Qualitative

Review: at least one third of people report persistent memory loss after electroconvulsive therapy


What are patients’ views on the treatment benefits of electroconvulsive therapy and to what extent is persistent loss of memory an adverse effect of this treatment?

Methods

Design: Systematic review.

Data sources: MEDLINE, PsycINFO, Web of Science, and the Social Science Citation Index (search date 2001); hand searches of reference lists.

Study selection and analysis: Studies were included if they reported on people’s views on treatment with electroconvulsive therapy (ECT). Exclusions: reports of lay or professional opinions, studies in children or adolescents, or if not all people received treatment. Data were extracted for the proportion of people with “positive responses” to statements on ECT (a positive response was defined as an affirmative response to either of the following statements: “ECT is helpful” or “I would have ECT again”); the time between treatment and interview; the number of questions asked; the complexity of the interview, and the setting of interview and status of interviewer.

Outcomes: Patients’ views on electroconvulsive therapy, memory loss.

Main results

Thirty five studies met inclusion criteria. Perceived benefit: there was substantial heterogeneity among studies (see Notes). The studies reported that between 20% and 90% of people found ECT helpful. However, the reported efficacy was related to methodological features of the included studies. People were more likely to report positive views on ECT if they were interviewed soon after treatment. Conversely, people who were not interviewed by their treating doctor or who were interviewed at home were less likely to report positive views. Safety: among 7 studies that reported on memory loss, the rate of persistent or permanent memory loss after ECT ranged from 29% to 55%.

Conclusions

Studies examining perceived benefits of ECT among patients may be biased by their methods. However, there appears to be consistent evidence that memory loss is common following ECT.

Notes

The systematic review did not exclude studies based on their design or quality of their methods. It is not surprising, therefore, to find heterogeneity of results. However the study goes further in examining sources of heterogeneity, and importantly it demonstrates consistent evidence of harm (memory loss).

Commentary

More than any other treatment modality in medicine, ECT remains controversial and misunderstood. Thus, understanding patients’ subjective experiences of this procedure is of great importance. The “official” stance from the clinician’s point of view is that there is no evidence that ECT produces structural brain damage. While it has long been acknowledged that patients do subjectively experience memory loss following ECT, the official line from the clinician’s point of view has been that this is very difficult to quantify objectively, and even modern texts continue to pay lip service to the impact of memory loss on patients’ lives.

A critical look at the literature on memory loss following ECT shows it to be rather confusing and contradictory, and very much dependent on the perspective of the researcher. Quantitative studies are, by their nature, superficial and do not come close to approaching the complexity of the nature of the experience of the patient. Qualitative studies, by their nature, are small, and not able to be generalised. Rose and colleagues in their attempt at a systematic review, have found that results are difficult to compare, are frequently dependent on factors other than the ECT itself, and have confirmed that this controversial area is difficult to study. They correctly conclude that, given the lack of rigour of the available evidence, clinicians cannot assume that over 80% of patients are satisfied with ECT, or are not subjectively troubled by persistent memory loss.

While there is no doubting the effectiveness of ECT, patients’ perspectives do need to be explored in different ways. While qualitative studies go some way to doing this, we are at a point in our knowledge where this systematic attempt by Rose and colleagues can be used as a spur to design combined qualitative and quantitative studies of greater validity.

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