

The Outbreak:

Student Handout #1

You will participate in a simulation to see how disease spreads in a population without vaccines and with vaccines. The simulation uses a fictitious disease called *Infectivitis*, which makes people sick for two days:

- The first day you become ill with *Infectivitis*, you are contagious and have a headache. Show this by placing both hands on your head.
- The second day you are ill, you are contagious and have a sore throat. Show this by placing one hand over your throat.
- The third day after becoming ill—and for the rest of the round—you are immune and no longer contagious. Show this by crossing your arms over your chest.

People who are contagious spread *Infectivitis* by tagging *one* person they can reach while remaining seated.

After each round, you start again as susceptible (not immune) to *Infectivitis*, unless directed differently by the teacher.

Results

Round 1: 0% Immune, 100% Susceptible

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	Totals
# sick														# who got sick: # who never got sick:

Round 2: _____ % Immune, _____ % Susceptible

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	Totals
# sick														# who got sick: # who never got sick:

Round 3: _____ % Immune, _____ % Susceptible

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	Totals
# sick														# who got sick: # who never got sick: