13 Beaches Tables

Table 1: Population Attributable Risk Among Beachgoers Due to Body Immersion Swimming.

			Predicted I	1000	Population Attributable Risk ²		Population Attributable Fraction ³	
	Ν	Ν	Observed	No Swim	((95% CI)		(95% CI)
	Events	At Risk	Exposure	Exposure				
Diarrhea, episodes								
All Ages	3,409	86,058	40	31	8.3	(6.3, 10.2)	21%	(16%, 26%)
Age Stratified								
Ages 0 to 4	398	6,794	59	45	13.5	(3.1, 22.8)	23%	(5%, 39%)
Ages 5 to 10	393	11,251	35	19	15.8	(6.7, 24.0)	45%	(20%, 67%)
Ages >10	2,585	66,808	39	32	6.6	(4.7, 8.5)	17%	(12%, 22%)
Gastrointestinal								
illness ⁴ , episodes	F 004	00.050	50	50	0.0	(0.4.44.0)	450/	(440/ 400/)
All Ages	5,024	86,058	58	50	8.8	(6.4, 11.3)	15%	(11%, 19%)
Age Stratified	EGO	6.704	00	60	20.0	(0.0.21.0)	050/	(110/ 200/)
Ages 0 to 4 Ages 5 to 10	562 697	6,794 11,251	83 62	62 51	20.8 10.7	(9.2, 31.9) (-2.8, 23.4)	25%	(11%, 39%)
Ages > 10	3,716	66,808	56	48	7.6	(-2.6, 23.4) (5.4, 9.8)	17% 14%	(-5%, 37%) (10%, 18%)
Ages > 10	5,710	00,000	30	40	7.0	(5.4, 9.0)	14 /0	(1076, 1076)
Missed Daily								
Activities 5 , days								
All Ages	4,551	86,058	53	48	4.7	(0.1, 8.9)	9%	(0%, 17%)
Age Stratified								
Ages 0 to 4	445	6,794	68	42	26.7	(8.8, 42.7)	40%	(14%, 63%)
Ages 5 to 10	691	11,251	61	54	7.9	(-17.1, 28.5)	13%	(-27%, 47%)
Ages >10	3,377	66,808	51	46	4.1	(0.3, 8.2)	8%	(1%, 17%)
Missed Paid Work ⁶ , days								
All Ages ⁸	1,051	86,058	12	13	-0.7	(-2.5, 1.2)	na	
Medical Visits ⁷ , events								
All Ages ⁸	915	86,058	11	10	0.4	(-1.2, 1.9)	4%	(-11%, 18%)

^{1.} Predicted incidence per 1000 among all beachgoers under the empirical distribution of swim exposure (observed) and under a counterfactual scenario where nobody entered the water. Estimates are from a multivariable regression model adjusted for a range of potential confounders and beach level fixed-effects (see text for details).

^{2.} Population Attributable Risk is the number of events per 1000 beachgoers that would be prevented if swimming exposure were removed from the population. The proportion exposed to body immersion swimming was: all ages (55%), ages 0-4 (58%), ages 5-10 (80%), ages >10 (51%). Table 1 includes additional details.

^{3.} Population Attributable Fraction is the percentage of events among beachgoers attributable to body immersion swimming.

^{4.} Gastrointestinal illness was defined as (i) diarrhea or (ii) vomiting or (iii) stomach cramps and missed daily activities or (iv) nausea and missed daily activities.

^{5.} Includes days of school, work, or vacation missed because of gastrointestinal illness.

^{6.} Includes work days missed because of gastrointestinal illness.

^{7.} Includes phone consultations, outpatient visits, and emergency room visits due to gastrointestinal illness.

^{8.} Outcome incidence was too rare to calculate age-stratified estimates.

Table 2: Population Attributable Risk Among Body Immersion Swimmers Due to Swimming in Water That Exceeds the USEPA Guideline of *Enterococcus* >35 CFU/100ml.

			Predicted Incidence ¹ per 1000		Population Attributable Risk ²		Population Attributable Fraction ³	
	Ν	Ν	Observed	AII ≤35	(95% CI)		(95% CI)
	Events	At Risk	Exposure	CFU/100ml				
Diarrhea, episodes								
All Ages	2,041	47,240	43	42	1.3	(0.2, 2.4)	3%	(1%, 6%)
Age Stratified								
Ages 0 to 4	266	3,915	68	65	3.1	(-2.2, 7.8)	5%	(-3%, 11%)
Ages 5 to 10	335	8,875	38	35	2.4	(-0.3, 5.3)	6%	(-1%, 14%)
Ages >10	1,415	33,733	42	41	0.9	(-0.2, 2.1)	2%	(-1%, 5%)
Gastrointestinal illness ⁴ , episodes								
All Ages	2,942	47,240	62	61	1.0	(-0.3, 2.3)	2%	(-0%, 4%)
Age Stratified	270	2.015	97	02	2.6	(2201)	10/	(20/ 00/)
Ages 0 to 4 Ages 5 to 10	379 575	3,915 8,875	97 65	93 63	3.6 1.6	(-2.2, 9.1) (-1.8, 5.2)	4% 2%	(-2%, 9%) (-3%, 8%)
Ages > 10	1,950	33,733	58	57	0.6	(-0.7, 2.1)	1%	(-1%, 4%)
Missed Daily Activities ⁵ , days								
All Ages Age Stratified	2,677	47,240	57	56	0.6	(-1.5, 2.6)	1%	(-3%, 5%)
Ages 0 to 4	328	3,915	86	80	6.1	(-3.7, 15.9)	7%	(-5%, 18%)
Ages 5 to 10	557	8,875	62	63	-0.3	(-5.5, 5.2)	na	(370, 1370)
Ages >10	1,770	33,733	52	52	0.3	(-1.6, 2.4)	1%	(-3%, 4%)
Missed Paid Work ⁶ , days								
All Ages ⁸	596	47,240	13	13	-0.2	(-1.0, 0.6)	na	
Medical Visits ⁷ , events								
All Ages ⁸	583	47,240	12	12	0.0	(-0.5, 0.6)	0%	(-4%, 5%)

^{1.} Predicted incidence per 1000 among body immersion swimmers under the empirical distribution of *Enterococcus* exposure (observed) and under a counterfactual scenario where nobody entered the water in conditions >35 CFU/100ml. Estimates are from a multivariable regression model adjusted for a range of potential confounders and beach level fixed-effects (see text for details).

Population Attributable Risk is the number of events per 1000 swimmers that would be prevented if the exposure of swimming in water with *Enterococcus* ≥35 CFU/100ml were removed from the population. The proportion of swimmers exposed to water with *Enterococcus* EPA 1600 >35 CFU/100ml was: all ages (16%), ages 0-4 (20%), ages 5-10 (21%), ages >10 (14%).

^{3.} Population Attributable Fraction is the percentage of events among swimmers attributable to swimming in water with *Enterococcus* ≥35 CFU/100ml.

^{4.} Gastrointestinal illness was defined as (i) diarrhea or (ii) vomiting or (iii) stomach cramps and missed daily activities or (iv) nausea and missed daily activities.

^{5.} Includes days of school, work, or vacation missed because of gastrointestinal illness.

^{6.} Includes work days missed because of gastrointestinal illness.

^{7.} Includes phone consultations, outpatient visits, and emergency room visits due to gastrointestinal illness.

^{8.} Outcome incidence was too rare to calculate age-stratified estimates.