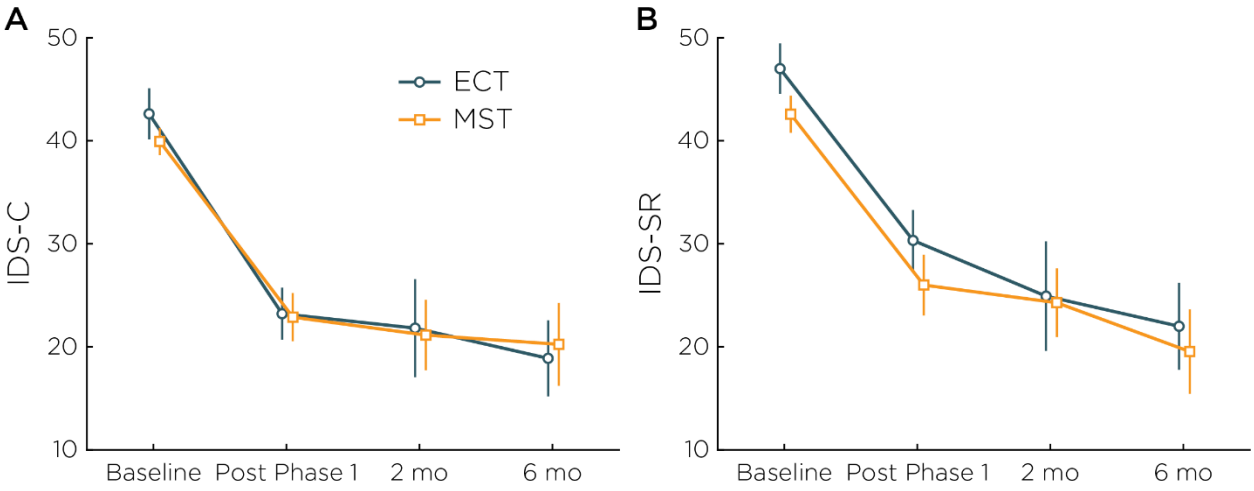
Supplemental Online Content

Deng ZD, Luber B, McClintock SM, Weiner RD, Husain MM, Lisanby SH. Clinical outcomes of magnetic seizure therapy vs electroconvulsive therapy for major depressive episode: a randomized clinical trial. *JAMA Psychiatry*. Published online December 6, 2023. doi:10.1001/jamapsychiatry.2023.4599

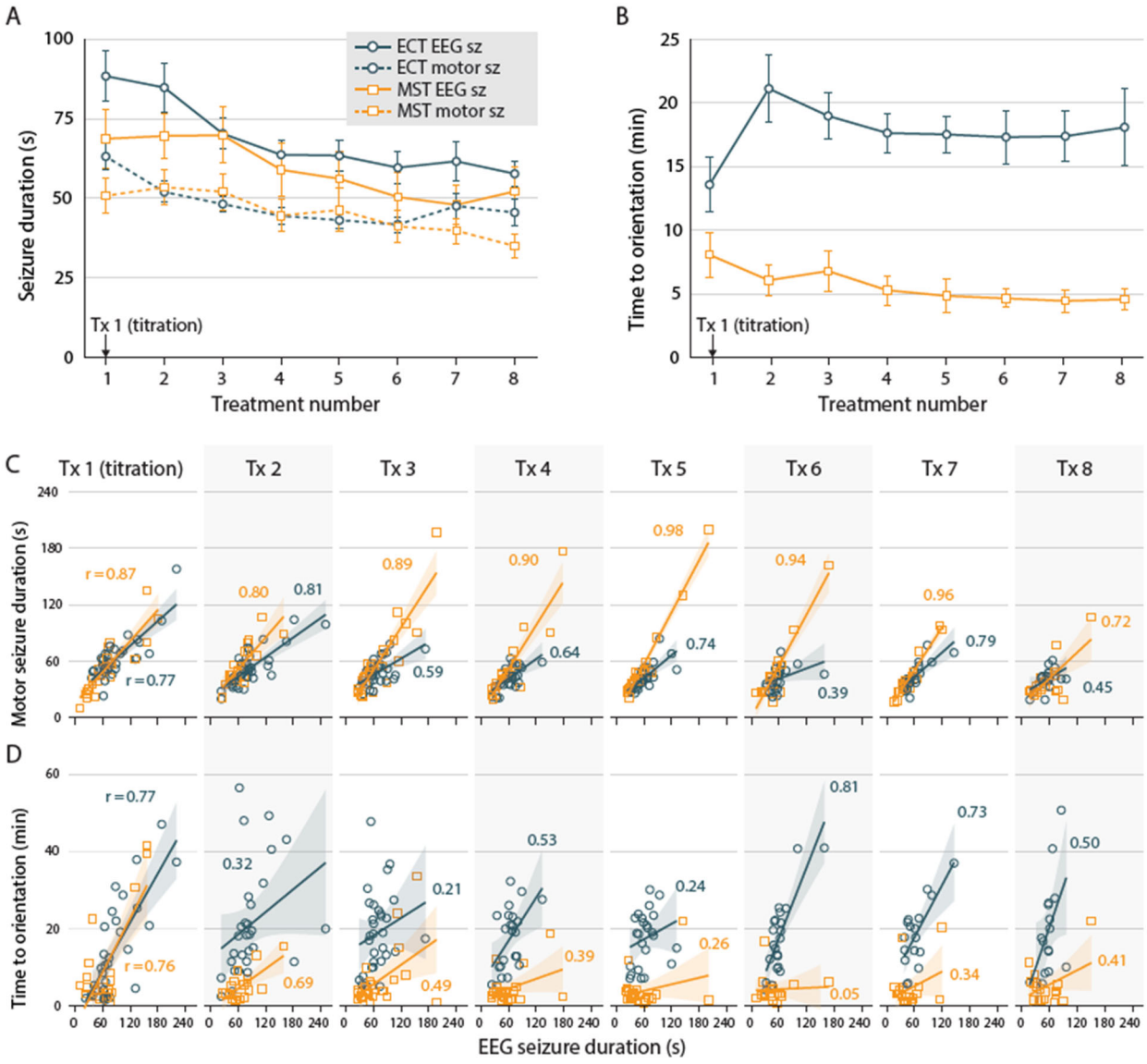
This supplemental material has been provided by the authors to give readers additional information about their work.

eFigure 1. Inventory of Depressive Symptomatology (IDS)



A, Clinician-rated (IDS-C). B, self-report (IDS-SR). The 2 × 2 mixed-model ANOVA (between-group factor: MST vs ECT; repeated-measures factor: baseline vs end of acute treatment course) using the IDS-C scores showed a significant main effect of time (F = 98.0, P < .001) but no significant effect of group (F = 0.1, P = .77) or group-by-session interaction (F = 0.1, P = .81). IDS-SR scores showed a significant main effect of time (F = 54.8, P < .001) but no effect of group (F = 1.6, P = .22) or group-by-session interaction (F = 0.0, P > .99).

eFigure 2. Seizure Duration and Time to Orientation



Data are presented for the first 8 treatments. A, Electroencephalographic (EEG) and motor seizure duration. The mixed-effects model showed that the mean motor seizure duration decreased as a function of treatment number (up to treatment 8; $t = -6.38$, $P < .001$) and did not differ between electroconvulsive therapy (ECT) and magnetic seizure therapy (MST) ($t = -0.46$, $P = .65$). The mean frontal EEG seizure duration also decreased as a function of treatment number ($t = -6.72$, $P < .001$) but did not differ between ECT and MST ($t = -1.31$, $P = .20$). B, Time to orientation. Participants regained orientation faster following MST than ECT at both threshold ($F = 10.0$, $P = .003$) and suprathreshold ($F = 62.9$, $P < .001$) levels. C, Session-by-session correlation between EEG seizure duration and motor seizure duration. The ratio of EEG to motor seizure duration for ECT was larger than that for MST ($t = -3.23$, $P = .002$) and did not change with treatment number ($t = 0.027$, $P = .98$), suggesting that the seizure spread beyond the motor cortex in the case of ECT but was more focal for MST. D, Session-by-session correlation between EEG seizure duration and time to orientation. Seizure duration was associated with time to orientation for both ECT and MST.