

Iron supplements reduce ADHD in low birth weight infants

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In a study published today in *Pediatrics*, scientists at Umeå University in Sweden conclude that giving iron supplements to low birth weight infants reduces the risk of behavior problems like ADHD later in life.

Published online: Dec. 10 2012, [DOI: 10.1542/peds.2012-0989](https://doi.org/10.1542/peds.2012-0989).

The study, Effects of [Iron Supplementation](#) on LBW Infants on Cognition and Behavior at 3 Years, is published in the January 2013 issue, released online Dec. 10, 2012.

Provided by Umea University

In the [randomized controlled trial](#), researchers in Sweden gave 285 marginally low birth weight infants either 0, 1 or 2 mg/kg and day of iron supplements from 6 weeks to 6 months of age. At age three-and-a-half, these infants and 95 who had a normal birth weight were assessed for intelligence and behavior. There were no significant differences in IQ between the low birth weight groups and the normal-weight control group. However, for behavioral problems like ADHD, there was a significant effect from the iron supplements. Of the low birth weight infants who received no [iron supplements](#), 12.7 percent showed signs of behavior problems, compared to 2.9 percent of infants in the 1-mg group and 2.7 percent of the 2-mg group. In the control group, 3.2 percent of children showed signs of behavioral problems.

Study authors conclude the results demonstrate long-term health benefits of early iron supplementation of otherwise healthy, marginally [low birth weight](#) infants.

The study was done in collaboration with colleagues at the Karolinska Institute, Stockholm, by researchers at the Department of Clinical Sciences, Umeå University.

More information: SK Berglund, B Westrup, B Hägglöf, O Hernell, M Domellöf; Effects of Iron Supplementation of LBW Infants on Cognition and Behavior at 3 Years, *Pediatrics*. Jan. 2013,

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