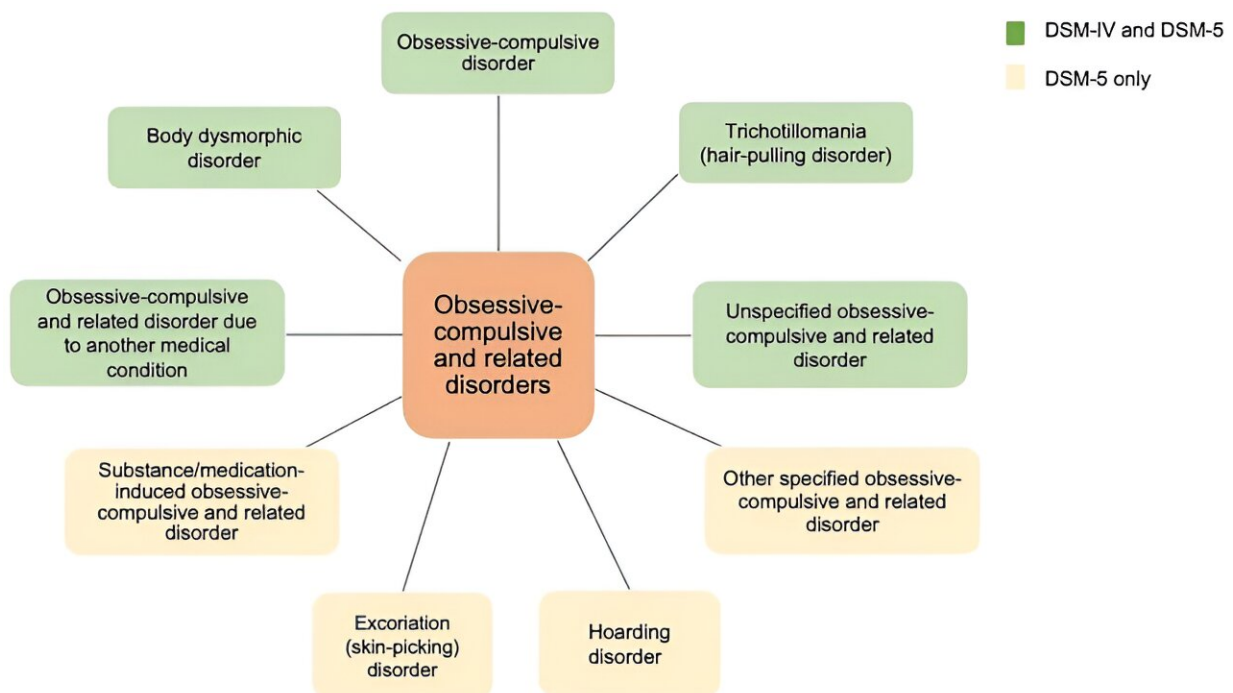


New insights into obsessive-compulsive disorder: Understanding the role of insight in treatment and neuroimaging

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Obsessive-compulsive and related disorders. The obsessive-compulsive and related disorders chapter in the DSM-5 adds four items including substance/medication-induced obsessive-compulsive and related disorder, other specified obsessive-compulsive and related disorder, as well as hoarding disorder and excoriation (skin-picking) disorder. Credit: *Psychoradiology* (2023). DOI: 10.1093/psyrad/kkad025

Marking a substantial advancement in understanding obsessive-compulsive disorder (OCD), researchers from Zhejiang University School of Medicine have revealed key connections between clinical characteristics, neuroimaging and treatment, heralding new opportunities for improved diagnostic and therapeutic strategies. The [study](#) was published in *Psychoradiology* on 8 November, 2023.

The study involved a comprehensive review of the concept of insight in OCD, exploring its clinical characteristics, corresponding changes in neuroimaging, and how insight relates to treatment effectiveness. Insight in OCD refers to the patient's awareness of their thoughts and behaviors as symptoms of a disorder. Notably, about 13%–36% of patients show poor insight, linked to more [severe symptoms](#) and poorer treatment outcomes.

Neuroimaging studies have played a pivotal role in understanding the neurological basis of insight. Structural and functional abnormalities have been observed in critical brain areas, including the frontal, temporal, and [parietal lobes](#). Specifically, reduced [cortical thickness](#) in the dorsal medial prefrontal cortex, left [anterior cingulate cortex](#), and right lateral [parietal cortex](#) has been associated with poor insight. These findings suggest that insight-related changes might reflect a reduction in neurons within cortical columns.

Although treatments like CBT and pharmacotherapy have shown some effectiveness in enhancing insight, the response to these treatments varies, emphasizing the need for personalized treatment strategies. Neuroleptics and [atypical antipsychotics](#), often prescribed to patients with limited insight, have yet to show consistent effectiveness.

The study's leading researcher says, "Our research not only advances our understanding of the neural underpinnings of OCD but also opens up new avenues for targeted treatments. By identifying specific neural

networks associated with OCD severity, we can develop more personalized and effective interventions."

The implications of this research are profound. By enhancing our understanding of the neural mechanisms underlying OCD, this study paves the way for more precise and personalized treatment approaches. It also underscores the potential of Connectome-based Predictive Modeling and other data-driven multimodal fusion techniques in psychiatric research, promising to transform diagnostic and therapeutic strategies for OCD and other complex psychiatric disorders.

More information: Yueqi Huang et al, Insight in obsessive-compulsive disorder: conception, clinical characteristics, neuroimaging, and treatment, *Psychoradiology* (2023). [DOI: 10.1093/psyrad/kkad025](https://doi.org/10.1093/psyrad/kkad025)

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