

ADHD PreSMA Response Inhibition Therapy

Status: RECRUITING

Eligibility Criteria

Sex: ALL

Age: 12 years to 17 years old

Healthy Volunteers: This study is NOT accepting healthy volunteers

Inclusion Criteria:

1. ADHD diagnosis
2. Ages 12-17 years
3. Stimulant use is allowed but must be discontinued 24 hours prior to and during days of TMS visit

Exclusion Criteria:

1. Medical conditions contraindicated or associated with altered TMS risk profile, including history of intracranial pathology, epilepsy or seizure disorders, traumatic brain injury, brain tumor, stroke, intellectual disability, cerebral palsy, neurodegenerative conditions, hearing impairment, metallic objects in the head or any other serious medical condition
2. Presence of any implanted medical devices (e.g., ports, shunts, stimulators, cochlear implants)
3. For biological females who are post-menarche, current pregnancy based on urine pregnancy test.
4. Baseline problem of hearing impairment or chronic tinnitus
5. Any clinically significant finding on brain MRI
6. History of DSM-5 conduct disorder, major depressive disorder, bipolar disorder, obsessive compulsive disorder, anxiety disorder, psychotic disorder
7. Non-stimulant medication(s) for ADHD (e.g., alpha2 adrenergic agonist, atomoxetine, tricyclics)
8. Neuroleptic/antipsychotic medication(s)
9. Inability to undergo MRI
10. Active suicidality, history of suicidality, or high risk for suicide as assessed by a study physician
11. Substance abuse or dependence within the past year, based on 1) separate screening process of asking parent/guardian and participant, and 2) positive urine drug screen. Exception will be made for positive urine drug screen due to prescribed ADHD medication

Conditions & Interventions

Interventions:

DEVICE: Active repetitive TMS, DEVICE: Sham repetitive TMS

Conditions:

Attention Deficit Hyperactivity Disorder

Keywords:

ADHD, Transcranial Magnetic Stimulation

More Information

Description:

ADHD children have abnormal inhibitory control, meaning they have trouble stopping themselves from doing something they should not do. This ability to control involves an area in the brain called the pre-supplementary motor area (pre-SMA). Scientists have previously shown that the pre-SMA is abnormal in ADHD patients. In this study, we will use Transcranial Magnetic Stimulation (TMS) to stimulate the pre-SMA and determine the effects on measures that are related to inhibitory control.

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Principal Investigator ID:

Phase: NA

IRB Number:

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