

Table A7.5 Subregional estimates (median and 95% uncertainty interval) of the proportion of illnesses caused by exposure to lead through each pathway.

SUBREGION	FOOD	WATER	SOIL	AIR	PAINT	COOKWARE, POTTERY OR GLASSWARE	TOYS	OTHER
LEAD								
AFR D	0.17 (0.00-0.37)	0.22 (0.06-0.48)	0.12 (0.00-0.27)	0.20 (0.03-0.39)	0.08 (0.00-0.32)	0.09 (0.01-0.24)	0.04 (0.00-0.16)	0.00 (0.00-0.04)
AFR E	0.17 (0.00-0.37)	0.28 (0.06-0.54)	0.10 (0.00-0.28)	0.18 (0.00-0.38)	0.08 (0.00-0.33)	0.07 (0.00-0.27)	0.02 (0.00-0.17)	0.00 (0.00-0.04)
AMR A	0.24 (0.01-0.49)	0.30 (0.05-0.61)	0.09 (0.00-0.27)	0.12 (0.00-0.50)	0.04 (0.00-0.35)	0.05 (0.00-0.22)	0.05 (0.00-0.19)	0.00 (0.00-0.02)
AMR B	0.19 (0.00-0.41)	0.22 (0.04-0.46)	0.04 (0.00-0.16)	0.26 (0.00-0.51)	0.06 (0.00-0.35)	0.09 (0.01-0.38)	0.02 (0.00-0.20)	0.00 (0.00-0.02)
AMR D	0.17 (0.00-0.40)	0.14 (0.03-0.42)	0.13 (0.00-0.35)	0.29 (0.00-0.57)	0.05 (0.00-0.36)	0.04 (0.00-0.35)	0.02 (0.00-0.19)	0.00 (0.00-0.02)
EMR B	0.19 (0.01-0.37)	0.21 (0.06-0.42)	0.10 (0.00-0.22)	0.21 (0.00-0.41)	0.09 (0.00-0.36)	0.07 (0.00-0.32)	0.02 (0.00-0.23)	0.00 (0.00-0.02)
EMR D	0.11 (0.00-0.31)	0.09 (0.03-0.23)	0.07 (0.00-0.55)	0.38 (0.10-0.66)	0.04 (0.00-0.24)	0.06 (0.00-0.23)	0.02 (0.00-0.18)	0.00 (0.00-0.01)
EUR A	0.23 (0.00-0.46)	0.19 (0.05-0.47)	0.10 (0.00-0.24)	0.16 (0.00-0.37)	0.14 (0.04-0.48)	0.05 (0.00-0.20)	0.02 (0.00-0.18)	0.00 (0.00-0.02)
EUR B	0.23 (0.00-0.47)	0.16 (0.02-0.40)	0.12 (0.00-0.30)	0.18 (0.00-0.40)	0.05 (0.00-0.38)	0.09 (0.01-0.28)	0.06 (0.00-0.23)	0.00 (0.00-0.02)
EUR C	0.19 (0.00-0.37)	0.29 (0.11-0.54)	0.11 (0.00-0.30)	0.12 (0.00-0.35)	0.03 (0.00-0.39)	0.06 (0.00-0.25)	0.04 (0.00-0.22)	0.00 (0.00-0.03)
SEAR B	0.17 (0.00-0.40)	0.17 (0.02-0.38)	0.07 (0.00-0.23)	0.28 (0.00-0.54)	0.05 (0.00-0.36)	0.08 (0.00-0.33)	0.05 (0.00-0.24)	0.00 (0.00-0.01)
SEAR D	0.21 (0.00-0.46)	0.15 (0.05-0.31)	0.11 (0.00-0.27)	0.24 (0.05-0.46)	0.06 (0.00-0.30)	0.11 (0.03-0.27)	0.03 (0.00-0.23)	0.00 (0.00-0.01)
WPR A	0.12 (0.00-0.30)	0.14 (0.03-0.36)	0.14 (0.00-0.32)	0.27 (0.00-0.51)	0.09 (0.00-0.38)	0.11 (0.03-0.37)	0.03 (0.00-0.19)	0.00 (0.00-0.01)
WPR B	0.12 (0.00-0.30)	0.22 (0.06-0.45)	0.06 (0.00-0.19)	0.30 (0.00-0.53)	0.08 (0.00-0.38)	0.09 (0.00-0.36)	0.03 (0.00-0.24)	0.00 (0.00-0.01)

Table A7.6 Percent of illness acquired through the foodborne transmission route for six national studies and this study^a.

	HAVELAAR ET AL., 2008	GKOGKA ET AL., 2011	THIS STUDY	RAVEL ET AL., 2010	SCALLAN ET AL., 2011	THIS STUDY	LAKE ET AL., 2010	VALLY ET AL., 2014	THIS STUDY
Country/sub region	NL	GR	EUR A	CA	USA	AMR A	NZ	AU	WPR A
Period	2006	1996-2006	2010	2008	2010	2010	2005	2010	2010
Method	Formal expert elicitation	Derived by the authors b)	Formal expert elicitation	Formal expert elicitation	Derived by the authors b)	Formal expert elicitation	Formal expert elicitation	Formal expert elicitation	Formal expert elicitation
Only domestically acquired cases	yes	depended on the data used	no	yes	yes	no	no	yes	no
HAZARDS									
<i>Brucella</i> spp.	-	84 (50-100)	66 (23-90)	-	50 (40-60)	75 (28-93)	-	-	-
<i>Campylobacter</i> spp.	42 (16-84)	55 (30-80)	76 (44-93)	68 (54-82)	80 (73-86)	73 (38-91)	56 (26-82)	76 (70-80)	68 (40-89)
<i>Cryptosporidium</i> spp.	12 (0-20)	5.6 (5.6-8)	10 (0-39)	9 (3-16)	8 (6-12)	16 (1-44)	-	-	-
<i>Entamoeba histolytica</i>	-	50 (10-100)	33 (0-71)	-	-	-	-	-	-
Enteropathogenic <i>E. coli</i>	-	-	-	-	-	-	-	24 (10-49)	69 (16-94)
Enterotoxigenic <i>E. coli</i>	-	-	-	-	100 (99-100) ^c	36 (12-63)	-	24 (10-49)	38 (10-72)
<i>Giardia</i> spp.	13 (0-24)	10 (5-30)	11 (0-44)	-	7 (5-10)	11 (0-39)	-	-	-
Hepatitis A	11 (0-20)	8 (5-11)	42 (2-75)	-	6 (4-16)	42 (6-77)	-	12 (7-20)	42 (3-76)
Non-typhoidal <i>Salmonella</i> spp.	55 (32-88)	95 (55-95)	76 (47-94)	80 (68-92)	94 (91-96)	73 (38-91)	60 (18-83)	71 (65-75)	74 (45-93)
Norovirus	17 (16-47)	-	26 (0-73)	31 (14-48)	26 (19-35)	23 (4-50)	39 (8-64)	17 (5-30)	22 (1-52)
<i>Salmonella</i> Typhi	-	80 (55-95)	10 (0-53)	-	100 (76-100)	26 (0-64)	-	-	-
Shiga toxin-producing <i>E. coli</i>	42 (21-78)	51 (40-90)	60 (26-83)	76 (60-91)	82 (75-87)	59 (19-84)	40 (6-95)	55 (30-75)	57 (25-82)
<i>Shigella</i> spp.	-	10 (8.2-31)	7 (0-46)	18 (7-29)	31 (23-40)	12 (0-46)	-	11 (5-20)	13 (0-50)
<i>Toxoplasma gondii</i>	56 (26-88)	50 (30-63)	61 (35-82)	-	50 (40-60)	60 (30-81)	-	-	-
<i>Vibrio cholerae</i>	-	-	-	82 (66-98)	100 (99-100)	30 (1-95)	-	-	-

^a This table presents a measure of central tendency with its associated uncertainty bound from each study. Because studies differ in how they measure central tendency and uncertainty, we cannot label the columns with a single heading. Measures include: this study (median, 90% credibility interval (CI)); Havelaar et al., 2008 (mean, 90% CI); Gkogka et al., 2011 (median, min-max); Ravel et al., 2010 (mean, 95% CI); Scallan et al., 2011 (mean, 90% CI); Lake et al., 2010 (mean, 95% CI); Valley et al., 2014 (median, 95% CI).

^b These estimates were derived by a synthesis of data from different public health surveillance systems and the literature.

^c Only ETEC cases reported as part of foodborne outbreaks were included in the study by Scallan et al. (2011). Consequently the proportion foodborne was per definition 100% and cannot be readily compared with the estimate in this study, which considers infections acquired from all transmission routes.

APPENDIX 8. DATA TABLES FOR INDIVIDUAL HAZARD CLASSES: ENTERIC, PARASITIC, CHEMICAL¹

Table A8.1 Median number of foodborne Illnesses, Deaths, and Disability Adjusted Life Years (DALYs), with 95% uncertainty intervals, 2010.

PATHOGEN	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYs (95% UI)	PROPORTION FOODBORNE (95% UI)	FOODBORNE ILLNESSES (95% UI)	FOODBORNE DEATHS (95% UI)	FOODBORNE DALYs (95% UI)
Diarrhoeal Disease	1 912 159 038 (1 413 002 730– 2 849 323 016)	715 196 (603 325–846 397)	55 139 959 (46 746 114–65 120 623)	0.29 (0.22–0.36)	548 285 159 (369 733 377–888 360 956)	199 892 (136 903–286 616)	15 780 400 (11 043 288–22 251 264)
<i>Campylobacter</i> spp.*	166 175 078 (92 227 873–300 877 905)	37 604 (27 738–55 101)	3 733 822 (2 857 037–5 273 652)	0.58 (0.44–0.69)	95 613 970 (51 731 379–177 239 714)	21 374 (14 604–32 584)	2 141 926 (1 535 985–3 137 980)
<i>Cryptosporidium</i> spp.	64 003 709 (43 049 455–104 679 951)	27 553 (18 532–44 654)	2 159 331 (1 392 438–3 686 925)	0.13 (0.07–0.24)	8 584 805 (3 897 252–18 531 196)	3 759 (1 520–9 115)	296 156 (119 456–724 660)
<i>Entamoeba histolytica</i>	103 943 952 (47 018 659–210 632 459)	5 450 (2 194–17 127)	515 904 (222 446–1 552 466)	0.28 (0.14–0.44)	28 023 571 (10 261 254–68 567 590)	1 470 (453–5 554)	138 863 (47 339–503 775)
Enteropathogenic <i>E. coli</i>	81 082 327 (40 716 656–171 419 480)	122 760 (97 115–154 869)	9 717 390 (7 602 047–12 387 029)	0.30 (0.17–0.48)	23 797 284 (10 750 919–62 931 604)	37 077 (19 957–61 262)	2 938 407 (1 587 757–4 865 590)
Enterotoxigenic <i>E. coli</i>	240 886 759 (160 890 532–377 471 599)	73 857 (53 851–103 026)	5 887 541 (4 190 610–8 407 186)	0.36 (0.24–0.50)	86 502 735 (49 136 952–151 776 173)	26 170 (14 887–43 523)	2 084 229 (1 190 704–3 494 201)
<i>Giardia</i> spp.	183 842 615 (130 018 020–262 838 002)	0 (0–0)	171 100 (115 777–257 315)	0.15 (0.08–0.27)	28 236 123 (12 945 655–56 996 454)	0 (0–0)	26 270 (11 462–53 577)
Norovirus	684 850 131 (490 930 402–1 122 947 359)	212 489 (160 595–278 420)	15 105 714 (11 649 794–19 460 578)	0.18 (0.11–0.30)	124 803 946 (70 311 254–251 352 877)	34 929 (15 916–79 620)	2 496 078 (1 175 658–5 511 092)
Non-typhoidal <i>Salmonella</i> enterica,	153 097 991 (64 733 607–382 208 079)	56 969 (43 272–88 129)	4 377 930 (3 242 020–7 175 522)	0.52 (0.35–0.67)	78 439 785 (31 579 011–210 875 866)	28 693 (17 070–49 768)	2 183 146 (1 314 295–3 981 424)
<i>Shigella</i> spp.	190 849 501 (97 832 995–363 915 689)	65 796 (46 317–97 036)	5 407 736 (3 771 300–8 107 456)	0.27 (0.13–0.44)	51 014 050 (20 405 214–118 927 631)	15 156 (6 839–30 072)	1 237 103 (554 204–2 520 126)
Shiga toxin-producing <i>E. coli</i>	2 481 511 (1 594 572–5 376 503)	269 (111–814)	26 827 (12 089–72 204)	0.48 (0.33–0.60)	1 176 854 (754 108–2 523 007)	128 (55–374)	12 953 (5 951–33 664)
<i>Vibrio cholerae</i>	3 183 394 (2 211 329–4 146 250)	105 170 (78 671–126 058)	7 347 635 (5 496 431–8 804 408)	0.24 (0.10–0.46)	763 451 (310 910–1 567 682)	24 649 (10 304–50 042)	1 722 312 (720 029–3 491 997)
Intoxications	5 409 083 (2 187 762–12 929 293)	175 (70–407)	9 905 (3 993–23 527)	1.00	5 409 083 (2 187 762–12 929 293)	175 (70–407)	9 905 (3 993–23 527)
<i>Bacillus cereus</i> **	256 775 (43 875–807 547)	0 (0–0)	45 (7–171)	1.00	256 775 (43 875–807 547)	0 (0–0)	45 (7–171)
<i>Clostridium botulinum</i> ***	475 (183–990)	24 (7–65)	1 036 (299–2 805)	1.00	475 (183–990)	24 (7–65)	1 036 (299–2 805)
<i>Clostridium perfringens</i> **	3 998 164 (837 262–11 529 642)	120 (25–351)	6 963 (1 423–20 493)	1.00	3 998 164 (837 262–11 529 642)	120 (25–351)	6 963 (1 423–20 493)

PATHOGEN	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYs (95% UI)	PROPORTION FOODBORNE (95% UI)	FOODBORNE ILLNESSES (95% UI)	FOODBORNE DEATHS (95% UI)	FOODBORNE DALYs (95% UI)
<i>Staphylococcus aureus</i> **	1 073 339 (658 463-1 639 524)	25 (10-55)	1 575 (702-3 244)	1.00	1 073 339 (658 463-1 639 524)	25 (10-55)	1 575 (702-3 244)
Invasive enteric diseases	77 929 723 (36 606 712-149 676 316)	371 002 (218 593-631 271)	23 070 841 (13 388 154-39 912 033)	0.34 (0.17-0.52)	25 569 838 (10 019 370-58 282 758)	146 981 (81 052-274 835)	9 107 557 (4 891 985-17 483 327)
<i>Brucella</i> spp.	832 633 (337 929-19 560 440)	4 145 (1 557-95 894)	264 073 (100 540-6 187 148)	0.47 (0.30-0.61)	393 239 (143 815-9 099 394)	1 957 (661-45 545)	124 884 (43 153-2 910 416)
Hepatitis A	46 864 406 (14 417 704-111 771 902)	93 961 (29 602-221 677)	4 580 758 (1 599 296-10 408 164)	0.30 (0.14-0.49)	13 709 836 (3 630 847-38 524 946)	27 731 (7 169-77 320)	1 353 767 (383 684-3 672 726)
<i>Listeria monocytogenes</i>	14 169 (6 112-91 175)	3 175 (1 339-20 428)	118 340 (49 634-754 680)	1.00	14 169 (6 112-91 175)	3 175 (1 339-20 428)	118 340 (49 634-754 680)
<i>Mycobacterium bovis</i>	121 268 (99 852-150 239)	10 545 (7 894-14 472)	607 775 (458 364-826 115)	1.00	121 268 (99 852-150 239)	10 545 (7 894-14 472)	607 775 (458 364-826 115)
invasive non-typhoidal <i>Salmonella enterica</i>	596 824 (596 824-596 824)	63 312 (38 986-94 193)	3 895 547 (2 401 034-5 790 874)	0.48 (0.28-0.64)	284 972 (167 455-384 321)	29 391 (14 948-50 463)	1 794 575 (886 443-3 107 172)
<i>Salmonella enterica</i> Paratyphi A	4 826 477 (1 782 796-10 323 273)	33 325 (12 309-71 278)	2 367 164 (875 236-5 066 375)	0.37 (0.19-0.58)	1 741 120 (536 650-4 310 983)	12 069 (3 784-29 521)	855 730 (268 879-2 100 120)
<i>Salmonella enterica</i> Typhi	20 984 683 (7 751 285-44 883 794)	144 890 (53 519-309 903)	10 292 017 (3 805 373-22 027 716)	0.37 (0.19-0.58)	7 570 087 (2 333 263-18 743 406)	52 472 (16 454-128 350)	3 720 565 (1 169 040-9 130 956)
TOTAL	2 000 626 631 (1 494 986 030- 2 942 534 533)	1 092 584 (892 999-1 374 238)	78 730 084 (64 963 913-97 740 062)	0.29 (0.23-0.36)	581 902 722 (400 741 151- 922 031 380)	350 686 (240 030-524 042)	25 175 035 (17 547 264-37 021 003)

Notes: * = Includes Guillain-Barré Syndrome cases and deaths; ** = 61 EUR and other subregion A (low mortality) countries only; *** = 61 EUR and subregion A (low mortality) countries only, and excluding WPR A countries

¹ Note that non-typhoidal *Salmonella enterica* was split over diarrhoeal and invasive disease, whereas in Table 7 it was exclusively listed under diarrhoeal disease agents.

Table A8.2 Median rates of foodborne illnesses, deaths and Disability Adjusted Life Years (DALYs) per 100 000 persons, by region, with 95% uncertainty intervals, 2010.

PATHOGEN*	AFR			AMR			EMR			EUR			SEAR			WPR			GLOBAL		
	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)
Diarrhoeal Disease	9 830 (3 969–21 567)	9 (5–14)	687 (369–1 106)	7 900 (4 497–13 850)	0.5 (0.3–0.7)	44 (30–63)	16 387 (7 729–34 176)	4 (2–6)	354 (218–544)	2 483 (1 439–4 136)	0.3 (0.2–0.4)	23 (16–30)	7 074 (2 570–19 537)	5 (2–9)	363 (177–649)	6 302 (2 501–17 289)	0.3 (0.1–0.5)	33 (17–54)	7 968 (5 373–12 911)	3 (2–4)	229 (160–323)
<i>Campylobacter</i> spp.**	2 221 (335–8 482)	0.8 (0.4–1)	70 (41–112)	1 389 (490–3 207)	0.07 (0.04–0.1)	13 (8–18)	1 873 (488–5 608)	1 (0.6–1)	90 (56–130)	522 (363–687)	0.05 (0.03–0.09)	9 (6–13)	1 152 (200–3 372)	0.4 (0.1–0.9)	33 (9–83)	876 (359–3 855)	0.04 (0.02–0.1)	10 (4–17)	1 390 (752–2 576)	0.3 (0.2–0.5)	31 (22–46)
<i>Cryptosporidium</i> spp.	205 (35–813)	0.2 (0.04–0.4)	13 (3–37)	114 (32–355)	0.007 (0.002–0.02)	0.6 (0.2–2)	346 (52–1 287)	0.04 (0.004–0.2)	4 (0.4–20)	21 (4–70)	0.003 (0–0.009)	0.2 (0.03–0.6)	78 (10–474)	0.09 (0.01–0.4)	6 (0.9–29)	32 (2–170)	0.003 (0–0.03)	0.3 (0.02–3)	125 (57–269)	0.05 (0.02–0.1)	4 (2–11)
<i>Entamoeba histolytica</i>	796 (98–3 868)	0.05 (0.009–0.4)	5 (0.9–39)	212 (16–1 209)	0.001 (0–0.009)	0.3 (0.03–1)	737 (79–3 110)	0.02 (0.002–0.2)	2 (0.3–14)	0 (0–0)	0 (0–0)	0 (0–0)	256 (27–1 188)	0.03 (0.004–0.2)	3 (0.3–17)	229 (0–1 598)	0.001 (0–0.003)	0.3 (0–1)	407 (149–997)	0.02 (0.007–0.08)	2 (0.7–7)
Enteropathogenic <i>E. coli</i>	454 (125–1 215)	2 (0.6–3)	140 (50–282)	189 (35–730)	0.06 (0.01–0.1)	5 (1–12)	430 (116–1 222)	0.7 (0.2–2)	57 (18–131)	8 (3–16)	0 (0–0)	0.005 (0.002–0.01)	594 (62–2 775)	0.9 (0.2–2)	66 (15–146)	166 (8–395)	0.06 (0.003–0.1)	5 (0.2–12)	346 (156–915)	0.5 (0.3–0.9)	43 (23–71)
Enterotoxigenic <i>E. coli</i>	982 (312–2 480)	1 (0.6–3)	109 (46–216)	1 281 (299–3 295)	0.05 (0.01–0.1)	5 (1–12)	4 971 (1 685–10 849)	0.4 (0.1–1)	35 (11–89)	6 (2–13)	0 (0–0)	0.004 (0.001–0.01)	1 075 (229–3 521)	0.6 (0.1–1)	42 (10–104)	555 (43–2 430)	0.04 (0.003–0.1)	4 (0.3–10)	1 257 (714–2 206)	0.4 (0.2–0.6)	30 (17–51)
<i>Giardia</i> spp.	809 (172–2 574)	0 (0–0)	0.8 (0.2–3)	309 (62–1 249)	0 (0–0)	0.3 (0.05–1)	670 (133–2 193)	0 (0–0)	0.6 (0.1–2)	54 (16–123)	0 (0–0)	0.03 (0.009–0.1)	159 (16–903)	0 (0–0)	0.1 (0.01–0.9)	354 (8–1 519)	0 (0–0)	0.3 (0.005–1)	410 (188–828)	0 (0–0)	0.4 (0.2–0.8)
Norovirus	1 749 (491–5 060)	1 (0.3–3)	81 (24–185)	2 491 (898–6 186)	0.1 (0.04–0.3)	9 (3–23)	2 796 (744–7 376)	0.4 (0.1–1)	33 (9–76)	1 652 (630–3 294)	0.05 (0.02–0.1)	4 (1–8)	841 (113–5 631)	1 (0.2–3)	71 (15–230)	1 305 (189–6 441)	0.05 (0.004–0.2)	4 (0.4–17)	1 814 (1 022–3 653)	0.5 (0.2–1)	36 (17–80)
Non-typhoidal <i>Salmonella enterica</i>	896 (175–2 994)	1 (0.5–2)	89 (42–147)	1 002 (378–1 990)	0.1 (0.06–0.2)	7 (4–12)	1 610 (147–4 052)	0.6 (0.3–1)	54 (26–87)	186 (118–275)	0.1 (0.08–0.2)	8 (5–14)	908 (88–4 758)	0.7 (0.2–2)	49 (11–147)	898 (170–6 428)	0.02 (0.01–0.03)	2 (1–7)	1 140 (459–3 065)	0.4 (0.2–0.7)	32 (19–58)
<i>Shigella</i> spp.	523 (45–2 865)	0.5 (0.1–2)	43 (8–124)	278 (35–1 443)	0.02 (0.003–0.05)	1 (0.3–5)	627 (55–4 648)	0.4 (0.07–1)	38 (6–117)	3 (0.9–8)	0.003 (0–0.01)	0.2 (0.03–0.8)	1 084 (177–3 927)	0.3 (0.07–1)	25 (5–83)	689 (19–2 549)	0.04 (0.002–0.1)	4 (0.1–10)	741 (297–1 728)	0.2 (0.1–0.4)	18 (8–37)
Shiga toxin-producing <i>E. coli</i>	5 (2–9)	0 (0–0.002)	0.05 (0.02–0.1)	16 (9–30)	0.004 (0.001–0.01)	0.3 (0.1–0.9)	65 (37–97)	0.002 (0–0.004)	0.2 (0.1–0.5)	18 (9–28)	0.003 (0.001–0.006)	0.3 (0.1–0.8)	19 (2–95)	0.002 (0–0.01)	0.2 (0.02–1)	3 (2–6)	0 (0–0.001)	0.05 (0.02–0.1)	17 (11–37)	0.002 (0–0.005)	0.2 (0.09–0.5)
<i>Vibrio cholerae</i>	43 (13–101)	2 (0.5–4)	112 (35–252)	0.02 (0.008–0.05)	0 (0–0)	0 (0–0)	9 (0.4–28)	0.3 (0.01–1)	20 (0.7–69)	0.03 (0.01–0.06)	0 (0–0)	0 (0–0)	17 (0.7–52)	0.4 (0.007–2)	30 (0.5–109)	0.2 (0.01–0.5)	0.002 (0–0.005)	0.1 (0.005–0.3)	11 (5–23)	0.4 (0.1–0.7)	25 (10–51)
Invasive enteric diseases	425 (156–976)	5 (3–8)	307 (160–508)	31 (11–81)	0.3 (0.2–0.6)	16 (8–35)	394 (80–1 056)	2 (0.7–4)	108 (41–250)	19 (9–51)	0.2 (0.1–0.3)	10 (7–19)	872 (169–2 288)	4 (1–9)	250 (81–598)	163 (30–391)	0.9 (0.3–2)	58 (19–134)	372 (146–847)	2 (1–4)	132 (71–254)

PATHOGEN*	AFR			AMR			EMR			EUR			SEAR			WPR			GLOBAL		
	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)
<i>Brucella</i> spp.	3 (0.4-110)	0.02 (0.002-0.5)	1 (0.1-34)	3 (1-37)	0.01 (0.005-0.2)	0.9 (0.3-12)	33 (10-187)	0.2 (0.05-0.9)	11 (3-60)	4 (1-33)	0.02 (0.006-0.2)	1 (0.4-11)	2 (0.02-302)	0.01 (0-1)	0.8 (0.006-96)	2 (0.5-61)	0.01 (0.002-0.3)	0.6 (0.1-19)	6 (2-132)	0.03 (0.01-0.7)	2 (0.6-42)
Hepatitis A	232 (60-643)	0.5 (0.1-1)	23 (7-60)	12 (3-33)	0.02 (0.006-0.07)	1 (0.3-3)	237 (17-772)	0.5 (0.04-2)	23 (2-74)	11 (3-28)	0.02 (0.006-0.06)	1 (0.3-3)	494 (57-1590)	1 (0.1-3)	48 (6-151)	51 (3-164)	0.1 (0.006-0.3)	5 (0.3-15)	199 (53-560)	0.4 (0.1-1)	20 (6-53)
<i>Listeria monocytogenes</i>	0.1 (0-2)	0.03 (0-0.6)	1 (0-21)	0.3 (0.1-1)	0.07 (0.03-0.3)	3 (1-11)	0.1 (0-2)	0.03 (0-0.6)	1 (0-21)	0.2 (0.2-0.3)	0.04 (0.03-0.06)	2 (1-2)	0.1 (0-2)	0.03 (0-0.6)	1 (0-21)	0.2 (0.1-0.4)	0.04 (0.03-0.09)	1 (1-3)	0.2 (0.09-1)	0.05 (0.02-0.3)	2 (0.7-11)
<i>Mycobacterium bovis</i>	7 (4-9)	0.5 (0.3-0.7)	30 (19-42)	0.1 (0.05-0.2)	0.007 (0.003-0.01)	0.4 (0.2-0.8)	1 (0.8-2)	0.2 (0.08-0.3)	9 (5-18)	0.2 (0.1-0.3)	0.02 (0.01-0.03)	0.9 (0.7-1)	2 (0.9-4)	0.2 (0.1-0.5)	13 (6-26)	0.8 (0.4-1)	0.04 (0.02-0.07)	2 (1-4)	2 (1-2)	0.2 (0.1-0.2)	9 (7-12)
Invasive non-typhoidal <i>Salmonella enterica</i>	25 (12-37)	3 (1-5)	169 (71-306)	0.7 (0.4-0.9)	0.06 (0.03-0.1)	3 (1-5)	1 (0.7-2)	0.1 (0.06-0.3)	8 (3-14)	0.8 (0.6-1)	0.07 (0.04-0.1)	3 (2-5)	2 (0.3-2)	0.2 (0.03-0.3)	9 (2-16)	1 (0.5-2)	0.1 (0.05-0.2)	6 (2-10)	4 (2-6)	0.4 (0.2-0.7)	26 (13-45)
<i>Salmonella enterica</i> Paratyphi A	25 (5-73)	0.2 (0.04-0.5)	12 (3-36)	2 (0.4-7)	0.02 (0.003-0.05)	1 (0.2-4)	17 (2-55)	0.1 (0.01-0.4)	9 (1-28)	0.2 (0.03-1)	0.002 (0-0.008)	0.1 (0.01-0.6)	58 (11-167)	0.4 (0.1-1)	29 (7-83)	18 (3-47)	0.1 (0.02-0.3)	8 (1-20)	25 (8-63)	0.2 (0.05-0.4)	12 (4-31)
<i>Salmonella enterica</i> Typhi	108 (24-317)	0.7 (0.2-2)	53 (12-155)	10 (2-32)	0.07 (0.01-0.2)	5 (0.9-16)	73 (9-240)	0.5 (0.06-2)	37 (5-122)	1 (0.1-5)	0.007 (0-0.03)	0.5 (0.05-2)	250 (50-725)	2 (0.4-5)	128 (29-361)	77 (12-203)	0.5 (0.07-1)	33 (5-87)	110 (34-272)	0.8 (0.2-2)	54 (17-133)
TOTAL	10 304 (4 279-22 108)	14 (8-21)	1 001 (562-1 543)	7 937 (4 515-13 899)	0.8 (0.5-1)	61 (40-93)	16 865 (8 051-34 712)	6 (4-9)	470 (286-728)	2 506 (1 455-4 168)	0.5 (0.3-0.6)	32 (24-45)	8 068 (3 294-20 663)	9 (4-17)	622 (306-1 145)	6 491 (2 630-17 528)	1 (0.6-2)	93 (45-175)	8 369 (5 723-13 318)	5 (3-8)	366 (255-538)

Notes: * Table does not include four foodborne intoxications caused by *Clostridium botulinum*, *Cl. perfringens*, *S. aureus*, and *Bacillus cereus* due to a lack of data for global estimation.

** Includes Guillain-Barré Syndrome cases and deaths

Table A8.3 Median number of Illnesses, Deaths, and Disability Adjusted Life Years (DALYs) by age group, with 95% uncertainty intervals, 2010.

PATHOGEN*	AGE GROUP: <5 YEARS OF AGE			AGE GROUP: ≥5 YEARS OF AGE			RATIO <5:≥5		
	ILLNESSES	DEATHS	DALYS	ILLNESSES	DEATHS	DALYS	ILLNESSES	DEATHS	DALYS
	NUMBER (95% UI)	NUMBER (95% UI)	NUMBER (95% UI)	NUMBER (95% UI)	NUMBER (95% UI)	NUMBER (95% UI)	RATIO <5:≥5 (95% UI)	RATIO <5:≥5 (95% UI)	RATIO <5:≥5 (95% UI)
Diarrhoeal Disease	216 839 210 (148 937 428-309 926 253)	91 621 (62 442-132 707)	8 547 149 (5 903 945-12 254 175)	327 209 075 (179 670 939-643 705 133)	107.500 (69 907-163 979)	7 205 002 (4 790 026-10 747 526)	0.66 (0.32-1.28)	0.86 (0.60-1.16)	1.19 (0.86-1.60)
<i>Campylobacter</i> spp.**	47 988 357 (22 436 891-102 663 926)	13 861 (8 754-23 670)	1 383 499 (911 878-2 279 897)	42 883 268 (18 350 672-112 061 441)	7 436 (4 930-9 974)	750 578 (540 003-956 663)	1.11 (0.34-3.47)	1.91 (1.21-3.08)	1.87 (1.26-2.92)
<i>Cryptosporidium</i> spp.	5 986 213 (2 569 532-12 738 924)	1 989 (678-5 683)	185 057 (64 847-518 497)	2 253 036 (774 628-8 639 265)	1 673 (638-4 149)	104 794 (40 408-256 055)	2.61 (0.69-8.01)	1.23 (0.42-2.72)	1.83 (0.65-3.93)
<i>Entamoeba histolytica</i>	8 480 759 (1 593 697-30 849 576)	896 (90-4 852)	92 213 (15 997-444 002)	17 828 477 (5 378 578-50 963 825)	524 (218-1 110)	43 984 (20 149-85 551)	0.48 (0.08-2.38)	1.75 (0.18-8.71)	2.14 (0.38-9.49)
Enteropathogenic <i>E. coli</i>	17 312 780 (6 767 766-54 104 398)	22 156 (11 944-37 473)	2 004 543 (1 084 856-3 389 584)	5 458 601 (2 145 370-16 561 005)	14 647 (7 305-25 447)	911 012 (457 215-1 575 768)	3.20 (0.85-11.78)	1.52 (1.03-2.29)	2.21 (1.52-3.29)
Enterotoxigenic <i>E. coli</i>	38 352 806 (21 144 875-64 795 160)	14 056 (7 045-26 784)	1 303 490 (668 837-2 446 758)	46 811 878 (20 306 649-103 801 449)	11 933 (6 382-18 887)	767 975 (419 834-1 204 273)	0.82 (0.35-1.96)	1.21 (0.63-2.10)	1.74 (0.95-2.93)
<i>Giardia</i> spp.	18 773 028 (8 075 497-38 649 748)	0 (0-0)	20 677 (8 552-44 101)	8 693 968 (3 337 657-24 195 602)	0 (0-0)	5 016 (1 945-13 791)	2.11 (0.84-5.22)	N/A	4.04 (1.57-10.28)
Norovirus	34 582 700 (19 595 826-59 592 939)	8 992 (4 251-19 347)	844 376 (406 822-1 776 252)	89 056 582 (46 054 795-206 532 318)	25 807 (11 201-61 642)	1 638 925 (730 924-3 844 771)	0.38 (0.19-0.73)	0.35 (0.22-0.54)	0.52 (0.33-0.78)
<i>Salmonella enterica</i> , non-typhoidal	15 274 234 (6 514 539-41 696 874)	12 531 (6 562-30 779)	1 149 675 (609 216-2 792 992)	60 293 254 (18 488 275-189 066 838)	15 807 (8 762-21 942)	1 016 047 (576 408-1 405 079)	0.26 (0.06-1.16)	0.84 (0.44-1.83)	1.19 (0.64-2.57)
<i>Shigella</i> spp.	15 516 627 (5 416 319-38 620 351)	8 863 (3 250-20 925)	819 280 (309 576-1 909 450)	34 049 173 (10 186 959-95 312 884)	6 060 (2 734-11 511)	404 144 (188 009-749 866)	0.45 (0.13-1.70)	1.49 (0.60-3.26)	2.06 (0.87-4.43)
Shiga toxin-producing <i>E. coli</i>	339 905 (217 805-728 708)	63 (30-170)	6 969 (3 278-17 751)	836 948 (536 302-1 794 298)	65 (24-204)	5 989 (2 654-15 877)	0.41 (0.41-0.41)	0.96 (0.81-1.31)	1.16 (1.09-1.29)
<i>Vibrio cholerae</i>	114 518 (46 636-235 152)	3 697 (1 546-7 506)	331 395 (138 538-672 643)	648 933 (264 273-1 332 530)	20 952 (8 758-42 535)	1 390 973 (581 491-2 820 499)	0.18 (0.18-0.18)	0.18 (0.18-0.18)	0.24 (0.24-0.24)
Invasive enteric diseases	4 336 215 (1 675 945-9 422 681)	23 727 (11 866-45 950)	2 180 916 (1 085 765-4 219 254)	21 182 632 (8 375 340-49 059 198)	123 026 (69 306-230 318)	6 900 776 (3 799 471-13 355 093)	0.21 (0.15-0.23)	0.19 (0.14-0.22)	0.32 (0.23-0.35)
<i>Brucella</i> spp.	4 144 (1 527-93 225)	21 (7-463)	1 988 (687-44 999)	389 106 (142 279-9 006 169)	1 936 (654-45 081)	122 904 (42 484-2 865 643)	0.01 (0.01-0.01)	0.01 (0.01-0.01)	0.02 (0.02-0.02)

PATHOGEN*	AGE GROUP: <5 YEARS OF AGE			AGE GROUP: ≥5 YEARS OF AGE			RATIO <5:≥5		
	ILLNESSES	DEATHS	DALYS	ILLNESSES	DEATHS	DALYS	ILLNESSES	DEATHS	DALYS
	NUMBER (95% UI)	NUMBER (95% UI)	NUMBER (95% UI)	NUMBER (95% UI)	NUMBER (95% UI)	NUMBER (95% UI)	RATIO <5:≥5 (95% UI)	RATIO <5:≥5 (95% UI)	RATIO <5:≥5 (95% UI)
Hepatitis A	2 165 243 (573 433-6 084 381)	4 380 (1 132-12 211)	411 592 (112 767-1 130 290)	11 544 593 (3 057 415-32 440 565)	23 351 (6 036-65 109)	941 278 (269 448-2 538 627)	0.19 (0.19-0.19)	0.19 (0.19-0.19)	0.44 (0.39-0.46)
<i>Listeria monocytogenes</i>	1 240 (393-10 502)	330 (126-2 138)	30 750 (11 700-198 862)	12 936 (5 716-80 766)	2 851 (1 200-18 271)	87 569 (36 830-561 221)	0.10 (0.07-0.13)	0.11 (0.08-0.16)	0.34 (0.24-0.49)
<i>Mycobacterium bovis</i>	869 (732-1 049)	76 (58-101)	7 134 (5 477-9 496)	120 398 (99 119-149 188)	10 470 (7 836-14 372)	600 639 (452 917-816 737)	0.01 (0.01-0.01)	0.01 (0.01-0.01)	0.01 (0.01-0.01)
<i>Salmonella enterica</i> , invasive non-typhoidal	45 549 (25 019-62 638)	4 700 (2 268-8 188)	421 523 (203 340-733 940)	239 467 (142 115-321 539)	24 692 (12 655-42 246)	1 373 635 (684 718-2 373 326)	0.19 (0.17-0.20)	0.19 (0.17-0.20)	0.31 (0.29-0.32)
<i>Salmonella enterica</i> Paratyphi A	357 814 (110 286-885 942)	2 480 (778-6 067)	227 507 (71 530-557 578)	1 383 306 (426 364-3 425 041)	9 588 (3 007-23 454)	627 953 (197 302-1 541 909)	0.26 (0.26-0.26)	0.26 (0.26-0.26)	0.36 (0.36-0.36)
<i>Salmonella enterica</i> Typhi	1 555 715 (479 504-3 851 923)	10 783 (3 381-26 377)	989 159 (311 001-2 424 250)	6 014 372 (1 853 758-14 891 483)	41 689 (13 072-101 973)	2 730 232 (857 835-6 703 954)	0.26 (0.26-0.26)	0.26 (0.26-0.26)	0.36 (0.36-0.36)
TOTAL	221 451 463 (153 244 508-315 075 166)	116 613 (80 862-165 379)	10 831 919 (7 587 557-15 271 603)	350 711 509 (199 599 319-673 777 073)	232 916 (152 283-368 498)	14 250 088 (9 419 295-22 483 691)	0.63 (0.32-1.18)	0.50 (0.36-0.68)	0.76 (0.56-1.01)

Notes: * Table does not include four foodborne intoxications due to *Clostridium botulinum*, *Cl. perfringens*, *S. aureus* and *Bacillus cereus* due to a lack of data for global estimation. ** Includes Guillain-Barré Syndrome cases and Deaths

Table A8.4 Median rate per 100 000 of foodborne illness, Deaths and Disability Adjusted Life Years (DALYs) by region, with 95% uncertainty intervals, 2010.

PATHOGEN	AFR			AMR			EMR			EUR			SEAR			WPR			GLOBAL		
	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)
Enteric protozoa#	1995 (549-5866)	0.2 (0.07-0.7)	21 (6-62)	733 (222-2077)	0.009 (0.003-0.03)	1 (0.5-3)	1989 (560-5118)	0.07 (0.01-0.3)	7 (2-28)	77 (21-181)	0.003 (0-0.009)	0.2 (0.04-0.7)	584 (133-1946)	0.1 (0.03-0.4)	11 (3-36)	737 (124-2566)	0.005 (0-0.03)	1 (0.2-4)	976 (520-1752)	0.08 (0.04-0.2)	7 (3-15)
<i>Cryptosporidium</i> spp.#	205 (35-813)	0.2 (0.04-0.4)	13 (3-37)	114 (32-355)	0.007 (0.002-0.02)	0.6 (0.2-2)	346 (52-1287)	0.04 (0.004-0.2)	4 (0.4-20)	21 (4-70)	0.003 (0-0.009)	0.2 (0.03-0.6)	78 (10-474)	0.09 (0.01-0.4)	6 (0.9-29)	32 (2-170)	0.003 (0-0.03)	0.3 (0.02-3)	125 (57-269)	0.05 (0.02-0.1)	4 (2-11)
<i>Entamoeba</i> spp.#	796 (98-3868)	0.05 (0.009-0.4)	5 (0.9-39)	212 (16-1209)	0.001 (0-0.009)	0.3 (0.03-1)	737 (79-3110)	0.02 (0.002-0.2)	2 (0.3-14)	0 (0-0)	0 (0-0)	0 (0-0)	256 (27-1188)	0.03 (0.004-0.2)	3 (0.3-17)	229 (0-1598)	0.001 (0-0.003)	0.3 (0-1)	407 (149-997)	0.02 (0.007-0.08)	2 (0.7-7)
<i>Giardia</i> spp.#	809 (172-2574)	0 (0-0)	0.8 (0.2-3)	309 (62-1249)	0 (0-0)	0.3 (0.05-1)	670 (133-2193)	0 (0-0)	0.6 (0.1-2)	54 (16-123)	0 (0-0)	0.03 (0.009-0.1)	159 (16-903)	0 (0-0)	0.1 (0.01-0.9)	354 (8-1519)	0 (0-0)	0.3 (0.005-1)	410 (188-828)	0 (0-0)	0.4 (0.2-0.8)
Invasive infectious disease	230 (133-387)	0.03 (0.01-0.05)	21 (11-36)	160 (92-263)	0.009 (0.004-0.02)	15 (9-26)	196 (119-295)	0.02 (0.009-0.04)	19 (11-30)	119 (80-189)	0.005 (0.002-0.01)	8 (5-14)	137 (56-245)	0.006 (0.002-0.01)	10 (4-19)	117 (65-177)	0.005 (0.002-0.01)	8 (4-13)	149 (108-217)	0.01 (0.005-0.02)	12 (8-18)
<i>Toxoplasma gondii</i> , congenital	2 (0.8-4)	0.03 (0.01-0.05)	8 (4-15)	1 (0.7-2)	0.009 (0.004-0.02)	5 (3-9)	1 (0.7-3)	0.02 (0.009-0.04)	7 (4-13)	0.3 (0.2-0.7)	0.005 (0.002-0.01)	2 (1-3)	0.4 (0.1-0.9)	0.006 (0.002-0.01)	2 (0.8-5)	0.3 (0.2-0.7)	0.005 (0.002-0.01)	2 (1-4)	0.7 (0.5-1)	0.01 (0.005-0.02)	4 (2-6)
<i>Toxoplasma gondii</i> , acquired	229 (132-386)	0 (0-0)	12 (6-22)	159 (92-261)	0 (0-0)	10 (5-17)	195 (118-292)	0 (0-0)	11 (6-18)	119 (79-188)	0 (0-0)	6 (4-10)	137 (55-244)	0 (0-0)	8 (3-15)	116 (65-176)	0 (0-0)	6 (3-10)	149 (107-216)	0 (0-0)	8 (5-13)
Cestodes	15 (11-37)	2 (1-3)	177 (131-247)	4 (3-7)	0.1 (0.08-0.2)	20 (15-26)	0.7 (0.3-1.8)	0.009 (0.002-0.2)	0.8 (0.2-17)	1 (0.5-2)	0.04 (0.02-0.2)	2 (1-10)	9 (7-13)	0.4 (0.3-0.5)	38 (28-50)	4 (3-6)	0.6 (0.2-1)	41 (23-60)	6 (5-11)	0.5 (0.4-0.7)	46 (35-60)
<i>Echinococcus granulosus</i>	0.7 (0.2-2.3)	0.007 (0.001-0.2)	0.6 (0.2-1.8)	0.3 (0.1-3)	0.004 (0-0.04)	0.3 (0.1-3)	0.7 (0.3-1.8)	0.009 (0.002-0.2)	0.7 (0.2-17)	0.8 (0.4-2)	0.009 (0.003-0.03)	0.8 (0.3-2)	0.8 (0.2-2)	0.008 (0.002-0.03)	0.6 (0.2-2)	0.3 (0.09-0.7)	0.004 (0-0.01)	0.3 (0.08-0.8)	0.6 (0.4-5)	0.007 (0.002-0.06)	0.6 (0.2-5)
<i>Echinococcus multilocularis</i>	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0.002)	0 (0-0.001)	0.01 (0.004-0.05)	0.07 (0.03-0.4)	0.03 (0.01-0.2)	1 (0.4-8)	0 (0-0)	0 (0-0)	0.006 (0-0.03)	0.4 (0-0.8)	0.4 (0-0.8)	16 (0-34)	0.1 (0.01-0.2)	0.1 (0.004-0.2)	5 (0.1-9)
<i>Taenia solium</i>	14 (11-19)	2 (1-3)	175 (129-241)	3 (3-4)	0.1 (0.08-0.1)	19 (15-25)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0.002 (0.001-0.003)	0.2 (0.1-0.4)	8 (6-11)	0.4 (0.3-0.5)	37 (28-50)	4 (3-5)	0.2 (0.1-0.3)	24 (18-32)	5 (4-7)	0.4 (0.3-0.5)	41 (31-52)
Nematodes	170 (68-288)	0.02 (0.005-0.07)	9 (4-17)	130 (60-793)	0.01 (0.004-0.04)	7 (3-57)	200 (72-282)	0.02 (0.004-0.06)	10 (4-15)	8 (4-12)	0.002 (0-0.006)	0.6 (0.3-1)	255 (88-461)	0.01 (0.001-0.08)	12 (4-23)	213 (57-358)	0.01 (0.001-0.06)	10 (3-20)	179 (121-334)	0.01 (0.006-0.04)	9 (6-19)
<i>Ascaris</i> spp.	170 (68-288)	0.02 (0.005-0.07)	9 (4-17)	130 (60-793)	0.01 (0.003-0.04)	7 (3-57)	200 (72-282)	0.02 (0.004-0.06)	10 (4-15)	8 (4-11)	0.002 (0-0.006)	0.6 (0.3-1)	255 (88-461)	0.01 (0.001-0.08)	12 (4-23)	213 (57-358)	0.01 (0.001-0.06)	10 (3-20)	178 (120-334)	0.01 (0.006-0.04)	9 (6-19)
<i>Trichinella</i> spp.	0 (0-0.001)	0 (0-0)	0.001 (0-0.002)	0.06 (0.04-0.07)	0 (0-0)	0.009 (0.005-0.01)	0.002 (0-0.003)	0 (0-0)	0 (0-0)	0.4 (0.3-0.5)	0 (0-0)	0.04 (0.02-0.07)	0.002 (0-0.004)	0 (0-0)	0 (0-0.001)	0.01 (0.004-0.02)	0 (0-0)	0.004 (0.001-0.007)	0.06 (0.04-0.09)	0 (0-0)	0.008 (0.004-0.01)
Trematodes	0.006 (0.002-0.02)	0 (0-0)	0.04 (0.01-0.1)	1 (0.8-2)	0 (0-0.001)	9 (7-13)	0.6 (0.4-0.9)	0 (0-0)	5 (3-7)	0.06 (0.04-0.1)	0 (0-0)	0.4 (0.3-0.8)	0.7 (0.5-1)	0.06 (0.05-0.08)	8 (6-10)	11 (8-14)	0.4 (0.3-0.4)	97 (78-120)	3 (2-4)	0.1 (0.09-0.1)	29 (24-36)
<i>Clonorchis sinensis</i>	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0.01 (0.008-0.01)	0.004 (0.001-0.01)	0 (0-0.001)	0.04 (0.01-0.1)	2 (1-2)	0.3 (0.3-0.4)	29 (24-35)	0.5 (0.3-0.7)	0.08 (0.07-0.1)	8 (6-9)

PATHOGEN	AFR			AMR			EMR			EUR			SEAR			WPR			GLOBAL		
	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)	ILLNESSES (95% UI)	DEATHS (95% UI)	DALYS (95% UI)
<i>Fasciola</i> spp.	0.003 (0-0.008)	0 (0-0)	0.02 (0.007-0.06)	0.5 (0.3-0.9)	0 (0-0)	4 (2-7)	0.6 (0.4-0.8)	0 (0-0)	5 (3-7)	0.006 (0.002-0.02)	0 (0-0)	0.06 (0.02-0.2)	0.006 (0.002-0.02)	0 (0-0)	0.05 (0.02-0.1)	0.09 (0.01-0.8)	0 (0-0)	0.8 (0.1-7)	0.2 (0.1-0.4)	0 (0-0)	1 (0.8-3)
Intestinal flukes *	0 (0-0.003)	0 (0-0)	0.006 (0.002-0.02)	0.009 (0.003-0.03)	0 (0-0)	0.08 (0.02-0.3)	0.009 (0.003-0.03)	0 (0-0)	0.07 (0.03-0.2)	0.006 (0.003-0.01)	0 (0-0)	0.05 (0.02-0.1)	0.02 (0.006-0.05)	0 (0-0)	0.1 (0.05-0.4)	1 (0.8-1)	0 (0-0)	8 (6-11)	0.3 (0.2-0.4)	0 (0-0)	2 (2-3)
<i>Opisthorchis</i> spp.	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0.05 (0.04-0.08)	0 (0-0)	0.3 (0.2-0.5)	0.6 (0.4-0.9)	0.06 (0.05-0.07)	8 (6-10)	0.2 (0.2-0.3)	0.02 (0.02-0.03)	3 (2-3)	0.2 (0.2-0.3)	0.02 (0.02-0.03)	3 (2-3)
<i>Paragonimus</i> spp.	0.002 (0-0.007)	0 (0-0)	0.02 (0.005-0.05)	0.6 (0.4-0.8)	0 (0-0.001)	5 (3-7)	0.002 (0-0.006)	0 (0-0)	0.02 (0.006-0.05)	0.001 (0-0.004)	0 (0-0)	0.009 (0.003-0.03)	0.008 (0.002-0.04)	0 (0-0)	0.06 (0.02-0.3)	7 (5-10)	0.01 (0.008-0.02)	55 (39-76)	2 (1-3)	0.004 (0.002-0.005)	15 (11-21)
TOTAL (excluding enteric protozoa)	418 (277-644)	2 (1-3)	208 (159-283)	293 (195-1 035)	0.1 (0.1-0.2)	51 (41-112)	398 (253-535)	0.05 (0.03-0.3)	35 (25-58)	128 (89-199)	0.05 (0.03-0.2)	11 (8-24)	404 (220-649)	0.5 (0.4-0.6)	69 (54-89)	346 (188-512)	1 (0.5-1)	156 (127-193)	337 (265-553)	0.7 (0.5-0.9)	96 (82-122)
TOTAL	2 428 (934-6 426)	2 (2-3)	232 (176-317)	1 060 (507-2 790)	0.1 (0.1-0.2)	53 (42-113)	2 390 (933-5 535)	0.1 (0.05-0.4)	44 (30-76)	210 (136-328)	0.05 (0.03-0.2)	12 (8-24)	1 007 (461-2 491)	0.6 (0.5-1)	80 (61-114)	1 089 (429-3 088)	1 (0.6-1)	158 (128-195)	1 325 (851-2 237)	0.8 (0.6-1)	104 (88-132)

Notes: * Includes selected species of the families Echinostomatidae, Fasciolidae, Gymnophallidae, Heterophyidae, Nanophyetidae, Neodiplostomidae and Plagiorchiidae (depending on data availability). # Enteric protozoa are included to complete the picture for foodborne parasitic diseases, but are reported in detail elsewhere [5]. Illnesses are defined as the numbers of new cases in 2010. For *Taenia solium* this is estimated from GBD2010 [9] regional incidence data and modified as the actual number of cases of epilepsy attributed to cysticercosis. The YLD component of the DALY for cysticercosis is prevalence-based, estimated from GBD2010 data.