Scientific Support for the Feingold® Program

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“This study provides sufficient scientific evidence that a causal link truly exists between tartrazine and inflection of hyperactivity, anxiety and depression-like behaviours in rats and points to the hazardous impact of tartrazine on public health.”

Cytogenetic evaluation and DNA interaction studies of the food colorants amaranth, erythrosine and tartrazine, Mpountoukas P, et al. Food and Chemistry Toxicology, 2010

“Our results indicate that these food colorants had a toxic potential to human lymphocytes in vitro and it seems that they bind directly to the DNA.”

From the website of the American Academy of Family Physicians: “Studies have shown that certain food colorings and preservatives may cause or worsen hyperactive behavior in some children.”

British Medical Journal May 2008: In an editorial, Andrew Kemp, M.D., professor of pediatrics at the University of Sydney writes, “In view of the relatively harmless intervention of eliminating colorings and preservatives, and the large number of children taking drugs for hyperactivity, it might be proposed that an appropriately supervised and evaluated trial of eliminating colorings and preservatives should be part of standard treatment for children.”


“…a trial of a preservative-free, food coloring-free diet is a reasonable intervention.”

“Thus, the overall findings of the [McCann] study are clear and require that even we skeptics, who have long doubted parental claims of the effects of various foods on the behavior of their children, admit we might have been wrong.”

Food additives and hyperactive behavior in 3-year-old and 8/9-year-old children in the community: a randomized, double-blinded, placebo-controlled trial. McCann et al., Lancet 2007, Nov 3;370(9598):1560-7

“Artificial colours or a sodium benzoate preservative (or both) in the diet result in increased hyperactivity in 3-year-old and 8/9-year-old children in the general population.”


Testing the amount of additives often found in snack foods, Lau combined Blue 1 and MSG, and Yellow 10 and aspartame. The combinations were synergistic, far more toxic than expected by adding up the effect of each one tested alone. Blue 1 + MSG was 4 times as toxic and Yellow 10 + aspartame was 7 times as toxic.

“…this study is consistent with accumulating evidence that neurobehavioral toxicity may characterize a variety of widely distributed chemicals.”

The Effects of a Double Blind Placebo Controlled Artificial Food Colourings and Benzoate Preservatives Challenge on Hyperactivity in a General Population Sample of Pre-school Children. B. Bateman, et. al., *Archives of Disease in Childhood* 89: 506-511, June 2004

“There is a general adverse effect of artificial food colouring and benzoate preservatives on the behaviour of 3-year-old children which is detectable by parents but not by a simple clinic assessment.”


25 of 40 children (62%) who met the DSM-IV criteria for ADHD showed an improvement in behavior of at least 50% after two weeks on a standard elimination diet, according to parent ratings using the 10-item Conners list, the ADHD Rating Scale, and a physical complaint list. Among the children with both parent and teacher ratings, 10 of 15 (68%) improved both at home and at school. “In young children with ADHD, an elimination diet can lead to a statistically significant decrease in symptoms.”


150 of 200 children (75%) improved on an open trial of a diet free of synthetic food coloring, and 63% of them responded to a single-item challenge of tartrazine [FD&C Yellow #5 food dye]. In the double-blind portion, the study identified 24 children as clear reactors, including 19 of the 23 “suspected reactors” (82.5%). When they reacted to the dye, the younger children had “constant crying, tantrums, irritability, restlessness, and severe sleep disturbance;” and were described as “disruptive,” “easily distracted and excited” and “out of control.”


73% of the children responded favorably. “This study demonstrates a beneficial effect of eliminating reactive foods and artificial colors in children with ADHD. Dietary factors may play a significant role in the etiology of the majority of children with ADHD…In summary, this double-blind, placebo controlled food challenge study supports the role of dietary factors in ADHD. Through a simple elimination diet symptoms can be controlled…Elimination of the causes of ADHD is preferable to the pharmacologic therapy of this condition.”

*Updated June 2013*