

The UK must introduce folic acid fortification in foods, say scientists

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According to St George's scientists, there is an urgent need to fortify flour and grains with folic acid to prevent spina bifida and other birth defects.

In response to the UK government's consultation on a proposal to add [folic acid](#) (vitamin B9) to [flour](#), an article published online in *Archives of Disease in Childhood* indicates that the UK government should do so to prevent the birth defects, spina bifida, a cause of serious lifelong disability, and anencephaly, a fatal birth [defect](#) where most of the brain is missing.

The two defects are collectively referred to as neural tube defects. Many thousands of pregnancies have been either terminated or resulted in the birth of children with neural tube defects that could be prevented if [folic acid fortification](#) had been implemented universally.

The article is written by three senior medical researchers, including the former Chief Executive of the British Medical Research Council, Sir Colin Blakemore, and St George's scientists, Professor Sir Nicholas Wald and Professor Joan Morris. The

piece is a series of answers to questions asked in the Government's public consultation on whether the UK should introduce mandatory [folic acid fortification](#). Over 80 countries have already done so, including the U.S., where it's estimated that fortification has saved 1,300 children each year from death or a lifetime of disability.

The scientists are calling for fortification of cereal grains such as rice as well as flour to ensure the benefits reach all sections of the population, regardless of their personal or cultural preferences for cereal products. They also believe there should be no limits set on fortification level, as there is no limit above which folic acid consumption is unsafe.

The important issues raised in the article are:

- Folic acid fortification of flour and other cereals is effective and safe
- All flour should be fortified and cereal grains such as rice should be fortified as well
- The fortification level that should be set to achieve a significant reduction in the risk of having a pregnancy with [spina bifida](#) or anencephaly
- Voluntary fortification should not be restricted (e.g. in breakfast cereals) as there is no limit above which folic acid consumption is unsafe
- Mandatory fortification of folic acid provides a "public health safety net" and could potentially prevent about half of all cases of neural tube defects
- Folic acid fortification does not mean that women do not need to take folic acid supplements immediately before pregnancy and in the early stages of pregnancy; fortification and supplementation are complementary.

Mandatory fortification of flour with folic acid has been considered by the UK government on several occasions and always deferred. The efficacy of

fortification has not been in question and detailed consideration regarding safety has been reassuring, with the scientists saying there is no evidence that high levels of folic acid intake are harmful.

The article outlines that the cost of fortifying flour and grains with folic acid is minimal and would be borne by the millers, who recognise the benefits of fortification and are willing to implement fortification if the Government mandates this. Although the financial cost is minimal, it needs to be mandated to set a level playing field for all the millers involved.

Professor Sir Nicholas Wald, author of the article from *St George's, University of London* and *University College London*, said:

"Britain's past failure to fortify flour and grains with folic acid is a missed public health opportunity. It is like having a vaccine for polio and not using it."

Professor Wald conducted the seminal research in 1991 that showed that [neural tube defects](#) were due to deficiency of folic acid consumption, and that taking extra folic acid immediately prior to pregnancy and in the early stages of pregnancy prevents most cases. He added: "It is more than a disappointment that UK funded research published nearly 30 years ago has not been fully used in the UK to improve the health and wellbeing of its citizens who paid for the research."

Professor Joan Morris, co-author of the paper from *St George's, University of London*, said: "The research has been done, the health effects evaluated, and there now needs to be the political will to introduce folic [acid](#) fortification to prevent one of the most serious [birth defects](#)."

More information: Nicholas J Wald et al. Urgent need for folic acid fortification of flour and grains: response to the 2019 UK Government's public consultation, *Archives of Disease in Childhood* (2019). [DOI: 10.1136/archdischild-2019-318534](https://doi.org/10.1136/archdischild-2019-318534)

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