance to the model. Garety et al monitored quality as much as was feasible, but their comment that ‘therapy was competently delivered’, may be an overestimate. The data provided only allow us to conclude that 44% of those in the CBT and 39% in the family therapy groups received some sessions that met appropriate standards. More tellingly, the authors discuss that, in the absence of acute symptoms or distress, CBT therapists often found it difficult to maintain a clear focus and instead covered a wide range of nonspecific problems and ‘adopted a general approach to emotional distress’. The lack of specific active elements of CBT would suggest the approach had relatively few features distinguishing it from generic case management. This may have undermined the effectiveness of CBT in this RCT, but it is a realistic representation of the problems of delivering therapy in general clinical settings.

Every treatment has limits

No single research trial provides the answers to all the questions that arise when we endeavour to employ research-proven treatments in clinical practice. Critics of efficacy RCTs are quick to suggest we cannot use reported outcomes to predict response rates in heterogeneous clinical samples, but critics of effectiveness trials justifiably argue that these RCTs just trade one set of problems for another. Broad-based, pragmatic trials with few exclusion criteria often mean that moderators of group outcome (e.g. duration of illness, social support, comorbidities, quality of prescribing, compliance) produce so much ‘noise’ that the chances of uncovering evidence of differential treatment response are minimised.

However, RCTs report group outcomes while clinicians treat individuals and we will continue to make selective rather than blanket referrals for CBT. Clinically meaningful information about who is more likely to do well or badly with different treatment packages can be provided from secondary and/or post hoc analyses of effectiveness trials. These secondary studies, despite the perils of post hoc interpretation, can also pave the way for the next step in the research process. In Garety et al’s study, the standard deviations are very wide for most of the continuous measures, suggesting considerable interindividual variability in outcome. It may be possible to identify signals relating to patient, therapy/therapist, or combinations of factors suggesting under what circumstances adjunctive therapy should be employed or directing us to where further studies are warranted. Garety et al’s study should not be interpreted as a setback for CBT research, but it introduces some healthy realism about the limits for the role of adjunctive therapy in severe mental disorders. It is also a timely reminder that, away from the ‘therapy for all’ media hysteria, the world of routine psychiatric practice brings us into contact with some patients who do not want and do not respond optimally to antipsychotic medication, but who also do not always want or benefit from psychological therapies either.

References

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