

Evidence Discussion (HD 4.1)

- There is no role for advanced imaging in Mental health workup (including ADHD). Unnecessary imaging has detrimental effects in that it provides no positive impact on outcomes/management and does expose patients to unnecessary radiation, contrast, and financial strain.
- It would be appropriate to utilize Advanced imaging (CT or MRI) in the following conditions.
 - Acute mental status change, disturbance in consciousness or arousal state²
 - Psychiatric disorders with the following clinical presentations²:
 - Acute psychosis
 - Late onset over age 40
 - Presentation of acute psychiatric symptoms with comorbid serious medical illness
 - Non-auditory hallucinations of unknown etiology
 - Nonresponse to adequate medication trials
 - Symptoms of an organic brain disorder (e.g., focal deficits, severe headache, or seizures)
- Advanced imaging may be medically necessary for electroconvulsive therapy clearance and prior to deep brain stimulation for medically refractory Obsessive Compulsive Disorder.³

References

1. Pereira-Sanchez V, Castellanos FX. Neuroimaging in attention-deficit/hyperactivity disorder. Curr Opin Psychiatry. 2021;34(2):105-111. doi:10.1097/YCO.0000000000000669
2. Expert Panel.ACR Appropriateness Criteria Acute Mental Status Change, Delirium and New Onset Psychosis.J Am Coll Radiol.2019
3. Staudt MD, Pouratian N, Miller JP, et al. Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines for Deep Brain Stimulations for Obsessive-Compulsive Disorder: Update of the 2014 Guidelines. Neurosurgery. 2021;88(4):710-712. doi:10.1093/neuros/nyaa596