

BFHI in the broader women's, childrens' and adolescent health context



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BREASTFEEDING

It Rocks!



The GLOBAL STRATEGY for WOMEN'S, CHILDREN'S and ADOLESCENT HEALTH

Objectives

1. SURVIVE

End preventable deaths



2. THRIVE

Ensure health and well-being

3. TRANSFORM

Expand enabling environments



Breastfeeding in low, middle and high income countries in the 21st century?

Series

Lancet Series

Breastfeeding 1



Breastfeeding in the 21st century: epidemiology, mechanisms, and lifelong effect

Cesar G Victora, Rajiv Bahl, Aluísio J D Barros, Giovanny V A França, Susan Horton, Julia Krasevec, Simon Murch, Mari Jeeva Sa Nigel C Rollins, for The Lancet Breastfeeding Series Group*

The importance of breastfeeding in low-income and middle-income countries is well recognised, by exists about its importance in high-income countries. In low-income and middle-income countrichildren younger than 6 months of age are exclusively breastfed. With few exceptions, breastfee shorter in high-income countries than in those that are resource-poor. Our meta-analyses indicate p child infections and malocclusion, increases in intelligence, and probable reductions in overweight id not find associations with allergic disorders such as asthma or with blood pressure or cholester an increase in tooth decay with longer periods of breastfeeding. For nursing women, breastfeeding against breast cancer and it improved birth spacing, and it might also protect against ovarian caliabetes. The scaling up of breastfeeding to a near universal level could prevent 823000 annual de younger than 5 years and 20000 annual deaths from breast cancer. Recent epidemiological and biftom during the past decade expand on the known benefits of breastfeeding for women and childra re rich or poor.

Breastfeeding 2



Why invest, and what it will take to improve breastfeeding practices?

Nigal C Rollins, Nita Bhandari, Nemat Hajeebhoy, Susan Horton, Chessa K Lutter, Jose C Martines, Ellen G Piwoz, Linda M Richter, Cesar G Victora, on behalf of The Lancet Breastfeeding Series Group*

Despite its established benefits, breastfeeding is no longer a norm in many communities. Multifactorial determinants of breastfeeding need supportive measures at many levels, from legal and policy directives to social attitudes and values, women's work and employment conditions, and health-care services to enable women to breastfeed. When relevant interventions are delivered adequately, breastfeeding practices are responsive and can improve rapidly. The best outcomes are achieved when interventions are implemented concurrently through several channels. The marketing of breastmilk substitutes negatively affects breastfeeding: global sales in 2014 of US\$44.8 billion show the industry's large, competitive claim on infant feeding. Not breastfeeding is associated with lower intelligence and economic losses of about \$302 billion annually or 0.49% of world gross national income. Breastfeeding provides short-term and long-term health and economic and environmental advantages to children, women, and society. To realise these gains, political support and financial investment are needed to protect, promote, and support breastfeeding.

Lancet 2016; 387: 491–504 This is the second in a Series of two papers about breastfeeding

*Members listed at the end of the paper

Department of Maternal, Newborn, Child and Adolescent Health (MCA) (N C Rollins MD), and Department of Noncommunicable Diseases and Mental Health (C K Lutter PhD), WHO, Geneva,

SURVIVE

Improving breastfeeding would annually save about 820,000 children under 5 years of age

87% infants are less than 6 months of age

Reduce infection deaths (<3mo) by 88%

	Outcome	Types of comparison (breastfeeding categories)	Studies (n)	Age range of outcome	Pooled effect (95%CI)	Confounding and effect modification	Other blases	Conclusions
Effects on child	ren, adolescents, or a	idults according to b	reastfeedin	ng pattern				
Sankar et al (2015)**	Mortality due to infectious diseases	Exclusive versus predominant	3	<6 months	OR 0-59 (0-41-0-85)	All studies from LMICs, where confounding by SEP would probably underestimate the effect of breastfreeding. Confounder-adjusted studies showed similar effects	Studies that avoided towerse causation (breastfeeding stopped because of liness) showed similar effects. No evidence of publication bias but very few studies available	Consistent evidence or major protection. Few studies used the four breastfeeding catego in young intants, but evidence from other studies comparing an versus no breastfeed is very consistent.
Sankar et al (2015)**	Mortality due to infectious diseases	Exclusive versus partial	3	<6 months	OR 0-22 (0-14-0-34)	See above	See above	See above
Sankar et al (2015)**	Mortality due to infectious diseases	Exclusive versus none	2	<6 months	OR 0-12 (0-04-0-31)	See above	See above	See above
Sankar et al (2015)**	Mortality due to infectious diseases	Any versus none	9	6-23 months	OR 0-48 (0-38-0-60)	See above	See above	See above
Horta et al (2013)**	Diarrhoea Incidence	Moreversus less breastfeeding (eg exclusive vs non-exclusive; predominant vs partial; partial vs none; any breastfeeding vs no breastfeeding)	15	<5years	RR069 (0.58-0.82)	Most studies were from LM/Cs, where confounding would probably underestimate an effect. Confounder adjusted studies showed similar effects. Three RCTs of breastfeeding promotion (not included in the mela-analysis) showed protection against daminoa morbidity (pooled DR 0-6) [0-49-0-96] (0-49-0-96)	Few studies that allowed for reverse causation also showed protection. Publication bias is unlikely to explain the findings because results from large and small studies were similar.	Strong evidence of major protection against diarrhoea morbidity and admissions to hospit particularly inyoung infants, based on a la number of studies
Horta et al (2013)**	Diarrhoea Incidence	See above	23	<6 months	RR 0-37 (0-77-0-50)	See above	See above	See above
Horta et al (2013)**	Diarrhoea Incidence	See above	11	6 months to 5 years	RR 0-46 (0-28-0-78)	See above	See above	See above
Horta et al (2013)**	Admission to hospital for diarrhosa	See above	9	<5years	RR 0-28 (0-16-0-50)	See above	See above	See above
Horta et al (2013)**	Lower respiratory infections (incidence or prevalence)	See above	16	<2years	RRO-68 (0-60-0-77)	Most studieswere from IMICs, where confounding would probably underestimate the effect of breastfreeding. Confounder- adjusted studies showed similar effects	Studies that avoided reverse causation showed similar effects. No evidence of publication bias	Strong evidence of a reduction in severe respiratory infections breastfed children, based on a large num of studies
Horta et al (2013)**	Admissions to hospitals for respiratory infections	See above	17	<2years	RR 0-43 (0-33-0-55)	The only available RCT showed an RR of 0.85 (0.57-1.27), a non-significant reduction in admissions to hospital	See above	See above

SURVIVE







The role of newborn nurses and midwives in resource poor settings

Paladay feeding of preterm with EBM

SURVIVE





Nepal earthquake







'Buy only 1 can and you will get 2 free t-shirts, baby wipes and a 10% discount card.'



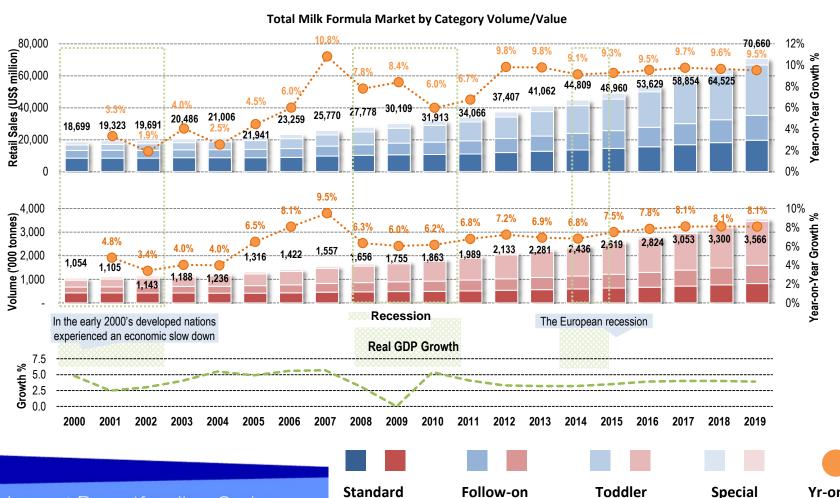
Chheangyi Kry added 3 new photos — with Monika Yin and 17 others.

June 7 - @

Location at : Siem Rean province
For note / 10 (A 9) 381 A UTRITO

Breast milk substitute industry large and growing

By 2019, the market value is projected to reach US\$ 70.6 billion.



THRIVE

Breastfeeding and development

Breastfeeding protects against:

- Acute otitis media (<2 yrs)
- Type 2 diabetes
- Obesity

No evidence for effect on:

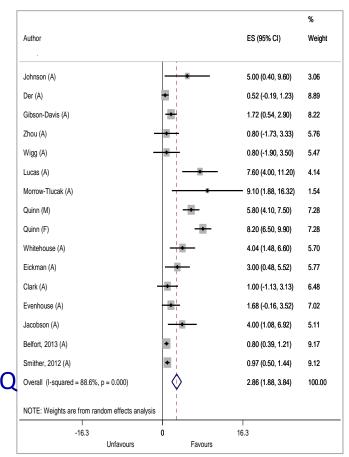
- Blood pressure
- Serum lipids
- Growth (wt or length)

Longer breastfeeding associated with higher performance on intelligence tests

- Average of 3 IQ points, controlling for maternal IQ
- Improved academic performance (some studies)
- Increased adult earnings

But not against:

- Asthma
- Eczema
- Food allergies



THRIVE



THE By 2023, reduce by of children aged under 5 years who are stunted By 2025, reduce by 40% the number

WHY IT MATTERS



Stunting is a largely irreversible

outcome of inadequate nutrition & repeated bouts of infection

during the first

1.000 davs

of a child's life



Stunting has long-term effects,

including: Diminished cognitive and physical development, reduced productive capacity and

poor health



Stunted children have an increased risk of becoming overweight or obese later in life



Reduced school attendance results in diminished earning capacity;

an average of 22% loss of yearly income in adulthood

RECOMMENDED ACTIONS SCALE UP PREVENTION



WHAT? Scale up coverage of stunting-prevention activities



Improve the identification, measurement and understanding of stunting



MATERNAL NUTRITION



WHAT? Improve the nutrition of women of reproductive age



Enact policies and/or strengthen interventions to improve maternal nutrition and health, beginning with adolescent girls





WHAT? Support optimal breastfeeding practices



Implement interventions for improved exclusive breastfeeding and complementary feeding practices



COMMUNITY SUPPORT



Provide community-based strategies to prevent infection-related causes of stunting



Strengthen community-based interventions, including improved water, sanitation and hygiene



Globally, approximately 162 million children

under the age of 5 years are stunted ***************** 3344444444*

SCOPE OF THE PROBLEM

Sub-Saharan Africa and South Asia are home to three quarters of the world's stunted children



Sub-Saharan Africa

40% of children under 5 are stunted



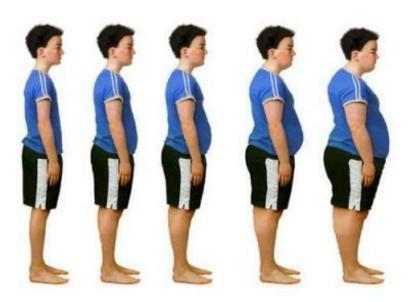
39% of children under







Report of the Commission on Ending Childhood Obesity



World Health Organization

ENDING CHILDHOOD OBESITY





Childhood Obesity

- In absolute numbers, there are more overweight and obese children living in low- and middle-income countries
- Childhood obesity undermines the physical, social and psychological well-being of children and is a known risk factor for adult obesity and noncommunicable diseases.
- As countries undergo rapid socio-economic transition, they face a double burden: inadequate nutrition and excess weight co-exist.
- Undernutrition in early life places children at especially high risk of developing obesity later in life, when diet and physical activity patterns change





THRIVE Breastfeeding benefits women's health



Each year a mother breastfeeds decreases the risk of developing invasive breast cancer by 6%

Breastfeeding also reduces the risk of ovarian cancer

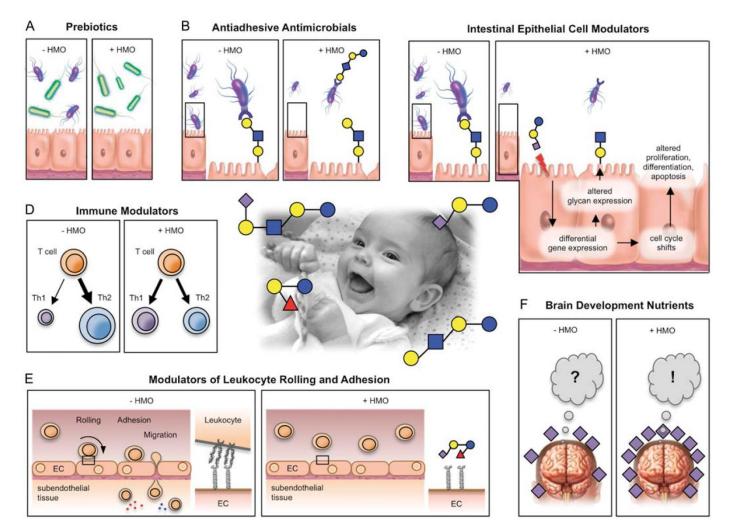
New impact modelling:

Current rates of breastfeeding prevent almost 20,000 deaths from breast cancer per year

Human milk oligosaccharides: Every baby needs a sugar mama **IMMUNITY**

Lars Bode Glycobiology vol. 22 no. 9 pp. 1147–1162, 2012

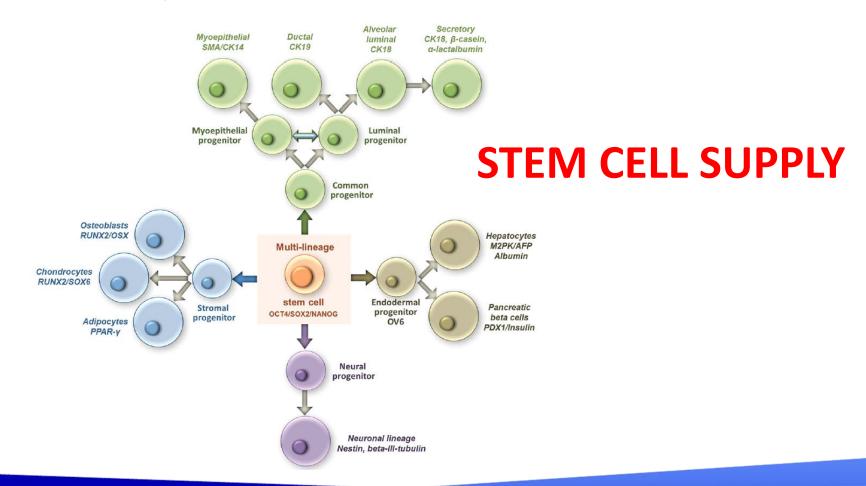
BRAIN DEVELOPMENT



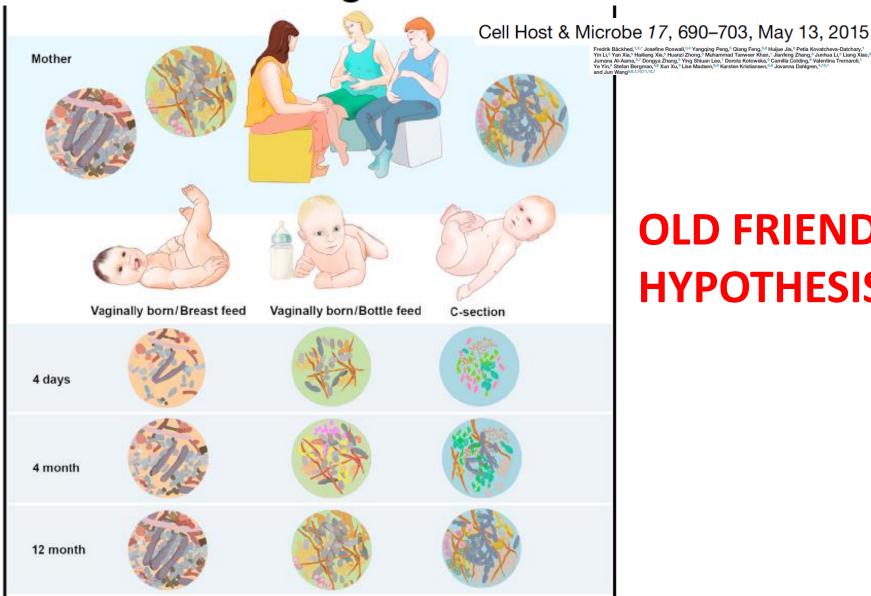
Breastmilk Is a Novel Source of Stem Cells with Multilineage Differentiation Potential Foteni Hassiotou, a,b Adriana Beltran, c Ellen Chetwynd, d Alison M. Stuebe, d Alecia-Jane Twigger, b

STEM CELLS 2012;30:2164-2174

Foteini Hassiotou, ^{a,b} Adriana Beltran, ^c Ellen Chetwynd, ^d Alison M. Stuebe, ^d Alecia-Jane Twigger, ^b Philipp Metzger, ^{b,e} Naomi Trengove, ^a Ching Tat Lai, ^a Luis Filgueira, ^b Pilar Blancafort, ^{b,c} Peter E. Hartmann ^a



Dynamics and Stabilization of the Human Gut Microbiome during the First Year of Life

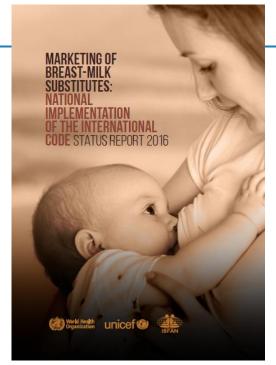


OLD FRIENDS HYPOTHESIS

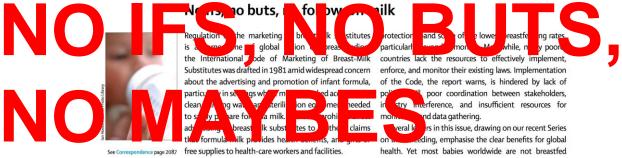
TRANSFORM an enabling environment to support breastfeeding: key actions

A package of actions, policies, and programs to support mothers at health facilities, home and work has the greatest impact

- Disseminate accurate information on the value of breastfeeding
- Foster positive social attitudes toward breastfeeding
- Demonstrate political will to support breastfeeding
- Regulate the breastmilk substitute industry by implementing, monitoring and enforcing the Code
- Scale up and monitor breastfeeding interventions
- Policy to ensure maternity protection



WHO, UNICEF and IBFAN: first joint global report on the status of the Code in 194 countries.



"From tobacco, to sugar, to formula milk, the most vulnerable suffer when commercial interests collide with public health.

Robust advertising regulation— covering all milk products for children up to 3 years, and banning social media promotion—is the next step to protect them."

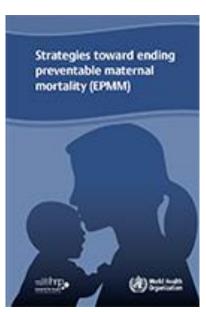


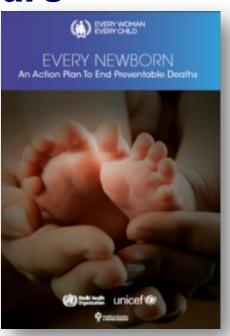


QUALITY, EQUITY, DIGNITY

Halving facility deaths of mothers and newborns in five years







A systems approach

A Global Network for Quality of Care and Patient Safety for mothers and newborns



Eight quality standards

- 1. Evidence-based care
- 2. Health information system
- 3. Referral
- 4. Communication
- 5. Respect
- 6. Emotional support
- 7. Competent motivated staff for Emoc and ENC
- 8. Physical environment

STANDARDS FOR IMPROVING QUALITY OF MATERNAL AND NEWBORN CARE IN HEALTH FACILITIES





TRANSFORM Economic case for investing in breastfeeding

Economic gains:

US\$302 billion/year

(0.47% of global GNI)

Due to increased productivity

associated with higher intelligence

Estimated health benefits:
reduced annual healthcare costs
totalling nearly \$400
million in the U.S., UK, Brazil and
urban China

	Estimated percentage loss in gross national income	Estimated loss in 2012 US\$	
Eastern and southern Africa	0-04%	\$0-1 billion	
West and central Africa	0-06%	\$0-3 billion	
Middle East and north Africa	0-97%	\$11-8 billion	
South Asia	0-05%	\$1.0 billion	
East Asia and Pacific	0-31%	\$28-1 billion	
Latin America and the Caribbean	0-39%	\$12.1 billion	
Eastern Europe and central Asia	0-75%	\$17-6 billion	
Subtotal (low-income and middle-income countries)	0-39%	\$70-9 billion	
High-income countries	0-53%	\$231-4 billion	
World	0-49%*	\$302-0 billion (total estimated loss)	

Estimates are based on data for 96 countries (of 197 countries in the UNICEF's 2014 database)⁹¹. For details about data and included countries, and country-level results, see appendix pp 115–16. *Global average, weighted by gross national income.

Table 2: Estimated economic losses from cognitive deficits associated with regional infant feeding practices compared with every infant breastfeeding until at least 6 months of age.

THANK YOU

My twitter @globalhlthtwit

