

A Case of Cystic Fibrosis - ANSWER KEY

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Remote editions are easier, mainly because students don't get the benefit of me helping them with the more difficult questions. This is also split into two files so that you can provide feedback sooner.



Answer Key - In Person Version

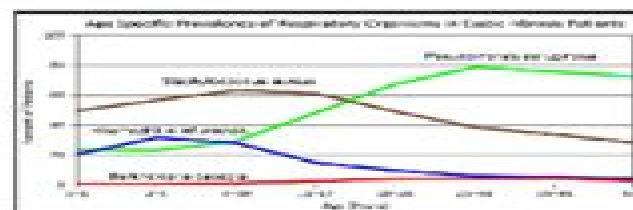
1. "Woe to that child which when kissed on the forehead tastes salty. He is bewitched and soon will die" This is an old saying from the eighteenth century and describes one of the symptoms of CF (salty skin). Why do you think babies in the modern age have a better chance of survival than babies in the 18th century?

Modern medicine, patients have access to antibiotics and respiratory therapy and drugs

2. What symptoms lead Dr. Weyland to his initial diagnosis? wheezing and salt crystals on the skin

3. Consider the graph of infections, which organism stays relatively constant in numbers over a lifetime. What organism is most likely affecting baby Zoey? *B. copacra* stays constant, for Zoey's age, staph is most likely causing the problem

4. What do you think is the most dangerous time period for a patient with CF? Justify your answer. 11-24 is where there is a large number of bacteria present, staph and pseudomonas at the same time



Part II: CF is a disorder of the cell membrane.

5. Suggest a molecular fix for a mutated CFTR channel. How would you correct it if you had the ability to tinker with it on a molecular level? *Answers vary, since the channel is blocked, suggest to unblock the channel or keep it open in some way*

6. Why would treatment that targets the CFTR channel not be effective for 5% of those with cystic fibrosis? *5% of the patients don't have the channel protein at all*

7. Sweat glands cool the body by releasing perspiration (sweat) from the lower layers of the skin onto the surface. Sodium and chloride (salt) help carry water to the skin's surface and are then reabsorbed into the body. Why does a person with cystic fibrosis have salty tasting skin? *the salt is not being reabsorbed into the body due to missing channels*

Cystic Fibrosis Evolve Case Study Answers Answer Expo

Lola Jean Case Gould



Cystic Fibrosis Evolve Case Study Answers Answer Expo:

Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **Cystic Fibrosis Evolve Case Study Answers Answer Expo**

In a world inundated with monitors and the cacophony of instantaneous interaction, the profound power and emotional resonance of verbal artistry usually fade into obscurity, eclipsed by the regular onslaught of noise and distractions. Yet, set within the lyrical pages of **Cystic Fibrosis Evolve Case Study Answers Answer Expo**, a charming work of literary elegance that pulses with fresh thoughts, lies an memorable trip waiting to be embarked upon. Published with a virtuoso wordsmith, this interesting opus manuals readers on an emotional odyssey, softly revealing the latent possible and profound impact stuck within the complex internet of language. Within the heart-wrenching expanse of the evocative evaluation, we can embark upon an introspective exploration of the book is main subjects, dissect their charming writing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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web this repository contains all the code related to panel methods this includes scripts and functions in both matlab and python it will be updated continuously as i finish the video series with the final source panel method spm and vortex panel method vpm code

simple panel method model for evaluating pressure distribution over - Jul 13 2023

web aug 31 2015 following the formulation described in katz and plotkin s low speed aerodynamics this is a simple panel method for predicting pressure distributions over symmetric naca aerofoils applying the neumann boundary condition zero flow normal to a