

The Race to Vaccine Development: Clinical Trials

Answer the following questions based on your knowledge prior to viewing the Beyond the Blog videos.

Pre-viewing Answer	Statement	Post-viewing Answer
	How many phases make up the vaccine testing and approval process?	
	The purpose of a Phase I Clinical Trial is to determine the safety and dosage of a vaccine. (True or False)	
	Do participants in the placebo group of a clinical trial receive treatment (vaccine)?	
	Predict the number of years that have been historically required for vaccine development.	
	What is the biological function of a vaccine?	

Now, watch the following Beyond the Blog videos and then answer the questions above in the post-viewing answer column.

April 6, 2020: Vaccines for COVID-19: <https://vimeo.com/404728718>

July 29, 2020: Vaccine Candidates: <https://vimeo.com/442522100>

1. How does the issuance of an Emergency Use Authorization by the FDA impact the time needed for the development of a vaccine?

2. In your own words, explain the function of a vaccine. Use terms such as: virus, immune system and defense in your response.

3. For each of the phases in a clinical trial listed in the table below, list the relevant information.

Phase	Number of subjects	What is the focus?
Preclinical		
I		
II		
III		

4. Why is it important to have a large number of candidates that enter Phase I clinical trials?

5. According to Dr. Lamb's April 6, 2020 Beyond the Blog video, the Milken Institute website (<https://covid-19tracker.milkeninstitute.org/>) noted that there were 50 potential vaccines for COVID-19. How does that number compare to the number documented on the website today? How many are in the Preclinical phase? How many in each phase: 1, 2, 3?