

Faces Of Anemia

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Malawi photo from istockphoto



Children

- Iron-deficiency anemia affects 114.7 million children worldwide
- It impairs physical and cognitive development which later in life limits

earning potential





Women

- Iron-deficiency anemia affects:
 - 16.2 million pregnant women
 - 243.2 million non-pregnant women of childbearing age

If women of reproductive age with anemia related to iron deficiency stood head to toe, they could reach the moon and circle it.

Distance to the moon and around it is 395,317 kilometers. If 243,187,000 women, each 1.65 meters tall (5.41 feet), stood head to toe, that would be 401,259 kilometers.

Number of women with anemia related to iron deficiency calculated from World Health Organization, *The Global Prevalence of Anemia* in 2011, published by in 2015.

http://www.who.int/nutrition/publications/micronutrients/global prevalence anaemia 2011/en/s

Photo from NASA Earth Observatory on Flickr





Consequences of anemia

- Causes debilitating fatigue
- Reduces work capacity and lower national gross domestic product (GDP)
- Contributes to 20% of all maternal deaths



Nigeria photo from istockphoto

I couldn't climb a flight of

stairs.

I felt dizzy and on the verge of fainting when I was pregnant.

I couldn't do my

work.

It was like having jet lag.

I couldn't run to catch a bus.

I thought it was normal fatigue.

I always fell asleep in class.

I had to quit the cross country team.



It was astonishing to learn that many of my friends, colleagues, and neighbors had experienced anemia at some point, and this in Switzerland; a country of abundance. It is time to give a face to anemia worldwide!

- Peter Böhni, Managing Director EPFL Innovation Satellite and Head Corporate Technology Value Nutrition for Bühler AG, and member of the Food Fortification Initiative Executive Management Team



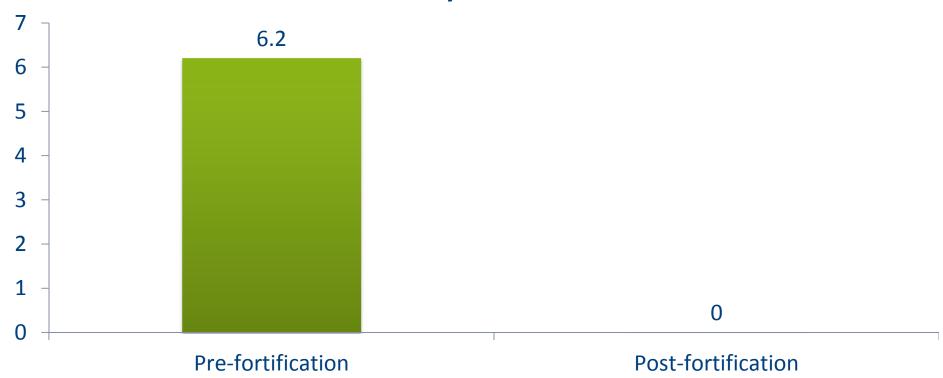


Does fortifying flour with iron help?



Fortification reduced iron-deficiency anemia in Costa Rica

Prevalence of Iron-deficiency Anemia in Children 1-7 Years

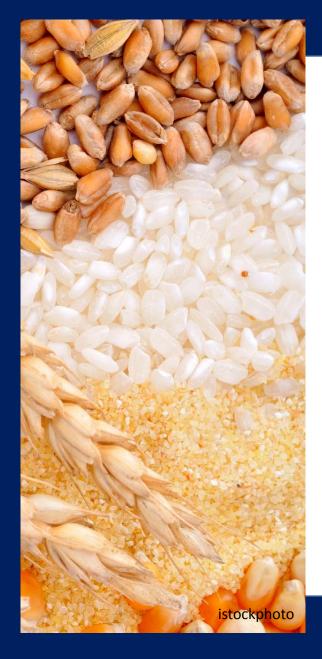


Wheat flour, maize flour, powdered milk and liquid milk fortified with iron

Each year of flour fortification is associated with a 2.4% decrease in anemia.



Barkley, J., Wheeler, K., and Pachón, H. Anaemia prevalence may be reduced among countries that fortify flour. British Journal of Nutrition. 2015. 114, pp 265-273. doi:10.1017/S0007114515001646.



Successful iron fortification programs:

- ✓ Are well implemented and monitored
- Optimize coverage and consumption
- ✓ Use recommended iron compounds and concentrations

Food Fortification Initiative. Iron Fortification Programs and Iron Status. Atlanta, USA: FFI, 2015.

http://www.ffinetwork.org/why_fortify/documents/Iron_fortification_summary.pdf