## ADDIE'S STORY VIDEO QUESTIONS (ANSWER KEY)

Answer the following questions as you watch the PBS Frontline video Hunting the Nightmare Bacteria.

- 1. What did they find in Addie's lungs?
  - A. Blood

B. Water

- C. Pneumonia
- 2. What did the doctor think was most likely happening to Addie?
  - A. A staph bacterium was causing septic shock.
  - B. Her pneumonia had spread.
- 3. Why are gram negative bacteria so hard to treat with antibiotics?

They have a protective armor, cell wall, to prevent antibiotics from getting in to kill it.

- 4. What does it mean if a bacterium is pan-resistant?
  - A. It is resistant to a few different kinds of antibiotics.
  - B. It cannot be treated with any antibiotics. It is resistant to them all.
- 5. Addie had "community acquired" resistant staph. How did Addie get this infection?
  - A. Previous hospital visit
  - B. Picking at scabs
  - C. Contaminated food
  - D. Fall on the playground
- 6. When Addie became sick, what was her first symptom?
  - A. Difficulty breathing
  - B. Nausea/Vomiting
  - C. Pain in hip
  - D. Diarrhea
- 7. What does pan-resistant mean?
  - A. Bacteria resistant to all antibiotics
  - B. Bacteria resistant to most antibiotics
  - C. All bacteria resistant to antibiotics
  - D. Resistant to pans

	A.	Iron lung								
	В.	Permanently on EC	МО							
	C.	Lifetime on antibiot	ifetime on antibiotics							
	D.	Lung Transplant								
9.	What is NDM-1 and why is it so dangerous?									
	<mark>An</mark>	enzyme that is resist	t <mark>ant to any a</mark>	ntibiotics.						
10.	.0. How was David injured while in India?									
A. Bitten by a dog										
	<mark>B.</mark>	Run over by a train								
	C.	C. Cut his hand on some metal								
	D.	Skinned his knee w	ith a fall							
11.	How m	any surgeries did Da	vid have to	remove infections?						
	Α.		B. 2	<mark>С. 4</mark>	D. 8					
12	Cinco t	his infastion sannat	he cured will	nat treatment was most effect	tivo?					
12.			be curea, wi	iat treatment was most effect	liver					
	Α.	Lung transplant								
	В.	. Amputate both legs								
	C.	Amputate left arm								
	D.	Amputate more of	<mark>right leg</mark>							
13.	In the	end, how many peop	ole were infe	cted with KPC? How many die	ed?					
	A.	2/2	B. 28/18	C. 18/6	D. 18/18					
14.	Where	do large numbers o	f gram-negat	tive bacteria live in the body?						
	A.	In the digestive syst	tem							
	В.	On the skin								
	C.	In the reproductive	system							
		). In the respiratory system								
		. , ,	-							

8. What treatment was Addie's best chance for survival?

15.	US. What city was it							
A. Boston, MA								
	B. Portland, OR							
	C. Los Angeles, CA							
	D.	New York, NY						
16. Despite following strict quarantine protocols, what happened five weeks after the first patient was released from the hospital?								
	A. The patient died							
	B. A staff member was diagnosed with the infection							
	C. The bacteria was found on some equipment							
	D. A second patient was admitted with the infection							
The following is not a question:								
<ul><li>piece of paper infused with a different antibiotic. The clear area around the center disc shows that antibiotic is effective against the bacteria being tested. The one on the left is partially effective. The other samples show the bacteria are resistant to those antibiotics. The photo shows the bacteria have grown right up to the disc.</li><li>17. What percent of antibiotic use in the United States is estimated to be either unnecessary or inappropriate?</li></ul>								
		25%	B. 50%	C. 75%	D. 100%			
18.	antibio	bacteria are exp tic resistance. more/less	osed to the antibiotic,	the likely the bacte  C. less/more	eria are to develop  D. less/less			
19. Nearly% of antibiotic use is thought to be unnecessary or inappropriate								
20		80	B. 75	C. 50	D. 25			
20. What term is used to describe the ability of any organism, such as bacteria in Addie's story, to change over time in order to increase its chances of survival?								
	Adaptation Adaptation							

Adapted from: Sabasowitz, T. (n.d.). 'Hunting the Nightmare Bacteria' Documentary. Edpuzzle. https://edpuzzle.com/media/5fc8e12cd6c23e40b3820a56