The effectiveness of electroconvulsive therapy (ECT) as an acute antidepressant is well known; less commonly known is the effectiveness of ECT as a mood stabilizer, that is, as an antimanic treatment, and by extension, an antimixed state treatment. In this issue of the *Journal*, Medda and colleagues’ report of the high effectiveness of ECT in a cohort of nearly 200 bipolar patients with mixed affective states adds important evidence to this knowledge base. In this commentary, we review the evidence for the effectiveness of ECT in all phases of bipolar disorder.

There is no reason to suspect that ECT would be any less effective for bipolar depression than for unipolar depression, yet this remains a commonly held belief. Similarly, many practitioners seem to think that there is only meager evidence for ECT’s effectiveness in bipolar depression, but this is untrue. There is a long history of clinical use of ECT for bipolar depression and a systematic evidence base that is catching up with this experience.

In a study of the efficacy of ECT in a cohort of 220 unipolar (n = 170) and bipolar (n = 50) depressed patients, Bailine et al. found no significant difference in remission rates between the 2 groups when remission was defined as a score of less than or equal to 10 on the 24-item Hamilton Depression Rating Scale (HDRS24). Similarly, recent studies by Dierckx et al. and Narayanawamy et al. comparing ECT response and remission rates among bipolar and unipolar depressed patients found no significant difference in the efficacy of ECT. Some studies have also shown that bipolar depressed patients require fewer treatments to achieve “responder” or “remitter” status. In the study of Sienaert et al., bipolar depressed patients (n = 13) required approximately 7–8 treatments to achieve response or remission status, whereas unipolar depressed patients (n = 51) required, on average, 9–11 treatments to achieve response or remission. Likewise, in a reanalysis of data by Daly et al., bipolar patients (n = 66) showed a 54.9% reduction (SD = 31.9%) in HDRS score compared with a 43.9% reduction (SD = 29.8%) among unipolar patients (n = 162) after 6 ECT treatments.

Medda et al. reviewed the efficacy of ECT in all 3 depressive subtypes; response rates were high for all (unipolar, 88.2%, n = 17; bipolar I, 69.6%, n = 67; and bipolar II, 73.1%, n = 46). However, bipolar I depressed patients exhibited higher residual manic and psychotic symptomatology, as measured by the Young Mania Rating Scale (YMRS) and Brief Psychiatric Rating Scale (BPRS).

Electroconvulsive therapy has long been used as a “rescue” treatment for refractory mania. In contemporary psychiatric practice, most, even severely, manic patients eventually respond to pharmacotherapy—usually a combination of mood stabilizers and tranquilizers, often at high doses. For those who do not, ECT is an important and usually quickly effective alternative treatment.

In a review of the use of ECT in mania over a period of 50 years, Mukherjee et al. concluded that 80% of 589 manic patients remitted. Included in their review was an earlier study by Black et al. that showed a 60% remission rate in manic patients who had responded poorly to lithium or neuroleptics. Electroconvulsive therapy should be considered especially in cases of delirious mania, also called excited catatonia and malignant catatonia. Characterized by a sudden onset of delirium, mania, and psychosis, and often accompanied by fever, dehydration, and autonomic dysfunction, delirious mania qualifies as a medical emergency.

Electroconvulsive therapy, like most antidepressants, can precipitate switches from depression into hypomania or mania, although, in practice, this is uncommon. Bailine et al. observed that only 9% of 220 depressed patients (170 unipolar, 50 bipolar) scored in the mild-to-moderate range on the Clinician-Administered Rating Scale for Mania Outcome (CARS) at some point during the ECT course, with only 1 score falling within the moderate range at the end of the treatment course. Treatment-emergent hypomania can be treated either by interruption of the ECT course (in which case, the hypomania may subside spontaneously, or it can be treated with medications), or by continuation of ECT, the mood stabilizing effect of which will treat the hypomania.

The consent process can be particularly challenging with manic patients and may require the participation of family members, and/or the judicial system, in order to proceed with necessary treatment.

Mixed bipolar states, in which patients exhibit a combination, often simultaneously, of depressive and manic symptoms, have received much less research attention than pure depression or mania. The evidence base for ECT in mixed states is quite limited.
Gruber et al reported remission after ECT in 7 pharmacotherapy-resistant mixed state patients. Previous research by Medda et al\textsuperscript{12} showed similar rates of response in a sample of depressed (n = 46) and mixed state (n = 50) bipolar I patients, 67.5\% and 76\%, respectively. Another study showed that ECT may, in fact, be more effective in mixed state patients. Ciapparelli et al\textsuperscript{13} found that mixed state patients (n = 41) had a significantly greater decrease in depression rating scores, a greater reduction in suicidality, and a more rapid response than bipolar depressed patients (n = 23). Contrary to these findings, Devanand et al\textsuperscript{14} reported that mixed state patients (n = 10) required a greater number of ECT treatments than bipolar depressed and manic patients to achieve response.

This most recent contribution of Medda et al\textsuperscript{1} to the literature on ECT in mixed states provides strong evidence for the utility of ECT in pharmacotherapy-resistant mixed state bipolar patients; after a course of ECT in 197 patients, 41.6\% responded and 30.5\% remitted. Their report also serves as a reminder of the overall important role of ECT in the treatment of severely ill bipolar patients. The time has come to stop being surprised that ECT works in all phases of bipolar disorder.