

GADMS114

Gadsden Middle School

Area Science: Virus

Rabies in wolfs

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### **Problem definition**

Rabies is an avoidable viral disease of mammals that is most often transmitted through the bite of a rabid animal. Rabies show every year in wild animals such as foxes, bats, dogs, and wolfs. Any animal will always die as rabies slowly kills their brain. Symptoms of rabies can be similar to influenza, and symptoms that could occur during rabies are Fever, Headaches, Nausea, Throwing up, agitation, Anxiety, Confusion, and Hyperactivity.

Information found in <https://www.mayoclinic.org/diseases-conditions/rabies/symptoms-causes/syc-20351821> and <https://www.cdc.gov/rabies/index.html>

### **Problem Solution**

The problem we have is, if an outbreak of rabies would happen in a habitat is that some of the species in the habitat would become extinct to that forest as there would be animals that would become infected and kill the animals around them such as with wolfs they would go on a “killing spree” killing everything in their sight such as herbivores and if the wolf doesn’t kill the animal but only injure it would also become infected making it go into a “killing spree” killing even more animals eventually if left untreated making whole species go extinct so what we are doing is setting up humans so that they chase the wolf and if they touch them they would have a chance to get infected but the wolf will die.

**Expected Result-**What we expect to happen after the programing is done would be almost what everyone would expect. Only a few wolfs (agents) would not be infected with rabies. Most wolfs would be infected also dead which would result in an outbreak. Then the not infected wolfs would attack the infected which are in their territory. As the time passes while the programing is on the infected would slowly die out.