Indicators for assessing infant and young child feeding practices: Definitions and measurement methods



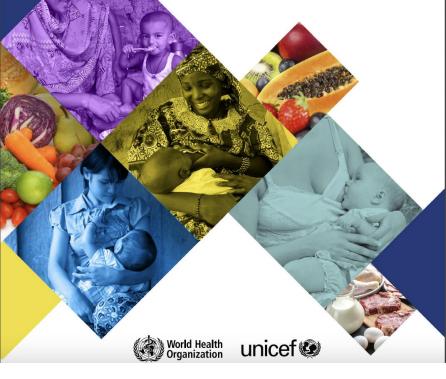
REGIONAL OFFICE FOR EUrope

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WHO European Office for Prevention and Control of NCDs

#### Indicators for assessing infant and young child feeding practices

Definitions and measurement methods





#### GLOBAL BREASTFEEDING SCORECARD 2022 PROTECTING BREASTFEEDING THROUGH FURTHER INVESTMENTS AND POLICY ACTIONS

Breastfeeding is essential for child survival and health. Breast milk is a safe, natural, nutritious, and sustainable food for babies. Breast milk contains antibodies that help protect against many common childhood illnesses such as diarrhoea and respiratory diseases.<sup>1</sup> It is estimated that inadequate breastfeeding is responsible for 16% of child deaths each year.<sup>12</sup> Breastfed children perform better on intelligence tests and are less likely to be overweight or obese later in life.<sup>1</sup> Women who breastfed also have a reduced risk of cancer and type II diabetes.<sup>4</sup>

The Global Breastfeeding Collective has identified seven policy priorities for countries to protect, promote and support breastfeeding. The Nutrition for Growth Summit of 2021 announced a number of bold commitments from governments, development partners, UN agencies and civil society partners amongst others to improve nutrition, particularly through increased investments in exclusive breastfeeding.<sup>5</sup> Further investments and actions are required to support mothers to breastfeed their babies.

The Global Breastfeeding Scorecard examines national performance on key indicators of the seven policy priorities identified by the Global Breastfeeding Collective.<sup>4</sup> The 2022 Scorecard documents progress and challenges in improving infant and young child feeding (IYCF) against these priorities. Details on the indicators used in this Scorecard are available in a separate methodology document.<sup>7</sup>



#### **IMPLEMENTATION GUIDANCE**

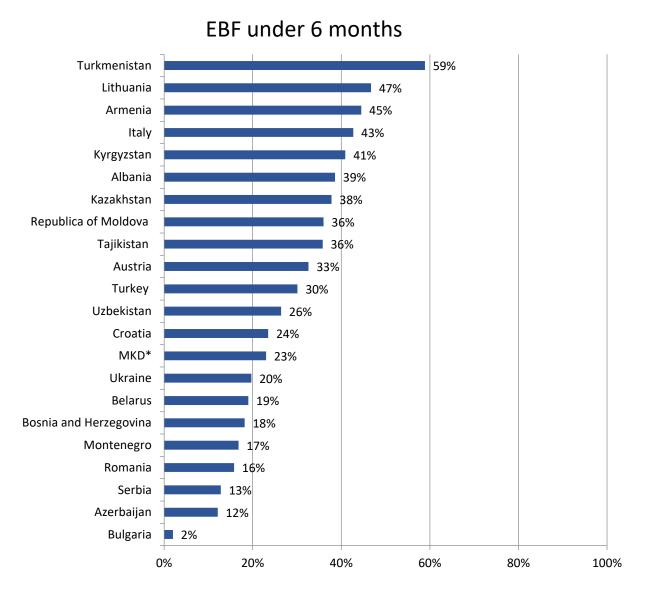
Protecting, promoting and supporting breastfeeding in facilities providing maternity and newborn services: the revised BABY-FRIENDLY HOSPITAL INITIATIVE

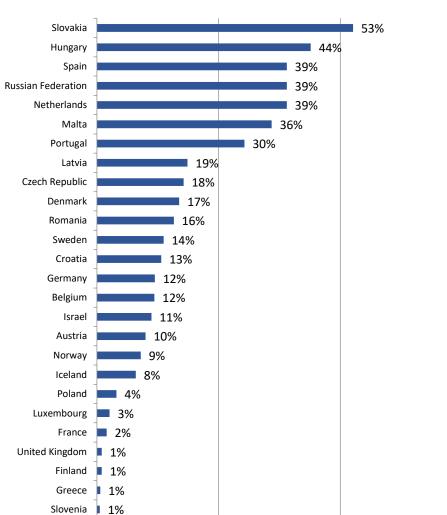


unicef World Health Organization

### Exclusive Breastfeeding UNDER and AT SIX MONTHS

#### Latest Available Data





25%

50%

0%

EBF at 6 months

100%

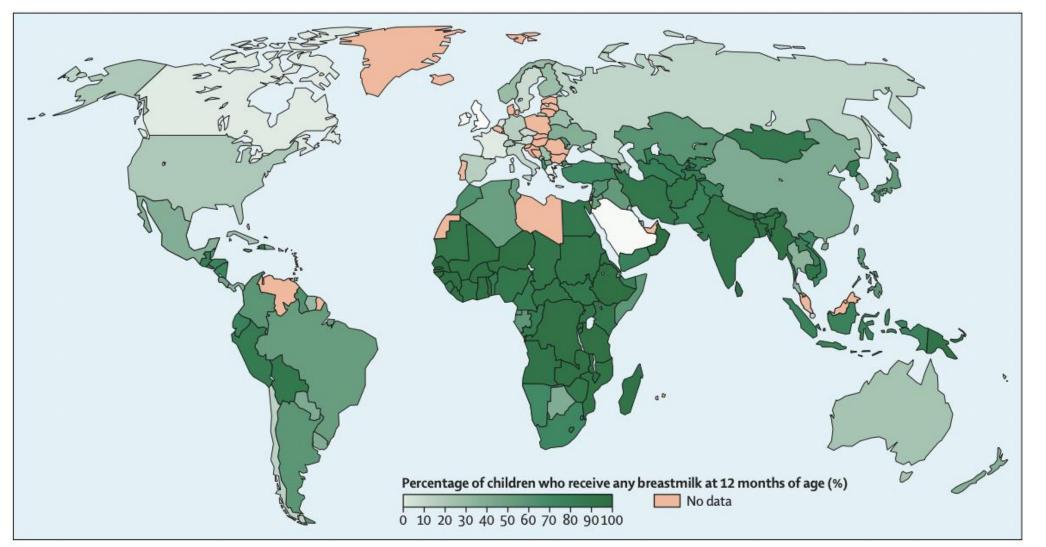
75%

Breastfeeding: The data available

- World Health Organization European Region
- Data availability for breastfeeding patterns shows an unusual distribution.
- Health authorities and researchers

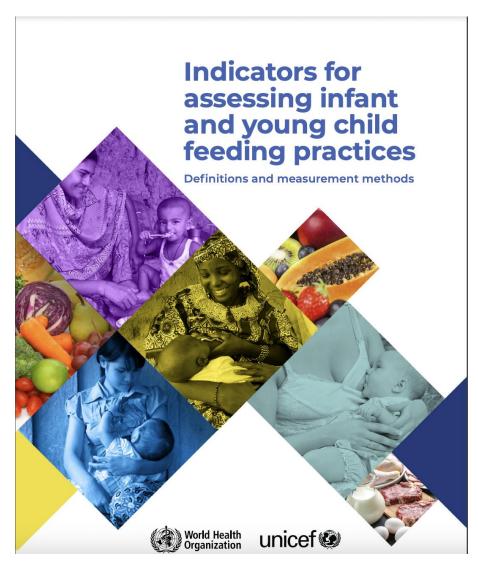
   high-income countries seem to neglect
   breastfeeding to such an extent that most of
   these countries are unable to report on reliable,
   standardized indicators.

(Lancet 2016: Breastfeeding in the 21st century: epidemiology, mechanisms, and lifelong effect)



*Figure 1:* Global distribution of breastfeeding at 12 months Data are from 153 countries between 1995 and 2013.

(Lancet 2016: Breastfeeding in the 21st century: epidemiology, mechanisms, and lifelong effect)





- New and updated indicators to assess infant and young child feeding (IYCF) practices at household level.
- 17 recommended IYCF indicators in the 2021 edition.
- Provides tools for the collection and calculation of the indicators.
- It is intended for use by managers of large-scale population-based surveys

### Scope of the Document



- Overview of the 17 IYCF indicators
- Summary of key changes between the 2008 and 2021 recommended indicators

#### Part 2

 Information and tools for measuring the IYCF indicators and constructing the area graphs



# Infant and Young Child Feeding Indicators

	Indicator	Short name	Age group	Definition	
Bre	astfeeding indicators				
1	Ever breastfed	EvBF	Children born in the last 24 months	Percentage of children born in the last 24 months who were ever breastfed	
2	Early initiation of breastfeeding	EIBF	Children born in the last 24 months	Percentage of children born in the last 24 months who were put to the breast within one hour of birth	
3	Exclusively breastfed for the first two days after birth	EBF2D	Children born in the last 24 months	Percentage of children born in the last 24 months who were fed exclusively with breast milk for the first two days after birth	
4	Exclusive breastfeeding under six months	EBF	Infants 0–5 months of age	Percentage of infants 0–5 months of age who were fed exclusively with breast milk during the previous day	
5	Mixed milk feeding under six months	MixMF	Infants 0–5 months of age	Percentage of infants 0–5 months of age who were fed formula and/or animal milk in addition to breast milk during the previous day	
6	Continued breastfeeding 12–23 months	CBF	Children 12–23 months of age	Percentage of children 12–23 months of age who were feo breast milk during the previous day	



	Indicator	Short name	Age group	Definition		
Cor	Complementary feeding indicators					
7	Introduction of solid, semi- solid or soft foods 6–8 months	ISSSF	Infants 6–8 months of age	Percentage of infants 6–8 months of age who consumed solid, semi-solid or soft foods during the previous day		
8	Minimum dietary diversity 6–23 months	MDD	Children 6–23 months of age	Percentage of children 6–23 months of age who consumed foods and beverages from at least five out of eight defined food groups during the previous day		
9	Minimum meal frequency 6–23 months	MMF	Children 6–23 months of age	Percentage of children 6–23 months of age who consumed solid, semi-solid or soft foods (but also including milk feeds for non-breastfed children) the minimum number of times or more during the previous day		
10	Minimum milk feeding frequency for non-breastfed children 6–23 months	MMFF	Children 6–23 months of age	Percentage of non-breastfed children 6–23 months of age who consumed at least two milk feeds during the previous day		
11	Minimum acceptable diet 6–23 months	MAD	Children 6–23 months of age	Percentage of children 6–23 months of age who consumed a minimum acceptable diet during the previous day		
12	Egg and/or flesh food consumption 6–23 months	EFF	Children 6–23 months of age	Percentage of children 6–23 months of age who consumed egg and/or flesh food during the previous day		
13	Sweet beverage consumption 6–23 months	SwB	Children 6–23 months of age	Percentage of children 6–23 months of age who consumed a sweet beverage during the previous day		
14	Unhealthy food consumption 6–23 months	UFC	Children 6–23 months of age	Percentage of children 6–23 months of age who consumed selected sentinel unhealthy foods during the previous day		
15	Zero vegetable or fruit consumption 6–23 months	ZVF	Children 6–23 months of age	Percentage of children 6–23 months of age who did not consume any vegetables or fruits during the previous day		



2008 indicator	2021 indicator	Key change	Main rationale
Children ever breastfed	Ever breastfed	This was an "optional" indicator in the 2008 set of indicators	There is no longer a set of optional indicators; all are recommended.
Early initiation of breastfeeding	Early initiation of breastfeeding	No change	
	Exclusively breastfed for the first two days after birth	New indicator	Feeding newborns anything other than breast milk can make it more difficult to establish breastfeeding.
Exclusive breastfeeding under six months	Exclusive breastfeeding under six months	No change	
	Mixed milk feeding under six months	New indicator	This indicator may be useful for advocacy purposes to document the extent to which non-human milks are used to supplement breastfeeding.
Continued breastfeeding at one year (12–15 months)	Continued breastfeeding 12–23 months	Age window widened to reflect any breastfeeding in the second year of life	Sample size tended to be small for children aged 12–15 months and age window did not accurately reflect "at 1 year".
Introduction of solid, semi-solid or soft foods	Introduction of solid, semi- solid or soft foods 6–8 months	Calculation is now based on the food list question rather than the frequency of feeding question	Brought into line with data analysis practices of two major household survey programmes, the Multiple Indicator Cluster Survey (MICS) and the Demographic and Health Surveys (DHS).
Minimum dietary diversity	Minimum dietary diversity 6–23 months	Breast milk added as an eighth food group and cut-off for minimum increased to five food groups	Previous definition disadvantaged breastfed children in not counting breast milk as a food group.
Minimum meal frequency	Minimum meal frequency 6–23 months	At least one non-milk feeding is required to meet minimum for non-breastfed children while the previous definition allowed children to achieve the minimum with milk feeds only	Dietary intake for this age group needs to include solid, semi-solid or soft foods; allowing consumption of only milk-based meals was not in line with guiding principles on IYC feeding.
Milk feeding frequency for non-breastfed children	Minimum milk feeding frequency for non-breastfed children 6–23 months	This was an "optional" indicator in the 2008 set of indicators	There is no longer a set of optional indicators; all are recommended.

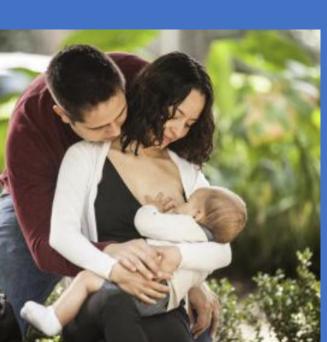
#### CHANGES BETWEEN THE 2008 AND 2021 IYCF INDICATORS

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2008 indicator	2021 indicator	Key change	Main rationale	
Minimum acceptable diet	Minimum acceptable diet 6–23 months	Altered to reflect changes in MDD and MMF above	See above.	
	Egg and/or flesh food consumption 6–23 months	New indicator	Diets lacking egg and/or flesh foods are less likely to meet nutrient needs for IYC.	
	Sweet beverage consumption 6–23 months	New indicator	Intake of sweet beverages is associated with increased weight- for-length and BMI z-scores, and intake of sugar-sweetened beverages with an obesity risk in children.	
	Unhealthy food consumption 6–23 months	New indicator	Unhealthy foods displace nutritious foods and establish dietary preferences that persist throughout childhood and into adulthood.	
	Zero vegetable or fruit consumption 6–23 months	New indicator	Low vegetable and fruit consumption is associated with an increased risk of noncommunicable diseases.	
Bottle feeding	Bottle feeding 0-23 months	This was an "optional" indicator in the 2008 set of indicators	There is no longer a set of optional indicators; all are recommended.	
Infant feeding area graphs	Area graphs under 6 months	New indicator	These graphs were recommended in the previous guidance for 0–23 months, but not listed among the indicators. Given their value in situation analysis and monitoring, they have now been included as "other indicators".	
Consumption of iron-rich or iron-fortified foods		Deleted	Hard to operationalize in household surveys.	
Continued breastfeeding at two years (20–23 months) (optional)		Combined with continued breastfeeding 12–23 months as described above		
Age-appropriate breastfeeding (optional)		Deleted	Composite indicator that was hard to interpret programmatically.	
Predominant breastfeeding under six months (optional)		Deleted	Predominant breastfeeding is not recommended. The indicator was rarely used; not considered useful.	
Duration of breastfeeding (optional)		Deleted	Difficult to calculate and hard to communicate.	



European Region



# **Priority Policy Actions**





 Increase funding to raise breastfeeding rates from birth through two years.



2 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.



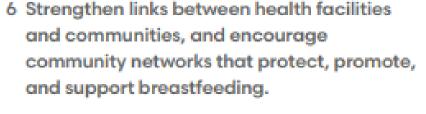
3 Enact paid family leave and workplace breastfeeding policies, building on the International Labour Organization's maternity protection guidelines as a minimum requirement, including provisions for the informal sector.



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

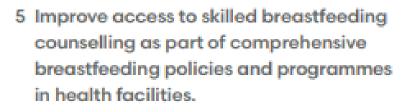








7 Strengthen monitoring systems that track the progress of policies, programmes, and funding towards achieving both national and global breastfeeding targets.





#### GLOBAL BREASTFEEDING SCORECARD 2022 PROTECTING BREASTFEEDING THROUGH FURTHER INVESTMENTS AND POLICY ACTIONS

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### Global Breastfeeding Scorecard

- Indicators on:
  - GBC policy priorities (1-2 each)
  - IYCF in emergencies
  - Breastfeeding rates (EIBF, ExBF, 1yr, 2yr)
- Colour-coding on level of performance
- Sets 2030 targets
- Aims to advocate for progress, increase accountability, and document change on top priorities
- Published annually since 2017
- Online dashboard: (https://www.globalbreastfeedingcollective.org/globalbreastfeeding-scorecard)
  - Maps
  - Country-specific data for 194 countries





# What's new: New indicators

Theme/ Indicator 2030 Target Data source Policy ask Code Monitoring of the Code 50% of countries with monitoring mechanism for the Code and **UNICEF** Nutridash continuous monitoring (25% baseline) 40% of countries meeting ILO standards on provision of nursing 2022 ILO Care at Work Maternity protection Standards on workplace accommodations breaks and facilities (20% baseline) report BFHI % of Births Observed on 40% of countries with at least 75% of births observed on **Demographic and Health Breastfeeding at Birth** breastfeeding at birth (15% baseline) Survey % of Caregivers Counselled on **UNICEF** Nutridash Counseling 60% of countries with at least 75% of caregivers of children below 2 IYCF years of age counselled on IYCF (28% baseline) Inclusion of IYCF Support in 40% of countries with IYCF support included in pre-service curricula **UNICEF** Nutridash **PreService** Curricula for medical doctors and nurses (17% baseline) 50% of countries with programme, policy, and funding for IYCF in IYCF in emergencies IYCF Support in Emergencies **UNICEF** Nutridash emergencies (23% baseline)



# What's new: Data updates

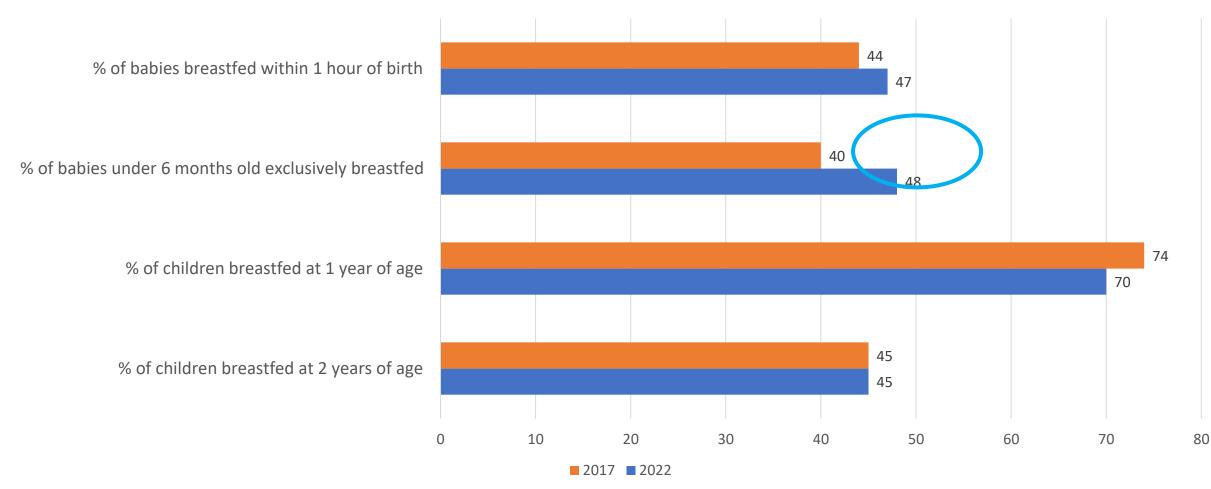
Theme	Indicator	Data source
Funding	Donor Funding (USD) Per Live Birth	2022 R4D report: Tracking aid for the WHA nutrition targets
Code	Legal Status of the Code	2022 Code Status Report
Maternity protection	Standards on Maternity Leave	2022 ILO report: Care at Work
Community support	% of districts implementing community BF programs	Nutridash 2021
Monitoring	Most recent exclusive BF report	UNICEF IYCF database
	Most recent WBTi BF program assessment	IBFAN/BPNI reporting
Breastfeeding	Initiation in first hour	UNICEF IYCF database
practices	Exclusive breastfeeding 0-6 months	UNICEF IYCF database
	Continued breastfeeding 12-15 months	UNICEF IYCF database
	Continued breastfeeding 20-23 months	UNICEF IYCF database

Global Breastfeeding Scorecard 2022

### What's new: Results



#### **Global prevalence of breastfeeding**



# What's new: Results

- Updated data on donor funding shows little improvement.
- Progress has been made on the implementation of the Code, with seven new countries having legislation substantially aligned with the Code.
- Only one in four countries have functioning mechanisms to monitor compliance with the Code.
- New analysis of legislation on maternity leave shows little progress.
- Most countries do not guarantee working mothers the right to facilities and paid break times for breastfeeding.



- Intended for : governments; national managers of maternal and child health programmes in general, and of breastfeeding- and Baby-friendly Hospital Initiative (BFHI)-related programmes
- The steps are divided into: institutional procedures and standards for individual care of mothers and infants (key clinical practices)

#### IMPLEMENTATION GUIDANCE

Protecting, promoting and supporting breastfeeding in facilities providing maternity and newborn services: the revised BABY-FRIENDLY HOSPITAL INITIATIVE







#### **Appendix: Indicators for monitoring**

### Protecting, promoting and supporting **BREASTFEEDING IN FACILITIES**

providing maternity and newborn services: the revised Baby-friendly Hospital Initiative Tables with:

- Key clinical practices,
- Proposed indicator definition
- Target
- Primary source
- Additional sources

https://cdn.who.int/media/docs/defaultsource/breastfeeding/publication/bfhiimplementation-2018appendix.pdf?sfvrsn=d38e8885\_11

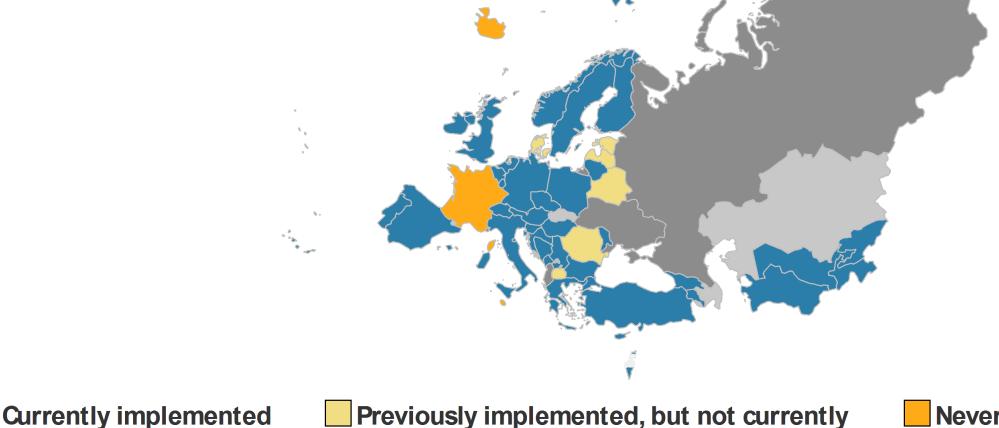




**European Region** 



# Implementation status of baby friendly hospital initiative (BFHI), 2017



Did not participate in survey

No response



### Why are standardized methods for assessing IYCF important?

Standardized methods allow more accurate tracking/comparison over time in country and with other countries

Informs policy, programs and civil society

# Allows inclusion in global datasets

Targets provide a benchmark for progress

# Holds everyone to account



**European Region** 

### Thank you Julianne Williams <u>williamsj@who.int</u>

### Special Thanks Nigel Rollins and Muzna Mughal

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