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ECT is superior to pharmacotherapy for the short-term treatment of medication-resistant inpatients with bipolar depression

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WHAT IS ALREADY KNOWN ON THIS TOPIC
Within 1–4 years, about one-fourth of stable patients with bipolar disorder suffer from depression despite prophylactic lithium therapy.1 Electroconvulsive therapy (ECT) is equally effective for unipolar and bipolar depression,2 however, the rate of use of ECT varies considerably between countries,3 and, in clinical guidelines, ECT is often considered only after multiple pharmacological agents have been tried.4 This is probably due to the paucity of randomised studies directly comparing the effects of pharmacotherapy and ECT for bipolar depression. Moreover, it remains unclear whether the memory impairments seen in some patients treated with ECT are attributable to the disease or to the treatment.

WHAT IS NEXT IN RESEARCH?
A replication of the study is important to confirm these findings with pharmacotherapy-resistant hospitalised bipolar patients, and meta-analysis may be used to possibly further narrow the CI for the relative efficacy of the treatments. Randomised studies offer unique opportunities to differentiate the effects of the treatment and the disease. An earlier report from the same trial showed no difference in general neurocognitive function, but there were indications of reduced consistency in autobiographical memory a few weeks after treatment.5 Therefore, a long-term follow-up study of this patient sample should compare the relative effects on cognition and memory. Moreover, it remains to be established if and how long these initial benefits can be maintained with some combination of pharmacotherapy and/or continuation of ECT.

WHAT DOES THIS PAPER ADD?
ECT was significantly more effective than pharmacotherapy, with a mean difference in baseline to 6-week change of 6.6 points (95% CI 2.5 to 10.6) on the Montgomery-Åsberg Depression Rating Scale (MADRS). Correspondingly, the response rate was higher in the ECT group (74% vs 35%); however, the difference in remission rate (35% vs 9%) was not statistically significant.

Both treatments were well tolerated (only three patients discontinued in each group).

Interestingly, there was no difference in the frequency of memory disturbance (two patients in each group).

LIMITATIONS
The patients were inpatients at enrolment, thus, the study is not automatically informative regarding the relative efficacy of ECT and pharmacotherapy in outpatients who may have less severe or less episodic symptoms. Furthermore, it is unclear if the results are generalisable to bipolar patients with substance abuse.

Possibly, the exclusive use of unilateral ECT may have decreased the efficacy of the ECT arm. But of greater importance, the exclusion of suicidal patients and patients too ill to consent to randomisation is likely to have decreased the relative difference in efficacy, as such patients are more likely to benefit from ECT than from pharmacotherapy.

This was a 6-week study, and therefore not indicative of long-term outcomes of either memory or depression.

Furthermore, 38% of the randomised patients did not return to the hospital after discharge to participate in the final 6-week assessment within the required time frame.

DO THESE RESULTS CHANGE YOUR PRACTICES...AND WHY?
Following this study, patients should be informed about the superior efficacy of ECT as compared to pharmacotherapy, for the acute treatment of inpatients with medication-resistant bipolar depression, and patients should have their preferred treatment. For this to become a reality, ECT needs to be available in hospitals that treat bipolar patients. This represents a change of practice in many countries where the availability of ECT is currently limited. This study also strengthens the argument for a more prominent place for ECT in international guidelines for the treatment of severe bipolar depression.

REFERENCES
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