

STEM *Sims*™

# Rift Valley Fever

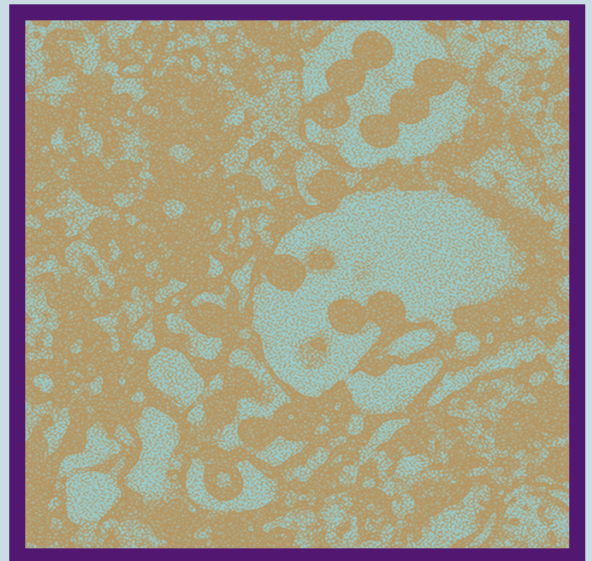


# Rift Valley Fever

**Do you need an idea for a scientific study?  
Try out one of our ideas or make one of your own.**

**Start learning right now about Rift Valley Fever and how you can protect sheep from contracting this deadly disease. Take the following brief quiz to see how much you already know about Rift Valley Fever. See the bottom of page 4 to check your answers.**

1. What is the abortion rate of adult sheep that have Rift Valley Fever?
  - a. 10%
  - b. 30%
  - c. 50%
  - d. 99%
2. Which organism is *least* likely to be affected by a Rift Valley Fever infection?
  - a. human
  - b. cow
  - c. horse
  - d. goats
3. Which organism is the cause of Rift Valley Fever?
  - a. virus
  - b. bacteria
  - c. fungi
  - d. protists
4. Which organism transmits Rift Valley Fever to sheep?
  - a. bacteria
  - b. houseflies
  - c. nematodes
  - d. mosquitoes
5. What is the fatality rate of unvaccinated young lambs that contract Rift Valley Fever?
  - a. 10%
  - b. 30%
  - c. 75%
  - d. 99%



## The Fever

Find out more about Rift Valley Fever by filling in the missing letters in each of the following question answers.

1. In which region of the world is Rift Valley Fever most problematic?

R

2. Which organ in a sheep is severely damaged by Rift Valley Fever?

E

3. Domesticated sheep from which region created serious problems for ranchers from Rift Valley Fever?

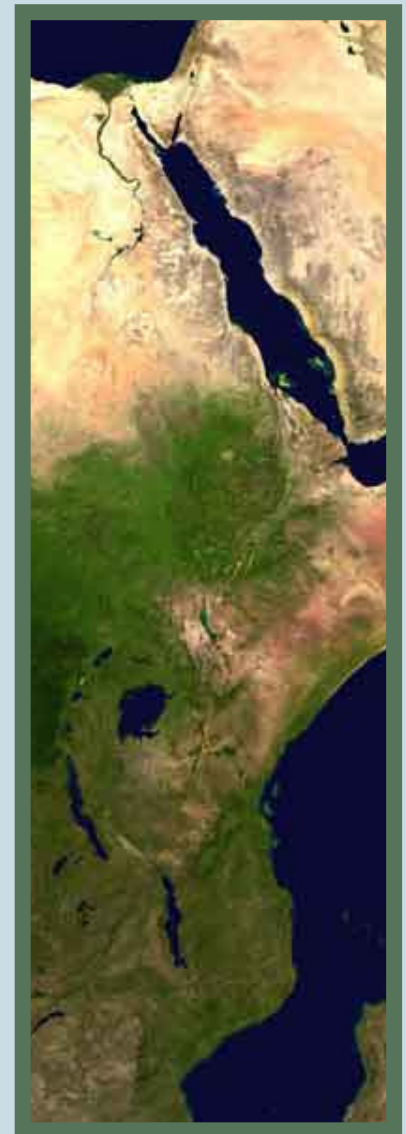
O

4. What tool is used to prevent Rift Valley Fever?

C

5. Which organism has been shown to be resistant to Rift Valley Fever?

I



Please visit our site for more helpful information:  
**STEMsims.com**

# Rift Valley Fever



## Rift Valley Fever

Rift Valley Fever (RVF) is an arthropod-borne, acute, fever-causing viral disease of sheep, goats, cattle and people. RVF in Africa causes abortions in sheep, cattle and goats, high mortalities in lambs and kids, and generalized disease in humans. RVF was first observed when European stocks of domestic animals were introduced to Africa. These species are more severely affected than native African stock.

For even more information on Rift Valley Fever and other zoonotic and animal defense issues, check out the link below:



<http://www.hsuniversityprograms.org/index.cfm/centers-of-excellence/zadd-main/>

Answers: 1) d. 2) c. 3) a. 4) d. 5) d. The Fever Answers: 1) Africa. 2) Liver. 3) Europe. 4) Vaccine. 5) Swine.

The Science Fair Kits project was funded in part under the Department of Homeland Security Science and Technology Directorate grant contract #N10PC20003. Its contents are solely the responsibilities of the authors and do not necessarily represent the official views of the Department of Homeland Security.

© 2015 STEM Sims. All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable, and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use. Publication thereof does not convey nor imply any license under patent or other industrial or intellectual property rights.