

> Home > News and publications > News

## **NEWS & PUBLICATIONS**

News

Subscribe to news

**RSS** feeds

Archive

Publications

Branding

**Podcasts** 

Faster weight gain as a baby may lead childre gaining a higher proportion of fat tissue wher older

Thursday 30 Sept.

Researchers funded by the Medical Research Council (MRC) hav demonstrated for the first time in humans that feeding babies r enriched milk can lead to significant increases in body fat by the they reach 5-8 years of age.

The research led by Professor Atul Singhal, at the MRC Childhoc Nutrition Research Centre, UCL Institute of Child Health, looked different randomised, double blind, controlled trials, in which be which were small for their age were randomly assigned either a nutritionally enhanced formula milk, or a standard formula. The found that, at 5–8 years old, children who were given the enric formula had more body fat than those who were given normal f

Previous studies, in a vast range of creatures from rats to butte have shown that over-nutrition in infancy can lead to being ove later in life and a reduced lifespan. Human studies have also sua link between infant over-nutrition and being overweight in lat but without the gold-standard evidence of a systematic random controlled double blind trial, which takes into account other fact as any genetic tendency for overweight mothers to have overweights.

This new study, takes into account confounding factors such as BMI and shows that fat mass in childhood was 22–38 per cent infants fed nutrient-enriched formula compared with those fed standard nutrient formula. The study confirms previous estimat more than 20 per cent of adult obesity might be caused by over or other early excessive weight gain in infancy.

Professor Singhal said;

- "This study robustly demonstrates a link between early nutrition having more fat in later life in humans a finding suggested by studies and confirmed in many other animals. Our findings are s consistent, show a dose-response effect, and are biologically plai Immediately, it raises the issue about the best way to feed thos children small for gestational age, which should now be evaluate light of all current evidence. In public health terms, it supports to the general population for breastfeeding since it is harder to overfeed a breastfed baby. And it will undoubtedly be of interest formula milk companies wishing to improve their products."
- "Nutrition in Infancy and Long-term Risk of Obesity: Evidence fr Randomised Controlled Trials" published online in American Jou Clinical Nutrition on 30 September
- 1. For media queries, please contact the MRC press office on 02 6011 or <a href="mailto:press.office@headoffice.mrc.ac.uk">press.office@headoffice.mrc.ac.uk</a>

3. For almost 100 years the Medical Research Council has improperly health of people in the UK and around the world by supporting highest quality science. The MRC invests in world-class scientist