

Does bicycle legislation and safety information have any relation to helmet usage among children? M.L. Macknin and S.V. Medendorp investigated this question in their paper “Association between bicycle helmet legislation, bicycle safety education, and use of helmets in children,” which appeared in the journal *Archives of Pediatric and Adolescent Medicine* in 1994. They examined two comparable suburbs of Cleveland: Beachwood, where a safety education program and a helmet law were in place, and Morland Hills, where neither existed. Macknin and Medendorp found that 68% of elementary school children in Beachwood said that they always wore a helmet when bicycling, while 21% of elementary school students in Morland Hills reported this. Assume that there are twice as many elementary school students in Beachwood as in Morland Hills. You see a child riding their bicycle while not wearing a helmet. What is the probability they come from Beachwood?