

# Awakenings Mental Health

#### What is Iron and Why is it Important?

Iron is an essential mineral responsible for carrying oxygen in the blood. In the brain, it has a critical role as a cofactor in the production of neurotransmitters. This means that without sufficient iron, the brain cannot efficiently synthesize dopamine and norepinephrine, the key chemicals that regulate attention, alertness, and mood.

#### The Link Between Tron and ADHD

Low iron storage, measured by a blood test for ferritin, is strongly correlated with worsened ADHD symptoms. A ferritin level below 30 ng/mL is often considered a target for intervention. Low iron can also contribute to conditions that mimic or exacerbate ADHD, such as Restless Legs Syndrome (RLS), which disrupts sleep and affects daytime focus.

#### Uses & Benefits in ADHD

The primary goal of iron supplementation is to correct a diagnosed deficiency, thereby giving the brain the necessary resources to function optimally.

#### Restores Dopamine Production:

By replenishing iron stores, the brain can properly synthesize dopamine, which can improve focus and motivation.

# Reduces Symptom Severity:

As highlighted in research by Sever et al. (1997), raising ferritin levels is associated with a reduction in the severity of ADHD symptoms and restlessness.

#### Dosage:

Dosing is based on lab results and weight, typically 3-6 mg/kg/day of elemental iron for children with low ferritin.

# Monitoring:

It is essential to check ferritin and hemoglobin levels before starting and again after 8–12 weeks of treatment to prevent iron overload, which can be toxic.

# Important Note:

Iron supplementation should only be undertaken when a deficiency has been confirmed by lab tests and under strict medical supervision.

#### Conclusion

For individuals with ADHD and confirmed low iron, medically supervised supplementation is a foundational and effective adjunctive treatment. Restoring iron to healthy levels can significantly improve the brain's ability to produce dopamine, leading to better focus and reduced restlessness.