



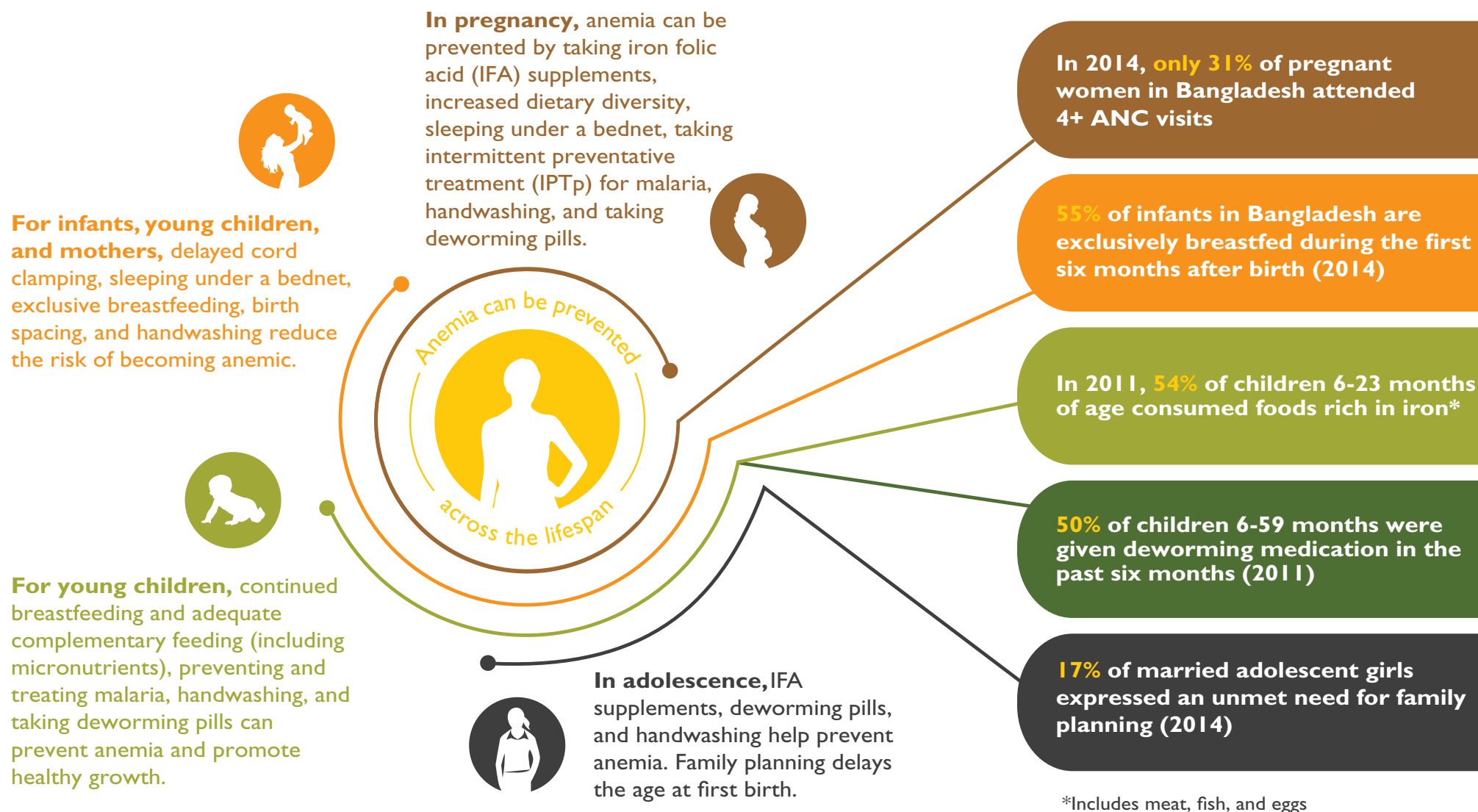
# BANGLADESH

## National Anemia Profile



**USAID**  
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Strengthening Partnerships, Results,  
and Innovations in Nutrition Globally



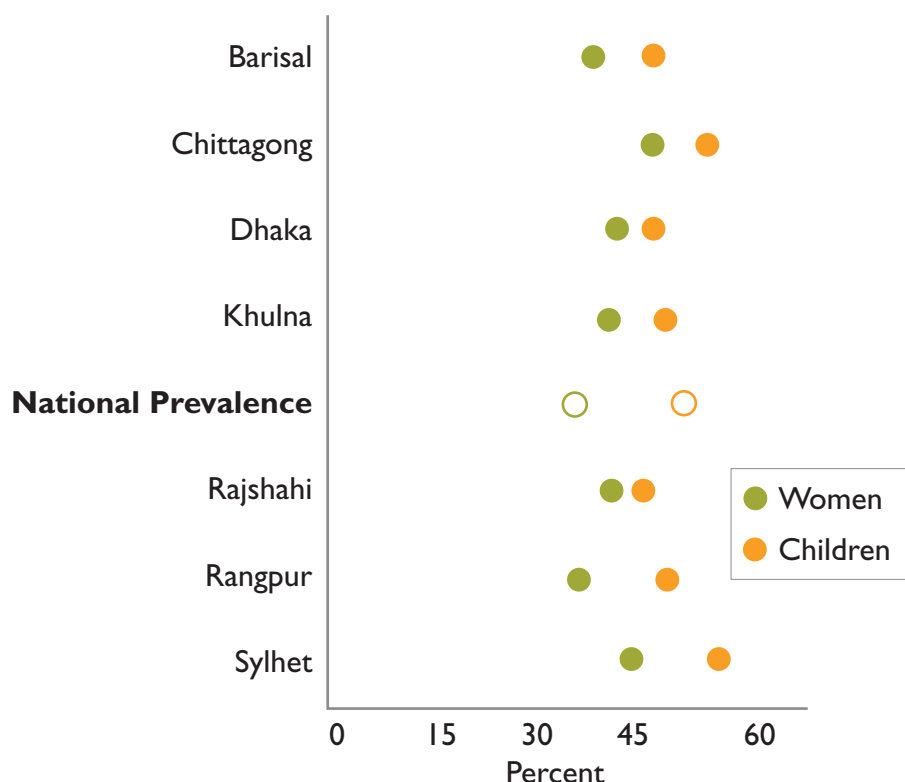
**A multisectoral approach to prevent anemia will save lives and improve the well-being of mothers, infants, and children**

All data is from Bangladesh Demographic and Health Surveys, unless otherwise noted

Anemia has substantial negative effects on the health and economic wellbeing of nations and communities. Children with anemia experience irrevocable cognitive and developmental delays and exhibit decreased worker productivity as adults.<sup>1</sup> Globally, maternal anemia increases the risk of pre-term delivery and low birth weight, and iron-deficiency anemia underlies 115,000 maternal deaths and 591,000 perinatal deaths each year.<sup>2</sup>

### Prevalence of anemia among children 6-59 months and women 15-49 years, by region

Source: Bangladesh DHS, 2011



1. Walker, S. P., T. D. Wachs, J. M. Gardner, B. Lozoff, G. A. Wasserman, E. Pollitt, and J. A. Carter. 2007. "Child development: risk factors for adverse outcomes in developing countries." *Lancet*, 369(9556): 145-157.

2. Stoltzfus, R. J., L. Mullany, and R. E. Black. 2004. "Iron Deficiency Anemia." In *Comparative Quantification of Health Risks: Global and Regional Burden of Disease Attributable to Selected Major Risk Factors*. M. Ezzati, A. D. Lopez, A. Rodgers, and C. J. L. Murray, eds. Geneva: World Health Organization.

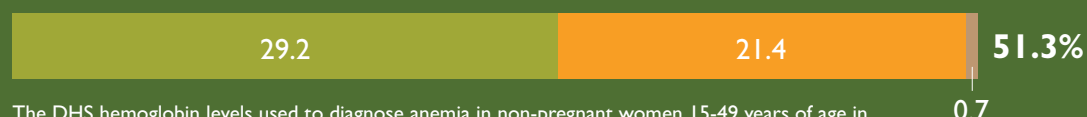
### Prevalence of anemia in women and children in Bangladesh in 2011

#### Women 15-49 years of age

mild moderate severe

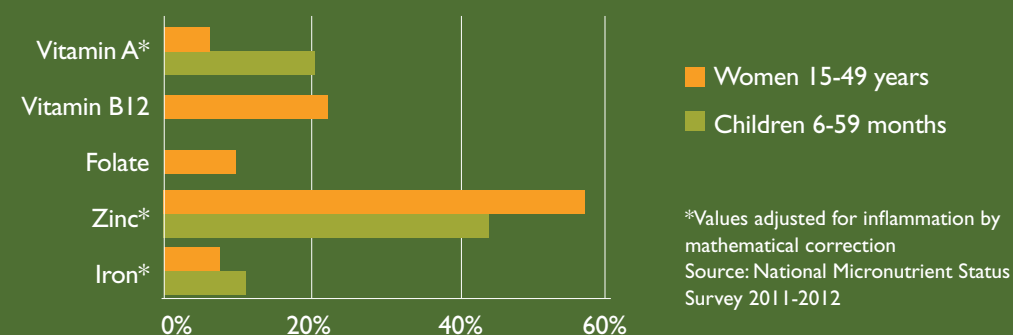


#### Children 6-59 months of age



The DHS hemoglobin levels used to diagnose anemia in non-pregnant women 15-49 years of age in grams/dL are: Mild 10.0-11.9; Moderate 7.0-9.9; Severe <7.0; Any <12.0. In children 6-59 months of age, the levels are: Mild 10.0-10.9; Moderate 7.0-9.9; Severe <7.0; Any <11.0.

### Prevalence of micronutrient deficiencies in 2011-2012



### Status of Policies or Strategies to Support Reductions in Anemia\*

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> IFA for pregnant women             | <input checked="" type="checkbox"/> Long-lasting insecticidal nets (LLINs) for household use |
| <input checked="" type="checkbox"/> IFA for women of reproductive age  | <input checked="" type="checkbox"/> Deworming for children                                   |
| <input checked="" type="checkbox"/> IFA for adolescent girls           | <input checked="" type="checkbox"/> Deworming for pregnant women                             |
| <input checked="" type="checkbox"/> Micronutrient powders for children | <input checked="" type="checkbox"/> Breastfeeding  |
| <input checked="" type="checkbox"/> Indoor residual spraying           | <input type="checkbox"/> Iron and/or folic acid fortification legislation                    |
| <input checked="" type="checkbox"/> National policy on sanitation      | <input checked="" type="checkbox"/> Dietary diversity for complementary feeding              |
| N/A IPTp for pregnant women <sup>1</sup>                               |  |
| <input checked="" type="checkbox"/> Malaria diagnosis and treatment    |  |
- ☒ no policy    ☐ policy pending  
☒ policy in place    ☒ missing documentation

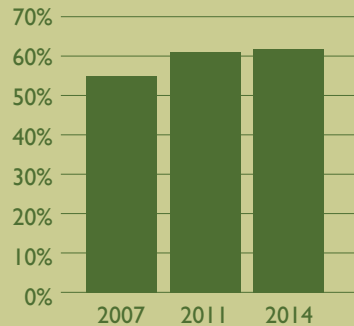
\* Information from the Global database on the Implementation of Nutrition Action (GINA) or country documentation. The status of policies and strategies have been identified to the best of our knowledge. Revisions and updates are welcome.

<sup>1</sup> Not part of national malaria strategy due to low prevalence of malaria during pregnancy. Evidence-informed WHO guidance can be found here: <http://www.who.int/elena/en/>

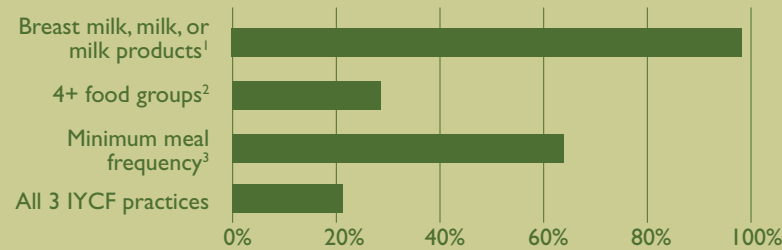
# Anemia is a Preventable Condition—Simple Interventions Can Have a Huge Impact

## Increase iron uptake and stores

Contraceptive use has plateaued among married women from 2007 to 2014



Few children 6-23 months old were fed according to 3 key Infant and Young Child Feeding (IYCF) practices in 2014



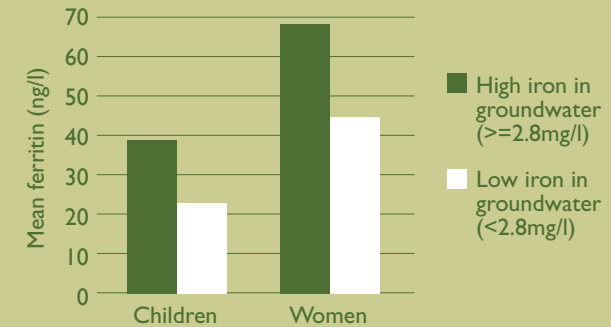
<sup>1</sup> Continued breastfeeding, or feeding of milk/milk products to non-breastfed children

<sup>2</sup> Feeding children Solid foods, semi-solid foods, and milk products from the minimum number of food groups

<sup>3</sup> Feeding children Solid foods, semi-solid foods, and milk products the minimum number of times



Relatively adequate iron stores may be due to iron in groundwater



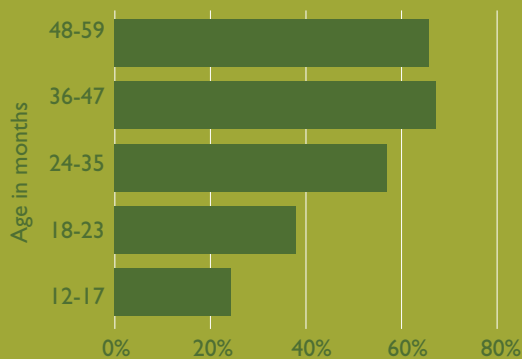
\*Ferritin adjusted for inflammation

Source: National Micronutrient Status Survey 2011-2012



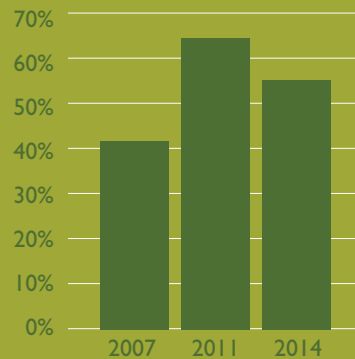
## Reduce iron losses and infection

Not enough children were given deworming medication in 2011\*

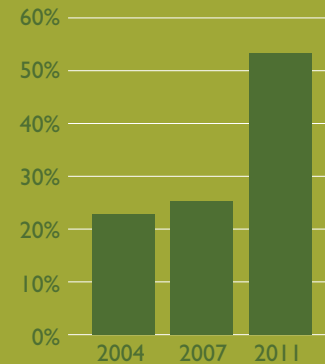


\*Deworming medication given in past 6 months

Exclusive breastfeeding of children <6 months has increased from 2007 to 2014



Not enough households have an improved latrine/toilet\*



\*Definition of 'improved latrine' has changed slightly across years. See Demographic and Health Surveys.

Access to improved source of drinking water is almost universal



# Multiple Sectors Play a Role in Anemia Prevention and Treatment

Stunting and anemia share similar risk factors and are responsive to many of the same interventions

## Agriculture

- Increase income and reduce poverty
- Production of biofortified and iron-rich crops
- Small livestock/poultry
  - Fisheries
- Dietary diversity

## Health

- Iron supplementation
  - Deworming
- Breastfeeding and complementary feeding
  - Family planning
- Malaria prevention and treatment
- Delayed cord clamping

## Water and Sanitation

- Improved latrines
  - Handwashing
- Access to clean water
- Livestock management
  - Infectious disease prevention

## Education

- Female literacy
- Health education
- Hygiene education
- Family planning education
- Nutrition education

### Data Sources:

National Institute of Population Research and Training [Bangladesh], Mitra and Associates and ICF International. 2011. Bangladesh Demographic and Health Survey 2013. Dhaka, Bangladesh and Calverton, Maryland, USA: Central Statistical Agency and ICF International.

National Institute of Population Research and Training [Bangladesh], Mitra and Associates and Macro International. 2007. Bangladesh Demographic and Health Survey 2009. Dhaka, Bangladesh and Calverton, Maryland, USA: Central Statistical Agency and Macro International.

National Institute of Population Research and Training [Bangladesh], Mitra and Associates and ORC Macro. 2004. Bangladesh Demographic and Health Survey 2005. Dhaka, Bangladesh and Calverton, Maryland, USA: Central Statistical Authority and ORC Macro.

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