Front-of-Pack Warning Labels

A foundational and enabling policy for healthy food environments

Fabio S Gomes, PhD

Advisor on Nutrition and Physical Activity



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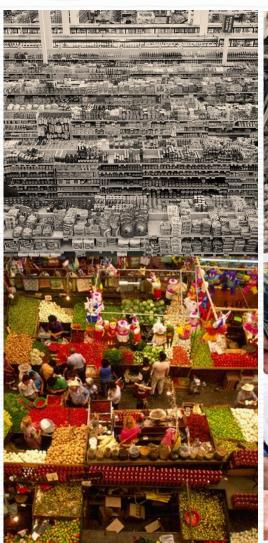




















CAUSES and CAUSERS

PRODUCTS PRACTICES POLICIES





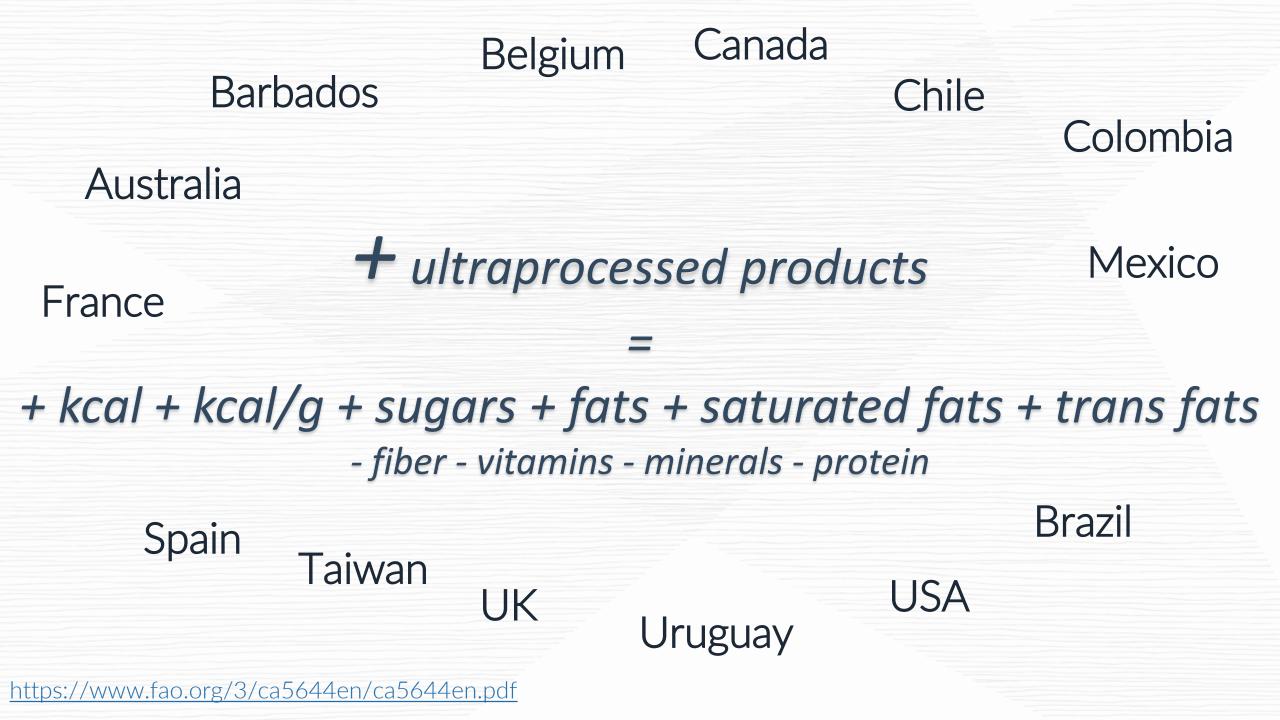












non-nutrient profile

easier to chew, crush and cut

faster intake

low satiety (late)

weak satiation (early)

weak caloric compensation

additives

Systematic reviews on ultra-processed products and health outcomes



International Journal of Food Sciences and Nutrition

ISSN: 0963-7486 (Print) 1465-3478 (Online) Journal homepage: https://www.tandfonline.com/Joi/iiif20

Food consumption by degree of processing and cardiometabolic risk: a systematic review

Talitha Silva Meneguelli, Jéssica Viana Hinkelmann, Helen Hermana Miranda Hermsdorff, M. Ángeles Zulet, J. Alfredo Martínez & Josefina Bressan

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Revista de Saúde Pública

Ultra-Processed Foods and Health Outcomes: A Narrative Review

Leonie Elizabeth 1, Priscila Machado 1,20, Marit Zinöcker 3, Phillip Baker 1,20 and Mark Lawrence 1,2,*(1)

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- lelizabe@deakin.edu.au (L.E.); p.machado@deakin.edu.au (P.M.); phil.baker@deakin.edu.au (P.B.) Institute for Physical Activity and Nutrition, Deakin University, Geelong 3217, Australia
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Received: 26 May 2020; Accepted: 15 June 2020; Published: 30 June 2020

Abstract: The nutrition literature and authoritative reports increasingly recognise the concept of

Food processing and cardiometabolic risk factors: a systematic review

Francine Silva dos Santos¹ (D), Mariane da Silva Dias¹ (D), Gicele Costa Mintem¹¹ (D), Isabel Oliveira de Oliveira (D), Denise Petrucci Gigante (D)

- Universidade Federal de Pelotas. Faculdade de Medicina. Programa de Pós-Graduação em Epidemiologia.
- Universidade Federal de Pelotas. Faculdade de Nutrição. Departamento de Nutrição. Pelotas, RS, Brasil

ABSTRACT

OBJECTIVE: To systematically review the evidence for the association between food

Chen et al. Nutrition Journal (2020) 19:86 https://doi.org/10.1186/s12937-020-00604-1

Nutrition Journal

Consumption of ultra-processed foods and health outcomes: a systematic review of epidemiological studies

Xiaojila Chen^{1,2†}, Zhang Zhang^{1,2†}, Huijie Yang^{1,2†}, Peishan Qiu^{1,2}, Haizhou Wang^{1,2}, Fan Wang^{1,2}, Qiu Zhao^{1,2*}, Jun Fang^{1,2*} and Jiayan Nie^{1,2*}

Background: Consumption of ultra-processed foods (UPFs) plays a potential role in the development of obesity

International Journal of Obesity https://doi.org/10.1038/s41366-020-00650-z

REVIEW ARTICLE

Epidemiology and Population Health

Ultra-processed food and the risk of overweight and obesity: a systematic review and meta-analysis of observational studies

Mohammadreza Askari 101 · Javad Heshmati2 · Hossein Shahinfar 101 · Nishant Tripathi 1013 · Elnaz

Received: 29 July 2020 Revised: 26 August 2020 Accepted: 3 September 2020

OBESITY/COMORBIDITIES/NUTRITION

DOI: 10.1111/obr.13146

studies

WILEY

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doi:10.1017/S0007114520002688

Consumption of ultra-processed foods and health status: a systematic review and meta-analysis

G. Pagliai^{1,2}, M. Dinu^{1,2*}, M. P. Madarena¹, M. Bonaccio³, L. Iacoviello^{3,4} and F. Sofi^{1,2}

¹Department of Experimental and Clinical Medicine, University of Florence, 50134 Florence, Italy ²Unit of Clinical Nutrition, Careggi University Hospital, 50134 Florence, Italy

³Department of Epidemiology and Prevention, IRCCS Neuromed, Pozzilli, 86077 Isernia, Italy

⁴Department of Medicine and Surgery, Research Center in Epidemiology and Preventive Medicine (EPIMED), University of Insubria, 21100 Varese, Italy

(Submitted 27 March 2020 - Final revision received 30 June 2020 - Accepted 9 July 2020)

Increasing evidence suggests that high consumption of ultra-processed foods (UPF) is associated with an increase in non-communicable diseases, overweight and obesity. The present study systematically reviewed all observational studies that investigated the association between UPI Obesity Research & Clinical Practice xxx (2020) xxx-xxx Contents lists available at ScienceDirect

Obesity Research & Clinical Practice

journal homepage: www.elsevier.com/locate/orcp

FLSEVIER Review

The effect of ultra-processed very low-energy diets on gut microbiota and metabolic outcomes in individuals with obesity: A systematic literature review

Melissa Lane a,*, Gina Howland a, Madeline West a, Meghan Hockey a, Wolfgang Marx a, Amy Loughmana, Martin O'Helyb,c, Felice Jackaa, Tetyana Rocksa

² Deakin University, iMPACT (the Institute for Mental and Physical Health and Clinical Translation), Food & Mood Centre, Geelong, Australia

b Deakin University, School of Medicine, Geelong 3220, Vic, Australia
Murdoch Children's Research Institute, Melbourne 3000, Australia

Received: 27 November 2019 / Revised: 1 July 2020 / Accepted: 5 August 2020 © The Author(s), under exclusive licence to Springer Nature Limited 2020

Background Numerous studies have reported the association of ultra-processed foods with excess body the nature and extent of this relation has not been clearly established. This systematic review was condu

Clara Gómez-Donoso^{2,3} | Adrienne O'Neil¹ | Felice Jacka^{1,6,7,8} Michael Berk^{1,9}

Ultraprocessed food and chronic noncommunicable diseases:

A systematic review and meta-analysis of 43 observational

Richard Page^{1,4,5} Wolfgang Marx¹ | Tetvana Rocks¹

Melissa M. Lane¹ | Jessica A. Davis¹ | Sally Beattie⁴

¹The Institute for Mental and Physical Health and Clinical Translation (IMPACT). Food and Mood Centre, School of Medicine, Barwon Health, Deakin University

²Department of Preventive Medicine and Public Health, School of Medicine, University of Navarra, Pamplona, Spain

³CIBER Physiopathology of Obesity and Nutrition (CIBEROBN), Carlos III Health Institute, Madrid, Spain

⁴The Barwon Centre of Orthopaedic Research and Education (B-CORE), Barwon Health and St John of God Hospital Geelong, Geelong, Victoria, Australia

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Opposing practices



The aggregate amount provided by our **(The Coca-Cola) Company** to bottlers, resellers and other customers of our Company's products, principally for participation in

promotional and marketing programs, was \$4.8

https://investors.cocacolacompany.com/filings-reports/annual-



International Code of Marketing of Breast-milk Substitutes



https://www.nestle.com/sites/default/files/2023-03/2022-annual-review-en.pdf

In 2022, we also announced plans to update our policy on the responsible marketing of breast milk substitutes, with a commitment to unilaterally stop the promotion of infant formula globally for babies aged 0 to 6 months. 000

Opposing policies



Obesity and other health-related concerns may reduce demand for some of our products.

Increasing public concern about obesity;

other health-related public concerns surrounding consumption of sweetened beverages;

potential new or increased **taxes** on **sweetened beverages** by government entities to reduce consumption or to raise revenue;

additional governmental regulations concerning the advertising, marketing, labeling, packaging or sale of our sweetened beverages; and

negative publicity resulting from actual or threatened legal actions against us or other companies in our industry relating to the marketing, labeling or sale of sweetened beverages may reduce demand for, or increase the cost of, our sweetened beverages, which

could adversely affect our profitability.

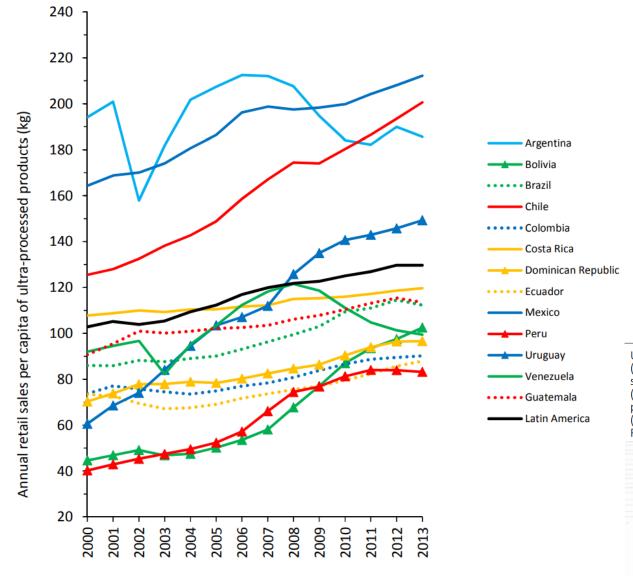
Principal risks and uncertainties

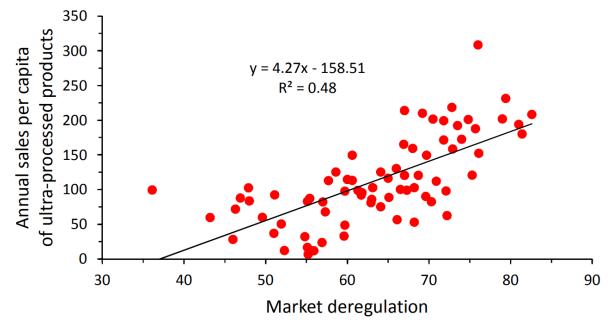
Principal risks and uncertainties				
Principal risk	Description			
Product quality and safety	Major event triggered by a serious food safety, product quality or other product-related non-compliance issue			
Consumer preferences	Failure to adequately anticipate evolving consumer preferences; innovate relevant, competitive products and brands; or execute at speed			
Regulation	Prolonged negative perceptions concerning health implications of processed food and beverage categories			
Customer and channel management	Customer concentration, channel dynamics accelerating pressure on distribution, pricing and trade			
Human rights	Failure to identify and/or prevent human rights violations in direct operations and extended supply chain (e.g., forced labor, child labor,			

https://www.nestle.com/sites/default/fil es/2023-03/2022-annual-review-en.pdf working hours, living wage, etc.)

Annual retail sales per capita of ultra-processed food and drink products in 13 Latin American countries, 2000–2013

Annual retail sales per capita of ultra-processed food and drink products as a function of market deregulation in 74 countries, 2013





Ultra-processed products here include carbonated soft drinks, sweet and savory snacks, breakfast cereals, confectionery (candy), ice cream, biscuits (cookies), fruit and vegetable juices, sports and energy drinks, ready-to-drink tea or coffee, spreads, sauces, and ready-meals. Quantity in liters is converted into kilograms. Sales data are from the Euromonitor Passport Database (2014) (38). The 74 countries included all those listed in Annex B except United Arab Emirates (because of the extremely large proportion of expatriates); Singapore and Hong Kong (because they are city-states); and Argentina, the Philippines, and Taiwan (because of incomplete data on social and economic factors). Market deregulation is represented by the Index of Economic Freedom published by the Heritage Foundation and the Wall Street Journal (41).



OPS, 2015

https://iris.paho.org/bitstream/handle/10665.2/

7699/9789275118641 eng.pdf

Pan American Organization Organization Organization PA - O

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OBJECTIVE

PUBLIC HEALTH

protect and improve



REGULATION

TAXATION

MARKETING

LABELING

SETTINGS











EXCESO

CALORÍAS











EXCESO EN GRASAS SATURADAS

EXCESO EN SODIO

EXCESO EN CALORÍAS

FOP WARNING LABELING

+Quick +Easy +Relevant

+Useful





+Change decision/purchase

BMJ Open Effects of front-of-package nutrition labelling systems on understanding and purchase intention in Jamaica: results from a multiarm randomised controlled trial

Vanessa White-Barrow, ¹ Fabio S Gomes ¹, ² Sheerin Eyre, ¹ Gaston Ares, ^{3,4} Audrey Morris, ⁵ Deonne Caines, ⁶ David Finlay ¹



coauthors, Carlos Felipe Urquizar Rojas and Carla Galvão Spinillo, and designed by Carlos Felipe Urquizar Rojas and Carla

Galvão Spinillo. FOPL, front-of-package labelling.

White-Barrow V, Gomes FS, Eyre S, et al. Effects of front-of-package nutrition labelling systems on understanding and purchase intention in Jamaica: results from a multiarm randomised controlled trial. BMJ Open 2023;13:e065620. doi:10.1136/bmjopen-2022-065620



Original research

content and intention to p	urchase products, in Jamaic	ca, compared with the co	ontrol condition." Values a	ire ORs (95% CIs)	
		Front-of-package lab	elling experimental grou	ps	
Outcomes	Products	TFL (n=301)	MGG (n=301)	OWL (n=303)	
Correct identification of the least harmful option	All categories of products	1.13 (0.85 to 1.51) ^a	1.18 (0.89 to 1.57) ^a	2.07 (1.54 to 2.78)†b	
	Breakfast cereals	1.16 (0.83 to 1.61) ^a	1.83 (1.30 to 2.60)†b	1.97 (1.39 to 2.82)†b	
	Crackers	1.02 (0.74 to 1.41) ^a	1.18 (0.85 to 1.63) ^a	1.75 (1.26 to 2.44)†b	
	Yoghurts	1.20 (0.86 to 1.68) ^a	0.69 (0.50 to 0.96) ^b	1.42 (1.01 to 2.00)†a	
	Flavoured milks	0.99 (0.71 to 1.38) ^a	1.11 (0.80 to 1.55) ^{a,b}	1.41 (1.00 to 1.98) ^b	6
Correct understanding	All categories of products	2.09 (1.57 to 2.79)†a	2.69 (2.01 to 3.62)†a	4.57 (3.41 to 6.15)†b	
about the nutritional	Breakfast cereals	1.91 (1.33 to 2.76)†a	2.49 (1.74 to 3.58)†a	4.14 (2.90 to 5.96)†b	(
content of products	Crackers	1.81 (1.27 to 2.58)†a	2.38 (1.68 to 3.38)†a	3.68 (2.60 to 5.25)†b	
	Yoghurts	2.01 (1.43 to 2.83)†a	2.15 (1.53 to 3.04)†a	3.41 (2.43 to 4.83)†b	ľ
	Flavoured milks	5.52 (3.44 to 9.15)†a	7.99 (5.02 to 13.20)† ^{a,b}	9.04 (5.69 to 14.91)†b	
Intention to purchase the	All categories of products	1.25 (0.93 to 1.67) ^a	1.58 (1.18 to 2.11)† ^{a,b}	2.03 (1.51 to 2.72)†b	(
least harmful option or	Breakfast cereals	1.14 (0.82 to 1.59) ^a	1.61 (1.15 to 2.26)†b	1.61 (1.15 to 2.26)†b	
none of the options	Crackers	1.44 (1.03 to 2.04)† ^{a,b}	1.28 (0.91 to 1.80) ^a	1.79 (1.27 to 2.52)†b	
	Yoghurts	0.99 (0.72 to 1.37)	1.18 (0.85 to 1.63)	1.33 (0.96 to 1.85)	
	Flavoured milks	1.06 (0.77 to 1.47) ^a	1.36 (0.98 to 1.88) ^{a,b}	1.62 (1.17 to 2.25)†b	ľ
Intention to purchase the	All categories of products	1.16 (0.81 to 1.66) ^a	1.50 (1.04 to 2.16)† ^{a,b}	1.80 (1.24 to 2.63)†b	
least harmful option	Breakfast cereals	1.18 (0.84 to 1.66)	1.65 (1.16 to 2.34)†	1.54 (1.09 to 2.19)†	
	Crackers	1.47 (1.02 to 2.11)†	1.16 (0.80 to 1.69)	1.56 (1.08 to 2.25)†	
	Yoghurts	0.99 (0.69 to 1.41)	1.19 (0.83 to 1.70)	1.26 (0.88 to 1.81)	\ A /I
	Flavoured milks	1.08 (0.72 to 1.62)	1.23 (0.82 to 1.87)	1.36 (0.90 to 2.05)	Wł fro
Intention to not purchase	All categories of products	1.07 (0.76 to 1.49) ^a	1.23 (0.88 to 1.73) ^a	1.77 (1.27 to 2.47)†b	un
any of the options	Breakfast cereals	0.94 (0.51 to 1.71) ^a	1.09 (0.61 to 1.96) ^{a,b}	1.84 (1.07 to 3.23)†b	res
	Crackers	1.18 (0.57 to 2.46) ^a	1.77 (0.92 to 3.54) ^{a,b}	2.78 (1.49 to 5.44)†b	BM 20
	Yoghurts	0.98 (0.62 to 1.56)	1.09 (0.70 to 1.72)	1.34 (0.86 to 2.09)	20
	Flavoured milks	1.02 (0.69 to 1.52) ^a	1.37 (0.94 to 2.00) ^{a,b}	1.75 (1.20 to 2.56)†b	



age, gender, education and reported noncommunicable disease and related risk factors.

White-Barrow V, Gomes FS, Eyre S, et al. Effects of ront-of-package nutrition labelling systems on nderstanding and purchase intention in Jamaica: esults from a multiarm randomised controlled trial.

MJ Open 2023;13:e065620. doi:10.1136/bmjopen-022-065620

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Outcomes	Products	TFL (n=301)	MGG (n=301)	OWL (n=303)	(
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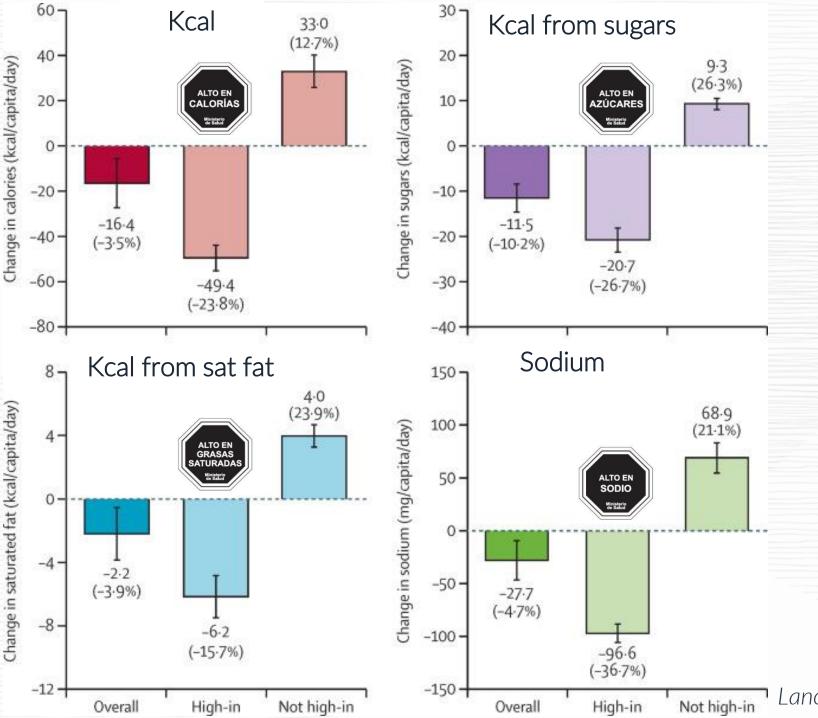
content and intention to p	urchase products, in Jamaio	ca, compared with the c	ontrol condition.* Values a	re ORs (95% CIs)	
		Front-of-package labelling experimental groups			
Outcomes	Products	TFL (n=301)	MGG (n=301)	OWL (n=303)	
Correct identification of the least harmful option	All categories of products	1.13 (0.85 to 1.51) ^a	1.18 (0.89 to 1.57) ^a	2.07 (1.54 to 2.78)†b	
	Breakfast cereals	1.16 (0.83 to 1.61) ^a	1.83 (1.30 to 2.60)†b	1.97 (1.39 to 2.82)†b	
	Crackers	1.02 (0.74 to 1.41) ^a	1.18 (0.85 to 1.63) ^a	1.75 (1.26 to 2.44)†b	
	Yoghurts	1.20 (0.86 to 1.68) ^a	0.69 (0.50 to 0.96) ^b	1.42 (1.01 to 2.00)† ^a	
	Flavoured milks	0.99 (0.71 to 1.38) ^a	1.11 (0.80 to 1.55) ^{a,b}	1.41 (1.00 to 1.98) ^b	6
Correct understanding	All categories of products	2.09 (1.57 to 2.79)†a	2.69 (2.01 to 3.62)†a	4.57 (3.41 to 6.15)†b	
about the nutritional	Breakfast cereals	1.91 (1.33 to 2.76)†a	2.49 (1.74 to 3.58)†a	4.14 (2.90 to 5.96)†b	(
content of products	Crackers	1.81 (1.27 to 2.58)†a	2.38 (1.68 to 3.38)†a	3.68 (2.60 to 5.25)†b	
	Yoghurts	2.01 (1.43 to 2.83)†a	2.15 (1.53 to 3.04)†a	3.41 (2.43 to 4.83)†b	r
	Flavoured milks	5.52 (3.44 to 9.15)†a	7.99 (5.02 to 13.20)† ^{a,b}	9.04 (5.69 to 14.91)†b	
Intention to purchase the	All categories of products	1.25 (0.93 to 1.67) ^a	1.58 (1.18 to 2.11)† ^{a,b}	2.03 (1.51 to 2.72)†b	(
least harmful option or	Breakfast cereals	1.14 (0.82 to 1.59) ^a	1.61 (1.15 to 2.26)†b	1.61 (1.15 to 2.26)†b	
none of the options	Crackers	1.44 (1.03 to 2.04)† ^{a,b}	1.28 (0.91 to 1.80) ^a	1.79 (1.27 to 2.52)†b	
	Yoghurts	0.99 (0.72 to 1.37)	1.18 (0.85 to 1.63)	1.33 (0.96 to 1.85)	v
	Flavoured milks	1.06 (0.77 to 1.47) ^a	1.36 (0.98 to 1.88) ^{a,b}	1.62 (1.17 to 2.25)†b	ľ
Intention to purchase the	All categories of products	1.16 (0.81 to 1.66) ^a	1.50 (1.04 to 2.16)† ^{a,b}	1.80 (1.24 to 2.63)†b	
least harmful option	Breakfast cereals	1.18 (0.84 to 1.66)	1.65 (1.16 to 2.34)†	1.54 (1.09 to 2.19)†	
	Crackers	1.47 (1.02 to 2.11)†	1.16 (0.80 to 1.69)	1.56 (1.08 to 2.25)†	
	Yoghurts	0.99 (0.69 to 1.41)	1.19 (0.83 to 1.70)	1.26 (0.88 to 1.81)	١٨/١
	Flavoured milks	1.08 (0.72 to 1.62)	1.23 (0.82 to 1.87)	1.36 (0.90 to 2.05)	Wł fro
Intention to not purchase	All categories of products	1.07 (0.76 to 1.49) ^a	1.23 (0.88 to 1.73) ^a	1.77 (1.27 to 2.47)†b	un
any of the options	Breakfast cereals	0.94 (0.51 to 1.71) ^a	1.09 (0.61 to 1.96) ^{a,b}	1.84 (1.07 to 3.23)†b	res
	Crackers	1.18 (0.57 to 2.46) ^a	1.77 (0.92 to 3.54) ^{a,b}	2.78 (1.49 to 5.44)†b	BM 20:
	Yoghurts	0.98 (0.62 to 1.56)	1.09 (0.70 to 1.72)	1.34 (0.86 to 2.09)	20.
	Flavoured milks	1.02 (0.69 to 1.52) ^a	1.37 (0.94 to 2.00) ^{a,b}	1.75 (1.20 to 2.56)†b	



age, gender, education and reported noncommunicable disease and related risk factors.

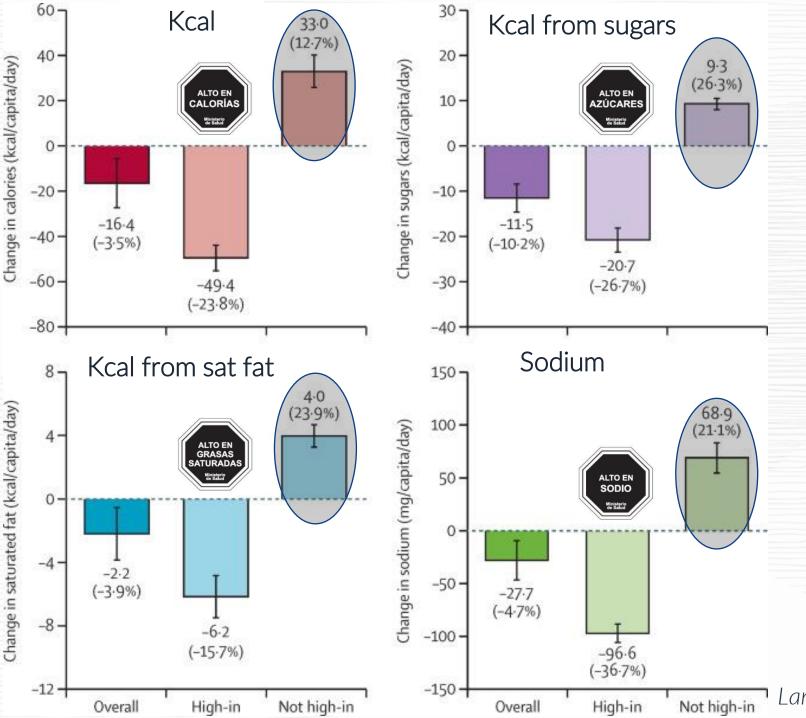
White-Barrow V, Gomes FS, Eyre S, et al. Effects of ont-of-package nutrition labelling systems on inderstanding and purchase intention in Jamaica: esults from a multiarm randomised controlled trial.

MJ Open 2023;13:e065620. doi:10.1136/bmjopen-022-065620



Change in kcal, kcal from sugars and from sat fats and in mg of sodium purchased (Chile – Phase 1) 2015-2017

Lancet Planet Health 2021;5(8):e526-e533

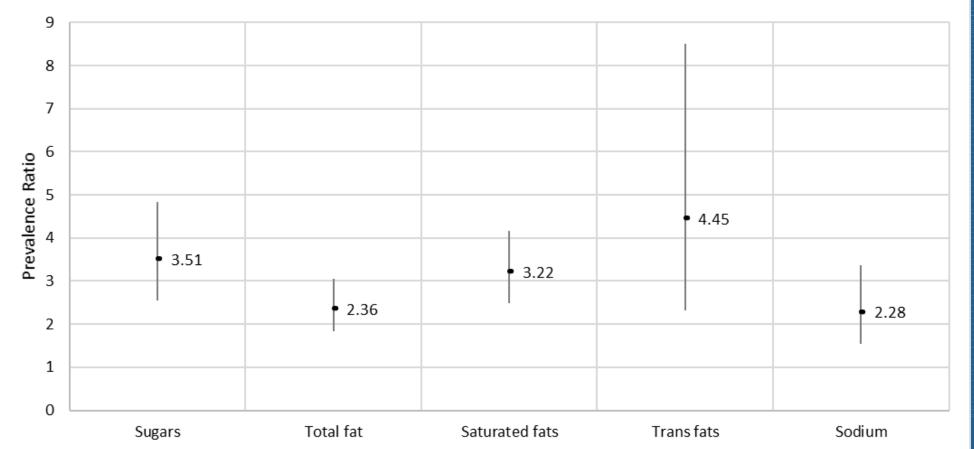


Change in kcal, kcal from sugars and from sat fats and in mg of sodium purchased (Chile – Phase 1) 2015-2017

Lancet Planet Health 2021;5(8):e526-e533

Analysis of +125k people in 9 countries (Argentina, Canada, Barbados, Brazil, USA, Chile, Colombia, Mexico, Uruguay)

Prevalence Ratio of not meeting WHO intake goals (diets with vs. without products in excess of critical nutrients according to PAHO Nutrient Profile Model)







Proportion of individuals exceeding WHO intake goals

3.5 times higher (SUGARS)

3 times higher (SAT FAT)

4.5 times higher (TRANS FATS)

2 times higher (TOTAL FATS and SODIUM)

DOI: 10.3390/nu14030528

DOI: 10.1007/s00394-021-02740-8





Milk











REGULATION

TAXATION

MARKETING

LABELING

SETTINGS



Policy Stages

Discussion

Proposal

Adoption

Implementation

Monitoring

Enforcement







+Evidence, questions, answers, information

https://www.paho.org/nutrition

