

# CONTAGION



Matt Damon  
Mitch Emhoff

Description:



Kate Winslet  
Dr. Erin Mears

Description:



Marion Cotillard  
Dr. Leonora Orantes

Description:



Jude Law  
Alan Krumwiede

Description:



Laurence Fishburne  
Dr. Ellis Cheever

Description:



Gwyneth Paltrow  
Beth Emhoff

Description:

Fill in the timeline below with a description of each person who gets sick, their location, and mode of infection as they appear in the film. At the end of the film circle patient 0.

|   |   |
|---|---|
| <p>1. List the <math>R_0</math> value (pronounced R-nought) or basic reproductive values given for the virus'.</p>  | <p>Flu <math>R_0</math>: _____<br/>Smallpox <math>R_0</math>: _____<br/>Polio <math>R_0</math>: _____</p> |
| <p>2. What are three things that are needed to be determined to establish the <math>R_0</math> given in the movie?</p>  | <p>1. _____<br/>2. _____<br/>3. _____</p>   |
| <p>3. Why is it important for the scientists to establish the <math>R_0</math> for the virus? Why does the <math>R_0</math> for HEV-1 change throughout the movie?</p>  |   |
| <p>3. Do you think the movie is realistic in its portrayal of the spread of a major virus? Do you think a virus or other disease could spread through the world as quickly as shown in the movie? Explain your answer</p> |   |