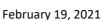
Detailed technical report of data used in the development of the updated targets

Updated PAHO Regional Sodium Reduction Targets (2021–2025)



Submitted by the WHO Collaborating Centre on Nutrition
Policy for Chronic Disease Prevention and the Department of
Nutritional Sciences at the University of Toronto, Ontario Tech
University, and the Costa Rican Institute of Research and
Teaching in Nutrition and Health (INCIENSA)











METHODOLOGY:

Part 1: Data to preferentially consider is from BASELINE, which is 2015.

14 country study (Arcand et al. Nutrients 2019)

Countries included:

Argentina

Brazil

Chile

Costa Rica

Cuba

Ecuador

Guatemala

Jamaica

Mexico

Panama

Paraguay

Peru

Trinidad and Tobago

Barbados

ADDITIONAL DATA

2013 Canadian Data from FLIP (Arcand et al. APNM, 2016) 2013 US Data (Ahuja et al. Prev Med Reports, 2015)

Other country data from the region, e.g. Colombia

mg/kcal data, retrieved from the Food Label Information Program (FLIP) database, University of Toronto, Canada.

Part 2: Data to Compare Calculated Estimates and Inform Feasibility

UK Targets

FDA Proposed Targets @ 10 years (the most stringent);

% products meeting targets for different food categories

Member state national targets - Min. Median, Max

FOP targets

WHO Global benchmarks

Categories and Subcategories are not exactly matched due to differences in the categorization method in different targets

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/604338/Salt_reduction_targets_for_2017.pdf

https://www.fda.gov/media/98264/download

See Appendix 3a

See Appendix 3b

Approach

- 1. All the category data as described above were consolidated into the respective category tab.
- 2. Using the mg/100g and mg/kcal sodium monitoring data, for each food category, the mean of the Means, Minimums, 25th percentiles, Medians (50th percentiles), 75th percentiles, and Maximums were calculated

Canadian data is a combination of FLIP 2013 and FLIP 2017

- Each country's data was weighted equally
- When appropriate, a weighted mean was calculated for an individual country, which was then given an overall weight of 1 within that food category, e.g., to calculate the Canadian data for canned vegetables, the weighted mean of canned beans, canned tomatoes, etc., was calculated, then that weighted mean was given an overall weight of 1 when combined with other country data, which also were given a weight of 1.
- 3. The monitoring data (mean of the 25th percentiles, medians, and 75th percentiles) were entered into the summary table for comparisons (with national targets, FOP thresholds, etc.) and feasibility estimates.
- 4. To set sodium targets for new and revised food subcategories based on mg/100 g, a 15% and 30% reduction was set for 2022 and 2025, respectively, from the measured levels of sodium at the 50th percentile from the baseline data in Part 1. If the calculated value for 2025 (30% reduction) was below the 25th percentile, the 25th percentile was used as the 2025 Target. All calculated targets were assessed for feasibility, and adjusted accordingly, by comparing the calculated values to national targets in the region, to the United Kingdom targets, and to the 25th percentile which gave an indication of the overall distribution of sodium in a food subcategory. The feasibility assessment also included the known proportion of foods meeting the 2015 PAHO Sodium Targets.
- 5. The TAG Target-setting Subgroup recommended setting a new additional and complementary set of targets based on the sodium content per calorie (mg/100 kcal). This approach aligns with the PAHO Nutrient Profile Model, which has a threshold of < 1.0 mg sodium/kcal. To set these targets, data on the distribution of sodium mg/kcal were available and used from five countries: Argentina, Canada, Costa Rica, Paraguay, and Peru.
- 6. For foods, where the calculated 2025 sodium target exceeded >3.0 mg/kcal, these foods were identified and highlighted in red. These food subcategories should be consumed less frequently or sodium-reduced versions of these products be considered, as these foods were considered to have attributes or processing implications that would make it very difficult to reformulate to sufficiently lower levels of sodium.
- 7. There were three primary criteria used in considering the expansion of food categories and subcategories: 1) A food category is documented as a significant source of dietary sodium in several of the countries within the region, or 2) Stakeholders requested the inclusion of food category of national relevance to dietary sodium intakes, based on stakeholder consultation, or 3) More than two countries had national-level targets for a given food category. Additionally, some existing food categories were split into multiple subcategories to increase specificity, where sufficient data was available to support the development of sodium targets for more refined sodium subcategories.

- For new subcategories for consideration, the overall data is an amalgamation of the new subcategories For consideration data only, not all subcategories typically found within that food category, e.g. fish and seafood data overall includes only new subcategory data, and not data from other fish and seafood categories such as imitation seafood or fish/seafood mousse. A49

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<u>Food Categories for the Updated PAHO Regional Sodium Reduction Targets:</u>

- 1. Bread, bread products, and crisp breads
 - 1a. Pantry and hearth breads, rolls, and buns
 - 1b. Tortillas (wheat), wraps, naan, and roti
 - 1c. Bread with additions
 - 1d. Other bread products
- 2. Cakes, biscuits, pastries, and sweet breads
 - 2a. Savory biscuits and crackers
 - 2b. Cookies and sweet biscuits
 - 2c. Pastries, squares, and quick/sweet breads
 - 2d. Cakes
- 3. Corn derivatives
 - 3a. Tortillas (corn)
 - 3b. Biscuits (bizcochos)
 - 3c. Tostadas
 - 3d. Arepas
- 4. Breakfast cereal
 - 4a. Ready to eat and hot instant breakfast cereal
- 5. Savory snacks
 - 5a. Nuts, seeds, and kernels, seasoned and candied
 - 5b. Chips, popcorn, and/or extruded snacks
 - 5c. Pretzels and snack mixes
 - 5d. Other savory snacks
- 6. Cheese
 - 6a. Fresh cheese (fresh mozzarella and others)
 - 6b. Soft cheese (unripened goat cheese and cream cheese)
 - 6c. Semi-hard cheese (mozzarella, cheddar and others)
 - 6d. Hard cheese, grated and ungrated
 - 6e. Processed cheese
- 7. Processed vegetables, beans, and legumes
 - 7a. Tomato paste with additions
 - 7b. Canned vegetables
 - 7c. Canned beans, chickpeas, and lentils
 - 7d. Baked and refried beans (mashed)

- 7e. Frozen potatoes and similar products
- 7f. Dry mashed or scalloped potatoes (as consumed)
- 7g. Pickled vegetables
- 7h. Sundried tomatoes
- 7i. Olives
- 7j. Vegetable juice
- 8. Processed meat and poultry
 - 8a. Packaged deli meats fully cooked
 - 8b. Packaged dry-cured deli meats dry cured, fermented, no thermal process
 - 8c. Sausages uncooked
 - 8d. Sausages cooked
 - 8e. Uncooked bacon belly
 - 8f. Burgers, meatballs, meatloaf, and breaded meat and poultry
 - 8g. Ham, canned meat and poultry, and uncooked, pickled, cured, and smoked meats that are not deli meats
 - 8h. Patés and meat spreads
- 9. Processed fish and seafood
 - 9a. Canned fish
 - 9b. Frozen plain fish and seafood with added sodium phosphate
 - 9c. Fish and seafood cakes, fingers or burgers, seasoned, and breaded or battered or with sauces
 - 9d. Smoked, salted, pickled, and kippered fish
- 10. Soy products and meat alternatives
 - 10a. Seasoned tofu and tempeh
 - 10b. Meat analogues and other meat alternatives
- 11. Soups
 - 11a. Wet and dry soups (as consumed)
 - 11b. Noodles in broth (as consumed)
- 12. Ready-made foods, convenience foods, and mixed dishes
 - 12a. Canned chili
 - 12b. Canned stew and meatballs

Pasta, noodles, and rice or grains with sauce or seasonings

12c. (as consumed)

Pasta,

noodles, and

rice or grains

with sauce or

seasonings

- 12d. (as sold)
- 12e. Stuffing mixes (as consumed)
- 12f. Pizza and pizza snacks
- 12g. Sandwiches
- 12h. Refrigerated or frozen appetizers, sides and entrées
- 13. Fresh or dried plain pasta and noodles
 - 13a. Plain pasta and noodles (as consumed or dry, uncooked)
- 14. Granola and energy bars, and nut butters/spreads
 - 14a. Granola, cereal, and energy bars
 - 14b. Nut butters and nut spreads
- 15. Fats and oils
 - 15a. Salted butter, margarine, and butter blends
 - 15b. Mayonnaise
 - 15c. Salad dressing and vinaigrette
- 16. Sauces, dips, gravy, and condiments
 - 16a. Bouillon cubes and powders (as sold)
 - 16b. Pasta sauce
 - 16c. Pesto
 - 16d. Tomato sauce
 - 16e. Ketchup, and similar tomato-type condiments (as consumed)
 - 16f. Mustard
 - 16g. Spicy sauce

- 16h. Gravy, cooking sauces, dips, and salsa (as consumed)
- 16i. Sweet oriental sauces
- 16j. Soya and other salty oriental sauces
- 16k. Marinades (as consumed)
- 16l. Dry seasoning mixes for rice and side dishes
- 16m. Dry seasoning mixes for meat and fish

Table 1.1 Bread, bread products, and crisp breads - Updated food subcategories and sodium reduction targets

Current Regional Targets	Mean Sodium Content of Foods in the Americas (mg/100 g) ^b	Sodium Targets (mg/100 g	Mean Sodium Content of Foods in the Americas (mg/kcal) ^b	Sodium Targets (mg/kcal)	WHO Global Benchmark		National Sc	odium Reduction Targets (mg/100 g) ^c	FOPL Thresholds (mg/100 g) ^e
2015 PAHO				į	mg/100 g	US-FDA	United Kingdom	Member State Targets ^d	
Targets	25th Median 75th Percentile Percentile	2022 2025	25th Percentile Median 75th Percentile	2022 2025		Proposed 10- year Targets (2026)[2]	UK 2017 2024 [3] 2017 [3] Targets met [4]	Min Median Max Countries with Targets	Min Median Max
La Pantry and hearth breads, rolls, and buns	(Data from 2013, 2017, 2018)		(Data from 2017, 2018)						
Regional Target	224 401 649	341 281	1.0 1.5 1.9	1.2 1.0	330	Maximum 435	405 450 95% ^f	286 500 600 Argentina, Brazil, Canada, Chile, Colombia, C	osta 300 400 500
Lower Target	224 401 649	341 281	1.0 1.5 1.9	1.2 1.0		Target 300	340 360 Yes ⁹	330 360 470 Rica, Mexico, Paraguay, USA	
Updated Targets		340 280		1.2 1.0	1 1				
lb Tortillas (wheat), wraps, naan, and roti	(Data from 2013, 2017)		(Data from 2017)						
Regional Target -	588 680 750	578 476	1.7 1.8 2.0	1.5 1.3	320	Maximum 700	405 450 95% ^f	540 545 550 Canada, USA	300 400 500
Lower Target	300 000 730	370 470	1.0	15 15] [Target 410	340 360 Yes ^g	760 760 760	
Updated Targets		550 450		1.8 1.7	1				
Lc Bread with additions	(Data from 2017)		(Data from 2017, 2018)						
Regional Target -	331 497 646	422 348	1.1 1.7 2.1	1.5 1.2	N/A	Maximum 600	430 450 93% ^f	- 550 - Costa Rica	300 400 500
Lower Target	331 457 545	411 540	1.7	1.5] [Target 420	360 400 -		
Updated Targets		420 350		1.5 1.2					
ld Other bread products ^h	(Data from 2013, 2015)		(Data from 2017, 2018)						
Regional Target -	350 456 553	388 319	0.8 1.6 1.9	1.3 1.1	N/A	Maximum 463	410 438 90% ^f	286 503 860 (For bread, overall) Argentina, Brazil, Cana	
Lower Target	330 436 553	300 319	0.0 1.0 1.9	1.5		Target 313	341 375 -	250 470 550 Chile, Colombia, Costa Rica, Mexico, Parage	ay,
Updated Targets		400 350		1.3 1.1	1				

^{*}Proportion of products in 14-country study [1] meeting PAHO Regional sodium reduction targets," Mean sodium content calculated from available national sodium monitoring data [Tables 1.2 to 1.6]: "Calculated as the average of relevant subcategories," Data extracted from latest approved national sodium targets in Appendix 3 and may illustrate distinct subcategory targets," Data extracted from final (proposed, accepted or implemented) Front-of-package label "high in" or "excess" sodium thresholds for prepackaged floods in Appendix 3 or Proportion of products at or below maximum, "Is proportion of products at or below maximum within 5% of average sodium target ("target")," Data for other bread products is a composite of data for bread (overall) (see Table 1.2).

Table 1.2 Summary of existing bread products (overall) sodium reduction targets and front-of-package label (FOPL) thresholds

	Current Regi	onal Targets			dium Content	of Foods in the					Nationa	l Sodium Redu	ıction Targets (ng/100 g) ^c			FOPL Th	resholds (mg	/100 g)°
I				mg/100 g			mg/kcal												
	2015 PAHO									US - FDA		United Kingdon	n		Member State Targe	ets ^d			
	Targets (mg/100 g)	2015 Targets met [1]°	25th Percentile	Median	75th Percentile	25th Percentile	Median	75th Percentile		Proposed 10- year Targets	UK 2017 2024 [3] 2017 [3] Targets Met		Min	Median	Max	Min	Median	Max	
	1 0									(2026)[2]			[4]						
Bread products (overall)			(1	Data from 2013, 201	5)		(Data from 2017, 20	18)											
Regional Target	600	83%	350	456	553	0.8	1.6	1.9	Maximum	463	410	438	95% ^f	286	512	860	300	400	500
Lower Target	400	34%	230	.50	-33	2.0	2.0		Target	313	341	375	Yes ^g	250	470	550			

^{**}Proportion of products in 4-country study (1) meeting PAND Regional Sodium Reduction Targets, "Near sodium content calculated from available national sodium monitoring data (Tables 1.3 and 1.5); "Calculated as the average of relevant subclategions," as best extracted from final [proposed, accepted or implemented] Front-of-Package Tayget in or "excess" sodium thresholds for prepackaged foods in Appendix 3b; "Proportion of products at or below maximum," is proportion of products in 2018 at or below maximum within 5% of average column traces.

Table 1.3 Sodium content for bread (overall) – mg/100 g

	Year	n	Average Sodium	Average Sodium			Sodium Percen	tiles (mg/100g)	
			(mg/serving	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Argentina	2015	123	208 ± 146	452 ± 255	0	81	279	480	609	1200
Brazil	2015	101	198 ± 51	417 ± 128	168	270	326	414	484	847
Chile	2015	106	227 ± 89	428 ± 140	7	272	365	413	491	984
Costa Rica	2015	83	232 ± 251	435 ± 314	0	0	215	473	591	1240
Cuba	2015	24	312 ± 137	542 ± 76	381	473	479	528	601	696
Ecuador	2015	106	192 ± 136	421 ± 200	0	123	329	427	520	1023
Guatemala	2015	68	201 ± 159	519 ± 702	0	38	281	457	540	4444
Jamaica	2015	72	257 ± 160	465 ± 137	0	298	415	481	516	969
Mexico	2015	112	167 ± 122	603 ± 448	0	317	376	475	728	4000
Panama	2015	137	178 ± 98	531 ± 221	10	320	440	500	610	1270
Paraguay	2015	76	165 ± 78	398 ± 199	0	86	299	439	536	913
Peru	2015	68	286 ± 281	503 ± 249	1	222	404	486	590	1300
Trinidad and Tobago	2015	95	226 ± 138	421 ± 171	0	202	350	450	510	1000
Barbados	2015	100	211 ± 106	403 ± 134	0	227	343	410	461	740
Canada [5] ^a	2013	445	242 ± 100	418 ± 129	0	267	351	413	507	782
United States [6] ^b	2013	80	253 ± 4.2°	490 ± 10°	11	-	-	-	-	818
MEAN			222	465	36	213	350	456	553	1389

Table 1.4 Sodium content for proposed bread, bread products, and crisp breads subcategories – mg/100 g

	, , , ,		Average	Average			Sodium Percen	+il / /100-	,	
	Year	n	Sodium	Sodium			Journal Fercen	itiles (ilig/100g	,	
			(mg/serving	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Pantry and hearth breads,	rolls, and buns									
Costa Rica [8] ^a	2018	33	-	291 ± 242	0	-	-	291	-	936
United States (SWA)[11] ^b	2017	21	-	482	401	-	-	-	-	554
Argentina [13] ^c	2017	23	-	440	15	-	67	500	783	783
Canada [5] ^d	2013	248	248	436	59	304	380	442	514	660
Brazil [9] ^e	2017	11	-	374 ± 59	270	-	-	372	-	512
MEAN			248	405	149	304	224	401	649	689
Tortillas (wheat), wraps, n	aan, and roti									
Canada [5]	2013	63	378 ± 132	647 ± 138	246	441	588	680	750	881
United States (SWA)[11]	2017	16	-	712 ± 105	531	-	-	-	-	873
MEAN			378 ± 132	680	389	441	588	680	750	877
Bread with additions										
Canada [5]	2013	36	288 ± 98	530 ± 141	18	360	464	553	604	782
Costa Rica	2018	6	130 ± 121	294 ± 258	0	-	0	403	480	480
Paraguay	2018	3	125 ± 69	639 ± 186	528	-	528	534	854	854
MEAN			181	488	182	360	331	497	646	705

Data presented as mean ± standard deviation. Sales weighted average (SWA). "Wholemeal bread," Data was calculated as the weighted average of wheat bread, White bread and hamburger burns subcitategines," Toast, "Data was calculated as the weighted average of panty bread, hearth bread, and panty rolls and burns subcitategines," toast, "Data was calculated as the weighted average of panty bread, hearth bread, and panty rolls and burns subcitategines," toast, "Data was calculated as the weighted average of panty bread, hearth bread, and panty rolls and burns subcitategines," to a part of the part of the

Table 1.5 Sodium content for bread - mg/kcal

	Year	n	Average Sodium		Sodiu	m Percentiles	(mg/kcal)		Proportion below PAHO Nutrient Profile Model
			(mg/kcal)	Min	25 th	50 th	75 th	Max	threshold
Argentina	2018	110	1.8 ± 0.5	0.0	1.6	1.8	1.9	3.9	6.4%
Costa Rica	2018	100	1.3 ± 0.8	0.0	0.6	1.5	1.9	2.9	30%
Paraguay	2018	75	1.4 ± 0.8	0.0	0.3	1.6	2.0	2.8	32%
Peru	2018	27	1.1 ± 0.7	0.0	0.4	1.3	1.6	2.0	0%
Canada	2017	651	1.7 ± 0.5	0.0	1.3	1.6	2.0	3.8	7.1%
MEAN			1.5	0.0	0.8	1.6	1.9	3.1	N/A

All data acquired from the Food Label Information Program (FLIP) database for packaged food and beerage items for the corresponding country; Data presented as mean ± standard deviation.
Products evaluated against the 2016 PAHO Nutrient Profile Model threshold for excess sodium (1 mg/kcal) included only products classified as processed or ultra-processed.

Table 1.6 Sodium content for proposed bread, bread products, and crisp breads subcategories – mg/kcal

	Year	n	Average Sodium		Sodiur	n Percentiles	(mg/kcal)	
			(mg/kcal)	Min	25 th	50 th	75 th	Max
Pantry and hearth breads,	rolls, and buns							•
Argentina	2018	110	1.8	0.2	1.5	1.8	1.9	3.8
Costa Rica	2018	100	1.3	0.0	0.8	1.2	1.9	2.9
Paraguay	2018	74	1.3	0.0	0.6	1.6	2.0	2.4
Peru	2018	24	1.0	0.0	0.8	1.1	1.6	1.9
Canada	2017	456	1.7	0.3	1.4	1.7	2.0	3.5
MEAN			1.4	0.1	1.0	1.5	1.9	2.9
Tortillas (wheat), wraps, n	aan, and roti							
Canada ^b	2017	62	1.7 ± 0.6	0.0	1.7	1.8	2.0	3.2
MEAN			1.7 ± 0.6	0.0	1.7	1.8	2.0	3.2
Bread with additions								
Canada	2017	129	1.9 ± 0.5	0.0	1.5	1.9	2.2	3.8
Costa Rica	2018	3	1.1 ± 1.0	0.0	0	1.5	1.9	1.9
Paraguay	2018	3	1.9 ± 0.2	1.7	1.7	1.8	2.2	2.2
MEAN			1.6	0.6	1.1	1.7	2.1	2.6

All data acquired from the Food label information Program [ILIP] database for packaged food and beverage items for the corresponding country. Data presented as mean 1 standard deviation. *Data for Argentina, Costa Rica, Paraguay, and Peru calculated as the weighted average of brown bread and white bread subcategories, and Canadian data was calculated as the weighted average of parity bread, parity rolls and burns, and hearth bread subcategories. *Also includes tacts shell.

Table 2.1 Cakes, biscuits, pastries, sweet breads – Updated food subcategories and sodium reduction targets

		nt Regional argets		m Content ericas (mg/1	of foods in the .00 g) ^b	Sodium Tar	gets (mg/100 g)		m Content of ericas (mg/k	f Foods in the cal) ^b	Sodium Targ	gets (mg/kcal)	wно				Natio	onal Sodium	Reduction 1	Fargets (mg/	'100 g)°		FOPL Thre	esholds (mg	100 g)
_	2015 PAH	0											mg/100 g		US-FDA	U	nited Kingdom	1		M	lember State 1	Targets ^d			
	Targets (mg/100 p	2015 Target	25th Percentile	Median	75th Percenti	e 2022	2025	25th Percentile	Median	75th Percentile	2022	2025		-	Proposed 10- year Targets (2026)[2]	2024 [3]	2017 [3]	UK 2017 Targets met [4]	Min	Median	Max	Countries with Targets	Min	Median	Max
a Savoury biscuits and crack	kers			(Data from 201)	ກ				Data from 2017, 20:	18)															
Regional Target	1340	97%	580	716	860	608	501	13	1.7	2.0	1.4	1.2	600	Maximum	760	700	700	66% ¹	635	890	1340	Argentina, Brazil, Canada,	300	400	500
Lower Target	700	59%	300	710	000	000	501	1.3	2.7	2.0	2.7	1.1		Target	500	520	520	N/A	600	620	640	Colombia, Costa Rica			
Updated Targets						640	580				1.5	1.3													
b Cookies and sweet biscuit	its		(Data from 2013, 2	017)			0	Data from 2017, 20:	18)															
Regional Target	485	90%	185	265	360	225	185	0.4	0.6	0.8	0.5	0.4	265	Maximum	330	340	380	93% ^f	265	405	485	Argentina, Brazil, Canada, Costa	300	400	500
Lower Target	265	48%						***					İ	Target	220	220	220	No ^g	240	250	260	Rica, USA			
Updated Targets						225	200				0.5	0.4													
c Pastries, squares, and qui	ick/sweet	breads	(Data from 2013, 2	018)				(Data from 2017)																
Regional Target	-	-	215	308	384	262	215	0.6	0.8	1.1	0.7	0.6	475	Maximum	302	276	290	85% ^f	400	488	790	Colombia, Costa Rica, Canada,	300	400	500
Lower Target	-		213	300	304	101	-113	0.0	0.0	2.2	0.7	0.0	İ	Target	208	221	245	N/A	220	250	530	USA			
Updated Targets						260	215				0.7	0.6													
d Cakes (as consumed)			(Data from 2013, 2	015)				Data from 2017, 20:	18)															
Regional Target	400	64%	235	368	496	313	258	0.6	0.9	1.2	0.7	0.6	205	Maximum	270 ^h	265	280	94%	204	332	512	Brazil, Canada, Costa Rica, USA,	300	400	500
Lower Target	205	25%		300	430	515	150	5.0	0.5	2.2	3.7	3.0	l i	Target	180 ^h	160	170	N/A	230	240	250	USA			
Updated Targets						300	240				0.7	0.6	l l												

*Proportion of products in 14-country study [1] meeting PAND Regional Sodium Reduction Targets," Means sodium content calculated from available national sodium monitoring data (Tables 22 to 2.6). Calculated as the average of relevant subcategories, "Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets," Data extracted from final (proposed, accepted, or implemented] Front-of-package "high in" or "excess" sodium thresholds for preparkaged foods in Appendix 3b, 'Average proportion of products at or below maximum, "is proportion of products in 2018 at or below maximum within 5% of average sodium target ("target"); "Excludes cheesecake.

Table 2.2 Sodium content for savory biscuits and crackers - mg/100 g

	Year	n	Average Sodium	Average Sodium			Sodium Percen	tiles (mg/100g)	
			(mg/serving	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Argentina [7]	2018	25	-	852 ± 304	0	-	643	859	1124	1237
Costa Rica [7]	2018	84	-	710 ± 227	5	-	563	719	864	1433
Paraguay [7]	2018	24	-	627 ± 361	0	-	520	600	664	2000
Peru [7]	2018	2	-	700 ± 141	600	-	650	700	750	800
Canada (5) ^a	2013	301	155 ± 80	739 ± 316	0	375	525	700	900	1857
United States [6] ^b	2013	24	128	834	638	-	-	-	-	1110
MEAN			142	744	207	375	580	716	860	1406

Data presented as mean ± standard deviation. *Crackers; *Data was calculated as the weighted average of crackers, Ritz-type, and crackers, saltine subcategories.

Table 2.3 Sodium content for cookies and sweet biscuits - mg/100 g

	Year	n	Average Sodium	Average Sodium			Sodium Percen	tiles (mg/100g)	
			(mg/serving	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Costa Rica [8] ^a	2018	161	-	269 ± 155	0	-	-	267	-	1250
Brazil (9) ^b	2017	237		249	46	-	-	255	-	470
Costa Rica [8] ^c	2018	112	-	277 ± 336	9	-	-	250	-	3419
Canada (5) ^d	2013	398	84 ± 47	277 ± 128	0.4	100	185	286	360	667
MEAN			84 ± 47	268	14	100	185	265	360	1452

Data presented as mean ± standard deviation. ^a Dry sweet cookies; ^b Data was calculated as the weighted average of sweet biscuits and filled sweet cookies subcategories; ^c Filled sweet cookies; ^d Cookies

Table 2.4 Sodium content for pastries, squares, and quick/sweet breads – mg/100 g

	Year	n	Average Sodium	Average Sodium	Sodium Percentiles (mg/100g)						
			(mg/serving	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max	
Pastries and quick/sweet bre	stries and quick/sweet bread										
Costa Rica [8]	2018	3	-	166 ± 233	0	-	-	66		432	
Canada (5) ^a	2013	311	221	310	32	161	215	310	384	939	
OVERALL WEIGHTED MEAN ^b			221	309	32	161	215	308	384	934	

Data presented as mean ± standard deviation. Sales weighted average (SWA). ¹ Data calculated as the weighted average of baked desserts, tea biscuits and scones, and toaster pastry subcategories; Overall mean calculated as the weighted mean due to the large discreptancy in product numbers between countries.

Table 2.5 Sodium content for cakes (as consumed) – mg/100 g

	Year	n	Average Sodium	Average Sodium			Sodium Percen	tiles (mg/100g)	
			(mg/serving	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Argentina	2015	127	146 ± 91	323 ± 204	3	81	214	260	435	820
Brazil	2015	154	133 ± 53	324 ± 153	55	144	200	315	443	860
Chile	2015	157	149 ± 110	231 ± 180	21	73	113	183	313	1460
Costa Rica	2015	117	180 ± 114	385 ± 244	22	132	195	297	572	971
Cuba	2015	8	65 ± 31	225 ± 84	75	132	198	214	303	320
Ecuador	2015	135	192 ± 230	331 ± 333	0	50	148	258	430	2743
Guatemala	2015	96	212 ± 115	470 ± 273	22	165	253	402	701	1483
Jamaica	2015	75	302 ± 93	540 ± 224	125	267	330	595	721	947
Mexico	2015	121	171 ± 132	369 ± 232	0	143	238	324	438	1371
Panama	2015	129	222 ± 121	405 ± 235	0	124	270	380	530	1130
Paraguay	2015	35	198 ± 92	472 ± 176	120	200	368	496	577	765
Peru	2015	33	172 ± 134	425 ± 301	0	104	200	677	104	1465
Trinidad and Tobago	2015	127	240 ± 102	433 ± 255	80	190	260	330	660	1580
Barbados	2015	129	235 ± 96	505 ± 258	40	200	300	420	720	1250
MEAN			187	388	40	143	235	368	496	1226

All data was from Arcand J et al. Nutrients (2019) and represents 2015 data, unless otherwise indicated; Data presented as mean ± standard deviation

Table 2.6 Sodium content for proposed cakes, biscuits, pastries, and sweet breads subcategories – mg/kcal

	Year	n	Average Sodium		Sodiu	n Percentiles	(mg/kcal)		Proportion below PAHO Nutrient Profile Model
			(mg/kcal)	Min	25 th	50 th	75 th	Max	threshold a
Savory biscuits and crackers	•								
Argentina	2018	25	1.9 ± 0.7	0.0	1.5	2.0	2.4	2.9	4%
Costa Rica	2018	84	2.9 ± 11.8	0.0	1.3	1.7	2.0	110.0	13%
Paraguay	2018	24	1.5 ± 0.8	0.0	1.3	1.4	1.6	4.4	8%
Peru	2018	2	1.7 ± 0.4	1.4	1.4	1.7	2.0	2.0	100%
Canada	2017	317	1.7 ± 1.2	0.0	1.1	1.5	1.9	10.8	19.2%
MEAN			1.9	0.3	1.3	1.7	2.0	26.0	N/A
Cookies and sweet biscuits									
Argentina	2018	362	0.8 ± 1.5	0.0	0.3	0.6	1.0	27.3	73.9%
Costa Rica	2018	283	0.6 ± 0.5	0.0	0.4	0.5	0.7	7.3	91.9%
Paraguay	2018	427	0.6 ± 0.4	0.0	0.4	0.5	0.7	3.1	87.4%
Peru	2018	113	0.8 ± 0.7	0.0	0.4	0.5	0.9	5.3	100%
Canada	2017	550	0.6 ± 0.3	0.1	0.4	0.6	0.8	3.2	90.9%
MEAN			0.7	0.0	0.4	0.5	0.8	9.2	N/A
Pastries, squares, and quick/	sweet breads								
Canada ^b	2017	316	0.8 ± 0.4	0.1	0.5	0.7	1.0	2.5	N/A
Canada ^c	2017	14	1.9 ± 0.6	0.9	1.5	1.9	2.3	3.1	N/A
Canada ^d	2017	11	1.0 ± 0.1	0.8	0.9	1.0	1.1	1.2	N/A
WEIGHTED MEAN		341	0.9	0.2	0.6	0.8	1.1	2.5	N/A
Cakes (as consumed)									
Argentina	2018	10	1.3 ± 0.5	0.2	1.0	1.4	1.8	1.8	20%
Costa Rica	2018	72	1.3 ± 0.9	0.1	0.6	1.2	1.5	5.1	43.1%
Paraguay	2018	140	0.8 ± 1.2	0.0	0.3	0.5	0.9	13.9	79.3%
Peru	2018	3	0.4 ± 0.2	0.3	0.3	0.4	0.7	0.7	100%
Canada	2017	327	0.8 ± 0.4	0.1	0.6	0.8	1.1	3.0	69.7%
MEAN			0.9	0.1	0.6	0.9	1.2	4.9	N/A

All data acquired from the Food Label Information Program (FLIP) database for packaged food and beverage items for the corresponding country; Data presented as mean: standard deviation."
"roducts evaluated against the 2016 PAND Nutrient Profile Model threshold for excess sodium (1 mg/kral) included only products classified as processed or ultra-processed." Basked desients; Teal biocusts and socress." Frosterie pastrice.

Table 3.1 Corn derivatives – Updated food subcategories and sodium reduction targets

Tuble 3.1 Com derivat	ares opui	ateu joou st	abeatego	es ana soun	readetio	ii tuigets																			
_	Current Regi	onal Targets		um Content of nericas (mg/10		Sodium Targ	gets (mg/100 g)		m Content of ericas (mg/kc			Targets /kcal)	wнo				National	Sodium Re	duction Targe	ets (mg/10	00 g)°		FOPL T	hresholds (mg/100 g) ^e
	2015 PAHO												mg/100 g		US-FDA	u	nited Kingdo	m		Membe	er State Tai	rgets ^d			
	Targets (mg/100 g)	2015 Targets met [1] °	25th Percentile	Median	75th Percentile	2022	2025	25th Percentile	Median	75th Percentile	2022	2025			Proposed 10- year Targets (2026)[2]	2024 [3]	2017 [3]	UK 2017 Targets met [4]	Min	Median	Max	Countries with Targets	Min	Median	Max
3a Tortillas (corn)				(Data from 2017, 20	18)			(Data from 2017, 2018	3)					Hard taco shells										
Regional Target		-	33	42	171	35	29	1.0	1.0	1.3	0.9	0.7	N/A	Maximum	530	-	-	-		416	-	Colombia	300	400	500
Lower Target	÷	-	33		1/1	33	2.5	1.0	1.0	1.7	0.5	0.7		Target	320	-	-	-	-	-	-	Colombia			
Updated Targets						35	30				0.9	0.7													
3b Biscuits (bizcochos)				(Data from 2018)					(Data from 2018)																
Regional Target		-	800	853	933	725	597	1.5	1.6	1.9	1.4	1.1	N/A	Maximum	-	-	-	-			-	N/A	300	400	500
Lower Target		-										į.]	Target	-	-	-	-	-	-	-	,			
Updated Targets						825	800				1.6	1.5													
3c Tostadas				(Data from 2018)					(Data from 2018)																
Regional Target		-	515	849	953	722	594	1.9	3.0	3.0	2.6	2.1	N/A	Maximum	-	-	-	-			-	N/A	300	400	500
Lower Target		-					ļ					i		Target	-	-	-	-	-	-	-				
Updated Targets						720	600				2.6	2.1													
3d Arepas				(Data from 2018)					(Data from 2018)																
Regional Target		-	0	59	71	50	41	0.0	0.6	1.1	0.5	0.4	N/A	Maximum	-	-	-	-			-	N/A	300	400	500
Lower Target		-										i .		Target	-	-	-	-	-	-	-	.4			
Updated Targets						50	40				0.5	0.4													

*Proportion of products in 14-country study [1] meeting PAHO Regional Sodium content calculated from available national sodium monitoring data (Tables 3.2 and 3.3); *Calculated as the average of relevant subcategories; *Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; *Data extracted from final (proposed, accepted or implemented) national Front-of-package "high in" or "excess" sodium thresholds for prepackaged foods in Appendix 3b.

Table 3.2 Sodium content for proposed corn derivatives subcategories and overall mean – mg/100 g

	Year	n	Average Sodium	Average Sodium		Si	odium Percen	tiles (mg/100)g)	
			(mg/serving	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Tortillas (corn)										•
United States (SWA) [11] ^a	2017	17	-	341 ± 181	3	-	*	-	-	593
Costa Rica	2018	7	45 ± 39	111 ± 146	36	-	40	43	103	436
Mexico [16]	2017	23	-	113 ± 128	0	11	25	40	238	440
MEAN			45 ± 39	188	13	11	33	42	171	490
Biscuits (bizcochos)										
Costa Rica	2018	5	521 ± 695	867 ± 342	396	-	800	853	933	1354
MEAN			521 ± 695	867 ± 342	396	-	800	853	933	1354
Tostadas										
Costa Rica	2018	4	125 ± 16	937 ± 358	400	-	757	1115	1117	1117
Mexico [16]	2017	83	-	541 ± 313	0	100	273	583	788	1204
MEAN			125 ± 16	739	200	100	515	849	952.5	1160.5
Arepas										
Costa Rica	2018	3	52 ± 45	43 ± 38	0	-	0	59	71	71
MEAN			52 ± 45	43 ± 38	0	-	0	59	71	71

Data acquired from the Food Label Information Program (FLIP) database for packaged food and beverage items for the corresponding country (unpublished), unless otherwise specified.

Data presented as mean ± standard deviation. Sales weighted average (SWA). *Taco shells, corn.

Table 3.3 Sodium content for proposed corn derivatives subcategories – mg/kcal

	Year	n	Average Sodium		Sodium	Percentiles (ı	mg/kcal)	
			(mg/kcal)	Min	25 th	50 th	75 th	Max
Tortillas (corn)								
Canada ^a	2017	62	1.7 ± 0.6	0.0	1.7	1.8	2.0	3.2
Costa Rica	2018	7	0.5 ± 0.6	0.2	0.2	0.2	0.6	1.9
MEAN			1.1	0.1	1.0	1.0	1.3	2.6
Biscuits (bizcochos)								
Costa Rica	2018	5	1.7 ± 0.8	0.8	1.5	1.6	1.9	2.9
MEAN			1.7 ± 0.8	0.8	1.5	1.6	1.9	2.9
Tostadas								
Costa Rica	2018	4	2.4 ± 1.1	0.8	1.9	3.0	3.0	3.0
MEAN			2.4 ± 1.1	0.8	1.9	3.0	3.0	3.0
Arepas								
Costa Rica	2018	3	0.6 ± 0.6	0.0	0.0	0.6	1.1	1.1
MEAN			0.6 ± 0.6	0.0	0.0	0.6	1.1	1.1

All data acquired from the Food Label Information Program (FLIP) database for packaged food and beverage items for the corresponding country, Data presented as mean ± standard deviation. *Data only available for tortillas, taco shells, wraps, and naan (includes corn and wheel-based tortillas and taco shells).

Table 4.1 Breakfast cereal – Updated food subcategories and sodium reduction targets

		Current R	egional Targets		ium Content nericas (mg/	of Foods in the 100 g) ^b	Sodium Tar	gets (mg/100 g)		m Content of nericas (mg/k		Sodium (mg/l		wнo				National :	Sodium Red	duction Ta	rgets (mg/1	100 g)°			PL Thresho (mg/100 g)	
		2015 PAH	2015 Taraets	25th					25th		75th			mg/100 g		S - FDA	Un	ited Kingdom			Men	ber State T	argets ^d			
		Targets (mg/100 g	(a10	Percentile	Median	75th Percentile	2022	2025	Percentile	Median	Percentile	2022	2025		yea	posed 10- ir Targets :026)[2]	2024 [3]	2017 [3]	UK 2017 Targets met [4]	Min	Median	Max	Countries with Targets	Min	Median	Max
4a	Ready to eat and hot	instant brea	kfast cereals		(Data from 2013,	2015)			(Data from 2017, 20:	18)															
	Regional Target	630	91%	157	312	461	265	219	0.2	0.8	1.2	0.6	0.5	280	Maximum	418	360	400	98%	418	600	630	Brazil, Canada, USA	300	400	500
	Lower Target	500	76%	137	312	401	203	219	0.3	0.8	1.2	0.0	0.5		Target	260	190	235	Yes ⁹	210	360	390	brazii, Cariada, OSA			
	Updated Targets						260	220				0.6	0.5	1												

^{*}Proportion of products in 14-country study [1] meeting PAHO Regional Sodium Reduction Targets.* Mean sodium content calculated from available attornal sodium monitoring data [Tables 4.2 and 4.3]; 'Calculated as the average of relevant subcategories,' Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; 'Data extracted from final [proposed, accepted or implemented] national Front-of-Package "high in" or "excess" sodium thresholds for prepardaged foods in Appendix 3b; 'Proportion of products at or below maximum, 'it is proportion of products in 2018 at or below maximum within 5% of average sodium target ("target").

Table 4.2 Sodium content for breakfast cereal – mg/100 g

	Year	n	Average Sodium	Average Sodium		S	iodium Perce	ntiles (mg/100	g)	
			(mg/serving)	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Argentina	2015	88	95 ± 76	318 ± 253	0	46	113	277	518	1100
Brazil	2015	100	73 ± 66	224 ± 217	0	18	76	166	327	1500
Chile	2015	109	69 ± 57	213 ± 175	1	7	50	188	324	642
Costa Rica	2015	115	140 ± 63	433 ± 185	44	240	315	400	550	1067
Cuba	2015	23	175 ± 178	602 ± 708	0	150	297	450	568	2760
Ecuador	2015	100	84 ± 149	283 ± 498	0	0	19	200	384	3400
Guatemala	2015	100	133 ± 56	412 ± 188	0	183	300	433	533	800
Jamaica	2015	114	168 ± 93	456 ± 223	0	141	335	457	575	1179
Mexico	2015	104	103 ± 65	323 ± 204	0	27	99	356	467	1073
Panama	2015	190	118 ± 69	344 ± 201	0	10	220	355	493	810
Paraguay	2015	98	60 ± 63	201 ± 210	0	12	69	125	269	977
Peru	2015	91	72 ± 91	251 ± 276	0	2	7	229	378	1395
Trinidad and Tobago	2015	112	147 ± 130	406 ± 245	0	85	265	388	534	1280
Barbados	2015	113	122 ± 97	356 ± 316	0	10	70	370	510	1680
Canada [5]*	2013	310	119	317	0	45	124	291	480	900
United States [6]	2013	20	188 ± 2.2 ^b	443 ± 5.9 ^b	356	-	-	-	-	552
MEAN			117	351	25	65	157	312	461	1320

All data was from Arcand J et al. Nutrients (2019) and represents 2015 data, unless otherwise indicated; Data presented as mean ± standard deviation. *Canadian data was calculated as the weighted average of ready-to-eat and hot instant breakfast cereal subcategories; ^b Data presented as standard error of the mean.

Table 4.3 Sodium content for breakfast cereal – mg/kcal

	Year	n	Average Sodium		Sodium	Percentiles (r	ng/kcal)		Proportion below PAHO Nutrient Profile Model
			(mg/kcal)	Min	25 th	50 th	75 th	Max	thresholds
Argentina	2018	85	0.8 ± 0.5	0.0	0.3	0.7	1.2	2.2	68%
Costa Rica	2018	135	1.1 ± 0.7	0.0	0.7	1.1	1.4	6.8	47%
Paraguay	2018	126	0.6 ± 0.5	0.0	0.2	0.5	0.9	2.2	79%
Peru	2018	79	1.0 ± 0.8	0.0	0.4	0.9	1.2	5.5	100%
Canada	2017	379	0.7 ± 0.6	0.0	0.1	0.6	1.1	2.4	67%
MEAN			0.8	0.0	0.3	0.8	1.2	3.8	N/A

All data acquired from the Food Label Information Program (FUP) database for packaged food and beverage items for the corresponding country; Data presented as mean ± standard deviation. *Products evaluated against the 2016 PAHO Nutrient Profile Model threshold for excess sodium (1 mg/kzal) included only products classified as processed or ultra-processed.

Table 4.1 Breakfast cereal – Updated food subcategories and sodium reduction targets

Table 5.1 Savory snacks – Updated food subcategories and sodium reduction target

Table 5.1 Savory snacks	– Updated food	subco	ategories d	and sodiun	n reduction tai	gets																			
_	Current Region Targets	al		ium Content nericas (mg/	of Foods in the '100 g) ^b	Sodium Targ	gets (mg/100 g)		m Content of ericas (mg/kc		Sodium (mg/l		wнo				Natio	nal Sodium	n Reduction	n Targets (n	mg/100 g) ^c		FOPL Thre	esholds (mg	;/100 g) ^e
	2015 PAHO 2015 To	raets	25th												US-FDA		United Kingdom				Member S	tate Targets ^d			
	Targets met		Percentile	Median	75th Percentile	2022	2025	25th Percentile	Median	75th Percentile	2022	2025	mg/100 g		Proposed 10- year Targets (2026)[2] ^d	2024 [3]	2017 [3]	UK 2017 Targets met [4]	Min	Median	Max	Countries with Targets	Min	Median	Max
5a Nuts, seeds, and kernels, s	seasoned and candle	d		(Data from 20	13)				(Data from 2018)																
Regional Target			190	312	500	265	218	0.5	1.1	1.8	0.9	0.8	280	Maximum	330	480	-	-	86	352	550	Canada, Colombia	300	400	500
Lower Target			190	312	300	203	210	0.3	1.1	1.0	0.9	0.0	1	Target	200	400	-	-	320	320	320	Canada, Colonida			
Updated Targets						265	220				0.9	0.8	1												
5b Chips, popcorn, and/or ex	truded snacks		(Da	ata from 2013, 20	16, 2017)				(Data from 2018)																
Regional Target			472	591	728	503	414	1.2	1.6	1.9	14	1.1	500	Maximum	646	713	883	86% f	291	600	1006	Brazil, Canada, Colombia, USA	300	400	500
Lower Target			4/2	391	728	303	414	1.2	1.0	1.9	1.4	1.1		Target	390	577	701	N/A	400	430	680	Brazii, Canada, Colombia, USA			
Updated Targets						530	470				1.4	1.2													
5c Pretzels and snack mixes				(Data from 20	13)				(Data from 2017)																
Regional Target			637	957	1280	813	670	1.7	1.8	2.0	1.5	1.3	760	Maximum	1040		-	-	1400	1400	1400	Canada, USA	300	400	500
Lower Target			037	337	1100	013	0,0	4.7	2.0	2.0	1.7	1.5		Target	725	-	-		790	815	840	Curious, Con			
Updated Targets						800	670				1.8	1.7	Î												
5d Other savory snacks ^d				(Data from 2013,	2015)			(Data from 2017, 2011	8)															
Regional Target			411	618	869	525	432	0.7	1.1	1.9	0.9	0.8	N/A	Maximum	693	679	883	86% ^f	86	532	1400	Savory snacks overall: Argentina, Brazil,	300	400	500
Lower Target			-11	316	809	323	-32	5.7	2.1	1.9	5.5	J.8]	Target	438	551	701	Yes h	320	515	840	Canada, Colombia, USA			
Updated Targets						525	430				0.9	0.8	1												

^{*}Proportion of products in 14-country study [1] meeting PAVIO Regional Sodium Reduction Targets, ** Nean sodium content calculated from available national sodium monitoring data [Tables 5.2 to 5.6]; **Calculated as the average of relevant subcategories; d Data extracted from linal [proposed, accepted, or implemented] from to-package "high in" or "excess" sodium thresholds for preparkaged foods in Appendix 3b, **Proportion of products in 2-bit a extracted from linal [proposed, accepted, or implemented] from to-package "high in" or "excess" sodium thresholds for preparkaged foods in Appendix 3b, **Proportion of products in 2018 at or below maximum within 5% of average sodium target ("target").

Table 5.2 Summary of existing savory snacks sodium reduction targets and front-of-package label (FOPL) thresholds

Table 5.2 Summary	of existin	g savory sn	acks soaiui	m reauction	targets ana Jr	опт-от-раск	age iabei ((FOPL) thresh	oias										
		t Regional			f Foods in the			of Foods in the			Na	tional Sodi	um Reduction	Targets (mg	/100 g) ^c			OPL Threshold	s
	Та	irgets	А	mericas (mg/1	00 g)"	Am	ericas (mg/	kcal)"						8 (8	8/			(mg/100 g) ^e	
	2015 PAHO	2015 Targets	25th			25th				US-FDA		United Kingdo	m	1	Member State Targe	ts ^d			
	Targets (mg/100 g)		Percentile	Median	75th Percentile	Percentile	Median	75th Percentile		Proposed 10- year Targets (2026)[2]	2024 [3]	2017 [3]	UK 2017 Targets met [4]	Min	Median	Max	Min	Median	Max
Snacks (overall)				(Data from 2013, 2)	015)	0	ata from 2017, 2	1018)											
Regional Target	900	75%	411	618	869	0.7	1.1	1.9	Maximum	693	679	883	86%	86	532	1400	300	400	500
Lower Target	530	39%	711	316	309	0.7		1.9	Target	438	551	701	Yes ^g	320	515	840			
Proposed Targets																			

Proposed urageto Elemento in 14-country study [1] meeting PMIO Regional Sodium Reduction Targets; "Mans and unmonther calculated from available national addium monther (solutated as the average of relevant subcategories (excludes snack puddings;" Data extracted from latest approved national addium targets in Appendix 3a and may, siturated distinct subcategory targets; "Data extracted from final foreposed, accepted or implemented] national front-of-package "high in" or "excess" sodium thresholds for prepackaged floods in Appendix 3b; "Average proportion of products in crisp and snacks category at or below maximum with \$5 of average sodium target (targets) and the solid or below maximum with \$5 of averages position anget ("targets)."

Table 5.3 Sodium content for snacks (overall) - mg/100 g

	Year	n	Average Sodium	Average Sodium			Sodium Percei	ntiles (mg/100g)	
			(mg/serving)	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Argentina	2015	123	223 ± 272	863 ± 1043	0	174	423	608	900	8000
Brazil	2015	198	196 ± 122	812 ± 484	20	347	517	764	1010	3516
Chile	2015	132	117 ± 71	443 ± 271	0	12	267	458	623	1300
Costa Rica	2015	206	195 ± 157	765 ± 579	0	216	395	643	956	5013
Cuba	2015	14	229 ± 83	622 ± 179	330	365	544	675	699	1023
Ecuador	2015	187	185 ± 162	591 ± 483	0	117	271	467	786	3214
Guatemala	2015	181	282 ± 880	774 ± 701	0	178	410	689	964	7000
Jamaica	2015	147	210 ± 144	671 ± 436	11	217	384	607	913	3393
Mexico	2015	211	269 ± 267	812 ± 518	0	324	500	714	975	3166
Panama	2015	207	214 ± 151	735 ± 464	0	262	410	670	1000	3230
Paraguay	2015	159	184 ± 113	670 ± 425	0	34	400	610	944	2333
Peru	2015	116	162 ± 117	584 ± 399	0	182	377	537	700	3000
Trinidad and Tobago	2015	152	213 ± 135	676 ± 357	0	250	428	635	933	1710
Barbados	2015	202	211 ± 228	907 ± 2997	0	252	430	635	910	42860
Canada [5] ^a	2013	620	267	587	161	315	415	553	720	1526
United States [6] ^b	2013	95	217	755	528		-	-	-	988
MEAN			211	704	66	216	411	618	869	5705

All data was from Arcand J et al. Nutrients (2015) and represents 2015 data, unless otherwise indicated; Data presented as mean ± standard deviation. *Canadian data was calculated as the weighted average of snack foods subcategories (excluding pudding): *US data was calculated as the weighted average of savory snacks subcategories (excluding crackers).

Table 5.4 Sodium content for proposed savory snacks subcategories – mg/100 g

	Year	n	Average Sodium	Average Sodium			Sodium Percei	ntiles (mg/100g	:)	
			(mg/serving)	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Nuts, seeds, and kernels, seasoned and	candied									
Canada [5]	2013	158	180 ± 152	391 ± 351	0	70	190	312	500	2156
MEAN			180 ± 152	391 ± 351	0	70	190	312	500	2156
Chips, popcorn, and/or extruded snack	rs*									
Canada [5]	2013	406	277	611	222	388	472	591	728	1255
Mexico [12]	2016	246	-	824	54	-	-	-	-	2400
Brazil [9]	2017	70	-	676	285	-	-	-	-	1020
United States [6]	2013	62	161	554	368	-	-	-	-	746
MEAN			219	666	232	388	472	591	728	1355
Pretzels and snack mixes										
Canada [5]	2013	56	433 ± 212	964 ± 385	175	480	637	957	1280	1720
United States [6] ^b	2013	21	352 ± 7°	1240 ± 23°	849	-	-	-	-	1640
MEAN			393	1102	512	480	637	957	1280	1680

Data presented as mean ± standard deviation. Individual country data calculated as the weighted average of chips, popcorm, and/or extruded snacks subcategories, ** Hard pretzels, ** Data presented as standard deviation. Individual country data calculated as the weighted average of chips, popcorm, and/or extruded snacks subcategories, ** Hard pretzels, ** Data presented as standard error of the mean.

Table 5.5 Sodium content for snacks (overall) – mg/kcal

	Year	n	Average Sodium		Sodium	Percentiles (mg/kcal)		Proportion below PAHO Nutrient Profile Model
			(mg/kcal)	Min	25 th	50 th	75 th	Max	threshold ^a
Argentina	2018	137	1.1 ± 0.4	0.1	0.9	1.2	1.4	2.6	43.1%
Costa Rica	2018	357	1.2 ± 0.9	0.0	0.5	1.0	1.6	5	49%
Paraguay	2018	382	3.7 ± 6.5	0.0	0.9	1.3	3.1	46	31.6%
Peru	2018	39	1.5 ± 1.9	0.0	0.4	1.0	1.8	11.2	100%
Canada	2017	747	1.1 ± 0.7	0.0	0.6	1.0	1.5	4.5	48.3%
MEAN			1.7	0.0	0.7	1.1	1.9	13.9	N/A

All data acquired from the Food Label Information Program (FLIP) database for packaged food and beerange items for the corresponding country, Data presented as mean ± standard deviation. * Products evaluated against the 2016 PAHO Nutrient Profile Model threshold for excess sodium It mg/kzal) included only products classified as processed or ultra-processed.

Table 5.6 Sodium content for proposed savory snacks subcategories – mg/kcal

	w		Average		Sodium	Percentiles (mg/kcal)	
	Year	n	Sodium	Min	25 th	50 th	75 th	Max
Nuts, seeds, and kernels, seasoned an	d candied							
Argentina	2018	43	1.8 ± 0.6	0.0	1.6	1.8	1.9	3.7
Costa Rica	2018	40	1.0 ± 0.9	0.0	0.2	0.7	1.8	2.9
Paraguay	2018	33	1.2 ± 0.9	0.0	0.1	1.4	2.0	2.6
Peru	2018	7	0.7 ± 0.8	0.0	0.0	0.4	1.6	1.7
MEAN			1.2	0.0	0.5	1.1	1.8	2.7
Chips, popcorn, and/or extruded snac	ks							
Argentina	2018	67	1.8 ± 0.5	0.4	1.5	1.8	1.9	3.9
Costa Rica	2018	60	1.5 ± 0.6	0.0	1.2	1.5	1.9	2.9
Paraguay	2018	41	1.4 ± 0.7	0.0	1.0	1.7	2.0	2.2
Peru	2018	17	1.1 ± 0.6	0.0	1.1	1.4	1.6	2.0
MEAN			1.5	0.1	1.2	1.6	1.9	2.8
Pretzels and snack mixes								
Canada	2017	62	1.7 ± 0.6	0.0	1.7	1.8	2.0	3.2
MEAN			1.7 ± 0.6	0.0	1.7	1.8	2.0	3.2

All data acquired from the Food Label Information Program (FLIP) database for packaged food and beverage items for the corresponding country; Data presented as mean ± standard deviation.

Table 6.1 Cheese – Updated food subcategories and sodium reduction targets

c	urrent Region	al Targets		m Content o ericas (mg/1	of Foods in the	Sodium Targe	ts (mg/100 g)		m Content of Fe ericas (mg/kca		Sodium Targ	ets (mg/kcal)	wнo				Nation	al Sodium R	teduction 1	Targets (mg/	/100 g) ^c		FOPL Th	resholds (m g) ^e	g/100
2	015 PAHO _														US-FDA		United Kingd	om		Mer	mber State T	'argets ^d			
Targ		015 Targets met [1]°	25th Percentile	Median	75th Percentile	2022	2025	25th Percentile	Median	75th Percentile	2022	2025	mg/100 g		Proposed 10- year Targets (2026)[2]	2024 [3]	2017 [3]	UK 2017 Targets met [4]	Min	Median	Max	Countries with Targets	Min	Median	Max
Sa Fresh cheese (fresh mozzare	ella and others)			(Data from 2016))			(0)	lata from 2017, 2018)																
Regional Target	-	-	363	568	615	483	398	1.1	1.4	1.6	1.1	0.9		Maximum		-		-	425	466	512	Argentina, Colombia	300	400	500
Lower Target	-	-	303	308	012	483	398	1.1	1.4	1.0	1.1	0.9	190	Target	-	-	-	-	496	523	558	Argentina, Colombia			
Updated Targets						480	400				1.1	0.9													
Soft cheese (unripened goal	t cheese, cream	cheese)		(Data from 2013))				(Data from 2017)								(Cheese spread	1)							
Regional Target	-	-	378	455	534	387	318	0.7	0.7	0.7	0.6	0.5		Maximum	575	720	720	37%	387	571	600	Brazil, Canada, Colombia,	300	400	500
Lower Target	-	-	3/8	455	534	387	318	0.7	0.7	0.7	0.6	0.5	190	Target	485	620	650	N/A	350	405	600	USA			
Updated Targets						420	380				0.7	0.6													
Sc Semi-hard cheese (mozzare	ella, cheddar, an	d others)	(Data	a from 2013, 2016,	, 2017)				(Data from 2017)																
Regional Target	-	-	594	593	701	504	415	1.7	1.8	2.1	1.5	1.3		Maximum	736	760	800	100% ^{f,q}	-	770	-	Argentina, Canada, USA	300	400	500
Lower Target	-	-	394	333	701	304	413	1.7	1.0	2.1	1.3	1.5	520-625	Target	589	642	680	N/A	542	613	670	Algeritiia, Callada, OSA			
Updated Targets						650	590				1.7	1.5													
d Hard cheese, grated and un	grated			(Data from 2013))				(Data from 2017)																
Regional Target	-	-	1067	1536	2200	1306	1075	1.6	2.3	3.5	2.0	1.6		Maximum		-		-	-	2530		Canada, USA	300		500
Lower Target	-												N/A	Target	1320	-	-	-	1300	1510	1720	,			
Updated Targets						1300	1200				2.0	1.6													
e Processed cheese			(0	Data from 2013, 20	115)				(Data from 2017)																
Regional Target	-		995	1200	1454	1020	840	5.4	5.9	6.7	5.0	4.1		Maximum	1310	800	800	50% ¹	-	1670		Canada, USA	300		500
Lower Target	-	-	-33	-100	2434	1510	240	5.4	2.5		5.0		N/A	Target	1000	650	680	N/A	1040	1140	1240				
Updated Targets						1000	900				5.4	4.5													

^{*}Proportion of products in 14-country study [1] meeting PAHO Regional Sodium Reduction Targets; Mean sodium content calculated form available national sodium monitoring data [Tables 6.2 and 6.3]; *Calculated as the average of relevant subcategories; *Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets. Maximum value may exceed target, as many countries only possess maximum sodium values; *Data extracted from line [proposed, accepted or implemented] national front-of-package Thigh in "or "excess" sodium thresholds for prepackaged foods in Appendix 3b; *Proportion of products at or below maximum.** *Cheddar and other "hard pressed" cheeses.

Table 6.2 Sodium content for proposed cheese subcategories and overall mean – mg/100 g

	Year	n	Average Sodium	Average Sodium		S	iodium Percen	tiles (mg/100	g)	
			(mg/serving)	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Fresh cheese (fresh mozzarella and oth	ers)									-
Mexico [12]	2016	35	-	498 ± 209	14	-	363	568	615	970
MEAN			-	498 ± 209	14	-	363	568	615	970
Soft cheese (unripened goat cheese and	d cream cheese)									
Canada (5) ^a	2013	25	131 ± 30	450 ± 106	267	283	367	467	536	607
Canada (5) ^b	2013	62	123 ± 72	474 ± 137	167	333	383	450	533	867
WEIGHTED MEAN		87	125	467	196	319	378	455	534	792
Semi-hard cheese (mozzarella, cheddar	, and others)									
Canada (5) ^c	2013	249	188	472	152	473	594	659	701	885
Brazil [9]	2017	28	-	517 ± 132	87	-	-	527	-	797
Mexico [12]	2016	17		490 ± 34	417	-	-	-	-	526
MEAN			188	472	219	473	594	593	701	736
Hard cheese, grated and ungrated										-
Canada [5]	2013	33	306 ± 93	1652 ± 739	643	667	1067	1536	2200	3000
MEAN			306 ± 93	1652 ± 739	643	667	1067	1536	2200	3000
Processed cheese										
Mexico [12]	2016	60	-	863 ± 421	210	-	600	780	1149	2667
Canada [5]	2013	56	383 ± 122	1525 ± 313	788	1000	1390	1619	1758	1905
MEAN			383 ± 122	1194	499	1000	995	1200	1454	2286

Data presented as mean ± standard deviation. * Goat cheese; * Cream cheese; * Canadian data was calculated as the weighted average of Brie and camembert and natural cheeses subcategories.

Table 6.3 Sodium content for proposed cheese subcategories – mg/kcal

	Year	n	Average Sodium		Sodium	Percentiles (n	mg/kcal)	
			(mg/kcal)	Min	25 th	50 th	75 th	Max
Fresh cheese (fresh mozzarella and oth	ers)							
Argentina	2018	1	1.4 ± 0.0	1.4	1.4	1.4	1.4	1.4
Canada	2017	45	0.9 ± 0.7	0.0	0.4	0.9	1.5	2.3
Costa Rica	2018	30	1.7 ± 0.9	0.0	1.2	1.7	2.1	4.1
Paraguay	2018	1	1.4 ± 0.0	1.4	1.4	1.4	1.4	1.4
MEAN				0.7	1.1	1.4	1.6	2.3
Soft cheese (unripened goat cheese and	d cream cheese)							
Canada	2017	97	1.9 ± 0.9	0.7	0.7	0.7	0.7	0.7
MEAN				0.7	0.7	0.7	0.7	0.7
Semi-hard cheese (mozzarella, cheddar	and others)							
Canada	2017	353	2.1 ± 0.9	0.6	1.7	1.8	2.1	10
MEAN				0.6	1.7	1.8	2.1	10
Hard cheese, grated and ungrated								
Canada	2017	57	2.9 ± 1.8	0.7	1.6	2.3	3.5	8.8
MEAN				0.7	1.6	2.3	3.5	8.8
Processed cheese								
Canada	2017	37	6.3 ± 1.7	3.1	5.4	5.9	6.7	10.4
MEAN				3.1	5.4	5.9	6.7	10.4

All data acquired from the Food Label information Program (FLIP) database for packaged food and beverage items for the corresponding country; Data presented as mean ± standard deviation. *Mozzarella mg/kcal data was included in either fresh cheese data, or cheddar, Colby, etc. data rather than its own category.

Table 7.1 Processed vegetables, beans, and legumes – Updated food subcategories and sodium reduction targets

	Current Regional Targets		m Content o	of Foods in the	Sodium Targo	ets (mg/100 g)		ım Content o nericas (mg/l	of Foods in the	Sodium Targ	gets (mg/kcal)	wнo				Nationa	l Sodium Red	duction Targ	gets (mg/100 p	g) ^c		FOPL Thre	esholds (n	ng/100
	2015 PAHO 2015 Targets Targets (mg/100	25th Percentile	Median	75th Percentile	2022	2025	25th Percentile	Median	75th Percentile	2022	2025	mg/100 g	-	US-FDA Proposed 10-		United Kingdo	m UK 2017		Membe	er State Targ		Min	Median	M
	g) met [1] °											3, 110		year Targets (2026)[2]	2024 [3]	2017 [3]	Targets met [4]	Min	Median	Max	Countries with Targets			
Tomato paste w	vith additions		(Data from 2013)				(Data from 2017))															
Regional Targe Lower Targe		63	469	906	399	328	1.0	3.9	5.0	3.3	2.7	330	Maximum Target	-	-	-		572	706 470	840	Canada, Costa Rica	300	400	51
Updated Target	ts				400	320				3.3	2.7													
Canned vegetab	bles	(Dat	a from 2013, 2017	, 2018)				(Data from 2017))															
Regional Targe Lower Targe		84	204	277	173	143	0.9	4.7	8.2	4.0	3.3	50	Maximum Target	320 250	50	50	62% ^f	310 100	310 140	310 240	Canada, USA	300	400	5
Updated Target	s				150	100				4.0	3.3													
Canned beans,	chickpeas, and lentils	(1	Data from 2013, 20	018)				Data from 2017, 20	018)															
Regional Targe Lower Targe		189	259	326	220	181	2.2	2.8	3.7	2.3	1.9	50	Maximum Target	350 220	-	-	-	310 100	310 170	310 240	Canada, USA	300	400	
Updated Target	ts				220	190				2.5	2.2													
Baked and refri	ed beans (mashed)	(Dat	a from 2013, 2017	, 2018)				Data from 2017, 20	018)															
Regional Targe Lower Targe		279	336	413	285	235	2.4	2.8	3.6	2.3	1.9	510	Maximum Target	320 250	250 240	258 270	74% ^f N/A	370 250	370 280	370 310	Canada, USA	300	400	
Updated Target	ts .				280	250				2.6	2.4													****
Frozen potatoes	s and similar products		(Data from 2013)																				
Regional Targe Lower Targe		76	200	365	170	140	-	-	-	-	-	180	Maximum Target	470 323	260 155	275 185	80% ^f N/A	380 170	380 240	380 380	Canada, USA	300	400	
Updated Target	s				170	140				N/A	N/A													***
consumed)	scalloped potatoes (as		(Data from 2013)																				
Regional Targe Lower Targe		275	310	351	264	217	-		-	-	-	260	Maximum Target	295 180	- 60	- 60	N/A -	440 290	440 750	440 1210	Canada, USA	300	400	
Updated Target	s				290	270				N/A	N/A													
Pickled vegetab	oles		(Data from 2013)				(Data from 2017))															
Regional Targe Lower Targe		567	800	1069	680	560	15.8	35.4	51.9	30.1	24.8	550	Maximum Target	550 410	-	-	-	700 400	870 520	1040 640	Canada	300	400	
Updated Target	ts .				680	560				30.1	24.8													
Sundried tomat	toes		(Data from 2013)				(Data from 2017))															
Regional Targe Lower Targe		789	1081	1550	919	757	6.0	9.2	13.0	7.8	6.4	780	Maximum Target	-	-	-		-	2000 1600	-	Canada	300	400	
Updated Target	ts .				900	790				7.8	6.4													<i></i>
Olives		1	(Data from 2013)	Ì	•		(Data from 2017))		•													
Regional Targe Lower Targe		1067	1567	1813	1332	1097	10.0	11.6	13.0	9.9	8.1	780	Maximum Target	1375 1030	-	-	-	1800 880	1900 1240	2000 1600	Canada	300	400	
Updated Target	ts				1300	1100				9.9	8.1													***
Vegetable juice Regional Targe			(Data from 2013			i i		(Data from 2017)			i		Maximum	200°	-	-	_	-	330	-		300	400	******
Lower Targe	et	160	187	241	159	131	1.3	5.3	9.6	4.5	3.7	200	Target	200 150°	-	-	-	-	180	-	Canada		-00	
Updated Target	s	F			175	160	B .			4.5	3.7	relevant subcategories: d Data extr.	1		Ĭ.						1	<u> </u>	**********	#

^{*}Proportion of products in 14-country study [1] meeting Phose of the substitute distinct subcategory targets; "Nean sodium content calculated from available national sodium monitoring data (Tables 7.2 and 7.3); "Calculated as the average of relevant subcategories; "Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; "Nean sodium content calculated from available in national Front-of-Package "high in" or "excess" sodium thresholds for prepackaged foods in Appendix 3b; "Proportion of products at or below maximum.

Table 7.2 Sodium content for proposed processed vegetables, beans, and legumes subcategories – mg/100 g

Tuble 7.2 Journal conten	, ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					9, 9			
	Year	n	Average Sodium	Average Sodium		:	Sodium Percen	ntiles (mg/100g	g)	
			(mg/serving)		Min	10 th	25 th	50 th	75 th	Max
Tomato paste with additions	•	•			•					•
Canada [5]	2013	4	155 ± 156	484 ± 488	63	63	63	469	906	938
MEAN			155 ± 156	484 ± 488	63	63	63	469	906	938
Canned vegetables	•	•	•		•	•	•	•	•	
Argentina [13] ^a	2018	147	-	252	0	-	63	197	262	4760
Canada ^b	2013	300	193 ± 131	211 ± 202	0	-	104	211	292	2143
United States (SWA) [11] ^c	2017	30	-	190	107	-	-	-	-	242
MEAN			193 ± 131	218	36	-	84	204	277	2382
Canned beans, chickpeas, and le	entils ^b									
Canada	2013	83	311 ± 202	228 ± 179	0	-	128	194	322	1200
Costa Rica	2018	25	371 ± 288	367 ± 282	98	-	220	300	347	1078
Argentina	2018	20	301 ± 140	238 ± 105	12	-	180	243	315	462
Paraguay	2018	6	375 ± 157	279 ± 100	120	-	227	298	320	414
MEAN			284	267	58	-	189	259	326	789
Baked and refried beans (mashe	ed)	•	•		•	•	•	•	•	
Canada [5]	2013	37	552 ± 174	316 ± 94	199	213	243	303	384	604
United States (SWA) [11] ^d	2017	18	-	373 ± 28	298	-	-	-	-	411
Costa Rica ^b	2018	46	425 ± 183	373 ± 119	12	-	315	368	441	754
MEAN			489	353	170	213	279	336	413	590
Frozen potatoes and similar pro	ducts									
Canada [5]	2013	67	193 ± 128	232 ± 154	15	24	76	200	365	595
United States [6]	2013	6	-	370 ± 7°	115	-	-	-	-	676
MEAN			193 ± 128	301	65	24	76	200	365	636
Dry mashed or scalloped potato	es (as consumed)								
Canada [5]	2013	38	476 ± 111	311 ± 68	134	223	275	310	351	449
MEAN			476 ± 111	311 ± 68	134	223	275	310	351	449
Pickled vegetables										
Canada [5] ^f	2013	153	248 ± 150	869 ± 499	17	357	567	800	1069	3500
Canada (SWA) [14] ^g	2017	-	-	506	-	-	-	-	-	-
MEAN			248 ± 150	688	17	357	567	800	1069	3500
Sundried tomatoes	•		•			•	•	•		

Canada [5]	2013	4	265 ± 244	1170 ± 522	650	650	789	1081	1550	1867
MEAN			265 ± 244	1170 ± 522	650	650	789	1081	1550	1867
Olives										
Canada [5] ^h	2013	90	223 ± 77	1461 ± 477	556	758	1067	1567	1813	2667
MEAN			223 ± 77	1461 ± 477	556	758	1067	1567	1813	2667
Vegetable juice										
Canada [5]	2013	41	-	184 ± 81	53	54	160	187	241	327
MEAN			-	184 ± 81	53	54	160	187	241	327

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Table 7.3 Sodium content for proposed processed vegetables, beans, and legumes subcategories – mg/kcal

	Year	n	Average Sodium		Sodium	Percentiles (n	ng/kcal)	
			(mg/kcal)	Min	25 th	50 th	75 th	Max
Tomato paste with additions					•	•	•	
Canada	2017	6	3.3 ± 1.9	1.0	1.0	3.9	5.0	5.2
MEAN			3.3 ± 1.9	1.0	1.0	3.9	5.0	5.2
Canned vegetables					•	•	•	
Canada"	2017	212	5.4 ± 4.4	0.0	1.1	4.8	8.0	21.0
Canada ^b	2017	45	6.6 ± 7.9	0.0	0.0	4.0	9.0	38.0
WEIGHTED MEAN		257	5.6	0.0	0.9	4.7	8.2	24.0
Canned beans, chickpeas and	l lentils							
Canada	2017	83	1.5 ± 1.8	0.0	0.5	1.1	2.3	14.3
Costa Rica	2018	25	3.9 ± 1.9	1.0	2.4	3.5	4.6	7.6
Argentina	2018	20	2.9 ± 1.3	0.2	2.4	2.8	3.9	5.9
Paraguay	2018	6	4.3 ± 3.0	1.2	3.3	3.6	3.9	10.2
MEAN			3.0	0.6	2.2	2.8	3.7	9.5
Baked and refried beans (ma	shed)	-			•	•	•	
Canada	2017	45	2.7 ± 1.1	0.1	2.1	2.4	3.4	5.9
Costa Rica ^c	2018	46	3.3 ± 1.6	0.1	2.6	3.1	3.8	8.9
MEAN			3.0	0.1	2.4	2.8	3.6	7.4
Frozen potatoes and similar p	roducts							
N/A	-	-	-	-	-	-	-	-
MEAN				-	-	-	-	
Dry mashed or scalloped pot	atoes (as consumed)						
N/A	-	-	-	-	-	-	-	-
MEAN			-	-	-	-	-	-
Pickled vegetables	-				•	•	•	
Canada ^c	2017	125	48.7 ± 34.7	0.0	20.0	46.0	67.5	188.0
Canada ^d	2017	43	9.9 ± 24.1	1.1	3.7	4.5	6.7	160.0
WEIGHTED MEAN		168	38.8	0.3	15.8	35.4	51.9	180.8
Olives					•	•		
Canada ^e	2017	19	11.7 ± 3.2	6.7	10.0	11.6	13.0	20.7
MEAN			11.7 ± 3.2	6.7	10.0	11.6	13.0	20.7
Sundried tomatoes								
Canada	2017	59	9.8 ± 5.5	2.4	6.0	9.2	13.0	38.0
MEAN			9.8 ± 5.5	2.4	6.0	9.2	13.0	38.0
Vegetable juice								
Canada	2017	60	5.5 ± 4.3	0.0	1.3	5.3	9.6	13.8
MEAN			5.5 ± 4.3	0.0	1.3	5.3	9.6	13.8

An usas aquiect into in the root acter into accertainment in updates on packages root and everage items to the corresponding country, uses presented as mean? standard deviation. The root accertainment is updated as the packages root and everage items to the corresponding country, uses presented as mean? standard deviation. The root accertainment is updated as the packages root and everage items to the corresponding country, uses presented as mean? Standard deviation. The root accertainment is updated as the packages root and user root and use of the packages root and user root accertainment is used. The packages root and user root accertainment is used to be a packages root and user root accertainment is used. The packages root and user root accertainment is used to be a packages root and user root accertainment is used. The packages root and user root accertainment is used to the packages root and user root accertainment is used. The packages root and user root accertainment is used to be a package root and user root accertainment is used. The packages root are root accertainment is used to be a package root and user root accertainment is used. The packages root are root accertainment is used to be a package root and user root accertainment is used. The packages root are root accertainment in the package root and user root accertainment is used. The packages root are root accertainment in the package root are root accertainment. The packages root are root accertainment in the package root are root accertainment. The packages root are root accertainment in the packages root are root accertainment. The packages root are root accertainment in the packages root are root accertainment. The packages root are root accertainment in the packages root are root accertainment. The packages root are root accertainment in the package root are root accertainment. The packages root are root accertainment in the packages root are root accertainment. The packages root are root accertainment and root are root accertainment. T Table 8.1 Processed meat and poultry – Updated food subcategories and sodium reduction targets

Table 8.1 Processed meat	and poultry – Updated food	l subcategories and sodium reduction	on targets																		
	Current Regional Targets	Mean Sodium Content of Foods in the Americas (mg/100 g) ^b	Sodium Target	ts (mg/100 g)	Mean Sodium Content Americas (mg,		Sodium Targ	gets (mg/kcal)	wнo					al Sodium Reduction	on Targets				FOPL Thre	esholds (mg/100	ა g)°
											US-FDA		United Kingdom			Me	ember State	Targets ^d	1		
	2015 PAHO Targets 2015 Targets (mg/100 g) met [1] "	25th Percentile Median 75th Percentil	e 2022	2025	25th Percentile Median	75th Percentile	2022	2025	mg/100 g	-	Proposed 10- year Targets (2026)[2]	2024 [3]	2017 [3]	UK 2017 Targets met [4]	Min	Median	Max	Countries with Targets	Min	Median	Max
8a Packaged deli meats – fully	cooked	(Data from 2013, 2017, 2018)	1		(Data from 201	7)															
Regional Target		793 857 1169	728	600	5.7 7.5	8.3	6.4	5.3		Maximum	1095		-	-	862	1180	1350	Brazil, Canada, Colombia, Costa	300	400	500
Lower Target		755 657 1165	720	000	3.7 7.3	0.3	0.4	3.3	N/A	Target	798		-	-	810	850	910	Rica, USA			
Updated Targets			900	800			6.6	5.7													
8b Packaged dry-cured deli me thermal process	eats – dry cured, fermented, no	(Data from 2013, 2017, 2018)			(Data from 201	7)															
Regional Target	<u> </u>	1216 1583 1829	1346	1108	3.5 3.8	4.5	3.2	2.6		Maximum	1730	-	-		1140	1400	2000	Argentina, Canada, USA	300	400	500
Lower Target									950	Target	1300	-	-	-	1080	1455	1900		l .		
Updated Targets			1350	1200			3.6	3.5											<u> </u>		
8c Sausages – uncooked		(Data from 2017)			(Data from 2017,	1018)															
Regional Target	<u> </u>	- 691 -	587	484	2.4 2.6	3.6	2.2	1.8		Maximum	680	638	650	56% ^a	660	665	670	Argentina, Brazil, Canada, USA	300	400	500
Lower Target			j					ĺ	230	Target	550	515	525	No ^f	690	903	970	Argentina, brazii, canada, osa	£		
Updated Targets			600	500			2.5	2.4											l .		
8d Sausages – cooked		(Data from 2013, 2016, 2017, 2018)			(Data from 2017,	1018)													L		
Regional Target		769 908 952	771	635	2.7 3.2	4.0	2.7	2.2		Maximum	975	655	690	96% ^a	853	1355	1425	Argentina, Brazil, Canada,	300	400	500
Lower Target									540	Target	740	520	550	-	720	830	850	Colombia, Costa Rica, USA	1		
Updated Targets			840	770			3.0	2.7													
8e Uncooked bacon – belly		(Data from 2013, 2016)											ction cured bacon, eg sli unsmoked bacon, bacon								
Regional Target		588 820 1039	697	574	1.2 1.7	1.9	1.4	1.2		Maximum	600	-	-	N/A	-	610		Canada	300	400	500
Lower Target									N/A	Target	450	1035	1150	No ^f	-	580	-				
Updated Targets			700	590			1.4	1.2													
<u> </u>	af, and breaded meat and poultry	(Data from 2013, 2017, 2018)																			
Regional Target		498 581 675	494	407	1.6 2.4	2.9	2.0	1.7		Maximum	590	335	350	61% ^g	470	675	808	Argentina, Brazil, Canada,	300	400	500
Lower Target									N/A	Target	420	270	300	-	450	510	570				
Updated Targets			540	500			2.0	1.7													
^{8g} and smoked meats that are	ultry, and uncooked, pickled, cured, e not deli meats	(Data from 2013, 2016, 2017, 2018)			(Data from 203	7)															
Regional Target		789 1039 1426	883	727	3.4 4.9	6.0	4.1	3.4		Maximum	1455	-	-	N/A	470	1160	3000	Brazil, Canada, Colombia, Costa	300	400	500
Lower Target									900	Target	1100	650	650	-	340	815	1800	Rica, USA			
Updated Targets			915	790			4.1	3.4													<i>.</i>
8h Patés and meat spreads		(Data from 2013, 2018)	ļ		(Data from 201	7)															
Regional Target		717 759 875	645	531	2.1 2.7	2.9	2.3	1.9		Maximum		-	-	-	-	600		Canada	300	400	500
Lower Target								i	N/A	Target	-	-	-	-	-	570	-				
Updated Targets			720	600			2.4	2.1											t		

^{*}Proportion of products in 14-country study [1] meeting PAHO Regional Sodium Reduction Targets," Mean sodium content calculated from wailable national sodium monitoring data (Tables 8.2 and 8.3); Calculated as the average of relevant subcategories, "Data extracted from latest approved national sodium many illustrate distinct subcategory targets;" Data extracted from final [proposed, accepted or implemented] national front-of-package "high in" or "excess" sodium thresholds for prepackaged foods in Appendix 3b, "Is proportion of products in 2018 at or below maximum.

Table 8.2 Sodium content for proposed processed meat and poultry subcategories – mg/100 g

Table 612 South Content for proposes	Year	n	Average Sodium	Average Sodium	1g/ 100 g	9	odium Percen	ntiles (mg/100g	g)	
			(mg/serving)		Min	10 th	25 th	50 th	75 th	Max
Packaged deli meats – fully cooked	1									
Argentina [13]	2018	172	-	1079	115	-	785	993	1282	3623
Canada [5]	2013	147	545 ± 206	919 ± 205	394	667	800	891	1055	1436
United States (SWA) [11] ^a	2017	36	-	921	625	-		921	-	1235
Costa Rica [8]	2018	622	-	622 ± 75	569	-		623	-	675
MEAN			545 ± 206	885	426	667	793	857	1169	1742
Packaged dry-cured deli meats – dry cured, ferme							,			,
United States (SWA) [11]	2017	13	-	1712 ± 182	1320	-	-	1712	-	1950
Canada [5] ^b	2013	118	548	1502	572	893	1216	1455	1829	2464
MEAN			548	3046	946	893	1216	1583	1829	2207
Sausages – uncooked										
Canada (SWA) [14]	2017	-	-	691	-	-	-	691	-	-
MEAN			-	691	-	-		691		-
Sausages – cooked										
Costa Rica [8] ^c	2018	20	-	1741	418	-	-	996	-	3772
Mexico [12]	2016	82	-	884 ± 204	70	-	807	897	982	1500
United States (SWA) [11] ^d	2017	30	-	910	717	-		910	-	1036
Canada [5]	2013	141	589 ± 216	814 ± 195	254	571	730	827	921	1436
MEAN			589 ± 216	1087	365	571	769	908	952	1936
Uncooked bacon – belly										
Mexico [12]	2016	21	-	1027 ± 585	90	-	600	1000	1318	2133
Canada [5]	2013	35	344 ± 136	649 ± 173	298	389	575	640	760	1038
MEAN			344 ± 136	838	194	389	588	820	1039	1586
Burgers, meatballs, meatloaf, and breaded meat	and poultry	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>		<u> </u>	
Canada [5] ^e	2013	234	569	497	97	325	388	471	585	1080
Argentina [7, 13]	2018	59	-	684	294	-	651	718	771	866
United States (SWA) [11	2017	15	-	529 ± 47	449	-	-	529	-	679
Costa Rica [7]	2018	20	-	732 ± 240	375	-	543	740	904	1139
Paraguay [7]	2018	1	-	668	668	-	668	668	668	668
Peru [7]	2018	39	-	340 ± 159	1	-	241	360	446	630
MEAN			569	575	314	325	498	581	675	844
Ham, canned meat and poultry, and uncooked, p	ickled, cured, a	nd smoked mea	its that are not	deli meats	·					
Argentina [7]	2018	40		1634 ± 655	115		1373	1504	1740	3623
Costa Rica [7, 8] ^E	2018	57		1160	318		536	1054	2093	2376
Paraguay [7]	2018	30		1045 ± 555	295		658	904	1256	2423
United States [6]	2013	9		1112 ± 21 ^h	606			1112		2020
Canada [S]	2013	12	566 ± 277	818 ± 176	500	560	731	835	925	1107
Mexico [12]	2016	43	-	1255 ± 738	500	-	745	995	1580	2900
Canada [5]	2013	23	492 ± 173	836 ± 240	280	558	692	867	960	1404
MEAN	2313	23	492 1 1 / 3	1266	373	559	789	1039	1426	2265
	1		423	4400	3/3	533	, 65	2039	1420	2203

Patés and meat spreads										
Argentina [13]	2018	15	-	760	260	-	700	750	950	1050
Canada	2013	13	223 ± 32	751 ± 65	615	-	733	767	800	829
MEAN			223 ± 32	756	438	-	717	759	875	940

24.2 \$ 279 \$85 940.

Data presented as mean 2 standard deviation. Sales weighted average (DWA), Data calculated as weighted average (Twan deli mark of "Han deli mark and turkey deli meat," Packaged deli meats—dry course, fermented, no thermal process, and meat sticks and jerky, "Sausages and salchichon," Beef hoddigs and pork sausages, "Burgers, meatballs, and meat load, breaded meat and poultry, and chicken wings," Namburger, and breaded meat and poultry, "Cured and preserved meats, and ham." Data presented as standard error of the mean, "Data acquired from the Food Label Information Program (PLP) disabases for packaged food and beverage terms for the corresponding country (amphibited).

Table 8.3 Sodium content for proposed Processed meat and poultry subcategories – mg/kcal

	Year	n	Average Sodium		Sodium	Percentiles (n	ng/kcal)	
			(mg/kcal)	Min	25 th	50 th	75 th	Max
Packaged deli meats – fully cooked								
Canada	2017	123	7.0 ± 2.0	2.3	5.7	7.5	8.3	11.6
MEAN			6.0	2.3	5.7	7.5	8.3	11.6
Packaged dry-cured deli meats – dry cured, ferme	nted, no therm	al process						
Canada	2017	33	3.6 ± 0.9	2.3	3.3	3.5	4	7
Canada	2017	15	5.0 ± 1.6	3.5	4	4.3	5.7	9.8
WEIGHTED MEAN		48	4.0	2.7	3.5	3.8	4.5	7.9
Sausages – uncooked								
Canada	2017	39	3.1 ± 1.1	1.6	2.4	2.6	3.6	5.5
MEAN			3.1 ± 1.1	1.6	2.4	2.6	3.6	5.5
Sausages – cooked								
Canada	2017	98	3.5 ± 1.2	1.5	2.7	3.2	4	9.7
MEAN			3.5 ± 1.2	1.5	2.7	3.2	4.0	9.7
Uncooked bacon – belly								
Canada	2017	38	1.7 ± 0.8	0.7	1.2	1.7	1.9	5.6
MEAN			1.7 ± 0.8	0.7	1.2	1.7	1.9	5.6
Burgers, meatballs, meatloaf, and breaded meat a	and poultry							
Argentina	2018	17	1.8 ± 0.6	0.3	1.7	2.0	2.2	2.5
Costa Rica	2018	20	3.5 ± 1.2	1.5	2.7	3.6	4.2	5.7
Paraguay	2018	33	2.2 ± 1.6	0.3	0.5	2.1	3.0	6.4
Peru	2018	39	2.2 ± 1.3	0.0	1.4	2.4	2.9	5.6
Canada	2017	185	2.0	0.3	1.5	1.8	2.3	5.6
MEAN			2.3	0.5	1.6	2.4	2.9	5.2
Ham, canned meat and poultry, and uncooked, pi	ckled, cured, a	nd smoked mea	ts that are not	deli meats				
Argentina	2018	40	5.8 ± 6.9	0.3	3.8	4.2	4.8	42.3
Canada	2017	106	5.1 ± 1.6	2.5	4	4.7	5.8	9.5
Costa Rica	2018	8	5.6 ± 2.6	2.3	2.8	6.5	7.5	9.1
Paraguay	2018	67	4.8 ± 2.7	0.4	2.9	4.1	5.9	11.8
MEAN			5.3	1.4	3.4	4.9	6.0	18.2
Patés and meat spreads								
Canada	2017	25	2.6 ± 0.8	0.8	2.1	2.7	2.9	4.1
MEAN			2.6 ± 0.8	0.8	2.1	2.7	2.9	4.1
All data acquired from the Food Label Information Progr	ram (FLIP) databa	se for packaged	food and beverag	e items for the co	rresponding cour	ntry; Data present	ed as mean ± sta	ndard deviation.

data acquired from the Food Label Information Program (FLIP) database for packaged food and beverage items for the corresponding country; Data presented

Table 9.1 Processed fish and seafood – Updated food subcategories and sodium reduction targets

Table 9.1 Processes	eu jisn u	па ѕейјос	и – оришес	i joou subcu	itegories uni	a soaium rea	luction targ	eis																		
	•	Current Reg	ional Targets		um Content of ericas (mg/10		Sodium Tar	gets (mg/100 g)	Mean Sodium Ame	Content of F ricas (mg/kca		Sodium Targe	ets (mg/kcal)	wнo			N	lational Soc	dium Red	uction Targ	gets (mg/10	00 g)°		FOPL Thre	esholds (m	g/100 g)
		2015 PAHO														US-FDA	Ur	nited Kingdon	n		Membe	er State Tai	rgets ^d			
		Targets (mg/100 g)	2015 Targets met [1] °	25th Percentile	Median	75th Percentile	2022	2025	25th Percentile	Median	75th Percentile	2022	2025	mg/100 g	-	Proposed 10- year Targets (2026)[2]	2024 [3]	2017 [3]	UK 2017 Targets met [4]	Min	Median	Max	Countries with Targets	Min	Median	Max
9a Canned fish				(Da	ita from 2013, 2017,	2018)				(Data from 2017)																
Regional	al Target	-	-	278	355	458	302	249	1.9	2.4	3.0	2.0	1.7		Maximum	390	570	600	-	400	465	530	Canada, USA	300	400	500
Lower	er Target	-	-	270	333	430	302	243	2.5	2.4	3.0	2.0	4.7	360	Target	260	328	340	-	250	320	330	cunda, our			
Updated T	Targets						320	280				2.2	1.9													
9b Phosphate	and seafor	od with adde	ed sodium		(Data from 2013)					(Data from 2017)																
Regional	al Target	-	-	247	420	528	357	294	2.3	3.6	5.8	3.1	2.5		Maximum	370	-	-	-	-	570	-	Canada	300	400	500
Lower	er Target	-	-	247	420	328	337	294	2.3	3.0	3.8	3.1	2.3	N/A	Target	310	-	-	-	-	220	-	Canada			
Updated T	Targets						350	300				3.1	2.5													
9c Fish and seafood or ba					(Data from 2013)					(Data from 2017)								and meal centre breaded fish)	es (includes							
Regional	al Target	-	-	275	333	420	283	233	1.5	1.9	3.1	1.6	1.3		Maximum	530	360	380	88% ^f	560	560	560	Canada, USA	300	400	500
Lower	er Target	-	-	2/3	333	420	283	233	1.3	1.9	3.1	1.0	1.5	270	Target	370	240	250	N/A	330	445	560	Canada, OSA			
Updated T	Targets						310	280				1.7	1.5													
9d Smoked, salted, pi	pickled, an	d kippered f	ish	(Dar	ita from 2013, 2017,	2018)			(Da	ta from 2017, 2018))															
Regional	al Target	-	-	358	634	886	539	444	1.9	3.1	5.1	2.6	2.1		Maximum		-	-	-	1000	1015	1030	Canada	300	400	500
Lower	er Target	-	-	338	034	880	339	444	1.5	3.1	3.1	2.0	2.1	800	Target	-	-	-	-	540	575	610	Canada			
Updated T	Targets		•				540	440				2.6	2.1													

^{*}Proportion of products in 14-country study [1] meeting PAHO Regional Sodium Reduction Targets; "Mean sodium content calculated from available national sodium monitoring data (Tables 9.2 and 9.3); *Calculated as the average of relevant subcategories; *Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; "Data extracted from final (proposed, accepted or implemented) national front-of-package "high in" or "excess" sodium thresholds for prepackaged foods in Appendix 3b; "Proportion of products at or below maximum.

Table 9.2 Sodium content for proposed processed fish and seafood subcategories – mg/100 g

	Year	n	Average Sodium	Average Sodium		5	odium Percent	iles (mg/100g	:)	
			(mg/serving)	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Canned fish										
Argentina [13] ^a	2018	44	-	358	195	-	250	340	439	649
Canada [5] ^b	2013	167	291	482	40	209	306	371	478	4511
United States (SWA) [11] ^c	2017	18		194 ± 35	112	-	-	-	-	242
MEAN			164 ± 61	289	116	117	278	355	458	1801
Frozen plain fish and seafood with adde	d sodium phos	phate								
Canada [5] ^d	2013	30	459 ± 208	408 ± 168	125	224	247	420	528	690
MEAN			459 ± 208	408 ± 168	125	224	247	420	528	690
Fish and seafood cakes, fingers or burge	rs, seasoned, a	nd breaded or	battered or with	sauces						
Canada [5] ^e	2013	12	425 ± 130	355 ± 113	248	248	290	323	368	588
Canada [5] ^f	2013	50	763 ± 1906	740 ± 1679	100	199	259	343	472	8796
WEIGHTED MEAN		62	594	548	174	224	275	333	420	4692
Smoked, salted, pickled and kippered fis	h ^g									
Canada [5] ^h	2013, 2017	38	486	760	280	-	601	772	937	1218
Paraguay	2018	7	399 ± 197	562 ± 305	235	-	340	601	650	1152
Argentina	2018	7	401 ± 186	777 ± 260	307	-	649	833	1000	1000
Peru	2018	2	288 ± 407	576 ± 814	1	-	1	576	1152	1152
Costa Rica	2018	20	343 ± 298	491 ± 409	80	-	200	387	691	1786
MEAN			383	633	181		358	634	886	1262

Data presented as mean ± standard deviation. Sales weighted average (SWA). *Calculated as weighted average of canned tuna, canned mackeret, and canned sardines subcategories; *Calculated as weighted average of canned tuna and other canned fish and seatlood subcategories; *Canned tuna; *Seatlood with sodium phosphate, *Fish or seatlood of burger; *Seasoned or stuffed fish and seatlood. *Data acquired from the Cord Label Information Program (Filly) database for packaged flood and beverage feems for the corresponding country (unpublished); *Canupublished); *Canupu

Table 9.3 Sodium content for proposed processed fish and seafood subcategories – mg/kcal

	Year	n	Average Sodium		Sodium	Percentiles (mg/kcal)	
			(mg/kcal)	Min	25 th	50 th	75 th	Max
Canned fish								
Canada ^a	2017	53	2.4 ± 0.9	0.7	1.9	2.4	3.0	5.3
MEAN			2.4 ± 0.9	0.7	1.9	2.4	3.0	5.3
Frozen plain fish and seafood with adde	d sodium phos	phate						
Canada	2017	51	4.2 ± 2.7	0.4	2.3	3.6	5.8	12.8
MEAN			4.2 ± 2.7	0.4	2.3	3.6	5.8	12.8
Fish and seafood cakes, fingers or burge	rs, seasoned, a	nd breaded or	battered or with	sauces				
Canada	2017	143	3.6 ± 8.9	0.4	1.5	1.9	3.1	76.5
MEAN			3.6 ± 8.9	0.4	1.5	1.9	3.1	76.5
Smoked, salted, pickled, and kippered fi	sh							
Canada ^b	2017	48	4.0	1.1	2.2	2.9	5.1	27.1
Paraguay	2018	7	3.7 ± 1.6	2.2	2.2	3.6	5.8	5.9
Argentina	2018	7	4.7 ± 2.6	1.8	3.8	4.0	5.6	10.0
Peru	2018	2	2.9 ± 4.1	0.0	0.0	2.9	5.8	5.8
Costa Rica	2018	20	2.4 ± 1.9	0.6	1.1	1.9	3.2	7.7
MEAN			3.5	1.1	1.9	3.1	5.1	11.3

All data acquired from the Food Label Information Program (FUP) database for packaged food and beverage items for the corresponding country; Data presented as mean ± standard deviation. "Canned tuns;" Calculated as weighted average of kippered fish and smoked fish subcategories.

Table 10.1 Soy products and meat alternatives – Updated food subcategories and sodium reduction targets

Tuble 10.1 30y products and n	meat anternatives		,																					
C	Current Regional Targets		m Contents o ericas (mg/10		Sodium Targ	ets (mg/100 ;)		Contents of for ricas (mg/kcal		Sodium (mg/		wнo				Nationa	I Sodium Re	duction Ta	rgets (mg/1	100 g)°		FOPL Thr	esholds (m	g/100 g)°
											-			US-FDA	U	nited Kingdo	m		Meml	ber State Tar	gets ^d			
Ta	15 PAHO 2015 Targets argets met [1] amet [1]	25th Percentile	Median	75th Percentile	2022	2025	25th Percentile	Median	75th Percentile	2022	2025	mg/100 g		Proposed 10- year Targets (2026)[2]		2017 [3]	UK 2017 Targets met [4]	Min	Median	Max	Countries with Targets	Min	Median	Max
10a Seasoned tofu and tempeh			(Data from 2013)				(1	Data from 2017)																
Regional Target		282	337	400	286	236	1.7	2.4	3.8	2.0	1.7		Maximu	m 320	475	500	68% ^f	-	530	-	Canada	300	400	500
Lower Target		202	337	400	280	230	1.7	2.4	3.0	2.0	1.7	280	Targe	t 240	340	360	N/A	-	100	-	Callada			
Updated Targets					350	320				2.0	1.7													
10b Meat analogues and other meat	t alternatives		(Data from 2013)				(1	Data from 2017)																
Regional Target		409	473	565	402	331	2.2	2.8	4.0	2.4	2.0		Maximu	m 320	593	625	68% ^f	580	580	580	Canada, USA	300	400	500
Lower Target		403	4/3	303	402	331	2.2	2.0	4.0	2.4	2.0	250	Targe	t 240	340	360	N/A	380	410	440	Callada, OSA			
Updated Targets					410	370				2.5	2.2													

*Proportion of products in 14-country study [1] meeting PAHO Regional Sodium Reduction Targets," Mean sodium content calculated from available national sodium monitoring data (Tables 10.2 and 10.3); *Calculated as the average of relevant subcategories; *Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; *Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; *Data extracted from latest approved national front-of-package "high in" or "excess" sodium thresholds for prepackaged foods in Appendix 3b; *Proportion of products at or below maximum.

Table 10.2 Sodium content for proposed soy products and meat alternatives subcategories – ma/100 a

rubie 10.2 Soulum content for p	iroposeu so	y products	ana meat ai	ternutives s	ubcategori	es – mg/ 100	g			
	Year	n	Average Sodium	Average Sodium		5	Sodium Percent	iles (mg/100g	s)	
			(mg/serving	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Seasoned tofu and tempeh										
Canada [5]	2013	3	297 ± 51	340 ± 59	282	282	282	337	400	400
MEAN			297 ± 51	340 ± 59	282	117	282	337	400	400
Meat analogues and other meat alterna	tives									
Canada [5]	2013	70	409 ± 132	524 ± 177	290	332	409	473	565	1020
MEAN			409 ± 132	524 ± 177	290	332	409	473	565	1020

Data presented as mean ± standard deviation.

Table 10.3 Sodium content for proposed soy products and meat alternatives subcategories – mg/kcal

	Year	n	Average Sodium		Sodium	Percentiles (mg/kcal)	
			(mg/kcal)	Min	25 th	50 th	75 th	Max
Seasoned tofu and tempeh								
Canada	2017	4	2.8 ± 1.4	1.7	1.7	2.4	3.8	4.6
MEAN			2.8 ± 1.4	1.7	1.7	2.4	3.8	4.6
Meat analogues and other meat alterna	tives							
Canada	2017	68	3.2 ± 1.4	1.4	2.2	2.8	4.0	7.1
MEAN			3.2 ± 1.4	1.4	2.2	2.8	4.0	7.1

All data acquired from the Food Label Information Program (FUP) database for packaged food and beverage items for the corresponding country; Data presented as mean ± standard deviation.

Table 11.1 Soups – Updated sodium reduction taraets

Table 11.1 Soups – Up	pdated si	odium reducti	on targets																						
	Current	Regional Targets	:	ium Contents mericas (mg/1	of foods in the .00 g) ^b	Sodium Targ	ets (mg/100 g)		n Contents of for ericas (mg/kcal)		Sodium Targ	gets (mg/kcal)	who				National S	Sodium Red	duction Ta	rgets (mg/1	100 g)°		FOPL Thr	esholds (mg	/100 g) ^e
	2015 PAI	HO 2015 Taraets													US-FDA	U	nited Kingdo	om		Memi	ber State Ta	rgets ^d			
	Targets (mg	g/100 2015 Target: met [1] °	25th Percentile	e Median	75th Percentile	2022	2025	25th Percentile	Median	75th Percentile	2022	2025	mg/100 g		Proposed 10- year Targets (2026)[2]	2024 [3]	2017 [3]	UK 2017 Targets met [4]	Min	Median	Max	Countries with Targets	Min	Median	Max
11a Wet and dry soups (as	s consumed	I)		(Data from 2013, 20	015) ^C			(D.	ata from 2017, 2018)																
Regional Target	360	59%	228	305	465	259	214	7.7	10.8	13.8	9.2	7.6		Maximum	283	235	250	87% ^f	290	330	360	Argentina, Brazil,	300	400	500
Lower Target	306	43%	110	303	403	233		,.,	10.0	13.0	5.2	7.0	253	Target	217	200	210	Yes ^g	230	235	240	Canada, USA			
Updated Targets						260	230				9.2	7.7													
11b Noodles in broth (as o	onsumed)			(Data from 2017, 2	018)			(D.	ata from 2017, 2018)																
Regional Target	430	82%	210	391	416	332	274	4.0	5.5	6.6	4.7	3.9		Maximum	283	235	250	87% ^f	290	330	360	Argentina, Brazil,	300	400	500
Lower Target	360	55%	316	391	410	332	274	4.5	3.3	0.0	4.7	3.9	230	Target	217	200	210	Yes ^g	230	235	240	Canada, USA			
Updated Targets						330	275				5.2	4.9													

^{*}Proportion of products in 14-country study [1] meeting PAHD Regional Sodium Reduction Targets, *Mean sodium content calculated from available national sodium monitoring data (Tables 11.2 to 11.6), *Calculated as the average of as consumed soup overall; *Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; *Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; *Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; *Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; *Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; *Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; *Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; *Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; *Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; *Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; *Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; *Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; *Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; *Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; *Data extracted from latest approved natio

Table 11.2 Sodium content for soups (overall) - mg/100 g

	Year	n	Average Sodium	Average Sodium		Sc	odium Percent	iles (mg/100g)		
			(mg/serving)	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Argentina	2015	79	204 ± 341	884 ± 1417	2	25	247	327	964	5900
Brazil	2015	80	110 ± 86	310 ± 203	1	71	119	309	421	794
Chile	2015	81	101 ± 85	244 ± 125	35	71	154	205	366	439
Costa Rica	2015	84	178 ± 144	417 ± 206	17	170	276	370	640	737
Cuba	2015	17	35 ± 36	150 ± 139	15	30	86	94	124	460
Ecuador	2015	60	184 ± 169	548 ± 260	3	274	387	533	760	1368
Guatemala	2015	79	240 ± 195	422 ± 157	90	264	314	370	538	754
Jamaica	2015	90	190 ± 122	420 ± 407	0	181	251	329	421	3467
Mexico	2015	80	129 ± 111	268 ± 230	12	19	35	193	412	796
Panama	2015	71	137 ± 112	341 ± 109	54	195	293	317	391	607
Paraguay	2015	31	95 ± 91	333 ± 143	205	230	257	295	306	766
Peru	2015	94	164 ± 110	339 ± 114	18	245	280	330	382	885
Trinidad and Tobago	2015	98	203 ± 130	403 ± 176	43	189	281	372	527	771
Barbados	2015	80	162 ± 128	355 ± 204	13	165	238	285	429	1053
Canada [5] [#]	2013	183	670	250	46	135	204	247	301	481
United States [6]	2013	83	772 ± 14.5 ^b	756 ± 8.2 ^b	248	-	-	-	-	2300
MEAN			223	403	50	151	228	305	465	1349

All data was from Arcand J et al. Nutrients (2019) and represents 2015 data, unless otherwise indicated; Data presented as mean ± standard deviation. *Canadian data was calculated as the weighted average of as

Table 11.3 Sodium content for wet and dry soups (as consumed) – mg/100 g

	Year	n	Average Sodium	Average Sodium		Sc	odium Percent	iles (mg/100g)		
			(mg/serving)	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Canned condensed soup (as consume	d)									
Canada [5]	2013	77	647 ± 151	250 ± 57	128	186	194	248	298	399
Ready to serve soup (as consumed)										
Canada [5]	2013	147	579 ± 204	228 ± 83	8	137	188	234	256	536
Dry soup mixes (as consumed)										
Canada [5]	2013	54	675 ± 163	268 ± 81	5	168	243	260	310	463
WEIGHTED MEAN			616	242	41	157	200	243	278	484

Data presented as mean ± standard deviation.

Table 11.4 Sodium content for noodles in broth (as consumed) – mg/100 g

	Year	n	Average Sodium	Average Sodium		So	dium Percent	iles (mg/100g)		
			(mg/serving)	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Argentina [7]	2018	9	-	488 ± 113	330	-	385	550	570	625
Costa Rica [7]	2018	13	-	408 ± 67	308	-	351	406	448	528
Paraguay [7]	2018	4	-	299 ± 8	288	-	298	302	304	306
Peru [7]	2018	20	-	328 ± 157	173	-	238	305	342	900
Canada [10]	2017	93	-	233 ± 110	6	-	-	-		632
United States (SWA) [11]	2017	44	-	1874 ± 124	1560	-	-	-	-	2130
MEAN			-	605	444	-	318	391	416	854

Data presented as mean ± standard deviation. Sales weighted average (SWA).

Table 11.5 Sodium content for wet and dry soups (as consumed) – mg/kcal

rubic 11.5 Soulum content jo	wet und t	ny soups (us	consumeu	mg/ kcui					
	Year	n	Average Sodium		Sodium	Percentiles (m	g/kcal)		Proportion below PAHO Nutrient Profile Model
			(mg/kcal)	Min	25 th	50 th	75 th	Max	threshold ^a
Argentina	2018	49	14.3 ± 9.6	1.6	10.0	12.4	15.3	70.6	0%
Costa Rica	2018	80	15.6 ± 14.4	2.7	6.6	12.1	17.1	84.0	0%
Paraguay	2018	22	14.1 ± 5.6	5.2	10.2	13.0	15.6	26.3	0%
Peru	2018	-	-	-	-	-	-	-	-
Canada	2017	253	6.9 ± 7.1	0.2	4.1	5.7	7.3	89.0	0.8%
MEAN			12.7	2.4	7.7	10.8	13.8	67.5	N/A

All data acquired from the Food Label Information Program (FUP) database for packaged food and beverage items for the corresponding country; Data presented as mean ± standard deviation. *Products evaluated against the 2016 PAHO Nutrient Profile Model threshold for excess sodium (1 mg/kcal) only included products classified as processed or ultra-processed.

Table 11.6 Sodium content for noodles in broth (as consumed) - mg/kcal

	Year	n	Average Sodium		Sodium	Percentiles (m	g/kcal)		Proportion below PAHO Nutrient Profile Model
	i cui		(mg/kcal)	Min	25 th	50 th	75 th	Max	threshold "
Argentina	2018	9	3.8 ± 0.7	2.4	3.7	4.1	4.2	4.5	0%
Costa Rica	2018	13	4.4 ± 0.5	3.7	4.1	4.3	4.8	5.1	0%
Paraguay	2018	4	11.6 ± 2.5	9.1	10.0	11.1	13.2	15.1	0%
Peru	2018	20	5.1 ± 2.0	1.3	3.8	4.6	6.0	11.1	100%
Canada	2017	112	4.3 ± 2.5	0.9	2.9	3.5	4.7	16.2	0.5%
MEAN			5.8	3.5	4.9	5.5	6.6	10.4	N/A

Table 12.1 Ready-made foods, convenience foods, and mixed dishes – Updated food subcategories and sodium reduction target

Table 12.1 Read	y-made foods, c	onvenience foods	, and mixed d	lishes – Up	dated food s	ubcategorie	s and sodiur	n reduction	targets														
		Current Regional Targets		m Content of ericas (mg/10	f Foods in the 00 g) ^b	Sodium Targ	ets (mg/100 g)		um Content onericas (mg/	of Foods in the 'kcal) ^b	Sodium (mg/	Targets (kcal)	wнo				Nati	onal Sodium R	eduction Targe	ets (mg/100 g) ^c		FOPL Thres	holds (mg/100 g) ^e
		2015 PAHO 2015 Targets Targets	25th Percentile	Median	75th	2022	2025	25th Percentile	e Median	75th Percentile	2022	2025	mg/100 g		US-FDA	Unite	d Kingdom			Member State Ta	rgets ^d	Min N	edian Max
		(mg/100 g) met [1]	Surrection	Wedan	Percentile	2022	2023	Surrescende	Median	73di Fercencie	2022	2023	mg/100 g		Proposed 10- year Targets (2026)[2]	2024 [3] 2	UK 201 017 [3] Target met [4	s Min	Median	Max	Countries with Targets		- Hox
12a Canned chili				(Data from 2013)					(Data from 201)	7)													
	Regional Target		252	272	316	231	190	2.4	2.7	3.0	2.3	1.9		Maximum	350			330	330	330	Canada, USA	300	400 500
	Lower Target												N/A	Target	220	-		220	250	280			
	Updated Targets					260	250				2.5	2.4										<u> </u>	
12b Canned stew an				(Data from 2013)					(Data from 201)	7}													
	Regional Target		439	500	580	425	350	2.7	3.8	4.4	3.2	2.7	***	Maximum	350			-	630	-	Canada		400 500
	Lower Target												225	Target	220	-			410			•	
Pasta nondles	Updated Targets	th sauce or seasoning:				470	440	1			3.2	2.7				1					1	1	
12c (as consumed)	and nice of grains wi	til sauce or seasoning:	(0	Data from 2013, 20:	18)			1	(Data from 2017, 2)	1018)													
2015 pasta and noodles (as	Regional Target	640 92%	347	384	429	326	269	1.7	2.1	2.8	1.8	1.4		Maximum	350 ^r	253	320 84% a.	440	1140	1840 (instant pasta/noodles, Brazil)	Brazil, Canada	300	400 500
consumed) PAHO target	Lower Target	440 88%											230	Target	220 ^f	205	235 N/A	270	415	560			
	Updated Targets					330	300				1.9	1.7											
12d (dry mix, as solo		th sauce or seasoning:	(C	Data from 2017, 20:	18)				(Data from 2018	8)													
2015 pasta and noodles (dry,	Regional Target Lower Target		801	935	1572	794	654	2.5	2.8	5.5	2.4	2.0	770	Maximum Target	770 490	-		-			N/A		400 500
uncooked) PAHO -	Updated Targets					870	800				2.6	2.5											
12e Stuffing mixes ((Data from 2013)		i		Ĭ .															
	Regional Target Lower Target		433	496	600	422	347	-		-	-		N/A	Maximum Target	-	-		-	630 500		Canada		400 500
	Updated Targets					470	430				N/A	N/A	N/A	ranger		************			500				
12f Pizza and pizza	.,		(Date)	ta from 2013, 2016,	2018)	470	430	*************	(Data from 201)	71	N/A	N/A				*************		···•					
121 Tato uno piato	Regional Target Lower Target		466	522	644	443	365	1.8	2.1	2.5	1.8	1.5	450	Maximum Target			500 87%		610 400	610	Canada, USA	300	400 500
	Updated Targets						470						430	larget	285	380	400 N/A	390	400	450		-	
12g Sandwiches	updated Targets		Due	ta from 2013, 2016,	20191	500	470		(Data from 201)	vi	1.9	1.8											
12g SandWiches	Regional Target													Maximum	517	450	475 N/A	610	610	610		300	400 500
	Lower Target		466	522	644	443	365	1.8	2.1	2.5	1.8	1.5	430	Target			315 N/A		400	450	Canada, USA	200	-00 300
	Updated Targets					500	470				1.9	1.8	1	inger			323						
12h Refrigerated or	.,	des, and entrées							(Data from 201)								***************************************						
	Regional Target Lower Target		482	681	933	578	476	1.5	1.9	2.5	1.6	1.3	320	Maximum Target	290 180	355 258	380 88% s	340 220	420 300	500 400	Canada, USA	300	400 500
-	Updated Targets					575	480				1.7	1.5	320	rarget	180	436	230 NO	220	300	400			
			¥**********	******		11 -77	.00	B	**********			1.5		<u> </u>	************	4 ××××××××××××××××××××××××××××××××××××	*******	***			-k	· \$ ~~~~~~~~	******

Updates largests

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The poportion of butter products in 14 country study [1] meeting PAHO Regional Sodium Reduction Targets." Mean sodium content calculated from final [proposed, accepted or implemented] national front-of-package "high in" of "excess" sodium thresholds for prepackaged foods in Appendix 3a and may illustrate distinct subcrategory targets." Data extracted from final [proposed, accepted or implemented] national front-of-package "high in" of "excess" sodium thresholds for prepackaged foods in Appendix 3a and may illustrate distinct subcrategory targets." Data extracted from final [proposed, accepted or implemented] national front-of-package "high in" of "excess" sodium thresholds for prepackaged foods in Appendix 3b; "Targets for shelf stable canned meals, e.g., pasts in sauce with or without meat, full, and based beens with or without meat, full means with or without meat, full

Table~12.2~Sodium~content~for~proposed~ready-made~foods,~convenience~foods,~and~mixed~dishes~subcategories-mg/100~g

			Average	Average			Sodium Percen	tiles (mg/100g)	
	Year	n	Sodium	Sodium						
			(mg/serving)	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Canned chili							•			
Canada [5]	2013	21	737 ± 130	293 ± 75	177	196	252	272	316	437
MEAN			737 ± 130	293 ± 75	177	196	252	272	316	437
Canned stew and meatballs										
Canada [5]	2013	7	940 ± 283	519 ± 94	439	439	439	500	580	700
MEAN			940 ± 283	519 ± 94	439	439	439	500	580	700
Pasta, noodles, and rice or grains w	ith sauce or:	seasonings (as consumed)							
Canada [5] ^a	2013	293	540	293	80	-	243	279	335	712
Costa Rica [7]	2018	19	-	360 ± 82	233	-	286	359	440	464
Paraguay [7]	2018	120	497 ± 422	545 ± 513	0	513	513	513	513	2035
MEAN			519	399	104	513	347	384	429	1070
Pasta, noodles, rice or grains with:	auce or seas	onings (dry r	nix, as sold)							
Canada ^b	2017	108	438 ± 171	968 ± 379	320	-	702	900	1163	2350
Argentina [7]	2018	7		1453 ± 777	841	-	899	969	1981	2599
MEAN			-	1210	581	-	801	935	1572	2475
Stuffing mixes (as consumed)										
Canada [5]	2013	16	574 ± 276	488 ± 126	151	350	433	496	600	756
MEAN			574 ± 276	488 ± 126	151	350	433	496	600	756
Pizza, pizza snacks, and frozen sand	lwiches ^c									
Argentina [13]	2018	21	-	709	178	-	562	611	844	1332
Mexico [12]	2016	51	-	483 ± 119	272	-	407	473	547	934
Canada [5]	2013	54	571 ± 135	488 ± 89	338	376	430	481	542	716
United States [6]	2013	5	-	574 ± 6.9 ^d		-		-		-
MEAN			571 ± 135	564	263	376	466	522	644	994
Refrigerated or frozen appetizers,	ides, and ent	rées				•	•		•	
Argentina [13] ^e	2018	140	-	1040	21		732	1044	1445	2222
Canada [5]	2013	779	554 ± 261	348 ± 168	18	189	231	317	421	1214
Colombia [15] ^f	2016	424	-	2246 ± 4314		-		-		-
MEAN			-	1205	20	-	482	681	933	1718

Data presented as mean 2 standard deviation. Sales weighted nerage (DWA), "Colculated weighted nerage of pasts and modifies with savez, and seasoned rice and pairs subchargency." Data acquired from the Food Label Information Program (FLP) database for packaged food and beverage items for the corresponding country (unpublished)." Data available only as combined category." Presented as standard error of the mean," Calculated as weighted werage of appetizers, ready-made meals, and pre-cooled meals categories, "Convenience foods (e.g., ready to set foods, which may also include passa).

Table 12.3 Sodium content for proposed ready-made foods, convenience foods, and mixed dishes subcategories – mg/kcal

	Year	n	Average Sodium		Sodiur	n Percentiles	mg/kcal)						
			(mg/kcal)	Min	25 th	50 th	75 th	Max					
Canned chili													
Canada	2017	13	3.0 ± 1.1	2.0	2.4	2.7	3.0	6.4					
MEAN			3.0 ± 1.1	2.0	2.4	2.7	3.0	6.4					
Canned stew and meatballs													
Canada	2017	20	3.7 ± 1.1	1.9	2.7	3.8	4.4	6.0					

MEAN			3.7 ± 1.1	1.9	2.7	3.8	4.4	6.0					
Pasta, noodles, and rice or grains w	ith sauce or :	easonings (a	s consumed)		•	•	•						
Canada	2017	148	2.4 ± 0.8	0.0	1.8	2.2	2.7	5.2					
Costa Rica	2018	18	2.1 ± 0.7	1.2	1.7	1.9	2.7	3.4					
Paraguay	2018	201	2.2 ± 1.4	0.0	1.5	2.1	2.9	7.2					
MEAN			2.2	0.4	1.7	2.1	2.8	5.3					
Pasta, noodles, and rice or grains with sauce or seasonings (dry mix, as sold)													
Argentina [7]	2018	7	3.8 ± 1.5	2.4	2.5	2.8	5.5	5.9					
MEAN			3.8 ± 1.5	2.4	2.5	2.8	5.5	5.9					
Stuffing mixes (as consumed)													
N/A				-		-							
MEAN			-		-	-	-						
Pizza, pizza snacks, and frozen sand	lwiches												
Canada	2017	204	2.1 ± 0.5	1.1	1.8	2.1	2.5	4.3					
MEAN			2.1 ± 0.5	1.1	1.8	2.1	2.5	4.3					
Refrigerated or frozen appetizers, s	ides and ent	rées											
Canada ^a	2017	553	2.1	0.2	1.5	1.9	2.5	8.8					
MEAN			2.1	0.2	1.5	1.9	2.5	8.8					

All data acquired from the Food Label Information Program (FLIP) database for packaged food and beverage items for the corresponding country, Data presented as me a standard deviation. a Calculated as weighted average of Refrigerated or frozen appetizers/sides/entrees with a serving size greater than 170g, and less than 170g.

Table 13.1 Fresh or dried plain pasta and noodles – Updated sodium reduction target

	able 13.1 Fresh or ari	eu piuiii p	ustu unu no	ouies – opi	iuteu sou	iuiii reuuctii	ni turgets																	
		Current Re	egional Targets		ium Conter nericas (mg	nt of Foods in g/100 g) ^b	Sodium Targe	ets (mg/100 g)	Mean Sodiu the An	ım Content nericas (mg/		Sodium Tar	gets (mg/kcal)	wно		Na	ational Sodi	um Reduct	on Targets	(mg/100 g) ^c		FOPL Th	resholds (mg	g/100 g) ^e
		2015 PAHO	2015 Taraets												US-FDA		United Kingde	om		Member State	Fargets ^d			
		Targets (mg/100 g		25th Percentile	Median	75th Percentile	2022	2025	25th Percentile	Median	75th Percentile	2022	2025	mg/100 g	Proposed 10 year Targets (2026)[2]		2017 [3]	UK 2017 Targets met [4]	Min I	Median Max	Countries with Targets	Min	Median	Max
1	Plain pasta and noodle	es (as consu	med or dry,	(1	lata from 2013,	2018)			(Da	ta from 2017, 201	118)					(Pasta an	d noodles, plain a	nd flavoured)						
	uncooked)			,-		,			(==		,					(
Г	Regional Target	-	-	0	4	15	2	2	0.0	0.0	0.0	0.0	0.0		Maximum -	230	350	94%	-		N/A	300	400	500
Γ	Lower Target	-	-	0	4	15	3	3	0.0	0.0	0.0	0.0	0.0	N/A	Target -	170	200	N/A	-		N/A			
	Updated Targets						0	0				0.0	0.0											

^{*}Proportion of butter products in 14-country study [1] meeting PAHO Regional Sodium Reduction Targets,* Mean sodium content calculated from available national sodium monitoring data (Tables 13.2 and 13.3);* Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets,* Data extracted from final (proposed, accepted or implemented) national Front-of-Package "high in" or "excess" sodium thresholds for prepackaged foods in Appendix 3b; "Proportion of products at or below maximum.

Table 13.2 Sodium content for plain pasta and noodles (as consumed or dry, uncooked) - mg/100 g

	Year	n	Average Sodium	Average Sodium		Sodi	um Percenti	les (mg/100g	g)	
			(mg/servin	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Costa Rica [7]	2018	168	-	78 ± 266	0	-	0	0	3	2040
Paraguay [7]	2018	432	-	140 ± 416	0	-	0	10	35	2666
Canada ^a	2013	432	22 ± 80	23 ± 83	0	-	0	1	6	912
MEAN			22 ± 80	80	0	-	0	4	15	1873

Data presented as mean ± standard deviation. * Data acquired from the Food Label Information Program (FUP) database for packaged food and beverage items for the corresponding country (unpublished).

Table 13.3 Sodium content for plain pasta and noodles (as consumed or dry, uncooked) – mg/kcal

	Year	n	Average Sodium		Sodium	Percentiles (mg	/kcal)		Proportion below PAHO Nutrient Profile Model
			(mg/kcal)	Min	25 th	50 th	75 th	Max	threshold ^a
Costa Rica	2018	166	0.2 ± 0.8	0.0	0.0	0.0	0.0	5.1	92.8%
Paraguay	2018	433	0.4 ± 1.1	0.0	0.0	0.0	0.1	6.1	88.7%
Canada	2017	437	0.1 ± 0.4	0.0	0.0	0.0	0.0	5.3	96.8%
MEAN			0.2	0.0	0.0	0.0	0.0	5.5	N/A

All data acquired from the Food Label Information Program (FLIP) database for packaged food and beverage items for the corresponding country; Data presented as mean ± standard deviation. *Products evaluated against the 2016 PAHO Nutrient Profile Model threshold for excess sodium (1 mg/kzal) included only products classified as processed or ultra-processed.

Table 14.1 Granola and energy bars, and nut butters/spreads - Updated food subcategories and sodium reduction target

Table 14.1 Granola and energy bars, and i	nut butters/spreuas – opuatea jooa :	subcategories ana souit	ini reduction targets					
Current Regional Targets	Mean Sodium Content of Foods in the Americas (mg/100 g) ^b	Sodium Targets (mg/100 g)	Mean Sodium Content of Foods in the Americas (mg/kcal) ^b	Sodium Targets (mg/kcal)	wно	National Sodium Redu	ction Targets (mg/100 g) ^c	FOPL Thresholds (mg/100 g) ^e
2015 PAHO 2015 Targets						US - FDA United Kingdom	Member State Targets ^d	
Targets (mg/100 g) met [1] °	25th Median 75th Percentile Percentile	2022 2025	25th Percentile Median 75th Percentile	2022 2025	mg/100 g	Proposed 10- year Targets 2024 [3] 2017 [3] Targets (2026)[2] met [4]	Min Median Max Countries with Targets	Min Median Max
14a Granola, cereal, and energy bars	(Data from 2013, 2017, 2018)		(Data from 2017)					
Regional Target	146 201 249	171 141	0.3 0.6 0.8	0.5 0.4		Maximum 310	- 340 - Canada	300 400 500
Lower Target	146 201 249	1/1 141	0.3 0.6 0.8	0.5	N/A	Target 190	- 180 -	
Updated Targets		170 150		0.5 0.4				
14b Nut butters and nut spreads	(Data from 2013)		(Data from 2017)					
Regional Target	300 357 433	303 250	0.0 0.3 0.6	0.3 0.2		Maximum 430	- 430 - Canada, USA	300 400 500
Lower Target	337 433	303 230	0.0 0.0	0.3	N/A	Target 300	300 320 340 Callada, USA	
Updated Targets		330 300		0.3 0.2				

^{*}Proportion of butter products in 14-country study [1] meeting PAHO Regional Sodium Reduction Targets.* Mean sodium content calculated from available national sodium monitoring data (Tables 14.2 and 14.3); *Calculated as the average of relevant subcategories, *Data extracted from latest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; *Data extracted from final (proposed, accepted or implemented) national front-of-package "high in" or "excess" sodium thresholds for prepackaged foods in Appendix 3b.

Table 14.2 Sodium content for proposed granola and energy bars, and nut butters/spreads subcategories – mg/100 g

	Year	n	Average Sodium	Average Sodium			Sodium Percent	iles (mg/100g	;)	
			(mg/serving)	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Granola, cereal, and energy bars										
Argentina [13]*	2018	40	-	160	0	-	105	159	194	604
Canada [5]	2013	200	83 ± 36	254 ± 99	16	150	187	243	304	553
Canada (SWA) [14] ^b	2017	-	-	407	-	-	-	-	-	
MEAN			83 ± 36	274	8	150	146	201	249	579
Nut butters and nut spreads										
Canada [5]	2013	35	54 ± 17	343 ± 114	109	188	300	357	433	667
MEAN			54 ± 17	343 ± 114	4 109 188 300 357 433 66					

Data presented as mean ± standard deviation. Sales weighted average (SWA). * Cereal bars; * Sweet and salty bars.

 ${\it Table~14.3~Sodium~content~for~proposed~granola~and~energy~bars,~and~nut~butters/spreads~subcategories-mg/kcalloger and and anti-proposed granola~and~energy~bars,~and~nut~butters/spreads~subcategories-mg/kcalloger and anti-proposed granola~and~energy~bars,~and~nut~butters/spreads~subcategories-mg/kcalloger and~and~energy~bars,~and~nut~butters/spreads~subcategories-mg/kcalloger and~and~anomaly~bars,~and~anomaly~bars,~anomaly~bars$

	Year	n	Average Sodium		Sodium	Percentiles (mg/kcal)					
			(mg/kcal)	Min	25 th	50 th	75 th	Max				
Granola, cereal, and energy bars												
Canada	2017	400	0.6 ± 0.3	0.0 0.3 0.6 0.8 1.9								
MEAN			0.6 ± 0.3	0.0	0.3	0.6	0.8	1.9				
Nut butters and nut spreads												
Canada	2017	101	0.4 ± 0.5	0.0	0.0	0.3	0.6	4.0				
MEAN			0.4 ± 0.5	0.0 0.0 0.3 0.6								

All data acquired from the Food Label Information Program (FLIP) database for packaged food and beverage items for the corresponding country; Data presented as mean standard deviation.

Tuble 15.1 Futs und ons	Opuute	a jood sabcat	egomes a	ana sourani	readerion to	gcts																			
	Current R	egional Targets		odium Conte Americas (m	nt of Foods in g/100 g) ^b		Targets 100 g)		lium Conten Americas (៣រូ	t of Foods in g/kcal) ^b		Targets /kcal)	wнo				National S	odium Redu	uction Tar	gets (mg/1	00 g) ^c		FOPL Th	resholds (m	g/100 g)°
	2015 PAH														US-FDA		United Kingdor	n		Mer	mber State 1	'argets ^d			
	Targets (mg/100 g	2015 Targets	25th Percentile	le Median	75th Percentile	2022	2025	25th Percentile	Median	75th Percentile	2022	2025	mg/100 g		Proposed 10- year Targets (2026)[2]	2024 [3]	2017 [3]	UK 2017 Targets met [4]	Min	Median	Max	Countries with Targets	Min	Median	Max
15a Salted butter, margarin	e, and butte	r blends		(Data from 2013,	2015) ^f			-	Data from 2017, 21	018)															
Regional Targe	t 800	84%	457	576	718	490	403	0.5	1.0	1.5	0.8	0.7		Maximum	655	568	610	76% ⁹	800	800	800	Brazil, Canada, USA	300	400	500
Lower Targe	t 500	37%	437	370	/10	430	403	0.5	1.0	1.3	0.0	0.7	400	Target	480	445	488	-	480	510	570	Brazil, Carlada, USA			
Updated Target	s					510	460				0.8	0.7													
15b Mayonnaise				(Data from 2013,	. 2015)			-	Data from 2017, 21	018)															
Regional Targe	t 1050	94%	598	750	857	637	525	1.8	2.7	3.6	2.3	1.9		Maximum	610	500	500	67% ⁹	833	840	1051	Argentina, Brazil, Canada,	300	400	500
Lower Targe	t 670	38%	330	750	837	037	323	1.0	2.7	3.0	2.3	1.9	500	Target	450	-	-	-	530	550	570	USA			
Updated Target	s					670	600				2.3	1.9													
15c Salad dressing and vina	igrette			(Data from 2017	, 2018)				Data from 2017, 20	018)															
Regional Targe	t -	-	736	909	1280	772	636	0.6	2.7	5.1	2.3	1.9		Maximum	920	570	600	77% ⁹	1130	1130	1130	Canada, USA	300	400	500
Lower Targe	t -	-	730	303	1280	.,,2	330	0.0	2.7	3.1	23	1.9	500	Target	590	-	-	-	690	725	760	Curioda, OSA			
Updated Target	5					800	730				2.3	1.9													

^{*}Proportion of butter products in 14-country study [1] meeting PAHO Regional Sodium Reduction Targets; "Mean sodium content calculated from available national sodium monitoring data [Tables 15.2 to 15.9]; "Calculated as the average of relevant subcategories;" Data extracted from linest approved national sodium targets in Appendix 3a and may illustrate distinct subcategory targets; "Data extracted from final (proposed, accepted or implemented) national front-of-package "high in" or "excess" sodium thresholds for prepackaged foods in Appendix 3b, 'Calculated as the average of butter and mangarine/other spreads subcategories (See Table 15.2); *Proportion of products at or below maximum.

Table 15.2 Sodium content for salted butter, margarine, and butter blends – mg/100 g

	Year	n	Average Sodium	Average Sodium	_	Soc	lium Percen	tiles (mg/10	10g)	
			(mg/servin	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Salted butter ^a										
Argentina	2015	23	21 ± 23	199 ± 228	0	20	45	120	230	720
Brazil	2015	50	71 ± 27	710 ± 267	170	396	563	705	853	1750
Chile	2015	50	39 ± 18	545 ± 221	9	280	415	571	617	1171
Costa Rica	2015	43	125 ± 302	553 ± 362	0	86	368	600	679	2000
Cuba	2015	1	36 ± 0	511 ± 0	511	511	511	511	511	511
Ecuador	2015	32	103 ± 186	732 ± 1330	0	0	27	500	946	7636
Guatemala	2015	68	84 ± 66	672 ± 681	0	14	428	705	785	4200
Jamaica	2015	30	79 ± 42	595 ± 251	0	348	525	625	714	1000
Mexico	2015	46	30 ± 72	297 ± 259	0	10	159	200	495	1020
Panama	2015	51	84 ± 37	594 ± 258	0	0	595	640	750	930
Paraguay	2015	17	48 ± 34	484 ± 339	96	132	200	470	670	1110
Peru	2015	18	141 ± 179	1079 ± 1238	20	120	413	786	1173	5000
Trinidad and Tobago	2015	28	281 ± 366	781 ± 400	0	459	573	714	841	1733
Barbados	2015	50	82 ± 53	564 ± 286	0	200	473	620	710	1790
Canada [5]	2013	19	67 ± 18	664 ± 188	71	550	600	600	800	950
MEAN			86	599	58	208	393	558	718	2101
Salted margarine										
Brazil [9]	2017	46	-	544 ± 207	10	-	-	600	-	1070
Mexico [12]	2016	22	-	586 ± 182	400	-	440	530	735	920
Canada [5]	2013	49	65 ± 9	653 ± 93	300	600	600	650	700	850
MEAN			65 ± 9	594	237	600	520	593	718	947
OVERALL MEAN			76	597	148	404	457	576	718	1524

Data presented as mean ± standard deviation. * Data from Arcand J et al. Nutrients (2019)[1] unless otherwise indicated.

Table 15.3 Sodium content for mayonnaise – mg/100 g

	Year	n	Average Sodium	Average Sodium		Soc	lium Percen	itiles (mg/10	00g)	
			(mg/servin	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Argentina	2015	18	107 ± 26	856 ± 145	558	622	786	903	948	1067
Brazil	2015	33	107 ± 24	881 ± 208	375	545	792	975	1025	1100
Chile	2015	30	96 ± 25	759 ± 187	400	547	627	769	921	1031
Costa Rica	2015	34	114 ± 26	754 ± 162	373	493	617	833	867	933
Cuba	2015	6	80 ± 33	525 ± 140	354	374	413	531	633	696
Ecuador	2015	26	106 ± 142	559 ± 206	11	393	438	539	643	1133
Guatemala	2015	29	101 ± 37	702 ± 272	36	469	533	733	867	1250
Jamaica	2015	11	84 ± 27	571 ± 165	333	393	393	633	706	767
Mexico	2015	37	176 ± 182	763 ± 186	505	551	600	733	867	505
Panama	2015	25	105 ± 25	745 ± 213	370	490	627	770	870	1400
Paraguay	2015	18	109 ± 16	915 ± 120	610	741	883	942	988	1075
Peru	2015	20	107 ± 58	789 ± 388	96	344	598	733	1000	2000
Trinidad and Tobago	2015	20	88 ± 43	594 ± 298	0	303	400	647	713	1400
Barbados	2015	30	105 ± 30	826 ± 626	500	518	600	670	800	4000
Canada[5]	2013	124	129 ± 38	834 ± 225	267	533	656	833	1000	1467
United States[6] ^a	2013	4	-	779 ± 4 ^b	518	-	-	-	-	1060
MEAN			108	741	332	488	598	750	857	1305

Table 15.4 Sodium content for salad dressing and vinaigrette – mg/100 g

	Year	n	Average Sodium	Average Sodium		Soc	lium Percen	tiles (mg/10	10g)	
			(mg/servin	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Salad dressing and vinaigrette										
Canada [5]	2013	167	146 ± 67	864 ± 381	12	406	688	867	1000	2600
Argentina [13]	2018	168	-	1493	0		783	950	1559	7333
MEAN			146 ± 67	1179	6	406	736	909	1280	4967

Data presented as mean ± standard deviation. Sales weighted average (SWA). * Includes tomato-based pasta/pizza sauce, cream sauce, and pesto subcategories; *Canadian data was calculated as the weighted average of dips and salsa, hummus, and legume-based dips, and gravy and cooking sauces subcategories; *Sauces, dressings, and spreads; *Data for condiments subcategory (includes mustard).

Table 15.5 Sodium content for salted butter and margarine (overall) – mg/kcal

	Year	n	Average Sodium		Sodium P	ercentiles (mg/kcal)		Proportion below PAHO Nutrient
			(mg/kcal)	Min	25 th	50 th	75 th	Max	Profile Model
Argentina	2018	38	0.5 ± 0.5	0.0	0.1	0.4	0.9	2.0	78.9%
Costa Rica	2018	44	1.2 ± 0.7	0.0	0.8	1.2	1.7	2.8	38.6%
Paraguay	2018	40	1.6 ± 2.1	0.0	0.2	0.8	1.6	6.1	95%
Peru	2018	18	1.6 ± 1.4	0.0	0.7	1.5	2.0	5.7	88.9%
Canada	2017	61	1.0 ± 0.3	0.5	0.9	1.0	1.1	2.0	59%
MEAN			1.2	0.1	0.5	1.0	1.5	3.7	N/A

All data acquired from the Food Label Information Program (FLIP) database for packaged food and beverage items for the corresponding country, Data presented as mean ± standard deviation. * Products evaluated against the 2016 PAHO Nutrient Profile Model threshold for excess sodium (1 mg/kcal) included only products classified as processed or ultra-processed.

Table 15.6 Sodium content for salted butter - mq/kcal

	Year	n	Average Sodium		Sodium F	ercentiles (mg/kcal)	
			(mg/kcal)	Min	25 th	50 th	75 th	Max
Argentina	2018	19	0.2 ± 0.3	0.0	0.1	0.1	0.2	1.2
Costa Rica	2018	13	0.7 ± 0.6	0.0	0.1	0.7	1.0	1.8
Paraguay	2018	14	0.2 ± 0.2	0.0	0.0	0.1	0.2	0.8
Peru	2018	9	0.8 ± 0.9	0.0	0.0	0.7	1.7	2.1
Canada*	2017	28	1.0 ± 0.2	0.6	0.8	1.0	1.1	1.7
MEAN			0.6	0.1	0.2	0.5	0.8	1.5

All data acquired from the Food Label Information Program (FLIP) database for packaged food and beverage items for the corresponding country; Data presented as mean ± standard deviation. * Salted butter and butter blends.

Table 15.7 Sodium content for salted margarine - mg/kcal

	Year	n	Average Sodium		Sodium F	ercentiles (mg/kcal)	
			(mg/kcal)	Min	25 th	50 th	75 th	Max
Argentina	2018	19	0.9 ± 0.5	0.0	0.4	0.8	1.3	2.0
Costa Rica	2018	31	1.5 ± 0.6	0.4	1.1	1.3	2.0	2.8
Paraguay	2018	26	2.4 ± 2.3	0.0	0.8	1.2	5.4	6.1
Peru	2018	9	2.3 ± 1.5	1.3	1.4	1.6	2.0	5.7
Canada*	2017	33	1.1 ± 0.4	0.5	0.9	1.0	1.1	2.0
MEAN			1.6	0.4	0.9	1.2	2.4	3.7

All data acquired from the Food Label Information Program (FLIP) database for packaged food and beverage items for the corresponding country; Data

Table 15.8 Sodium content for mayonnaise – mg/kcal

Tubic 13.0 Soundin content for	Year	n n	Average Sodium		Sodium F	ercentiles (mg/kcal)		Proportion below PAHO Nutrient
			(mg/kcal)	Min	25 th	50 th	75 th	Max	Profile Model
Argentina	2018	35	3.4 ± 1.2	1.6	2.7	3.2	4.1	7.8	0%
Costa Rica	2018	32	3.0 ± 3.0	0.8	1.3	2.3	3.4	17.7	12.5%
Paraguay	2018	55	3.8 ± 1.5	0.6	2.7	4.0	4.1	7.2	1.8%
Peru	2018	13	2.7 ± 2.6	0.0	0.8	1.8	3.4	8.5	100%
Canada	2017	188	2.3 ± 1.4	0.2	1.3	2.0	2.9	9.5	19.1%
MEAN			3.0	0.6	1.8	2.7	3.6	10.1	N/A

All data acquired from the Food Label Information Program (FLIP) database for packaged food and beverage items for the corresponding country; Data presented as mean ± standard deviation. *Products evaluated against the 2016 PAHO Nutrient Profile Model threshold for excess sodium (1 mg/kcal) included only products classified as processed or ultra-processed.

Table 15.9 Sodium contents for salad dressing and vinaigrette - mg/kcal

Table 15.9 Soaium contents for	saiaa aress	ing ana vi	naigrette ·	– тд/ксаі				
	Year	n	Average Sodium		Sodium P	ercentiles (mg/kcal)	
			(mg/kcal)	Min	25 th	50 th	75 th	Max
Salad dressing and vinaigrette								
Costa Rica	2018	115	5.0 ± 10.8	0.0	0.1	2.5	4.2	94.2
Paraguay	2018	35	4.4 ± 4.0	0.0	1.6	3.4	7.5	20.0
Canada	2017	235	3.2 ± 5.9	0.0	0.1	2.1	3.5	41.7
MEAN			4.2	0.0	0.6	2.7	5.1	52.0

All data acquired from the Food Label Information Program (FLIP) database for packaged food and beverage items for the corresponding country; Data presented as mean ± standard deviation. "Includes tomato-based pasta/pizza sauce," Cream sauce; "Tomato sauce and puree, "Dips and salas," Hummus and legume—based dips; 'Gravy and cooking sauces; 'Bota for condiments subscriptory (may include mustard).

Table 16.1 Sauces, dips, g	ravy, and condiments	 Updated 	food subcate	gories and so	odium reduc	ction target	s														
		Mean So	dium Content of	Foods in the	Sodium Tar	gets (mg/100	Mean Sodi	ium Content of Food													
	Current Regional Target	S A	mericas (mg/10	00 g) ^b		g)	in the Ar	mericas (mg/kcal) ^b	Sodium Ta	rgets (mg/kcal)	WHO				Na	ational Sodic	ım Reduction	Targets (mg/100 g) ^c		FOPL Thr	esholds (mg/100 g) ^e
						1				1			US-FDA	Un	ited Kingdom			Member S	itate Targets ^d		
	2015 PAHO Targets (mg/100 g) 2015 Target met [1] °	25th Percent	tile Median	75th Percentile	2022	2025	25th Percentile	Median 75th Percentile	2022	2025	mg/100 g	-	Proposed 10- year Targets (2026)[2]	2024 [3]		UK 2017 argets met	Min Me	dian Max	Countries with Targets	Min	Median Max
16a Bouillon cubes and powde	rs (as sold)		(Data from 2017, 201	18)			(Dat	ta from 2017, 2018)		,			1 11					(as consumed)			
Regional Target		15869	14679	22237	12477	10275	34.8	80.0 97.0	68.0	56.0		Maximum ^f	390	360	380	89% ^ç		35 1025 (20500 - dr		a 300	400 500
Lower Target					18000						15000	Target [']	280	285	300	No	240 2	50 260	(dry-mix), USA		
Updated Targets	S		(Data from 2013)		18000	16000	0	(Data from 2017)	68.0	56.0											
Regional Target		292	372	468	316	260	4.0	5.1 6.1	4.3	3.6		Maximum	500	330	370	83% ^g		616	Canada, Costa Rica, USA	300	400 500
Lower Target Updated Targets					330	300			4.5	4.0	330	Target	305	270	300	Yes ^h	320 3	55 410			
16c Pesto	•		(Data from 2013)		330	300	0	(Data from 2017)	4.5	4.0											
Regional Target		570	956	1267	813	669	1.2	2.2 3.9	1.9	1.5		Maximum	640	620	650	68% °	- 11	60 -	Canada	300	400 500
Lower Target		570	956	1267	813	009	1.2	2.2 3.9		ļ.	650	Target	450	520	550	N/A	- 7	70 -	Canada		
Updated Targets					800	640			1.9	1.5											
16d Tomato sauce Regional Target		-	(Data from 2013, 201	,			<u> </u>	(Data from 2017)	-	,		Maximum	570				490 4	90 490		300	400 500
Lower Target		231	351	385	298	245	3.5	6.7 10.0	5.7	4.7	230	Target	370		-			90 330	Canada, USA	300	400 300
Updated Targets					300	240			5.7	4.7											
Ketchup and similar tomat	o-type condiments (as		(Data from 2013, 2017,	2018)			0	(Data from 2017)													
consumed) Regional Target				,		i	· ·			ī		Maximum	1050 ^b	650	680	62% 9	980 9	90 1400		300	400 500
Lower Target		783	819	1000	696	573	6.8	7.5 11.0	6.4	5.3	650	Target	760 ^b	-	-	-	660 7		Argentina, Canada, Costa Rica, US		400 200
Updated Targets					800	780			7.1	6.8											
16f Mustard			(Data from 2017, 201	18)			(Dat	ta from 2017, 2018)													
Regional Target		886	1150	1634	978	805	8.6	11.8 16.7	10.0	8.3		Maximum	1050	720	-	-		00 1400	Canada, USA	300	400 500
Lower Target Updated Targets					1000	890			10.2	8.6	650	Target	760	-		-	660 7	50 860			
16g Spicy sauce	<u> </u>		(Data from 2017, 201	18)	1000	830	(Dat	ta from 2017, 2018)	10.2	8.0			Condiments	Chillis	sauce, Thick pastes			Curry paste			
Regional Target		652	1315	2116	1118	920	5.3	25.2 40.9	21.4	17.7		Maximum	1050	1288	1500	-	- 33	. 00	Canada	300	400 500
Lower Target		031	1313	2220			3.3	23.2 40.3		į.	N/A	Target	760	1235	1300	-	- 13	00 -	Cariada		
Updated Targets	5				1100	900			21.4	17.7											
16h Gravy, cooking sauces, dip			(Data from 2013, 2016,	2018)			0	(Data from 2017)													
Regional Target		291	413	520	351	289	2.4	4.1 9.1	3.5	2.8	350	Maximum Target	627 446	365 303	410 340	87% ⁹ N/A	670 6 400 4	70 670 65 530	Canada, USA	300	400 500
Updated Targets					350	300			3.5	2.8	330	ranget	440	303	340	N/A	400 4	530			
16i Sweet oriental sauces			(Data from 2013)				0	(Data from 2017)													
Regional Target		181	250	560	213	175	0.8	1.5 3.8	1.3	1.1		Maximum	1690	1150	-	-		50 -	Canada	300	400 500
Lower Target						i .				ì	360	Target	700	-	-	-	- 1				
Updated Targets 16i Soya and other salty orient			(Data from 2013)		220	180		(Data from 2017)	1.3	1.1											
Regional Target		1					+			1		Maximum	5870		-	- 1	- 43	00 -		300	400 500
Lower Target		1919	3433	5800	2918	2403	5.6	11.6 49.2	9.9	8.1	N/A	Target	4250	-	-	-		00 -	Canada		
Updated Targets	5				2900	2400			9.9	8.1										1	
16k Marinades (as consumed)		-	(Data from 2013)			,	0	(Data from 2017)	-									00 -			400 500
Regional Target		1067	2133	2867	1813	1493	5.5	16.7 22.7	14.2	11.7	N/A	Maximum Target		-	-			00 -	Canada	300	400 500
Updated Targets					1800	1500			14.2	11.7	.,,	ranger									
16I Dry seasoning mixes for ric		1	(Data from 2017, 201	18)			(Dat	ta from 2017, 2018)				1									
Regional Target		8000	17698	25350	15043	12389	9.4	15.4 29.8	13.1	10.8		Maximum	19800		-	-	9100 26		Brazil, Canada, Costa Rica, USA* (*p	er 300	400 500
Lower Target						į					N/A	Target	9800	-	-	-	- 51	.00 -	serving)		
Updated Targets 16m Dry seasoning mixes for me			(Data from 2017, 201	18)	10000	8000	IDst	ta from 2017, 2018)	13.1	10.8											
Regional Target						8405				1		Maximum	19800	-		-	23000 23	000 23000		300	400 500
Lower Target		5745	12007	15658	10206	8405	15.6	32.8 50.4	27.9	23.0	N/A	Target	9800	-	-		- 12		Canada, Costa Rica		
Updated Targets	3				10000	8000			27.9	23.0											

*Proportion of butter products in 14-country study [1] meeting PAND (Egonal Sodium Reduction Targets, "Mean sodium content calculated from male fraibles 16.2 to 5.9 §" Calculated as the average of relevant subcategories," Data extracted from literal approved as and may illustrate distinct subcategory targets," Data extracted from final (proposed, accepted or implemented) national fornt-of-package "high in" or "excess" sodium thresholds for prepackaged foods in Appendix 30," Targets for prepared bouillon, broth and stocks (as consumed) unless otherwise specified, "Proportion of products in 2018 at or below maximum within 5% of average sodium target" ["target"].

Table 16.2 Sodium content for proposed Sauces, dips, gravy, and condiments subcategories – mg/100 g

Table 16.2 Sodium content f	or proposed suc	ices, uips, gi			ocuregones	mg/100 g				
	Year	n	Average Sodium	Average Sodium		Sodi	ium Percent	iles (mg/10	0g)	
			(mg/serving)	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Pasta sauce	•		•				•	•	•	
Canada [5] ^a	2013	228	413 ± 141	430 ± 292	70	248	292	372	468	3600
MEAN			413 ± 141	430 ± 292	70	248	292	372	468	3600
Pesto										
Canada[5]	2013	15	369 ± 223	916 ± 377	267	283	570	956	1267	1400
MEAN			369 ± 223	916 ± 377	267	283	570	956	1267	1400
Tomato sauce										
Canada[5]	2013	17	272 ± 193	297 ± 177	15	23	231	308	385	736
Costa Rica (8) ^b	2018	93	-	462 ± 265	0	-	-	393	-	1857
MEAN			272 ± 193	380	8	23	231	351	385	1297
Ketchup			•							
Canada [5]	2013	20	132 ± 36	877 ± 237	300	533	783	933	1000	1400
Costa Rica [8]	2018	19	-	685 ± 337	140	-	-	627	-	1187
United States (SWA) [11] ^c	2017	18	-	897 ± 28	860	-	-	897	-	981
MEAN			132 ± 36	820	433	533	783	819	1000	1189
Gravy, cooking sauces, dips, and sale	sa (as consumed)									
Canada [S] ^d	2013	446	289	537	28	286	368	490	640	2046
Argentina [13]	2018	46	-	348	0	-	214	335	400	1320
Colombia [15] ^e	2016	636	-	1108 ± 1491	-	-	-	-	-	-
MEAN			289	664	14	286	291	413	520	1683
Sweet oriental sauces										
Canada [5]	2013	29	163 ± 114	429 ± 350	90	100	181	250	560	1421
MEAN			163 ± 114	429 ± 350	90	100	181	250	560	1421

Soya and other salty oriental sauces										
Canada [5]										
	2013	62	689 ± 350	3783 ± 2443	283	700	1919	3433	5800	9600
MEAN			689 ± 350	3783 ± 2443	283	700	1919	3433	5800	9600
Marinades (as consumed)										
Canada [5]	2013	59	368 ± 235	2022 ± 1101	12	633	1067	2133	2867	4867
MEAN			368 ± 235	2022 ± 1101	12	633	1067	2133	2867	4867
Mustard ^f										
Canada	2017	62	78 ± 36	1436 ± 707	0	-	943	1226	2200	2830
Peru	2018	4	168 ± 102	1460 ± 567	1000	-	1095	1280	1825	2280
Paraguay	2018	20	212 ± 473	927 ± 531	80	-	583	829	1150	2200
Argentina	2018	9	113 ± 50	940 ± 419	542	-	750	750	833	1667
Costa Rica	2018	19	380 ± 580	1562 ±800	79	-	1061	1667	2161	2700
MEAN			190	1265	340	-	886	1150	1634	2335
Spicy sauce ^f										
Canada	2017	69	269 ± 219	1993 ± 1059	40	-	1175	1921	2604	4583
Peru	2018	13	303 ± 807	1401 ± 1270	9	-	365	1400	1680	4200
Argentina	2018	7	299 ± 302	2943 ± 4468	100	-	750	1530	3120	16060
Costa Rica	2018	41	189 ± 334	1805 ± 3267	0	-	370	923	1667	18967
Mexico [16]	2017	301	-	1224 ± 1197	1	233	600	800	1507	8570
MEAN			265	1873	30	233	652	1315	2116	10476

Data presented as mean a standard deviation. Sales weighted average (SWA), "Includes tomato-based pasta/pizza sauce, cream sauce, and pesto subcategories," Canadian data was calculated as the weighted average of disps and sales, humans, and legume-based disps, and gray and cooking sauces subcategories," Sauces, dressings, and spreads," Data acquired from the Food Label Information Program (FLP) database for packaged food and beverage terms for the corresponding country (unpublished).

Table 16.3 Sodium content for bouillon cubes and powders a - mg/100 g

Table 16.3 Soaium Content	i jor bouilloi	n cubes and	powaers	– mg/ 100 g						
	Year	n	Average Sodium	Average Sodium		Sodi	um Percentile	es (mg/100g)	
			(mg/serving	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Argentina [7]	2018	22	-	20309 ± 7964	2000	-	13968	20387	25140	33813
Brazil [9]	2017	35	-	952 ± 88	668	-	-	967		1057
Costa Rica [7, 8] ^b	2018	31	-	18553	1000	-	19200	20302	21200	25852
Paraguay [7]	2018	6	-	17201 ± 3491	3491	-	14440	17060	20370	20760
MEAN			-	14254	1790	-	15869	14679	22237	20371
Broth, as consumed										
Canada [5]	2013	110	608 ± 284	264 ± 114	16	61	213	264	350	494

All data was from Arcand Jet al. Nutrients (2019) and represents 2015 data, unless otherwise indicated; Data presented as mean standard deviation. "Data are shown for both day and as consumed bouillon cubes and/or powders. In Canada, bouillon cubes are categorised as soups but in many countries they are used as condiments." Data calculated as weighted average of published data.

Table 16.4 Sodium content for dry seasoning mixes for rice and side dishes – ma/100 a

Tuble 10.4 Soululli Content	i joi ury seu	soning mix	es jui rice ui	iu siue uisiie	3 - 111y/ 100	y				
	Year	n	Average Sodium	Average Sodium		Sod	ium Percentile	s (mg/100g)	
			(mg/serving	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max
Brazil [9] ^a	2017	5	-	28505 ± 5238	20340	-	-	31260		32700
Costa Rica [8]	2018	8	-	16269 ± 9755	6000	-	8000	14622	25350	28000
Canada [10] ^b	2017	189	-	7212 ± 5638	0	-	-	7212	-	24000
MEAN			-	13148	8780	-	8000	17698	25350	28233

Data presented as mean ± standard deviation. A Rice condiments; b Seasoning.

Table 16.5 Sodium content for dry seasoning mixes for meat and fish – mg/100 g

rubie 10.5 Souluili Conten	t joi ury seu	soning mix	es jui illeut	unu jisn – m	g/ 100 g							
	Year	n	Average Sodium	Average Sodium		Sod	um Percentile	s (mg/100g)			
			(mg/serving	(mg/100g)	Min	10 th	25 th	50 th	75 th	Max		
Argentina [7]	2018	19	-	14095 ± 446	7829	-	10156	13250	17030	23493		
Costa Rica [7]	2018	45	-	8577 ± 9320	4	-	1333	5517	14286	33636		
Canada (SWA) [14]	2017	-	-	17255	-	-	-	17255	-			
MEAN			-	10809	3917	-	5745	12007	15658	28565		
Data presented as mean ± standard de	ata presented as mean ± standard deviation.											

Table 16.6 Sodium content for proposed sauces, dips, gravy, and condiments subcategories – mg/kcal

	Year	n	Average	Sodium Percentiles (mg/kcal)					
	Tear	"	Sodium	Min	25 th	50 th	75 th	Max	
Pasta sauce									
Canada ^a	2017	158	6.1 ± 2.2	1.5	4.9	6.0	7.1	16.0	
Canada ^b	2017	56	4.5 ± 1.8	1.4	3.1	4.2	5.1	10.9	
WEIGHTED MEAN			5.3	1.5	4.0	5.1	6.1	13.5	
Pesto									
Canada	2017	15	2.7 ± 1.8	0.6	1.2	2.2	3.9	6.1	
MEAN			2.7 ± 1.8	0.6	1.2	2.2	3.9	6.1	
Tomato sauce									
Canada ^c	2017	33	6.6 ± 4.6	0.3	3.5	6.7	10.0	16.7	
MEAN			6.6 ± 4.6	0.3	3.5	6.7	10.0	16.7	
Ketchup									
Canada	2017	23	8.9 ± 5.4	1.8	6.8	7.5	11.0	21.0	
MEAN			8.9 ± 5.4	1.8	6.8	7.5	11.0	21.0	
Gravy, cooking sauces, dips, and salsa (as o	onsumed)								
Canada ^d	2017	198	7.2 ± 6.8	0.0	2.4	4.0	10.7	31.0	
Canada [®]	2017	65	1.8 ± 0.4	0.8	1.6	1.8	2.0	3.0	
Canada ^f	2017	154	9.2 ± 7.6	1.0	3.1	6.4	14.5	47.0	
WEIGHTED MEAN			6.1	0.6	2.4	4.1	9.1	27.0	
Sweet oriental sauces									
Canada	2017	24	3.3 ± 4.6	0.0	0.8	1.5	3.8	17.8	
MEAN			3.3 ± 4.6	0.0	0.8	1.5	3.8	17.8	
Soya and other salty oriental sauces									
Canada	2017	108	34.0 ± 42.5	1.7	5.6	11.6	49.2	180.0	
MEAN			34.0 ± 42.5	1.7	5.6	11.6	49.2	180.0	
Marinades (as consumed)									
Canada	2017	53	16.8 ± 12.5	0.1	5.5	16.7	22.7	58.0	
MEAN			16.8 ± 12.5	0.1	5.5	16.7	22.7	58.0	

Mustard sauce								
Argentina	2018	9	12.4 ± 4.6	4.3	12.9	12.9	12.9	18.2
Costa Rica	2018	16	12.8 ± 7.8	0.4	8.5	12.0	17.3	26.0
Paraguay	2018	18	11.3 ± 8.4	0.4	3.9	9.0	18.2	25.2
Peru	2018	4	15.4 ± 4.0	10.0	12.6	16.1	18.3	19.6
Canada	2017	53	11.2 ± 8.5	0.0	5.0	9.0	17.0	30.0
MEAN			12.6	3.0	8.6	11.8	16.7	23.8
Spicy sauce								
Canada	2017	46	19.9 ± 23.1	0.1	5.4	10.1	27.6	115.0
Peru	2018	8	13.7 ± 18.3	0.1	2.6	8.1	16.0	56.0
Argentina	2018	7	66.4 ± 37.7	12.9	12.9	79.0	98.5	102.0
Costa Rica	2018	27	13.0 ± 19.1	0.0	0.1	3.7	21.3	83.7
MEAN			28.3	3.3	5.3	25.2	40.9	89.2

MEAN 3 33 5.3 25.2 49.9 852.2 Add is at acquired from the Food Label Information Program (FUP) distalase for package from the great from the Food Label Information Program (FUP) distalase for package from the great from the corresponding country, Data presented as mean 1 standard deviation, "Includes tomato-based pastalylizes asuce," "Cream sauce; "Tomato sauce and puree," Dips and sales, "Hummus and legume-based dips," Gravy and cooking sauces.

Table 16.7 Sodium content for bouillon cubes and powders a - mg/kcal

	Year	Average n Sodium			PAHO Nutrient Profile Model				
			(mg/kcal)	Min	25 th	50 th	75 th	Max	threshold b
Argentina	2018	17	135.5 ± 136.8	7.5	39.8	96.6	135.7	475.0	0%
Costa Rica	2018	7	75.2 ± 51.5	1.4	1.4	98.0	103.0	127.0	0%
Paraguay	2018	25	71.6 ± 19.3	38.6	62.5	72.2	84.4	114.4	0%
Peru	2018	-	-	-	-	-	-		-
Canada	2017	54	54.2 ± 27.2	0.2	35.3	53.2	64.7	162.0	3.7%
MEAN				11.9	34.8	80.0	97.0	219.6	N/A

All data acquired from the Food Label Information Program (PLP) database for packaged food and beverage items for the corresponding country, Data presented as mean a standard deviation. *Data are shown for both dry and as consumed bouilion cubes and/or powders. In Canada, bouilion cubes are categorized as soops but in many countries they are used as condiments, *Products evaluated against the 2015 PAIO Morteries Trolle field etherhold for exess soliumit in grikplan by included products is calculated against the 2015 PAIO Morteries Trolle field etherhold for exess soliumit in grikplan by included products it calculated a processed or utlar processed or utlar processed.

Table 16.8 Sodium content for dry seasoning mixes for rice and side dishes - mg/kcal

	,,		Average		Proportion below				
	Year	n	Sodium		PAHO Nutrient Profile Model				
			(mg/kcal)	Min	25 th	50 th	75 th	Max	threshold a
Argentina	2018	13	25.6 ± 35.5	0.0	4.2	7.8	37.5	98.5	15.4%
Costa Rica	2018	4	18.0 ± 10.1	4.0	10.6	21.2	25.3	25.3	0%
Peru	2018	-	-	-	-	-	-	-	-
Canada	2017	49	19.5 ± 8.9	6.0	13.5	17.2	26.5	40.0	2.0%
MEAN			21.0	3.3	9.4	15.4	29.8	54.6	N/A

All data acquired from the Food Label Information Program (FUP) database for packaged food and beverage items for the corresponding country; Data presented as mean a standard deviation. Products evaluated against the 2016 PAHO Nutrient Profile Model threshold for excess sodium (1 mg/kcal) only included products classified as processed or ultra-processed.

Table 16.9 Sodium content for dry seasoning mixes for meat and fish – mg/kcal

	Year	n	Average Sodium	Sodium Percentiles (mg/kcal)					Proportion below PAHO Nutrient
			(mg/kcal)	Min	25 th	50 th	75 th	Max	Profile Model
Argentina	2018	19	68.6 ± 35.5	27.1	33.9	61.2	85.5	150.7	0%
Costa Rica	2018	33	29.7 ± 64.8	0.0	1.5	8.2	19.6	269.2	15.2%
Peru	2018	-	-	-	-	-	-	-	-
Canada	2017	43	36.8 ± 36.4	0.0	11.3	29.0	46.0	170.0	60.8%
MEAN			45.0	9.0	15.6	32.8	50.4	196.6	N/A

All data acquired from the Food Label Information Program (FLIP) database for packaged food and beverage items for the corresponding country; Data presented as mean ± standard devia Products evaluated against the 2016 PAHO Nutrient Profile Model threshold for excess sodium (1 mg/kcal) only included products classified as processed or ultra-processed.