

ONDERNO TRITION IS COSTING EATHY AMERICA AND THE CARIBBEAN 371 BIELION FER TEAT

AUTHORS: Sakshi Jain, Sameen Ahsan, Dylan Walters and Robyn Bright, Nutrition International

#### **BACKGROUND**

The interrelated crises of the COVID-19 pandemic, climate change and cost of living have put unprecedented pressure on social sector accounts and caused governments to consider diverting investments in public health and prevention programs to bolster short term responses to urgent needs.

In 2012, the World Health Assembly (WHA) set global nutrition targets to spur action and investment into addressing malnutrition. These targets aimed to achieve a 40% reduction in the number of children under five who are stunted, a 50% reduction of anaemia in women of reproductive age, a 30% reduction in low birthweight, and an increase in the rate of exclusive breastfeeding in the first six months to 50% by 2025. At present, the Latin America and the Caribbean region is off course to meet these targets.

In Latin America and the Caribbean, every year, more than 1 million children under five are stunted, close to 2 million are anaemic, 928,000 are born with low birthweight, and more than 6 million are being sub-optimally breastfed. Additionally, more than 29 million older adolescent girls and women (15–49y) are suffering from anaemia.

Through the development of an online, user-friendly "Cost of Inaction" tool, Nutrition International has sought to support policy makers as they weigh their options. The tool provides an analysis of the costs of "inaction" — of allowing limited to no progress on key indicators of undernutrition to be made, and how doing so affects countries' income in both the immediate and long term. The model also estimates anticipated economic gains that can be expected from progress on these indicators. In short, the new tool demonstrates that inaction on malnutrition comes at a significant price — one that can be averted through investments in proven, low-cost, high-impact nutrition interventions.



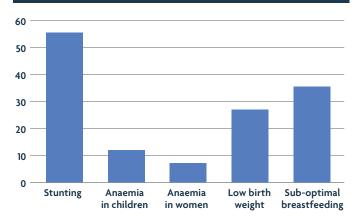
#### THE FINDINGS

The Nutrition International Cost of Inaction Tool estimates the health and economic consequences of stunting, low birthweight, and anaemia. The health and economic impacts of suboptimal breastfeeding are calculated by the Nutrition International Cost of Not Breastfeeding Tool. For each nutritional deficiency, the tools calculate health and human capital impacts at current prevalence rates, and the current and future economic costs due to mortality and productivity losses.

Findings from the tool estimate that the total global economic cost of undernutrition is more than US \$761 billion per year.<sup>2</sup> In Latin America and Caribbean alone, undernutrition costs \$71 billion per year in economic losses associated with stunting, anaemia in children, anaemia in adolescent girls and in women of reproductive age, low birthweight, and a lack of protection, promotion and support for breastfeeding.<sup>3</sup>

The impacts of poor nutrition are wide-ranging and serious. When a population is undernourished, they are more vulnerable to preventable infections and diseases, leading to increased spending on healthcare and treatment. Persistent malnutrition in at-risk populations, including infants, young children and pregnant women, can also be life-threatening. Malnutrition impacts school performance and educational attainment, in turn affecting workforce capabilities and performance. Nutrition is foundational for human capital and economic development.

### ECONOMIC COST OF INACTION IN LATIN AMERICA AND THE CARIBBEAN, US\$ BILLION PER YEAR



## CASE STUDY COUNTRIES: BRAZIL, ECUADOR AND MEXICO

The table on the following page presents the annual health and economic costs of stunting, anaemia, low birthweight, and not supporting, protecting and promoting breastfeeding in three Latin American and Caribbean countries. The costs are calculated based on current prevalence levels, and the WHA target prevalence levels for comparison of the potential health and economic gains. For anaemia in children, a 50% reduction in prevalence is assumed, similar to the WHA target for anaemia in women. The methods, data sources and estimates for other indicators can be found for over 140 countries around the world in the online Nutrition International Cost of Inaction and Cost of Not Breastfeeding tools.

#### **KEY FINDINGS**

Each year, in Latin America and the Caribbean, the current levels of stunting, low birthweight, anaemia and not protecting, promoting and supporting breastfeeding result in an estimated:

- 18,500 child deaths
- 13,700
   maternal deaths from cancers
   and type II diabetes

- 16 million IQ points lost
- US \$71 billion
   in economic costs (or 1.2% of the gross national income) due to cognitive and mortality losses

TABLE 1 – Annual estimates of costs of inaction in Brazil, Ecuador and Mexico

	BRAZIL		ECUADOR		MEXICO	
STUNTING						
	CURRENT	TARGET*	CURRENT	TARGET	CURRENT	TARGET
Prevalence	7.20%	4.10%	22.70%	13.80%	12.60%	8.00%
Number of cases	204,041	116,190	67,725	41,172	246,241	156,343
Number of deaths	2,983	1,683	765	465	3,102	2,002
Economic cost (US \$)	13.44B	7.64B ( <b>↓</b> 5.80B)	2.93B	1.83B ( <b>↓ 1.10B</b> )	11.66B	7.36B ( <b>√</b> 4.30B)
ANAEMIA IN W	OMEN AND G	IRLS				
	CURRENT	TARGET	CURRENT	TARGET	CURRENT	TARGET
Prevalence	16.10%	9.20%	17.20%	8.60%	15.30%	7.90%
Number of cases	9.27M	5.29M	823,469	411,735	5.25M	2.71M
Economic cost (US \$)	2.62B	1.50B ( <b>↓</b> 1.12B)	184.79M	92.39M ( <b>√ 92.39</b> )	989.32M	510.83M ( <b>√</b> 478.50M)
ANAEMIA IN CI	HILDREN**					
	CURRENT	TARGET	CURRENT	TARGET	CURRENT	TARGET
Prevalence	11.60%	7.95%	23.50%	12.50%	21.70%	11.95%
Number of cases	297,062	202,309	63,137	33,583	383,653	210,390
Economic cost (US \$)	2.37B	1.61B ( <b>√</b> 755.64M)	337.78M	179.67M ( <b>√</b> 158.11M)	2.26B	1.24B ( <b>↓</b> 1.02B)
LOW BIRTHWE	IGHT***					
/ /	CURRENT	TARGET	CURRENT	TARGET	CURRENT	TARGET
Prevalence	8.70%	5.90%	10.60%	7.90%	10.20%	5.60%
Number of cases	241,328	163,659	32,089	23,915	193,222	106,083
Number of deaths	3,181	2,181	323	241	2,382	1,282
Economic cost (US \$)	8.33B	5.63B ( <b>↓ 2.70B</b> )	723.67M	539.67M ( <b>√ 184M)</b>	4.88B	2.68B ( <b>↓ 2.20B</b> )
<b>EXCLUSIVE BRE</b>	ASTFEEDING					
	CURRENT	TARGET	CURRENT	TARGET	CURRENT	TARGET
Prevalence	38.60%	50.00%	39.60%	50.00%	27.10%	50.00%
Number of cases of diarrhoea	4.83M	4.70M	445,287	432,165	2.19M	2.03M
Number of deaths	8,672	8,394	622	598	5,504	5,041
Economic cost (US \$)	11.10B	9.10B ( <b>↓</b> 2.00B)	910.70M	760.00M ( <b>↓</b> 150.70M)	7.40B	5.20B ( <b>√</b> 2.20B)

#### NOTES:

<sup>\*</sup> Target prevalence is from WHA target tracking tool.

\*\* Anaemia in children uses same target as anaemia in women (50% reduction in prevalence).

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#### **CALL TO ACTION**

The cost of inaction on nutrition continues to be significant for people, communities and countries. Investing in preventing undernutrition can save lives and improve the health, human capital and economic development of individuals and countries.

- 1 FOR ADVOCATES: Use the online Nutrition International <u>Cost of Inaction</u><sup>4</sup> and <u>Cost of</u> <u>Not Breastfeeding</u><sup>5</sup> tools to:
  - Share the tools' results via social media #NutritionNow
  - Engage journalists to write articles with the country-level cost of inaction data
  - Include the tools' results in policy briefs, strategic plans, or investment cases to governments or donors
  - Coordinate and support collective advocacy of the WHO Anaemia Action Alliance, Global Breastfeeding Collective and Scaling Up Nutrition Movement in your country
- **2 FOR POLICY MAKERS IN LATIN AMERICA AND THE CARIBBEAN:** Regional, national and sub-national policy makers can use the data from the tool to justify further analyses and increase budget allocations towards nutrition interventions. While the cost of inaction on undernutrition is high, there are many proven interventions, policies and programs that have multisectoral benefits for the health and human capital of economies in Latin America and the Caribbean.
- 3 FOR GOVERNMENT AND PHILANTHROPIC DONORS: Greater nutrition investment is critically needed from governments and donors to prevent additional health, human capital and economic costs from undernutrition, and to meet WHA nutrition targets in Latin America and Caribbean. Investments in nutrition are cost-effective, smart and sustainable and support Latin America and Caribbean's economic growth and independence.

## ABOUT NUTRITION INTERNATIONAL TOOLS

The Nutrition International Cost of Inaction Tool was developed in 2023 by Nutrition International in partnership with Limestone Analytics with funding from the Government of Canada. The Cost of Not Breastfeeding tool was created in 2017 by Alive and Thrive with funding from the Bill & Melinda Gates Foundation and updated by Nutrition International and Alive & Thrive in partnership with Limestone Analytics in 2022 with funding from Government of Canada. Both tools present results for over 140 countries to see the potential benefits if action is taken now. All estimates included in this brief are as of September 2023. Visit both tools on Nutrition International's website to read about the methodology and data sources and learn more about Nutrition International.

#### REFERENCES

- Country-wise data is not available on anaemia rates in younger adolescent girls (10–14y)
- 2 Jain S, Ahsan S, Robb Z, Crowley B, Walters D. The cost of inaction: a global tool to inform nutrition policy and investment decisions on global nutrition targets. *Health Policy and Planning*, 2024. https://doi.org/10.1093/heapol/czae056
- 3 The total economic cost is lower than the sum of each individual cost. This estimate avoids double counting of costs associated with co-occurrence of stunting, anaemia and low birthweight.
- 4 Available at <a href="https://www.nutritionintl.org/learning-resource/cost-inaction-tool/">https://www.nutritionintl.org/learning-resource/cost-inaction-tool/</a>
- 5 Available at https://www.nutritionintl.org/learning-resource/the-costof-not-breastfeeding-tool/

