

Name: _____

Hunting Nightmare Bacteria Video Worksheet

Addy

1. What were Addy's symptoms when she became sick?
2. What did doctors believe she had when she first came into the hospital?
3. Addy had "community acquired" resistant staph. How did Addy probably get this infections?
4. Addy is put on a lung-bypass machine called "ECMO". What is the problem with this treatment?
5. What does pan resistant mean?
6. What treatment is Addy's best chance for survival be?

David

1. How was David injured while in India?
2. Bacteria containing the NDM-1 gene are found in David. What does the NDM-1 gene do to bacteria?
3. About how many other types of resistant bacteria did the hospital find in David?
4. Since the spreading infection cannot be cured, what treatment has David been given?

Clinical Center at the National Institutes of Health (NIH)

1. Where do many Gram negative bacteria live in the body?
2. KPC (*K. pneumoniae carbapenemase*) is a "homegrown" enzyme from the US. What city is it predominantly located in?

3. A patient with KPC was transferred to the NIH Clinic. What happened to this first patient?
4. Despite following strict quarantine protocols, what happened five weeks after the first patient was released for the clinic?
5. In the end, how many people were infected with KPC? How many died?

What is Being Done?

1. The (more / less) bacteria are exposed to antibiotic, the (more / less) likely the bacteria is to develop antibiotic resistance.
2. Nearly _____% of antibiotic use is thought to be unnecessary or inappropriate.
3. What is the problem with fighting antibiotic resistance?

Update- Two Years Later

1. Give an update on Addy's condition.
2. Give an update on David's condition