PUS PAIN POISON/ episode 2 These questions are not necessarily in order

<https://www.youtube.com/watch?v=9-ffWBITNCw>

Of Note: understanding of pathogens being cause of disease/ disproving of Miasma theory

Specifics of Koch’s postulate development is not required but if you are going into anything medically related, worth watching as this is commonly understood scientific discovery the principles of which are still used today

Describe Fleming’s discovery

Explain the methods used to create an antibiotic and testing- mice and human

Evaluate the bioethics involved

Explain the progression of large scale production of antibiotics- what conditions were being

evaluated and why [ link to previous topics]

Explain the mechanisms for antibiotics ( include previous information from notes/reading)

Why did Jenner form his hypothesis- based on what evidence before he tested it?

Describe Jenner’s methodology for proving his hypothesis

Evaluate the bioethics of this testing

Explain how HIV evades the immune system- in general

Explain why vaccination is not currently available for HIV

HIV infects T cells using receptors on the T cells. Suggest how this effects the entire cellular defense based on what you know currently about cellular defense

Explain how the presence of receptors on T cells helps validate the Fluid Mosaic Model

-------------------------------------------------------------------------------------------------------------------------------Additional video that will help with HIV related questions is also available on Youtube

BBC ‘ Why do viruses kill” <https://www.youtube.com/watch?v=iOaAG9Kou2Y> end part of the video

Note: extensive understanding of viruses is not required for this class and is not required.