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Meeting the measurement needs of the changing face of children's diets around the world

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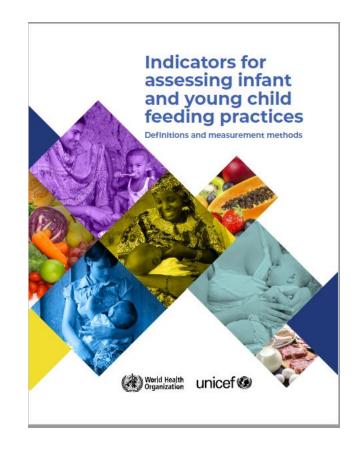
Conflict of Interest Disclosure

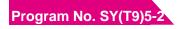
The authors have no conflict of interest to report in relation to this presentation.

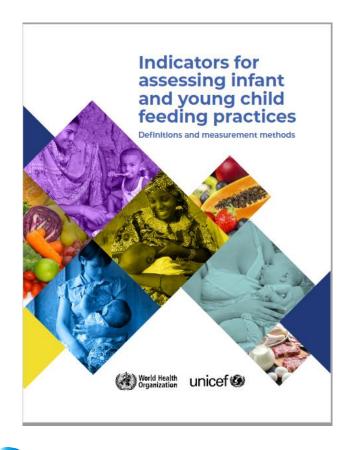
IYCF Technical consultation in 2017 and 2018

- Re-evaluated the 2008 indicators
- Proposed additional breastfeeding and complementary feeding indicators

Following the consultations, 17 IYCF indicators recommended for inclusion in IYCF guide published in April 2021.







The guidance includes

- Indicator definitions
- Data collection methodology
- Standard recommended questionnaires
- Details on selecting and training interviewers
- Analytical codes



IYCF Guide update: Indicators retained with no change

- Children ever breastfed
- Early initiation of breastfeeding
- Exclusive breastfeeding under 6 months
- Bottle feeding
- Minimum milk feeding frequency for non-breastfed children
- Introduction to solid, semi-solid and soft foods



IYCF Guide update: Indicators deleted

- Predominant breastfeeding under 6 months –rarely used, not considered useful
- Age-appropriate breastfeeding –hard to interpret programmatically
- Duration of breastfeeding –hard to calculate and communicate
- Consumption of iron-rich or iron-fortified foods —difficult to operationalize in household surveys



IYCF Guide update: Revised Indicators

Continued breastfeeding - assessed among children 12-23 months of age

With disaggregations for 12-15 months, 16-19 months, and 20-23 months

Replaces two indicators on 12-15 months and 20-23 months

Large confidence intervals due to tight age range





IYCF Guide update: Revised Indicators

Minimum Dietary Diversity (MDD): Revised indicator definition includes

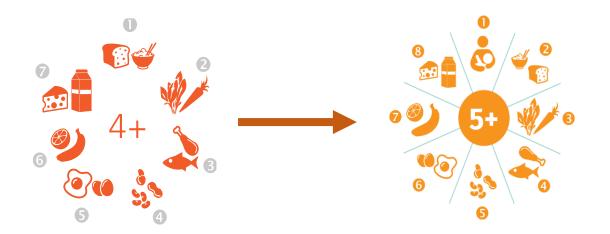
breastmilk as the 8th food group.

Rationale for revision

- Previous definition of MDD "advantaged" non-breastfed infants by allowing breast milk substitutes, but not breast milk to count to receive a point
- Previous definition became more problematic in context of global use, i.e. if MDD becomes more commonly used in countries with high rates of use of breast milk substitutes
- Despite specific instruction against comparing breastfed and non-breastfed children in the previous guidance, experience showed that such comparisons were often made, which made assessment between breastfed and non-breastfed children unfair and inconsistent.







Previous definition required at least 4 out of 7 food groups

Revised definition requires at least **5 out of 8** food groups, including breastmilk.





IYCF Guide update: Revised Indicators

Minimum Meal

substitutes



Breastfed children

Non-breastfed children

Z

semi-soft foods

Frequency:

CURRENT INDICATOR

6-8 months ≥ 2/day	9-23 months ≥ 3/day
<u> </u>	<u> </u>
—	<u> </u>

PREVIOUS INDICATOR

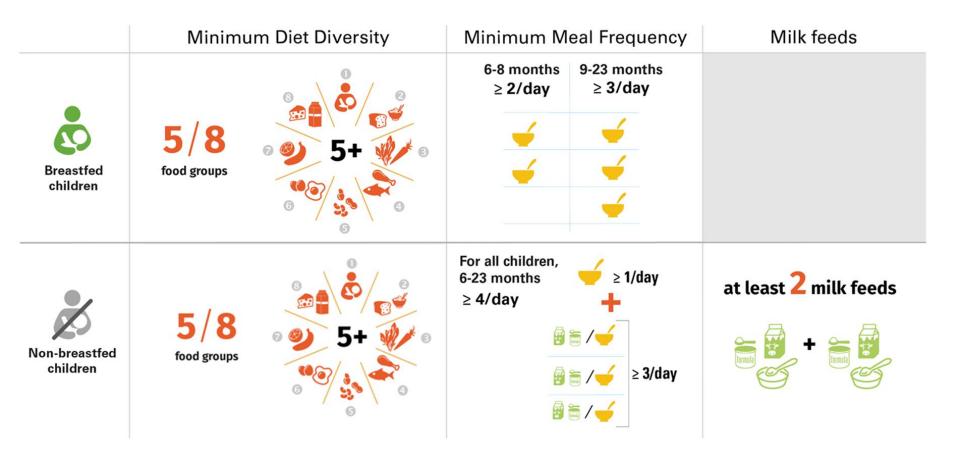
milk feeds



Daily intake may result in any combination of the following:



Changes in minimum dietary diversity and meal frequency have resulted in the revision of minimum acceptable diet



 Exclusive breastfeeding in the first 2 days after birth – Percentage of children born in last 2 years who were exclusively breastfed in the first 2 days following birth

Rationale for the indicator: Feeding newborns anything other than breastmilk has the potential to delay their first critical contact with their mother and can make it more difficult to establish breastfeeding over the long-term.





 Mixed breast-and non-breast milk feeding under 6 months – Percentage of infants 0-5months of age who are fed breastmilk and formula or animal milk during the previous day

Rationale for the indicator: Non-human milk are likely to displace breastmilk and associated with increased risk of early cessation of breastfeeding, diarrhea, altered gut microflora.

 Egg and/or flesh food consumption – Percentage of children 6-23 months of age who consumed egg and/or flesh foods during the previous day

Rationale for the indicator: Available evidence that infants and young children consuming egg and flesh food have higher intake of various nutrients important for optimal linear growth.

3 new indicators proposed to capture unhealthy eating

- Sweet beverage consumption 6-23months of age
- Unhealthy food consumption 6-23months of age
- Zero vegetable or fruit consumption 6-23months of age





 Sweet beverage consumption—Percentage of children 6-23 months of age who consumed a sweet beverage during the previous day.

Sweet beverage includes

- Commercially produced and packaged beverages as soda pop, sport drinks, chocolate and other flavored milks etc.
- 100% fruit juice as well as fruit flavored drinks
- Home-made drinks of any kind to which a sweetener was added

 Unhealthy food consumption—Percentage of children 6-23 months of age who consumed sentinel unhealthy foods during the previous day.

Selected sentinel unhealthy foods includes

- Candies, chocolate and other sugar confections, including those made with real fruit or vegetables like candied fruit or fruit roll-ups.
- Frozen treats like ice cream, gelato, sherbet, sorbet, popsicles or similar confections.
- Cakes, pastries, sweet biscuits and other baked confections
- Chips, crisps, cheese puffs, French fries, fried dough, instant noodles and similar items which contain mainly fat and carbohydrate.



Zero vegetable or fruit consumption
 — Percentage of children 6-23 months of age who did not consume any vegetables or fruits during the previous day

Rationale for the indicator: Low fruit and vegetable intake in young children is linked to low intake later in life. While there is not a universal recommendation for the optimal number of servings of vegetables and fruits per day for 6-23 months old children, consumption of zero servings on the previous day represents an unhealthy practice.





Data Collection Methodology: Household surveys

Q#	Question	Response	Code	Skip
1	Was [NAME] ever breastfed?	Yes	1	
		No	2	If "no", END questions about retrospective feeding
2	How long after birth was [NAME] first put to the breast?	Immediately	000	
	If immediately, circle "000" If less than one hour, record "00" hours	Hours:	1	
	If less than 24 hours, record hours Otherwise, record days	Days:	2	
3	In the first two days after delivery, was [NAME] given anything other than breast milk to eat or drink – anything at	Yes	1	
	all like water, infant formula, or [insert common drinks and foods, including ritual feeds, that may be given to newborn infants]?	No	2	

Indicators as ever breastfed & early initiation of breastfeeding based on recall of practices immediately following child's birth

Respondents are women of reproductive age with a birth in last 2 years

Questions asked about all live births in last 24 months, whether the infant is alive or dead at the time of interview



Indicator

Measurement methods

Current breastfeeding practices

months, continued breastfeeding etc.)

Exclusive breastfeeding under 6

List-based method recommended to record beverage intake

Foods fed to child may be recorded using openrecall or list-based recall

The beverage and food lists must be adapted to represent the most commonly consumed items by infants

and young children in a country

Questions to mothers/caretakers about all living children 0-23months of age in a household

Based on 24-hour dietary recall (day before the survey)

practices

Current complementary feeding

(Minimum dietary diversity, egg and/or flesh food consumption etc.)

ONGRESS OF NUTRITION IN TOKYO, JAPAN



OPEN RECALL QUESTIONNAIRE FOR FOODS					LIST-BASED QUESTIONNAIRE FOR FOODS					
Q#	Question	Response and code				Question		Response and		
7	Now I would like to ask you about everything that [NAME] ate yesterday during the day or the night. I am				Q#	Question		code		
	interested in foods your child ate whether at home or somewhere else.				7	Now I would like to ask you about foods that [NAME] had yesterday during the day or at night. I am				
	Think about when [NAME] woke up yesterday. Did (he/she) eat anything at that time?					interested in foods your child ate whether at home or somewhere else. Please think about snacks and small				
	If "yes" ask: Please tell me everything [NAME] ate at that time.					meals as well as main meals.				
	robe: Anything else?	I will ask you about different types of foods, and I would								
	Record answers using the food groups below.					like to know whether your child ate the food even if it				
	What did [NAME] do after that? Did he/she eat anything at that time?					was combined with other foods in a mixed dish like [list common local examples of mixed dishes]				
	Repeat this series of questions, recording in the food groups, until the respondent tells you that the child woke up this morning.					Please do not answer "yes" for any food or ingredient used in a small amount to add flavour to a dish.				
	If a mixed dish is mentioned:					Yesterday during the day or at night, did [NAME] eat:				
	<i>Probe:</i> What were the main ingredients in [MIXED DISH]?					resterday during the day of at hight, did [NAINE] eat.				
	Record answers in the correct food groups 7A–7R.						YES	NO	DK	
			7A	Yogurt, other than yogurt drinks?						
		YES	NO	Dł				2	9	
7A	Yogurt, other than yogurt drinks?	1 2	2	9						
			2		7Anum	If "yes": How many times did [NAME] eat yogurt?				
7Anum	If "yes": How many times did [NAME] eat yogurt?	Number of			If more than 7, record "7"		Number of time			
	If more than 7, record "7"	"7" time	times			If number of times not known, record "9"	<u> </u>			
	If number of times not known, record "9"				70	· · · · · · · · · · · · · · · · · · ·				
7B	Porridge, bread, rice, noodles, pasta or [insert other commonly consumed grains from table A6.2, including foods made from grains like rice dishes, noodle dishes, etc.]?	1	2	9	7B	Porridge, bread, rice, noodles, pasta or [insert other commonly consumed grains from table A6.2, including foods made from grains like rice dishes, noodle dishes etc.]?	1	2	9	