

# Fish Diet in Pregnancy May Hone Kids' IQ

February 16 2007

---

Research published in the *Lancet* casts new light on the controversial issue of whether pregnant women should eat fish.

The issue has divided experts in Britain and the United States. In the UK, the Foods Standards Agency simply advises that mothers avoid shark, swordfish and marlin, and restrict intake of tuna. Official U.S. Government advice, on the other hand, is for pregnant women to limit consumption of all seafood to 12 ounces per week, in order to protect the unborn child from traces of methyl mercury, which can affect brain development.

The new research into children's behaviour and intelligence suggests that instead of protecting the unborn baby, women who follow U.S. advice or cut fish out of their diet altogether may miss out on vital nutrients that the developing brain needs - and so unwittingly harm their children.

The findings come from a study of almost 9,000 British families taking part in the Children of the 90s project at the University of Bristol. The lead researcher, Dr Joseph R Hibbeln from the U.S. National Institutes of Health, and the Bristol scientists compared the amount of fish eaten by pregnant mothers with the development and behaviour of their offspring up to the age of 8.

Dr Hibbeln cites abundant evidence that seafood is the predominant dietary source of long chain omega-3 fatty acids, which are essential for development of the nervous system.

Women from socially-advantaged backgrounds were more likely to include fish in their diet. But even after adjusting for 28 different factors – such as social class, or whether the mother breastfed - there were significant differences in the children’s development.

Mothers who ate more seafood than was considered to be safe according to U.S. guidelines, had children who:

- were more advanced in development tests measuring fine motor, communication and social skills as toddlers;
- had more positive social behaviours;
- were less likely to have low verbal IQ scores at the age of 8.

Conversely, the less fish the mothers ate the more likely the children were to perform poorly in these areas. For example, those children whose mothers had eaten no fish were:

- 28 per cent more likely to have poor communication skills at 18 months
- 35 per cent more likely to have poor fine motor coordination at age three and a half
- 44 per cent more likely to have poor social behaviour at age seven
- 48 per cent more likely to have a relatively low verbal IQ at age 8

when compared with children of women who ate more than the U.S. guidelines advise.

Dr Hibbeln said: “We have found that when women had low levels of seafood consumption, the outcome is exactly the opposite of what was

assumed by the United States Advisory.

“Unfortunately, the advice appears to have had the unintended consequence of causing harm in a specific developmental domain - verbal development - where protection was intended.”

Source: University of Bristol

Citation: Fish Diet in Pregnancy May Hone Kids' IQ (2007, February 16) retrieved 26 April 2024 from <https://medicalxpress.com/news/2007-02-fish-diet-pregnancy-hone-kids.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--