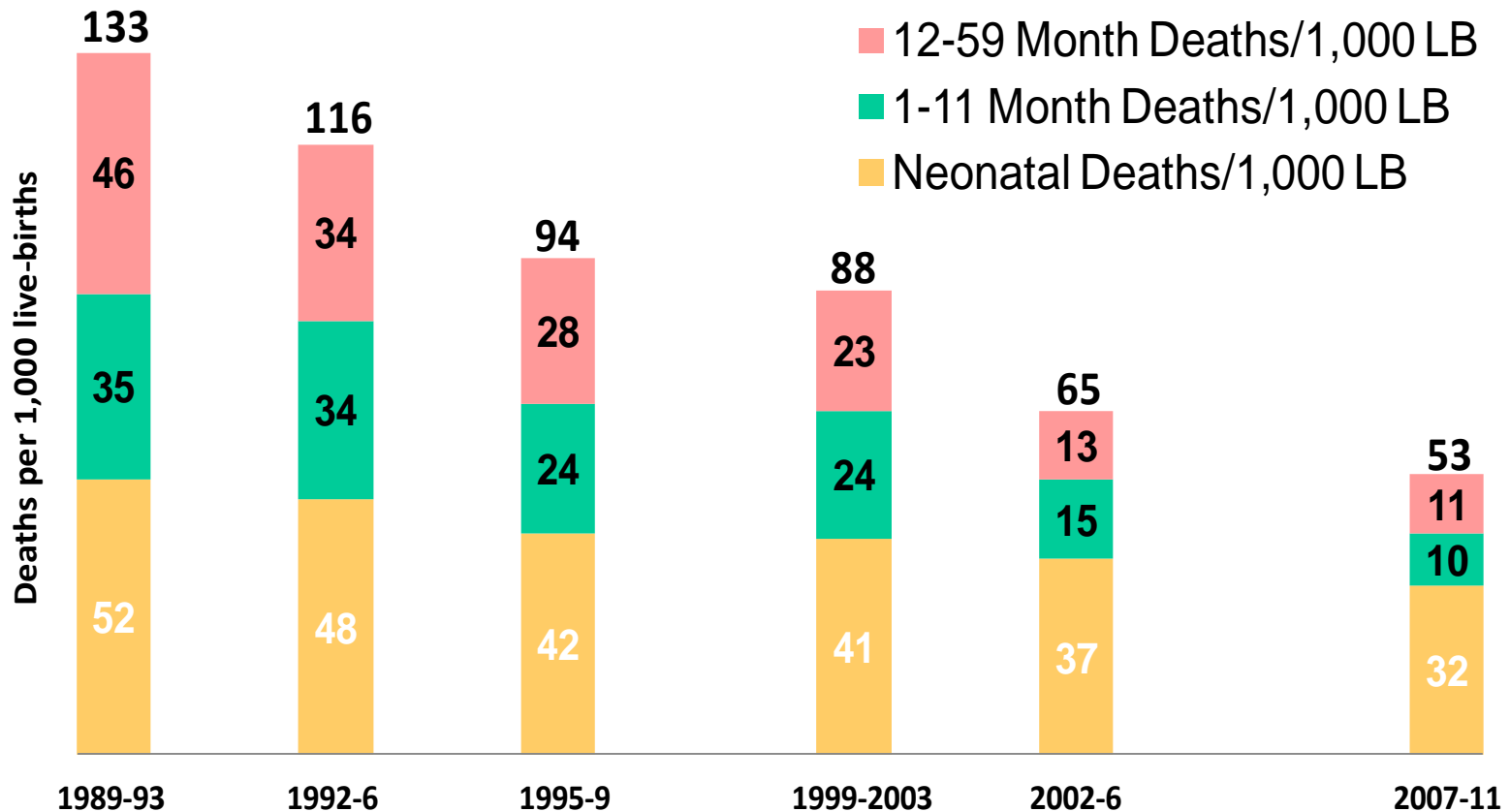




It Can Be Done: Diarrhoea and Pneumonia Treatment and the Achievement of MDG4 in Bangladesh

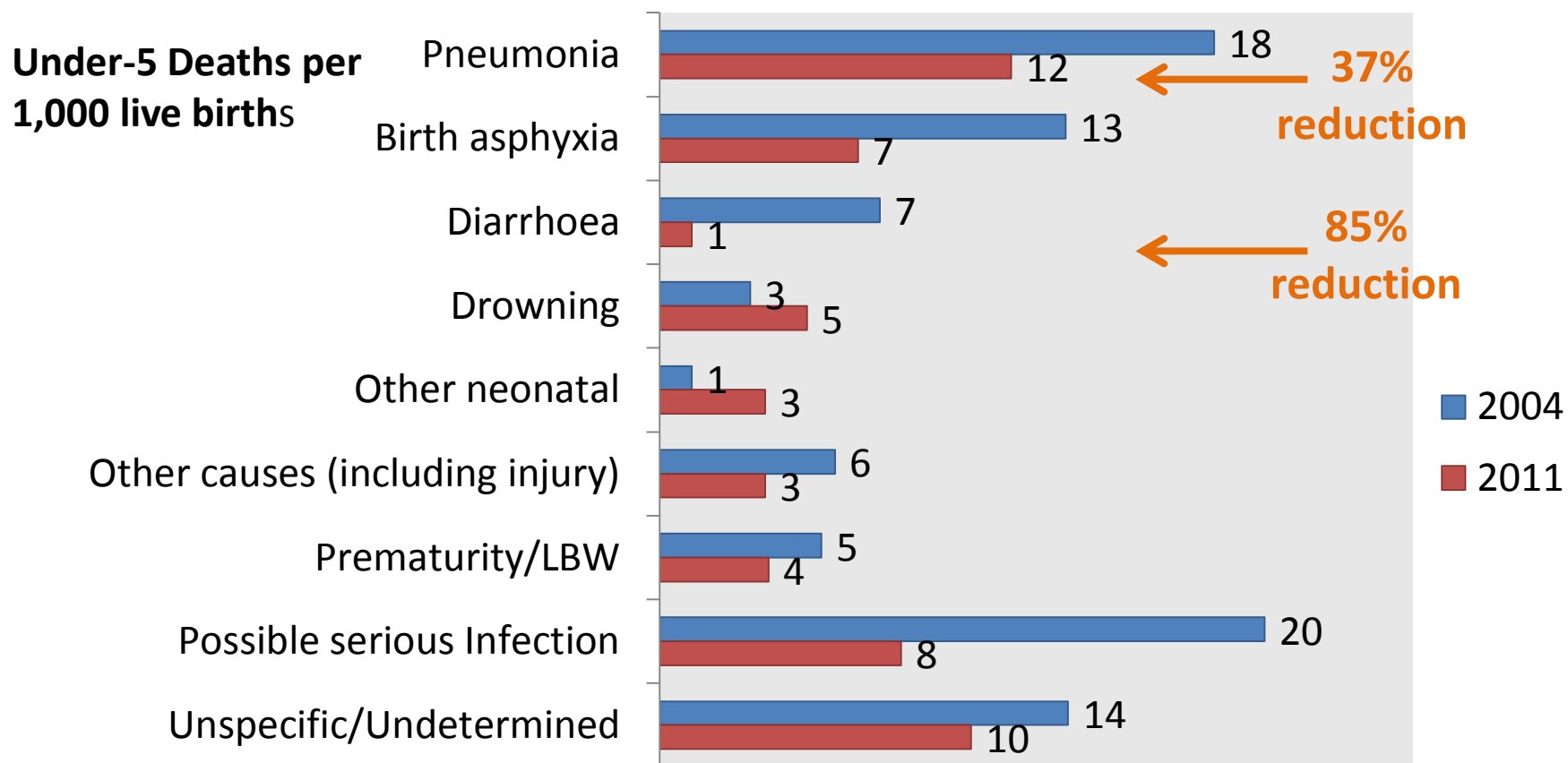
**John D. Clemens, MD
Executive Director, icddr,b
25 September 2013**

Bangladesh's MDG 4 success



Source: Bangladesh Demographic and Health Surveys

Most causes of under-5 deaths are declining in Bangladesh



Source: Bangladesh Demographic and Health Surveys

Context: Low GDP, Weak Health System

	Population	GDP	Health Expenditure	Public Expenditure on Health	Per capita health expenditure	Doctors/nurses
	<i>Millions</i>	<i>Per capita US\$</i>	<i>% of GDP</i>	<i>% of total health expenditure</i>	<i>US\$</i>	<i>Per 1000 population</i>
Bangladesh	148.7	673.0	3.4	31.7	18	0.3/0.3
Pakistan	173.6	1007.0	2.6	32.8	23	0.8/0.5
Nepal	30.0	524.0	5.8	35.3	25	0.2/0.5
India	1224.6	1476.0	4.2	32.8	45	0.6/1.3

Sources: Measure DHSS, UN, World Data Bank

Contributing Factors: Reliance on Evidence

Effect of zinc supplementation started during diarrhoea on morbidity and mortality in Bangladeshi children: community randomised trial

Abdullah H Baqui, Robert E Black, Shams El Arifeen, Mohammad Yunus, Joysnamoy Chakraborty, Saifuddin Ahmed, J Patrick Vaughan

Reduction of neonatal tetanus by mass immunization of non-pregnant women: duration of protection provided by one or two doses of aluminium-adsorbed tetanus toxoid*

R. E. BLACK,¹ D. H. HUBER,² & G. T. CURLIN³

Transferring Health and Family Planning Service Innovations to the Public Sector: An Experiment in Organization Development in Bangladesh

James F. Phillips, Ruth Simmons, George B. Simmons, and Md. Yunus

Impact of measles vaccination on childhood mortality in rural Bangladesh

M.A. Koenig,¹ M.A. Khan,² B. Wojtyniak,³ J.D. Clemens,⁴ J. Chakraborty,⁵ V. Fauveau,⁶ J.F. Phillips,⁷ J. Akbar,⁸ & U.S. Barua⁹

THE LANCET, SEPTEMBER 7, 1985

Child Health

MOTHERS CAN PREPARE AND USE RICE-SALT ORAL REHYDRATION SOLUTION IN RURAL BANGLADESH

A. S. M. MIZANUR RAHMAN ABDUL BARI
A. MAJID MOLLA W. B. GREENOUGH III

International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka-2, Bangladesh

Effectiveness of *Haemophilus influenzae* Type B Conjugate Vaccine on Prevention of Pneumonia and Meningitis in Bangladeshi Children

A Case-Control Study

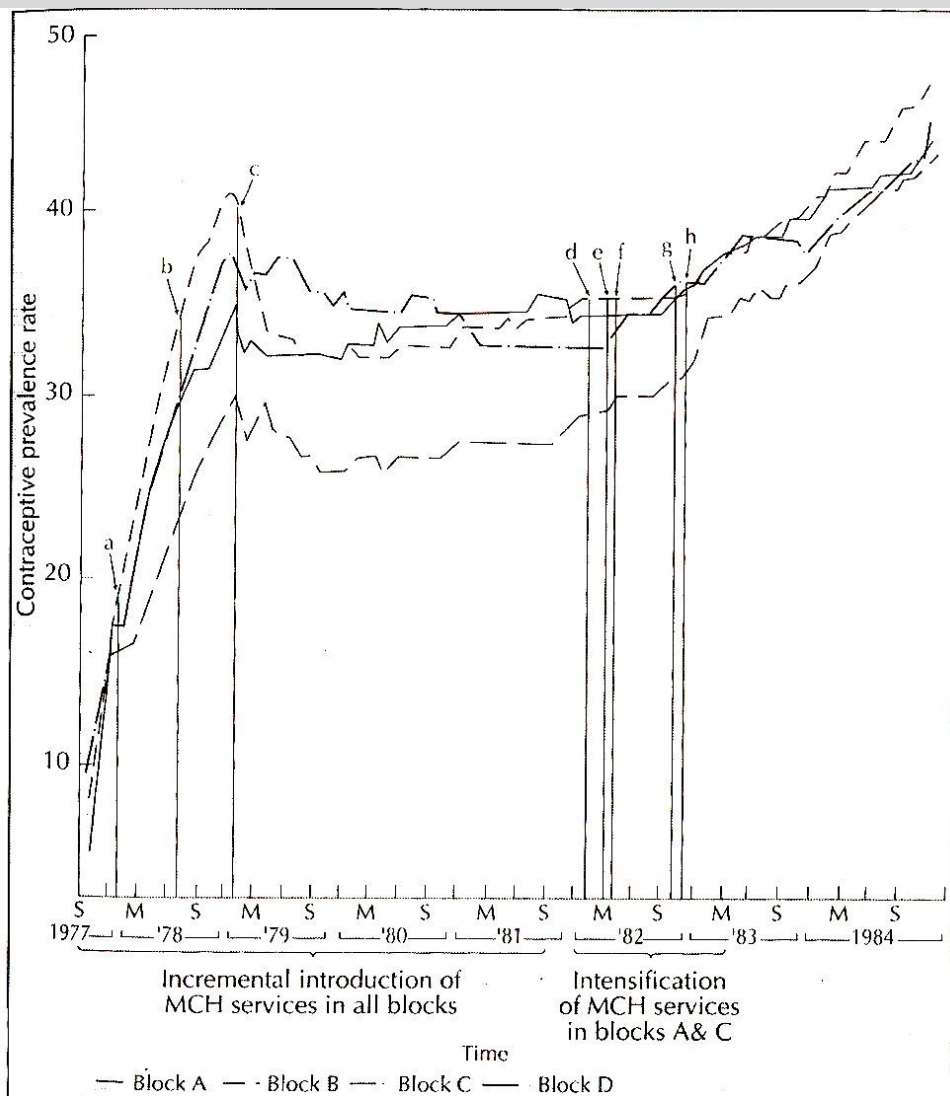
Abdullah H. Baqui, MBBS, MPH, DrPH, Shams El Arifeen, MBBS, MPH, DrPH,† Samir K. Saha, PhD,‡ LarsÅke Persson, MD,§ K. Zaman, MBBS, PhD,† Bradford D. Gessner, MD,|| Lawrence H. Moulton, PhD,* Robert E. Black, MD, MPH,* and Mathuram Santosham, MD, MPH**

Contributing Factors: Ability to Scale Up Simple Interventions



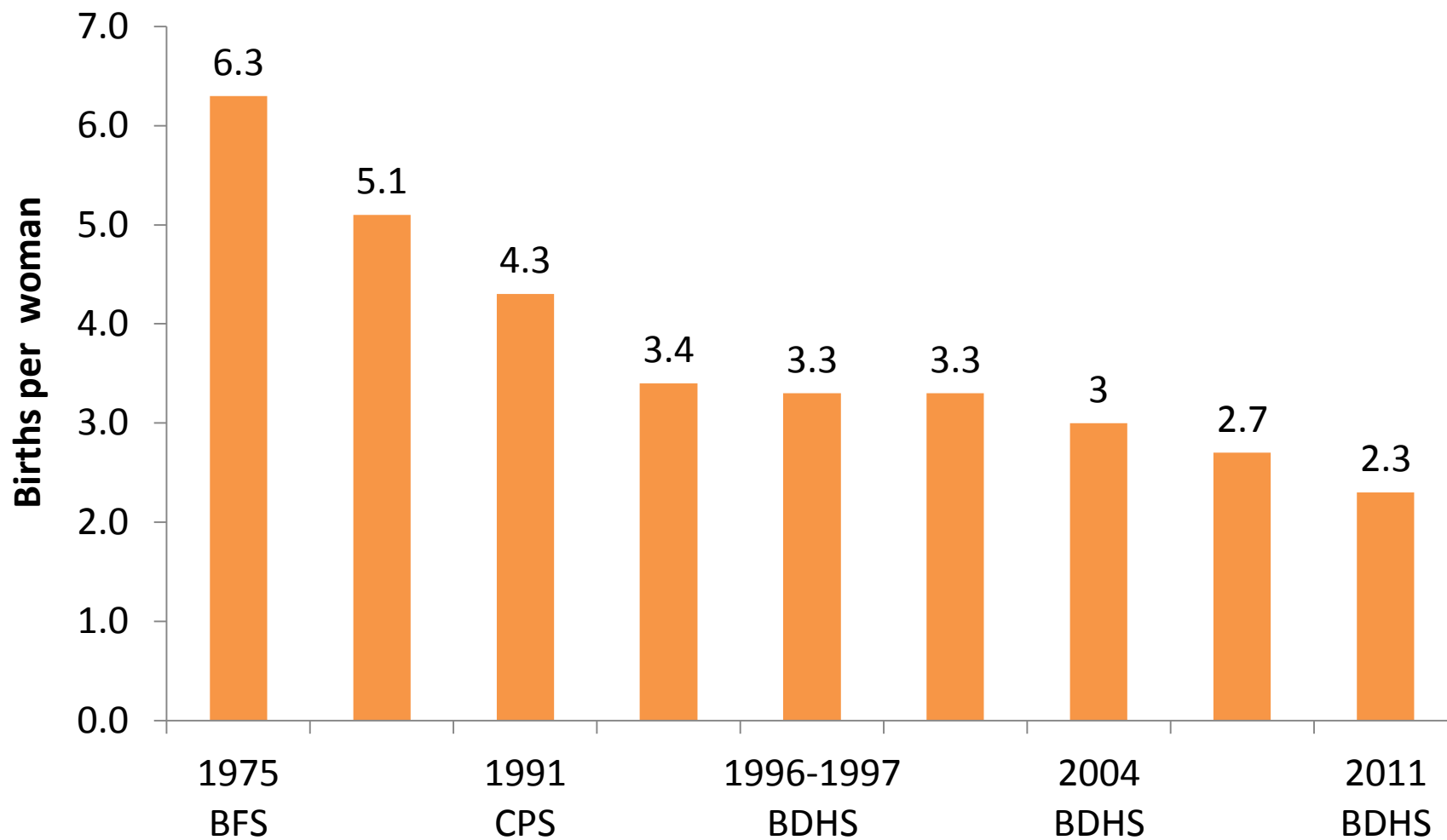


Contributing Factors: Concomitant Emphasis on Family Planning



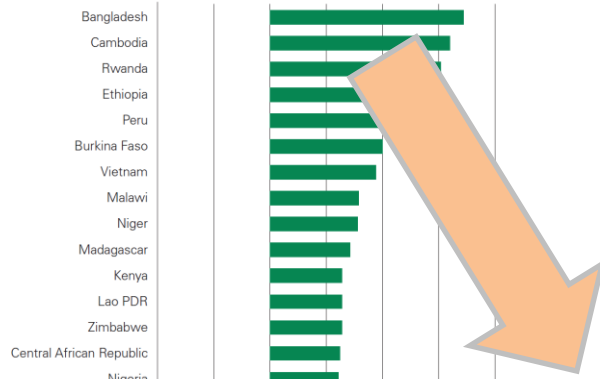
Time trend in contraceptive use prevalence in four service areas of the Family Planning Health Services Project, 1977-84

Total Fertility Rates, Bangladesh

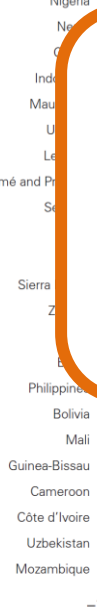
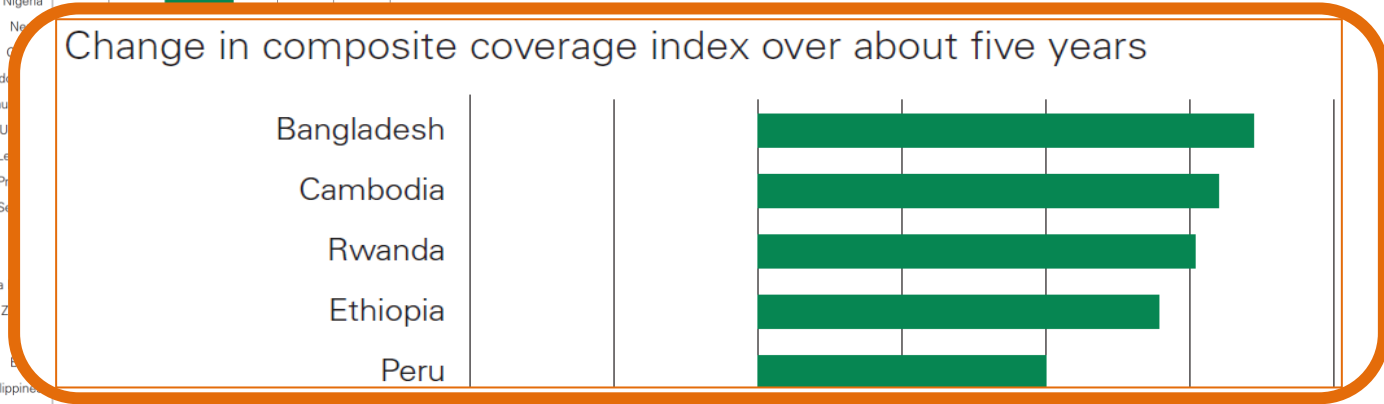


Contributing Factors: Integrated Interventions

Change in composite coverage index over about five years



Bangladesh has made the largest gain in coverage of all eight indicator interventions across the continuum of care



Source: 2012 Report of Countdown to 2015

Contributing Factors: Pluralistic Approach


Government of
Bangladesh

NGO's

Academic Institutions

Multilateral/Bilateral
Donors

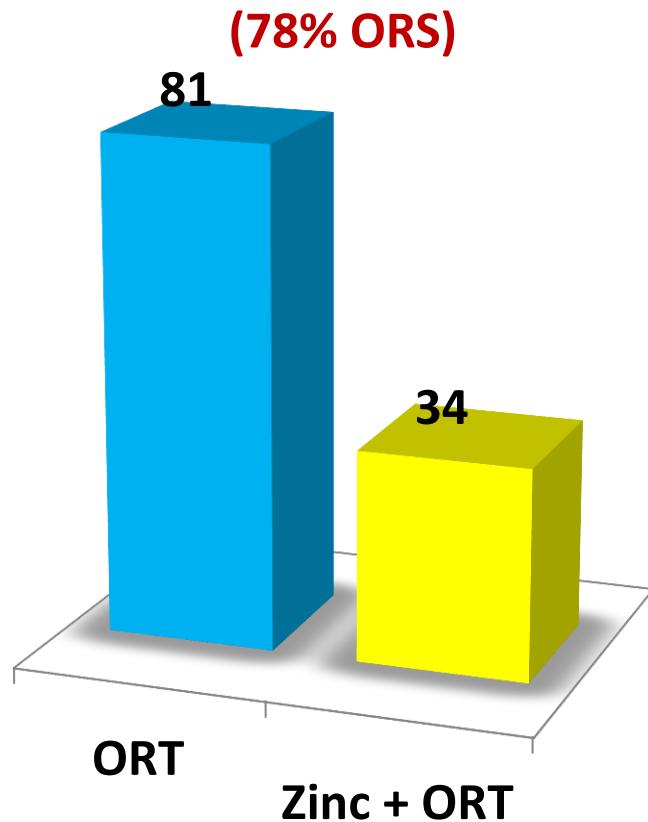
Private Sector



Contributing factors: Education and empowerment of women

- Education: proportion of girls attending primary school is **higher** than boys
- Women's participation in economic activity has **increased from 8% in 1983 to 57% in 2011**

Example: ORS and Zinc Therapy



- Reliance on evidence: multiple icddr,b trials
- Rapid scale up and nationwide delivery by CHWs both in the government and non-government sectors
- Integration with other interventions
- Public-private partnership in supply of ORS and Zn

Source: Bangladesh Demographic and Health Survey 2011

Lessons Learned:

- Success in achieving MDG4 is possible despite low GDP and weak health system
- Focus on simple, scalable, evidence-based interventions
- Integration of health and family planning
- Creating space for multiple players
- Ensuring equity by deploying women as frontline workers, and increasing education and empowerment of women

