

Supplementary Information

Table S1. Detailed data obtained from the literature search. Data is classified by country sampling sites coordinate and every specie found in the studies. In the chart it is displayed the following information: Habitat (freshwater or marine), Diet preference by specie (carnivore, omnivore, detritivore or herbivore), BWF: Average human adult female and BWM: male body weight (kg), FCR: Fish consumption rate (g day⁻¹), MeHg: Methylmercury concentrations (µg g⁻¹) and target hazard quotient separated by THQF: female and THQM: male, and Meals per week (MPW) recommended for each fish species.

		BWF	BWM	FCR	Freshwater	Marine	Freshwater	Marine	Freshwater	Marine	Freshwater	Marine
Anguilla		68.9	78.8	38.63	MeHg		THQF		TQHM		MPW	
Ahmed et al. 2020												
<i>Elagatis bipinnulata</i>	Carnivore					0.26		0.51		0.45		2.33
<i>Epinephelus guttatus</i>	Carnivore					0.84		1.65		1.44		0.72
<i>Haemulon plumieri</i>	Carnivore					0.09		0.18		0.15		6.73
<i>Lutjanus campechanus</i>	Carnivore					0.45		0.89		0.78		1.34
<i>Mahi mahi</i>	Carnivore					0.07		0.15		0.13		8.19
<i>Triggerfish</i>	Carnivore					0.52		1.02		0.89		1.17
<i>Whiteback</i>	Carnivore					0.41		0.81		0.70		1.48
<i>Acanthurus chirurgus</i>	Herbivore					0.02		0.04		0.04		29.44
Argentina		71.4	84.7	15.62	MeHg		THQF		TQHM		MPW	
Arcagni et al., 2017												
<i>Galaxias maculatus</i>	Carnivore				0.21		0.16		0.14		2.96	
<i>Oncorhynchus mykiss</i>	Carnivore				0.11		0.08		0.07		5.69	
<i>Percichthys trucha</i>	Carnivore				0.73		0.56		0.47		0.86	
<i>Salmo trutta</i>	Carnivore				0.23		0.18		0.15		2.74	
Arribére et al., 2008												
<i>Diplomystes viedmensis</i>	Carnivore				0.58		0.44		0.37		1.08	
<i>Oncorhynchus mykiss</i>	Carnivore				0.97		0.74		0.62		0.65	
<i>Percichthys trucha</i>	Carnivore				0.97		0.74		0.62		0.65	
<i>Salmo trutta</i>	Carnivore				0.40		0.30		0.26		1.59	
<i>Salvelinus fontinalis</i>	Carnivore				0.63		0.48		0.41		1.00	
Marcovecchio & Moreno, 1993												
<i>Brevoortia aurea</i>	Carnivore					0.20		0.16		0.13		3.10
<i>Cynoscion striatus</i>	Carnivore					0.14		0.10		0.09		4.65
<i>Macrodon ancylodon</i>	Carnivore					0.12		0.09		0.07		5.42
<i>Micropogonias furnieri</i>	Carnivore					0.11		0.08		0.07		5.92

<i>Netuma barbus</i>	Carnivore				0.11		0.08		0.07		5.92
<i>Paralichthys sp.</i>	Carnivore				0.29		0.22		0.19		2.17
<i>Parona signata</i>	Carnivore				0.20		0.16		0.13		3.10
<i>Pogonias cromis</i>	Carnivore				0.21		0.16		0.14		2.96
<i>Basilichthys sp.</i>	Omnivore				0.13		0.10		0.08		5.01
<i>Cyprinus carpio</i>	Omnivore				0.18		0.14		0.12		3.43
<i>Mugil liza</i>	Omnivore				0.39		0.30		0.25		1.63
Bolivia		BWF	BWM		MeHg		THQF		TQHM		MPW
		66.8	71.2	7.04							
Pouilly et al., 2013											
<i>Hoplias malabaricus</i>	Carnivore				0.10		0.04		0.03		6.07
<i>Psectrogaster sp.</i>	Carnivore				0.05		0.02		0.02		11.36
<i>Pseudoplatystoma sp.</i>	Carnivore				0.15		0.05		0.05		4.11
<i>Curimatella cf. alburna</i>	Detritivore				0.05		0.02		0.02		12.03
<i>Schizodon fasciatus</i>	Herbivore				0.04		0.02		0.01		14.21
<i>Triportheus angulatus</i>	Omnivore				0.07		0.03		0.02		8.34
Brazil		BWF	BWM		MeHg		THQF		TQHM		MPW
		70.3	80.7	24.90							
Ceccatto et al. 2016											
<i>Pygocentrus nattereri</i>	Carnivore				0.56		0.70		0.61		1.10
Galvao et al., 2021											
<i>Epinephelus marginatus</i>	Carnivore					2.14		2.65		2.31	0.29
<i>Epinephelus nigritus</i>	Carnivore					2.61		3.24		2.82	0.24
Hacon et al., 2020											
<i>Acestrorhynchus falcatus</i>	Carnivore				0.33		0.41		0.36		1.88
<i>Ageneiosus inermis</i>	Carnivore				1.45		1.80		1.57		0.43
<i>Arapaima gigas</i>	Carnivore				1.16		1.44		1.25		0.53
<i>Aspistor quadriscutis</i>	Carnivore				0.74		0.92		0.80		0.83
<i>Bagre bagre</i>	Carnivore				0.49		0.61		0.53		1.26
<i>Brachysplatystoma</i>											
<i>vaillantii</i>	Carnivore				0.31		0.38		0.33		2.00
<i>Cichla monoculus</i>	Carnivore				1.84		2.28		1.99		0.34
<i>Hoplias malabaricus</i>	Carnivore				0.61		0.76		0.66		1.02
<i>Mugil sp.</i>	Carnivore				0.02		0.02		0.02		32.04
<i>Mylesinus</i>											
<i>paraschomburgkii</i>	Carnivore				0.08		0.10		0.08		8.01
<i>Pellona flavipinnis</i>	Carnivore				0.12		0.14		0.13		5.34
<i>Pimelodus blochii</i>	Carnivore				0.10		0.12		0.10		6.41
<i>Plagioscion auratus</i>	Carnivore				0.90		1.12		0.97		0.69

<i>Plagioscion squamosissimus</i>	Carnivore	0.25		0.31		0.27		2.46	
<i>Rhinoptera bonasus</i>	Carnivore	0.15		0.18		0.16		4.27	
<i>Sternopygus sp.</i>	Carnivore	0.34		0.42		0.37		1.83	
<i>Curimata inornata</i>	Detritivore	0.07		0.08		0.07		9.15	
<i>Myloplus planquettei</i>	Herbivore	0.04		0.05		0.04		16.02	
<i>Myloplus rhomboidalis</i>	Herbivore	0.23		0.29		0.25		2.67	
<i>Trachelyopterus galeatus</i>	Omnivore	0.35		0.43		0.38		1.78	
Muto et al., 2014									
<i>Cathorops spixii</i>	Carnivore		0.22		0.28		0.24		2.79
<i>Centropomus parallelus</i>	Carnivore		0.69		0.85		0.74		0.90
<i>Ctenosciaena gracilicirrus</i>	Carnivore		0.45		0.55		0.48		1.39
<i>Dactylopterus volitans</i>	Carnivore		0.10		0.12		0.10		6.41
<i>Lophius gastrophysus</i>	Carnivore		0.06		0.07		0.06		10.50
<i>Menticirrhus americanus</i>	Carnivore		0.14		0.17		0.15		4.58
<i>Merluccius hubbsi</i>	Carnivore		0.03		0.04		0.03		19.42
<i>Paralichthys patagonicus</i>	Carnivore		0.80		0.99		0.86		0.78
<i>Paralichthys triocellatus</i>	Carnivore		0.04		0.06		0.05		13.93
<i>Paralonchurus brasiliensis</i>	Carnivore		0.12		0.14		0.13		5.34
<i>Pellona harroweri</i>	Carnivore		0.04		0.04		0.04		17.32
<i>Percophis brasiliensis</i>	Carnivore		0.45		0.55		0.48		1.39
<i>Trichiurus lepturus</i>	Carnivore		0.19		0.24		0.21		3.20
<i>Anchoa filifera</i>	Herbivore		0.15		0.19		0.17		4.00
<i>Trachurus lathami</i>	Omnivore		0.05		0.06		0.05		13.08
Chile		BWF	BWM		MeHg	THQF	TQHM		MPW
		71.5	82.8	32.27					
Bahamonde (in preparation)									
<i>Oncorhynchus mykiss</i>	Carnivore				1.12		1.77		1.47
<i>Salvelinus fontinalis</i>	Carnivore				0.34		0.54		1.86
Bravo et al., 2019									
<i>Brama australis</i>	Carnivore					0.39		0.61	0.53
<i>Gadus chalcogrammus</i>	Carnivore					0.01		0.02	0.01
<i>Merluccius gayi</i>	Carnivore					0.29		0.46	0.40
<i>Salmonidae</i>	Carnivore					0.29		0.46	0.40
<i>Thunnus alalunga</i>	Carnivore					2.81		4.43	3.83
<i>Thunnus thynnus</i>	Carnivore					0.97		1.53	1.32
<i>Pangasius hypophthalmus</i>	Herbivore					0.10		0.15	0.13
<i>Oreochromis sp.</i>	Omnivore					0.10		0.15	0.13

Cortes & Fortt, 2007				0.16	0.08	0.25	0.12	0.22	0.11	3.97	8.15		
<i>Merluccius gayi</i>	Carnivore	0.05	0.08									0.07	13.03
<i>Salmo salar</i>	Carnivore												
<i>Trachurus murphyi</i>	Carnivore												
<i>Xiphias gladius</i>	Carnivore												
Vergara, 2019				0.14	0.25	0.39	0.20	0.34	5.28	3.10			
<i>Galaxias maculatus</i>	Carnivore												
<i>Genypterus blacodes</i>	Carnivore												
<i>Oncorhynchus mykiss</i>	Carnivore												
<i>Pinguipes chilensis</i>	Carnivore	0.08	0.13	0.11	7.52								
<i>Salilota australis</i>	Carnivore					0.61	0.96	0.83	1.14				
<i>Salmo salar</i>	Carnivore												
<i>Salmo trutta</i>	Carnivore												
<i>Sebastes oculatus</i>	Carnivore												
<i>Basilichthys australis</i>	Omnivore	0.13	0.21	0.04	0.18	0.03	4.99	26.27					
<i>Eleginops maclovinus</i>	Omnivore												
				0.02	0.32	0.32	0.51	0.27	0.44	4.64	2.00		
				0.17	0.26	0.23	3.76						
				0.08	0.13	0.11	0.18	0.11	0.15	7.77	5.87		
Colombia				BWF	BWM	19.62	MeHg	THQF	TQHM	MPW			
Gallego et al. 2018				0.48	3.97	0.50	0.44	1.22					
<i>Caranx crysos</i>	Carnivore												
<i>Caranx hippos</i>	Carnivore												
<i>Centropomus undecimalis</i>	Carnivore												
<i>Lutjanus purpureus</i>	Carnivore												
<i>Scomberomorus</i>	Carnivore												
<i>brasiliensis</i>	Carnivore	0.17	0.17	0.15	3.49								
Marrugo et al., 2008				0.76	0.79	0.69	0.77						
<i>Ageneiosus pardalis</i>	Carnivore												
<i>Caquetaia kraussii</i>	Carnivore												
<i>Cyrtocharax magdalenae</i>	Carnivore												
<i>Hoplias malabaricus</i>	Carnivore												
<i>Plagioscion surinamensis</i>	Carnivore												
<i>Pseudoplatystoma</i>	Carnivore	0.30	0.31	0.27	1.95								
<i>Fasciatum</i>	Carnivore												
<i>Salminus affinis</i>	Carnivore												
<i>Sorubim cuspicaudus</i>	Carnivore												
<i>Curimata magdalenae</i>	Detritivore												
<i>Curimata mivartii</i>	Detritivore												
<i>Prochilodus magdalenae</i>	Detritivore	0.11	0.11	0.10	5.50								
<i>Triportheus magdalenae</i>	Detritivore												
				0.40	0.41	0.36	1.48						
				0.27	0.28	0.25	2.16						
				0.45	0.47	0.41	1.29						
				0.09	0.09	0.08	6.72						
				0.18	0.19	0.17	3.19						
				0.11	0.11	0.10	5.50						
				0.33	0.34	0.30	1.78						

<i>Trichogaster sp</i>	Omnivore				0.04		0.04		0.04		15.13	
Olivero et al., 2004												
<i>Ageneiosus pardalis</i>	Carnivore				0.37		0.38		0.33		1.59	
<i>Hoplias malabaricus</i>	Carnivore				0.29		0.30		0.26		2.02	
<i>Petenia kraussii</i>	Carnivore				0.31		0.32		0.28		1.89	
<i>Plagioscion surinamensis</i>	Carnivore				0.30		0.31		0.27		1.95	
<i>Prochilodus magdalenae</i>	Detritivore				0.08		0.08		0.07		7.57	
Olivero et al., 2014												
<i>Ageneiosus pardalis</i>	Carnivore				0.15		0.16		0.14		4.67	
<i>Caquetaia kraussii</i>	Carnivore				0.44		0.45		0.39		1.34	
<i>Cyrtosoma magdalenae</i>	Carnivore				0.32		0.33		0.29		1.83	
<i>Pimelodus blochii</i>	Carnivore				0.08		0.08		0.07		7.57	
<i>Pseudoplatystoma magdaleniatum</i>	Carnivore				0.10		0.10		0.09		6.05	
<i>Sternopygus macrurus</i>	Carnivore				0.04		0.04		0.04		15.13	
<i>Prochilodus magdalenae</i>	Detritivore				0.10		0.10		0.09		6.05	
<i>Triportheus magdalenae</i>	Detritivore				0.30		0.31		0.27		1.95	
<i>Lamontichthys filamentosus</i>	Herbivore				0.08		0.08		0.07		7.57	
<i>Leporinus muyscorum</i>	Omnivore				0.04		0.04		0.04		19.77	
Ruiz et al., 2014												
<i>Ageneiosus pardalis</i>	Carnivore				1.63		1.68		1.47		0.36	
<i>Hoplias malabaricus</i>	Carnivore				1.69		1.75		1.54		0.35	
<i>Pimelodus blochii</i>	Carnivore				0.77		0.80		0.70		0.76	
<i>Prochilodus magdalenae</i>	Detritivore				0.11		0.11		0.10		5.50	
Costa Rica		BWF	BWM		MeHg		THQF		TQHM		MPW	
		71.7	80.9	50.57								
Elliott et al., 2014												
<i>Lutjanus campechanus</i>	Carnivore				0.03		0.07		0.06		21.79	
<i>Cichlasoma urophthalmus</i>	Omnivore				0.15		0.38		0.34		4.08	
Mansilla & Rodriguez, 2010												
<i>Scomberomorus cavalla</i>	Carnivore					0.25		0.62		0.55		2.51
<i>Lutjanus analis</i>	Carnivore					0.09		0.21		0.19		7.26
<i>Lutjanus synagris</i>	Carnivore					0.17		0.42		0.37		3.81
<i>Scomberomorus regalis</i>	Carnivore					0.12		0.29		0.25		5.45
Cuba		BWF	BWM		MeHg		THQF		TQHM		MPW	
		66.8	76.0	15.58								
De la Rosa et al., 2009												
<i>Anguila rostrata</i>	Carnivore				0.22		0.18		0.16		2.65	

<i>Clarias gariepinus</i>	Omnivore				0.32		0.26		0.23		1.82	
Feng et al., 2019												
<i>Clarias gariepinus</i>	Omnivore				0.58		0.47		0.41		3.32	
Lima et al., 2013												
<i>Clarias gariepinus</i>	Omnivore				0.14		0.12		0.10		4.31	
Ecuador		BWF	BWM	21.28	MeHg		THQF		TQHM		MPW	
		66.9	74.2									
Webb et al., 2004												
<i>Carnivore fish</i>	Carnivore				0.35		0.39		0.35		1.69	
<i>Non- Carnivore fish</i>	Herbivore				0.05		0.05		0.05		12.20	
Jamaica		BWF	BWM	69.61	MeHg		THQF		TQHM		MPW	
		79.9	80.3									
Ricketts at al. 2016												
<i>Cynoscion regalis</i>	Carnivore											
<i>Lutjanus campechanus</i>	Carnivore				0.05	0.16	0.15	0.50	0.15	0.50	14.57	4.28
<i>Scomberomorus cavalla</i>	Carnivore					0.62		1.89		1.88		1.14
Ricketts at al. 2017												
<i>Sardina pilchardus</i>	Carnivore					0.02		0.06		0.06		36.42
Ricketts at el. 2020												
<i>Caranx ruber</i>	Carnivore					0.36		1.10		1.10		1.95
<i>Lutjanus</i>	Carnivore					0.24		0.74		0.73		2.91
<i>Macrodon ancylodon</i>	Carnivore					0.23		0.70		0.69		3.08
<i>Mugil curema</i>	Carnivore				0.69		2.11		2.10		1.02	
<i>Opisthonema oglinum</i>	Carnivore					0.19		0.58		0.58		3.70
<i>Pristipomoides aquilonaris</i>	Carnivore					0.45		1.38		1.37		1.56
<i>Pseudupeneus maculatus</i>	Carnivore					0.37		1.13		1.13		1.90
<i>Scomberomorus cavalla</i>	Carnivore					0.50		1.52		1.52		1.41
<i>Scomberomorus regalis</i>	Carnivore					0.20		0.62		0.62		3.47
<i>Acanthurus chirurgus</i>	Herbivore					0.01		0.03		0.03		72.83
<i>Sparisoma viride</i>	Herbivore					0.02		0.07		0.07		31.21
<i>Gadus morhua</i>	Omnivore					0.45		1.38		1.37		1.56
<i>Oreochromis niloticus</i>	Omnivore				0.05		0.14		0.14		15.61	
Mexico		BWF	BWM	39.39	MeHg		THQF		TQHM		MPW	
		70.7	79.3									
Elliott et al., 2014		70.7	79.3									
<i>Arius felis</i>	Carnivore				0.18		0.35		0.31		3.76	
<i>Arius sp.</i>	Carnivore					0.19		0.38		0.34		3.22
<i>Centropomus parallelus</i>	Carnivore				0.18		0.36		0.32		3.70	
<i>Centropomus sp.</i>	Carnivore					0.29		0.57		0.50		2.15

<i>Carcharhinus porosus</i>	Carnivore				10.73		32.12		29.89		0.06
<i>Sphyrna lewini</i>	Carnivore				6.12		18.33		17.06		0.11
Ricketts et al. 2016											
<i>Alosa aestivalis</i>	Carnivore				0.09		0.26		0.24		7.74
<i>Carcharhinus</i>	Carnivore				1.71		5.13		4.77		0.39
<i>Clupea harengus</i>	Carnivore				0.03		0.09		0.08		23.21
<i>Haemulon plumieri</i>	Carnivore				0.37		1.10		1.02		1.83
<i>Micropogonias furnieri</i>	Carnivore				0.07		0.20		0.19		9.95
<i>Ocyurus chrysurus</i>	Carnivore				0.18		0.55		0.51		3.67
<i>Oncorhynchus gorboscha</i>	Carnivore				0.04		0.12		0.11		17.41
<i>Scomberomorus</i>	Carnivore				0.38		1.13		1.05		1.79
<i>Thunnus alalunga</i>	Carnivore				0.16		0.49		0.46		4.10
<i>Thunnus thynnus</i>	Carnivore				0.28		0.84		0.78		2.40
<i>Trachurus murphyi</i>	Carnivore				0.05		0.14		0.13		13.93
<i>Gadus morhua</i>	Omnivore				0.10		0.29		0.27		6.96
<i>Oreochromis niloticus</i>	Omnivore			0.05		0.14		0.13		13.93	
Venezuela		BWF	BWM		MeHg		THQF		TQHM		MPW
		68.5	79.8	27.67							
Sanchez & Contreras, 2008											
<i>Haplias malabaricos</i>	Carnivore				1.16		1.64		1.41		0.66
<i>Hoplias macrophthalmus</i>	Carnivore				1.03		1.45		1.24		0.59
<i>Plagioscion squamosissimus</i>	Carnivore				0.58		0.82		0.70		1.04
<i>Pseudopimelodus zungaro</i>	Carnivore				1.60		2.26		1.94		0.38
<i>Rhinobatos percellens</i>	Carnivore				1.45		2.05		1.76		0.42
<i>Prochilodus</i>	Carnivore				1.52		2.15		1.84		0.40
<i>Rubrotaenatius</i>	Detritivore				0.43		0.60		0.52		1.42
<i>Milossoma acanthogaster</i>	Herbivore				1.53		2.16		1.86		0.40

Table S2. Kruskal-Wallis and Dwass-Steel-Critchlow-Fligner pairwise comparison test of MeHg concentrations by different factors.

Kruskal-Wallis		χ^2	gl	p
MeHg by Habitat		0.298	1	0.585
MeHg by Country		53.7	15	< .001*
MeHg by Diet		44.9	3	< .001*

Pairwise comparisons - MeHg		W	p	
Anguilla	Argentina	0.3597	1.000	
Anguilla	Bolivia	-3.3918	0.549	
Anguilla	Brazil	0.2049	1.000	
Anguilla	Chile	-0.5738	1.000	
Anguilla	Colombia	-0.6099	1.000	
Anguilla	Costa Rica	-1.6366	0.999	
Anguilla	Cuba	-0.1637	1.000	
Anguilla	Ecuador	-1.1078	1.000	
Anguilla	Jamaica	-0.9888	1.000	
Anguilla	Mexico	-2.9918	0.756	
Anguilla	Nicaragua	-1.2579	1.000	
Anguilla	Paraguay	1.6432	0.999	
Anguilla	Peru	0.3503	1.000	
Anguilla	Trinidad	-0.7305	1.000	
Anguilla	Venezuela	3.9279	0.282	
Argentina	Bolivia	-6.5843	< .001	*
Argentina	Brazil	-0.3355	1.000	
Argentina	Chile	-1.9558	0.992	
Argentina	Colombia	-1.4856	1.000	
Argentina	Costa Rica	-2.7794	0.845	
Argentina	Cuba	-1.0181	1.000	
Argentina	Ecuador	-1.1316	1.000	
Argentina	Jamaica	-0.9055	1.000	
Argentina	Mexico	-5.0062	0.035	*
Argentina	Nicaragua	-3.5375	0.470	
Argentina	Paraguay	1.6364	0.999	
Argentina	Peru	0.3214	1.000	
Argentina	Trinidad	-1.8627	0.995	
Argentina	Venezuela	4.7368	0.064	

Pairwise comparisons - MeHg		W	p	
Bolivia	Brazil	4.8917	0.045	
Bolivia	Chile	5.7645	0.005	*
Bolivia	Colombia	5.3023	0.017	*
Bolivia	Costa Rica	2.8823	0.804	
Bolivia	Cuba	4.6005	0.085	
Bolivia	Ecuador	0.8997	1.000	
Bolivia	Jamaica	3.3439	0.575	
Bolivia	Mexico	0.5230	1.000	
Bolivia	Nicaragua	2.1758	0.978	
Bolivia	Paraguay	2.3476	0.957	
Bolivia	Peru	5.7696	0.005	*
Bolivia	Trinidad	2.9025	0.795	
Bolivia	Venezuela	5.4163	0.012	
Brazil	Chile	-0.9645	1.000	
Brazil	Colombia	-1.0787	1.000	
Brazil	Costa Rica	-1.9936	0.991	
Brazil	Cuba	-0.3987	1.000	
Brazil	Ecuador	-0.7461	1.000	
Brazil	Jamaica	-0.9917	1.000	
Brazil	Mexico	-4.7142	0.067	
Brazil	Nicaragua	-2.5441	0.917	
Brazil	Paraguay	1.2568	1.000	
Brazil	Peru	0.4576	1.000	
Brazil	Trinidad	-0.8658	1.000	
Brazil	Venezuela	4.0529	0.232	
Chile	Colombia	0.2861	1.000	
Chile	Costa Rica	-1.3634	1.000	
Chile	Cuba	0.4545	1.000	
Chile	Ecuador	-0.6933	1.000	
Chile	Jamaica	0.3020	1.000	
Chile	Mexico	-4.2022	0.181	
Chile	Nicaragua	-2.1188	0.983	
Chile	Paraguay	1.6919	0.998	
Chile	Peru	1.8855	0.995	
Chile	Trinidad	-0.5626	1.000	
Chile	Venezuela	4.7304	0.065	
Colombia	Costa Rica	-1.8783	0.995	
Colombia	Cuba	0.0387	1.000	
Colombia	Ecuador	-0.4954	1.000	
Colombia	Jamaica	-0.1024	1.000	
Colombia	Mexico	-4.6506	0.076	

Pairwise comparisons - MeHg		W	p
Colombia	Nicaragua	-1.8100	0.997
Colombia	Paraguay	1.8522	0.996
Colombia	Peru	1.5183	1.000
Colombia	Trinidad	-0.5665	1.000
Colombia	Venezuela	4.8406	0.051
Costa Rica	Cuba	1.6281	0.999
Costa Rica	Ecuador	0.4140	1.000
Costa Rica	Jamaica	1.7518	0.998
Costa Rica	Mexico	-1.3739	1.000
Costa Rica	Nicaragua	-0.4718	1.000
Costa Rica	Paraguay	2.1602	0.980
Costa Rica	Peru	3.0755	0.715
Costa Rica	Trinidad	0.7483	1.000
Costa Rica	Venezuela	4.4272	0.120
Cuba	Ecuador	-0.4140	1.000
Cuba	Jamaica	0.3594	1.000
Cuba	Mexico	-2.9144	0.791
Cuba	Nicaragua	-1.9701	0.992
Cuba	Paraguay	1.5430	0.999
Cuba	Peru	1.3448	1.000
Cuba	Trinidad	-0.6485	1.000
Cuba	Venezuela	3.8851	0.301
Ecuador	Jamaica	0.4701	1.000
Ecuador	Mexico	-1.3672	1.000
Ecuador	Nicaragua	0.0000	1.000
Ecuador	Paraguay	1.7321	0.998
Ecuador	Peru	1.1166	1.000
Ecuador	Trinidad	0.4227	1.000
Ecuador	Venezuela	2.8983	0.797
Jamaica	Mexico	-3.3182	0.589
Jamaica	Nicaragua	-1.0739	1.000
Jamaica	Paraguay	2.0455	0.988
Jamaica	Peru	0.9983	1.000
Jamaica	Trinidad	-0.1069	1.000
Jamaica	Venezuela	4.7165	0.067
Mexico	Nicaragua	1.6018	0.999
Mexico	Paraguay	2.3643	0.954
Mexico	Peru	4.7588	0.061
Mexico	Trinidad	2.7410	0.858
Mexico	Venezuela	5.6261	0.007
Nicaragua	Paraguay	2.0692	0.986

*

Pairwise comparisons - MeHg		W	p	
Nicaragua	Peru	2.8940	0.799	
Nicaragua	Trinidad	0.9466	1.000	
Nicaragua	Venezuela	4.8825	0.046	*
Paraguay	Peru	-1.8435	0.996	
Paraguay	Trinidad	-1.3816	1.000	
Paraguay	Venezuela	0.9258	1.000	
Peru	Trinidad	-1.6887	0.998	
Peru	Venezuela	4.1626	0.194	
Trinidad	Venezuela	3.1411	0.683	

Table S3. Independent Samples T-Test between human female and male risk quotient (HQ).

Statistic				p	Mean difference	
Mann-Whitney U				36543	0.268	0.0740
Group Descriptives						
	Group	N	Mean	Median	SD	SE
HQ	Female	278	2.96	1.10	9.88	0.592
	Male	278	2.66	0.960	9.15	0.549

Table S4. Correlation matrix between female and male risk quotient (HQ) and MeHg concentrations and human fish consumption rate (FCR).

		HQF	HQM	FCR g/day	MeHg
HQF	Spearman's rho	—			
	p-value	—			
HQM	Spearman's rho	1.000	—		
	p-value	< .001	—		
FCR	Spearman's rho	0.394	0.406	—	
	p-value	< .001	< .001	—	
MeHg	Spearman's rho	0.920	0.914	0.033	—
	p-value	< .001	< .001	0.585	—

	HQF	HQM	FCR g/day	MeHg
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