13 Beaches Tables

Table 1: Population Attributable Risk Among Beachgoers Due to Body Immersion Swimming. Estimates from a pooled analysis of 13 prospective cohorts in the United States, 2003-2009.

| | N | N | Predicted Incidence ^a per 1000 Observed No Swim | | Population Attributable Risk ^b (95% CI) | | Population Attributable Fraction ^c (95% CI) | |
|---|--------|---------|---|----------|--|---------------|--|---------------|
| | Events | At Risk | Exposure | Exposure | | | | |
| D: 1 : 1 | | | | | | | | |
| Diarrhea, episodes | 0.400 | 00.400 | 44 | 00 | 0.0 | (0.0.40.0) | 040/ | (100/ 000/) |
| All Ages | 3,409 | 82,463 | 41 | 33 | 8.6 | (6.6, 10.6) | 21% | (16%, 25%) |
| Age Stratified | 200 | 6.204 | 60 | 40 | 117 | (2.0. OF 2) | 000/ | (69/ 409/) |
| Ages 0 to 4 | 398 | 6,394 | 62 | 48 | 14.7 | (3.8, 25.3) | 23% | (6%, 40%) |
| Ages 5 to 10 | 393 | 10,633 | 37 | 20 | 16.9 | (7.3, 26.1) | 46% | (20%, 69%) |
| Ages >10 | 2,585 | 64,295 | 40 | 33 | 6.9 | (4.8, 8.9) | 17% | (12%, 22%) |
| Gastrointestinal illness d, episodes | | | | | | | | |
| All Ages | 5,024 | 82,463 | 61 | 52 | 9.2 | (6.6, 11.8) | 15% | (11%, 19%) |
| Age Stratified | -,- | , | | | | (, | | (, , , , , , |
| Ages 0 to 4 | 562 | 6,394 | 88 | 66 | 22.4 | (9.9, 34.8) | 25% | (12%, 40%) |
| Ages 5 to 10 | 697 | 10,633 | 66 | 54 | 11.8 | (-2.6, 24.7) | 18% | (-4%, 37%) |
| Ages >10 | 3,716 | 64,295 | 58 | 50 | 7.8 | (5.4, 10.1) | 14% | (9%, 17%) |
| Missed Daily | | | | | | | | |
| Activities ^e , days | | | | | | | | |
| All Ages | 4,551 | 82,463 | 55 | 50 | 4.9 | (0.4, 9.2) | 9% | (1%, 17%) |
| Age Stratified | | | | | | | | |
| Ages 0 to 4 | 445 | 6,394 | 70 | 43 | 27.1 | (7.7, 44.5) | 39% | (12%, 61%) |
| Ages 5 to 10 | 691 | 10,633 | 65 | 58 | 7.2 | (-17.0, 29.6) | 11% | (-26%, 45%) |
| Ages >10 | 3,377 | 64,295 | 53 | 48 | 4.3 | (0.1, 8.9) | 8% | (0%, 17%) |
| Missed Paid Work ^f , days | | | | | | | | |
| All Ages ^h | 1,051 | 82,463 | 13 | 13 | -0.6 | (-2.8, 1.3) | na | |
| Medical Visits ⁹ , events | | | | | | | | |
| All Ages ^h | 915 | 82,463 | 11 | 11 | 0.4 | (-1.3, 2.1) | 4% | (-12%, 18%) |

a 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).

b 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 (56%), ages 0-4 (59%), ages 5-10 (81%), ages >10 (52%). Supplement File 1 Appendix 2 includes additional details.

c Population Attributable Fraction is the percentage of events among beachgoers attributable to body immersion swimming.

d 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.

e Includes days of school, work, or vacation missed because of gastrointestinal illness.

f Includes work days missed because of gastrointestinal illness.

g Includes phone consultations, outpatient visits, and emergency room visits due to gastrointestinal illness.

h Outcome incidence was too rare to calculate age-stratified estimates.