## Increased corticomotor excitability ID'd in restless legs

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(HealthDay)—For patients with restless leg syndrome (RLS), the
primary motor cortex (M1) exhibits hyperexcitability, which is associated with disease severity, according to a study published recently in Sleep Medicine .

Rachel Marie E. Salas, M.D., from Johns Hopkins Medicine in Baltimore, and colleagues used transcranial magnetic stimulation (TMS) to examine corticomotor excitability in M1 of participants with moderate-to-severe RLS in relation to the clinical and sleep aspects of the disease. After two nights of polysomnography (PSG), 35 participants affected by primary RLS (off medications) and 31 age-matched controls underwent TMS.

The researchers identified decreased corticomotor excitability in $\mathrm{M} 1_{\text {hand }}$ and increased excitability in $\mathrm{M} 1_{\text {leg }}$, which was more pronounced in patients with more severe RLS. Decreased long-interval intracortical inhibition was seen in participants with RLS with a history of dopamine-agonist-induced symptom augmentation compared with non-augmented participants with RLS for $\mathrm{M} 1_{\mathrm{leg}}$. There was no correlation for any of the TMS measures with PSG parameters.
"This study shows hyperexcitability in $\mathrm{M1}_{\text {leg }}$, and this appears related to RLS disease severity and decreased excitability in $\mathrm{M}_{\text {hand }}$," the authors write. "The results provide new insight into the complex neurobiology of RLS, particularly in more advanced stages of the disease."

## More information: Abstract/Full Text (subscription or payment may be required)

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