

TABLE A21. GASTROINTESTINAL (GI) AND HIGHLY CREDIBLE GI (HCGI) SYMPTOM RATES FOR NEW YORK CITY TRIALS CLUSTERED BY FECAL COLIFORM DENSITIES

Year	Fecal Coliform Density/100 ml	N		Rate/GI Symptoms		Rate/HCGI Symptoms	
		Swim ¹	Nonswim ²	Swim	Nonswim	Swim	Nonswim
				Per 1000 Persons	Per 1000 Persons	Per 1000 Persons	Per 1000 Persons
1973	21.6	484	197	81	46	30	15
	165	474	167	72	24	46	18
1974	18.0	958	472	35	34	10.4	6.4
	39.0	1133	1246	48	43	10.7	6.4
1975	252	625	419	42	17	16.0	2.4
	614	831	440	43	23	18.1	—
1975	2449	236	184	72	49	21.2	5.4
	41.6	1131	472	69	57	16	23
1975	169	1457	680	55	44	13	13
	324	724	223	54	27	22	4.5
1975	552	1123	333	62	48	24	6.0
	1312	292	96	72	31	34.5	—

¹ Swimmer.

² Nonswimmer.

³ Swimming-Associated (swimmer-nonswimmer).

*p<.05; **p<.01.

TABLE A22. GASTROINTESTINAL (GI) AND HIGHLY CREDIBLE GI (HCGI) SYMPTOM RATES FOR NEW YORK CITY TRIALS CLUSTERED BY TOTAL COLIFORM DENSITIES

Year	Total Coliform Density/100 ml	N		Rate/GI Symptoms Per 1000 Persons ▲ ³		Rate/HCGI Symptoms Per 1000 Persons ▲	
		Swim ¹	Nonswim ²	Swim	Nonswim	Swim	Nonswim
1973	39.8	487	197	81	46	30	15
	983	474	167	72	24	46	18
1974	28.0	958	472	35	34	10.4	6.4
	62.7	1133	1246	48	43	10.6	6.4
	866	1086	719	44	22	16.6	1.4
	2380	606	324	51	31	19.8	3.1
1975	109	717	318	56	54	12.6	12.6
	212	1074	597	58	50	13.0	20.1
	576	1618	478	62	34	22.2	8.4
	1071	694	229	69	57	20.2	8.7
	2221	604	182	63	33	28.1	5.5

¹ Swimmer.

² Nonswimmer.

³ Swimming-Associated (swimmer-nonswimmer).

*p<.05; **p<.01.

TABLE A23. GASTROINTESTINAL (GI) AND HIGHLY CREDIBLE GI (HCGI) SYMPTOM RATES FOR NEW YORK CITY TRIALS CLUSTERED BY *Klebsiella* DENSITIES

Year	<i>Klebsiella</i> Density/100 ml	N		Rate/GI Symptoms ▲ ³		Rate/HCGI Symptoms	
		Swim ¹	Nonswim ²	Swim Per 1000 Persons	Nonswim Per 1000 Persons	Swim Per 1000 Persons	Nonswim Per 1000 Persons
1973	13.7	484	197	81	46	30	15
	122	474	167	72	24	46	18
1974	3.7	2767	2156	39	35	11.9	11.6
	18.0	463	289	17	21	2.2	3.4
1975	45.0	825	541	53	26	20.5	—
	336	606	324	51	31	19.8	3.1
	22.0	1475	607	62	51	11.5	21.4
	58.0	1182	668	55	49	16.9	12.0
	130	566	148	64	20	24.7	—
	203	633	136	65	44	30.0	22.1
	378	841	245	65	37	23.8	4.1

¹ Swimmer.

² Nonswimmer.

³ Swimming-Associated (swimmer-nonswimmer).

*p<.05; **p<.01.

TABLE A24. GASTROINTESTINAL (GI) AND HIGHLY CREDIBLE GI (HCGI) SYMPTOM RATES FOR NEW YORK CITY TRIALS CLUSTERED BY *Enterobacter-Citrobacter* DENSITIES

Year	Enterocitro. Density/100 ml	N		Rate/GI Symptoms		Rate/HCGI Symptoms	
		Swim ¹	Nonswim ²	Swim	Nonswim Per 1000 Persons	Swim	Nonswim Per 1000 Persons
1973	11.1	484	197	81	46	30	15
	530	474	167	72	24	46	18
1974	2.0	958	472	35	34	10.4	6.4
	7.5	970	710	27	17	8.2	2.8
1975	20.0	596	775	54	53	8.4	7.7
	316	1086	719	44	22	16.6	1.4
1975	485	572	251	31	20	12.2	—
	935	236	184	72	45	21.2	5.4
1975	35.5	1136	560	59	48	14.1	16.1
	224	1652	616	56	46	12.1	14.6
1975	376	725	276	59	40	29.0	14.5
	606	590	170	80	59	27.1	5.9
	1269	604	182	63	33	28.1	5.5

¹ Swimmer.

² Nonswimmer.

³ Swimming-Associated (swimmer-nonswimmer).

*p<05. **p<01.

TABLE A25. GASTROINTESTINAL (GI) AND HIGHLY CREDIBLE GI (HCGI) SYMPTOM RATES FOR NEW YORK CITY TRIALS CLUSTERED BY *P. aeruginosa* DENSITIES

Year	<i>P. aeruginosa</i> Density/100 ml	N		Rate/GI Symptoms ▲ ³		Rate/HCGI Symptoms ▲	
		Swim ¹	Nonswim ²	Swim	Nonswim	Swim	Nonswim
1973	6.5	484	197	81	46	30	15
	30.4	474	167	72	24	46	18
1974	2.0	1277	879	30	28	9.4	8.0
	6.0	873	730	37	29	10.4	4.1
	22.0	936	492	43	20	17.1	—
	60.0	261	178	15	11	3.8	5.6
1975	377.0	461	300	48	30	17.4	—
	8.0	1097	480	58	60	13.7	20.8
	19.5	1111	448	43	38	18.9	11.1
	34.2	543	116	76	35	23.9	17.5
	60.7	389	182	72	55	20.6	5.5
	173	736	192	68	37	32.6	—

¹ Swimmer.

² Nonswimmer.

³ Swimming-Associated (swimmer-nonswimmer).

*p<.05, **p<.01.

TABLE A26. GASTROINTESTINAL (GI) AND HIGHLY CREDIBLE GI (HCGI) SYMPTOM RATES FOR NEW YORK CITY TRIALS CLUSTERED BY *A. hydrophila* DENSITIES

Year	<i>A. hydrophila</i> Density/100 ml	N		Rate/GI Symptoms Per 1000 Persons ▲ ³		Rate/HCGI Symptoms Per 1000 Persons ▲	
		Swim ¹	Nonswim ²	Swim	Nonswim	Swim	Nonswim
1973	26.5	484	197	81	46	30	15
	25.3	474	167	72	24	46	18
1974	1.7	1085	1157	39	34	11.1	6.9
	5.0	827	530	36	21	12.1	1.9
	8.5	1083	513	42	31	12.9	3.9
	25.8	1423	911	40	36	10.5	2.2
1975	2.4	471	251	66	40	8.5	8.0
	40.9	1280	580	63	53	14.8	20.7
	140	1076	365	69	38	21.4	13.7
	412	1210	403	53	52	21.5	7.4
	1182	322	109	71	28	34.2	—

¹ Swimmer.

² Nonswimmer.

³ Swimming-Associated (swimmer-nonswimmer).

*p<05. **p<01.

TABLE A27. GASTROINTESTINAL (GI) AND HIGHLY CREDIBLE GI (HCGI) SYMPTOM RATES FOR NEW YORK CITY TRIALS CLUSTERED BY *C. perfringens* DENSITIES

Year	<i>C. perfringens</i> Density/100 ml	N		Rate/GI Symptoms Per 1000 Persons		Rate/HCGI Symptoms Per 1000 Persons		▲ ³
		Swim ¹	Nonswim ²	Swim	Nonswim	Swim	Nonswim	
1974	3.8	1767	1269	33	24	10.2	2.4	9
	10.3	1253	531	34	19	12.8	6.0	15
1975	32.7	778	779	46	36	15.4	6.4	10
	351.	384	348	57	66	2.6	5.7	-9
	9.3	617	267	75	45	19.4	11.2	30
	18.2	699	312	64	67	14.3	25.6	-3
	28.7	1178	713	48	41	17.8	11.2	7
	68.6	607	172	61	41	31.3	5.8	20

¹ Swimmer.

² Nonswimmer.

³ Swimming-Associated (swimmer-nonswimmer).

*p<.05; **p<.01.

TABLE A28. GASTROINTESTINAL (GI) AND HIGHLY CREDIBLE GI (HCGI) SYMPTOM RATES FOR NEW YORK CITY TRIALS CLUSTERED BY *Staphylococcus* DENSITIES

Year	<i>Staphylococcus</i> Density/100 ml	N		Rate/GI Symptoms Per 1000 Persons		Rate/HCGI Symptoms Per 1000 Persons	
		Swim ¹	Nonswim ²	Swim	Nonswim	Swim	Nonswim
1974	32.0	433	239	9.2	—	2.3	—
	112	1060	508	43	39	12.3	5.9
	189	1081	785	33	43	4.6	3.8
	344	946	808	49	30	20.1	6.2
1975	719	998	949	44	24	15.0	2.1
	11.7	631	251	76	52	17.4	19.9
	76.9	1175	544	57	39	12.8	3.7
	197	947	399	66	65	23.2	30.1
	655	660	224	58	31	16.7	4.5
	1572	946	290	58	41	25.4	6.9

¹ Swimmer

² Nonswimmer

³ Swimming-Associated (swimmer-nonswimmer)

*p< .05, **p<.01.

TABLE A29. GASTROINTESTINAL (GI) AND HIGHLY CREDIBLE GI (HCGI) SYMPTOM RATES FOR NEW YORK CITY TRIALS CLUSTERED BY *V. parahaemolyticus* DENSITIES

Year	<i>V. parahaemolyticus</i> Density/100 ml	N		Rate/GI Symptoms ▲ ³		Rate/HCGI Symptoms ▲	
		Swim ¹	Nonswim ²	Swim Per 1000 Persons	Nonswim Per 1000 Persons	Swim Per 1000 Persons	Nonswim Per 1000 Persons
1974	8.4	998	771	44	27	15	2.6
	36.2	1589	800	33	24	11.3	5.0
	303	635	350	13	11	1.6	—
1975	3.8	1907	939	64	50	16.3	13.8
	35.5	1369	468	57	41	16.1	15.0
	121	674	169	65	47	31.2	12.5
	444	390	132	64	38	23.1	—

¹ Swimmer.

² Nonswimmer.

³ Swimming-Associated (swimmer-nonswimmer).

*p<.05; **p<.01.

TABLE A30. MEAN AND RANGE OF INDICATOR DENSITIES FOR ALL TRIALS CONDUCTED DURING A GIVEN YEAR (SUMMER), NEW YORK CITY BEACHES

Year	Beach	Enterococci		Escherichia coli		Indicator Density Per 100 ml Fecal Coliforms		Total Coliforms	
		Mean	Range	Mean	Range	Mean	Range	Mean	Range
1973	Rockaways	21.8	5-30	24.8	12-34	21.5	10-31	39.8	22-68
	Coney Island	91.2	23-186	174	40-709	165	49-431	983	256-5015
1974	Rockaways	3.5	2-7	2.4	1-9	28.4	17-50	43.2	26-80
	Coney Island	16.4	7-33	15.3	4-35	565	231-2449	1213	765-2938
1975 ¹	Coney Island(C)	17.9	6-199	52.4	22-506	184	37-585	426	93-1920
	Coney Island(B)	27.7	6-298	98.6	60-659	359	68-1824	633	179-3450
	Coney Island(A)	6.7	2-88	61.3	23-318	130	28-478	844	141-1167
	Coney Island(D)	14.2	8-26	157	137-292	405	326-565	1050	765-1332

Year	Beach	Klebsiella sp.		Enter.-Citro.		Indicator Density Per 100 ml P. aeruginosa		A. hydrophila	
		Mean	Range	Mean	Range	Mean	Range	Mean	Range
1973	Rockaways	13.7	1-15	11.1	1-24	6.5	1-11	26.5	2-39
	Coney Island	122	49-260	530	123-3612	30.4	8-45	25.3	1-244
1974	Rockaways	3.5	2-5	6.6	2-21	3.1	0-6	4.9	1-33
	Coney Island	59.2	11-473	434	93-281	45.8	16-377	9.6	5-27
1975 ¹	Coney Island(C)	56.4	9-288	288	63-140	26.6	9-126	63.2	2-163
	Coney Island(B)	126	30-1780	348	89-197	47.7	10-661	124	3-899
	Coney Island(A)	75	16-288	204	60-377	16.7	5.4-66	216	18-1740
	Coney Island(D)	279	209-389	545	94-318	51.9	35-78	ND	ND

¹ Coney Island Beaches: (C) 2nd-4th Streets, Brighton; (B) 8th-10th Streets; (A) 18th-24th Streets; (D) 34th-38th Streets.