

Consider a family with a mother, father, and two children. Define the following events.

- A_1 : the event that the mother has influenza
- A_2 : the event that the father has influenza
- A_3 : the event that the first child has influenza
- A_4 : the event that the second child has influenza
- B : the event that at least one child has influenza
- C : the event that at least one person in the family has influenza