

The importance of breastfeeding and complementary feeding practices in childhood nutrition, survival and development.

A European perspective









BREASTFEEDING Lancet Series 2016

Breastfeeding 1



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

Gesat GV lationa, Right Batti, Alfutskof Di Barnes, Grevanny V A França, Sesen Wilgel C Revitos, for The Lancet Breastfeeding Sinies Group "

The importance of breastfeeding in low-income and middle exists about its importance in high-income countries. In children younger than 6 months of age are exclusively be shorter in high-income countries than in those that are reschild infections and malocclusion, increases in intelligence did not find associations with allergic disorders such as as

Breastfeeding 2

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

Nigel C Raftes, Nita Bhandari, Nemat Hajesthoy, Susan Harton, Chessa K Lutter, Jose C Martines, Ellen G Powar, Linda M Richter, Cesar G Victora, on behalf of The Lancet Breastjeeding 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.

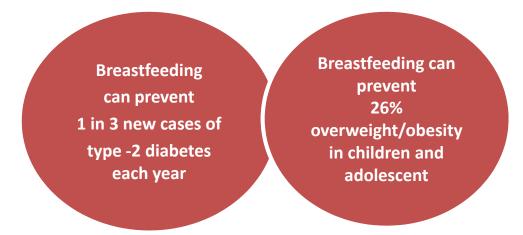
The best outcomes are achieved when interventions are implemented concurrently through several channels. The



Lancet 2016: Breastfeeding saves lives and improves health



- Improving breastfeeding practices could save about 820,000 lives a year,
 87% of them infants under 6 months of age.
- Nearly half of all diarrhea episodes and one-third of all respiratory infections would be prevented with increased breastfeeding in low- and middle-income countries.
- There is growing evidence that breastfeeding decreases the prevalence of overweight/obesity and diabetes later in life.



Source: Lancet Series on Breastfeeding 2016



Breastfeeding helps prepare children for a prosperous future



- Longer breastfeeding is associated with higher performance on intelligence tests among children and adolescents (3 points on average)
- Breastfeeding translates to improved academic performance, increased long-term earnings and productivity
- Globally, estimated costs of lower cognitive ability associated with not breastfeeding amount to about \$300 billion annually (representing 0.49% of global gross national income, or GNI).



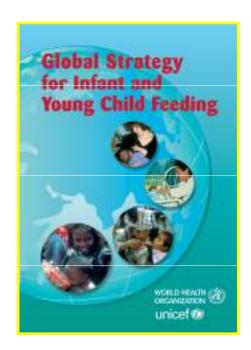
Source: Lancet Series on Breastfeeding 2016



Optimal Infant and Young Child Feeding



- Initiation of breastfeeding within an hour of birth
- Exclusive breastfeeding for the first six months
- Complementary feeding after six months
- Continued breastfeeding for 2 years and beyond





Summary of reporting countries and proportion of breastfeeding practices in the WHO European Region (data from 1998 to 2013)



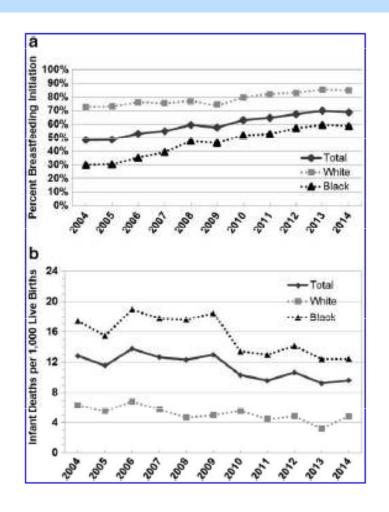
	Reporting	countries		
Indicator	n	n % Minimum–maxir		Median (%)
Breastfeeding within 1 h after birth*	21	40	5–84	43
EBF under 4 months (0-3.9 months)	13	25	6–66	33
EBF under 6 months (0-5-9 months)	24	45	2-56	23
EBF at 6 months†	21	40	1-49	13
Continued breastfeeding at 1 year (12-15-9 months)‡	25	47	1–78	28

Bagci Bosi et al. Breastfeeding practices and policies in WHO European Region Member States. Public Health Nutr 2015;19:753-64



Breastfeeding initiation and infant mortality in an urban population (Tennessee, USA)



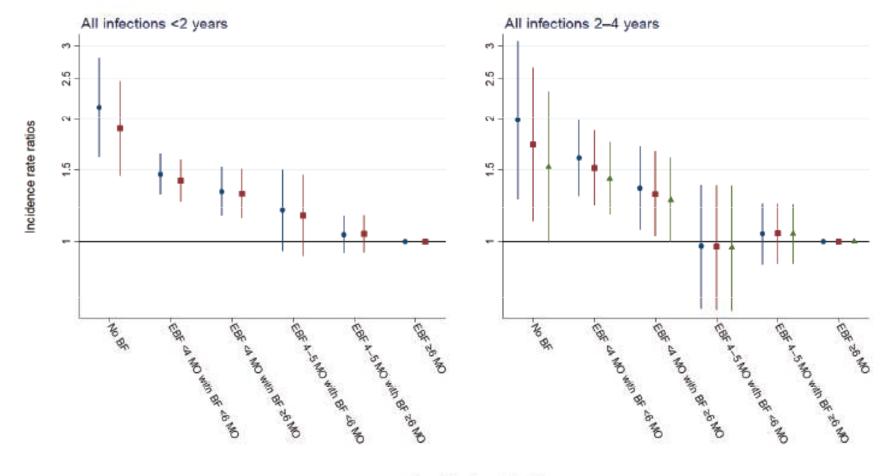


- Initiation of BF was associated with a significant reduction in total infant mortality (19%; 95% CI 3-32%)
- Neonatal mortality was also significantly reduced with any BF (51%; 28-66%)
- Post-neonatal mortality was not significantly associated with BF initiation in the overall population, but was significant in the nonblack population (37%; 2-59%)
- An association was observed between BF initiation and infant mortality from infectious disease (51%; 23-68%)



Breastfeeding categories and overall hospitalisations for infectious disease (Sweden, 1998-2010)





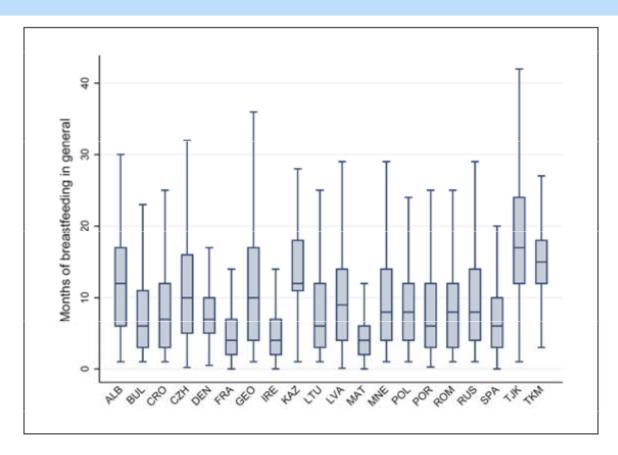
Breastfeeding categories

Videholm S et al. BMJ Open 2021;11:e046583



Duration of breastfeeding among children aged 6-9 years by country



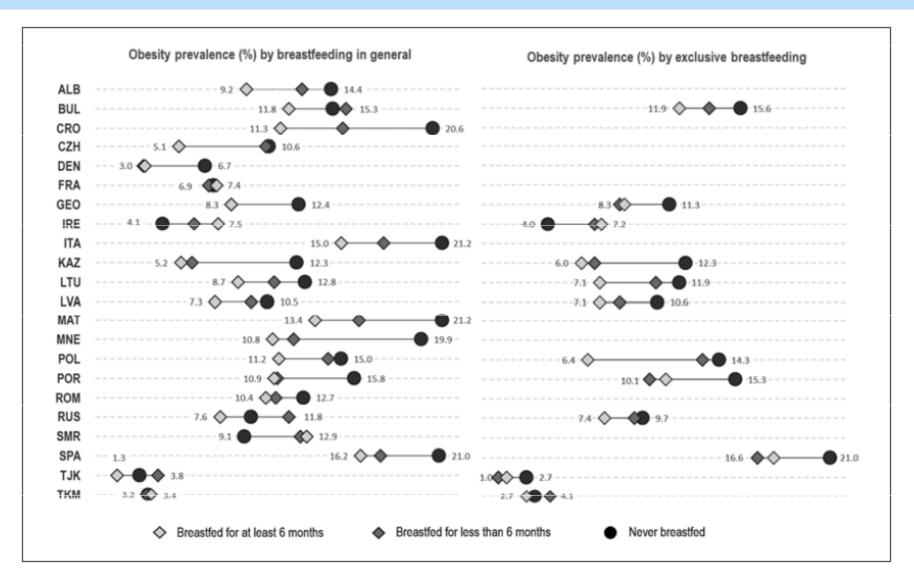


Rito et al. Association between characteristics at birth, breastfeeding and obesity in 22 Countries: the WHO European Childhood Obesity Surveillance Initiative – COSI 2015/2017. Obes Facts 2019;12:226-43



Prevalence of obesity among children aged 6-9 years, by breastfeeding duration and country

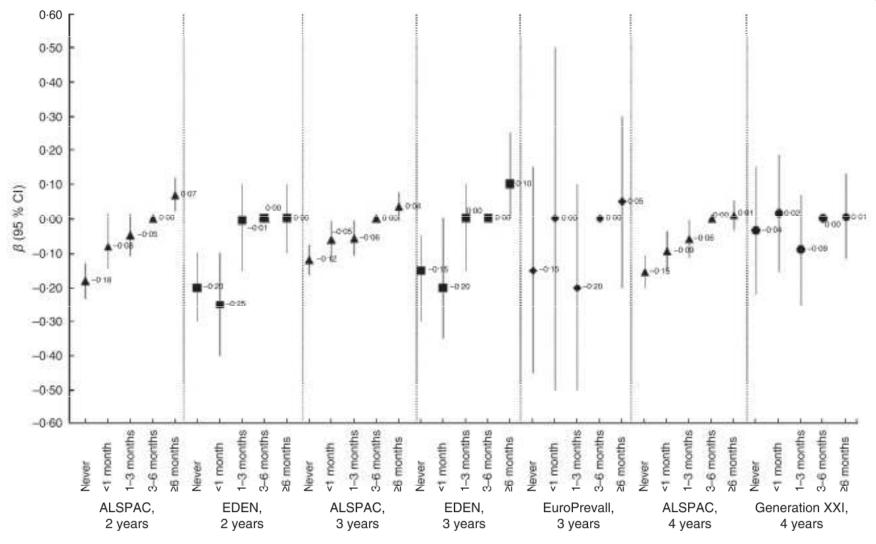






Feeding practices and later healthy diet variety score (UK, France, Portugal, Greece)





Jones L et al. Public Health Nutr 2015;18:1774-84



Prolonged and exclusive BF improves children's cognitive ability at age 6.5 years (Belarus, 2005)



	Score, Mean (SD)			Christian Adjusted Many Difference
Outcome	Experimental Group	Control Group	ICC	Cluster-Adjusted Mean Differenc (95% Cl)
Vocabulary (n=13 838)	53.5 (11.6)	46.9 (11.4)	0.28	+4.9 (+0.4 to +9.3)
Similarities (n=13 836)	56.6 (9.9)	50.7 (11.7)	0.29	+4.6 (+0.2 to +9.0)
Block designs (n=13 840)	57.2 (9.4)	54.6 (10.3)	0.21	+1.9 (-1.7 to +5.5)
Matrices (n=13 841)	52.8 (10.1)	50.9 (9.9)	0.20	+1.8 (-1.9 to +5.5)
Verbal IQ (n=13 828)	108.7 (16.4)	98.7 (16.0)	0.31	+7.5 (+0.8 to +14.3)
Performance IQ (n=13 836)	108.6 (15.1)	104.8 (15.4)	0.24	+2.9 (-3.3 to +9.1)
Full-scale IQ (n=13824)	109.7 (15.4)	101.9 (15.8)	0.31	+5.9 (-1.0 to +12.8)

Outcome	Rating, Mean (SD)			Cluster-Adjusted Mean Difference
	Experimental Group	Control Group	ICC	(95% CI)
Reading (n=10 406)	3.26 (0.82)	3.19 (0.80)	0.02	+0.07 (-0.01 to +0.16)
Writing (n=10 569)	3.19 (0.78)	3.13 (0.73)	0.02	+0.08 (-0.03 to +0.17)
Mathematics (n=10778)	3.23 (0.79)	3.20 (0.77)	0.02	+0.06 (-0.04 to +0.15)
Other subjects (n=10474)	3.30 (0.66)	3.27 (0.65)	0.02	+0.05 (-0.04 to +0.13)

Kramer MS et al. Breastfeeding and child cognitive development. Arch Gen Psychiatry 2008;65:578-84



Global Breastfeeding Collective A Call to Action



We call upon implementers and donors from governments, philanthropies, international organizations, civil society to:



Increase funding to raise breastfeeding rates from birth through two years



 Improve access to skilled breastfeeding counselling as part of comprehensive breastfeeding policies and programmes in health faculties.



 Fully Implement the International Code of Marketing of Breastmilk Substitutes and relevant World Health Assembly resolutions through strong legal measures that are enforced and independently monitored by organizations free from conflicts of interest.



 Strengthen links between health facilities and communities, and encourage community networks that protect, promote, and support breastfeeding



 Enact paid family leave and workplace breastfeeding policies, building on the International Labour Organization's maternity protection guidelines as a minimum requirement, including provisions for the informal sector.



 Strengthen monitoring systems that track the progress of policies, programmes, and funding towards achieving both national and global breastfeeding targets.



 Implement the Ten Steps to Successful Breastfeeding in maternity facilities, including providing breastmilk for sick and vulnerable newborns.

Global Breastfeeding Collective







Conclusions



- Breastfeeding and Infant and Young Child Feeding are important public health interventions to improve:
 - Child Survival and Health
 - Child Growth and Nutrition
 - Child Development
- The situation of Infant and Young Child Feeding practices in Europe is dismal
- A coordinated approach to implement the Global Strategy is required to improve Infant and Young Child Feeding practices