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Peer response 1

I concur with you that a fallacy, as per discussion in chapter 6, is a mistake in argument or reasoning that does not prove such contention. Indeed, correlation is not and does not match causation, leading to a mistake in reasoning because of the difficulty in determining cause and effect relationship. Additionally, I support your sentiment that it is a fallacy to claim that covid-19 causes Bell's palsy in people. There is no evidence to support such a claim because statistically, from the data during the Pfizer covid-19 trials, only four people developed Bell's palsy, something that other factors could as well cause. It is right to put it, as you have said, that being that Bell's palsy occurs in a good number of people every year, it is therefore not possible to relate its causes and the vaccine. Your example is a perfect case where people tend to confuse correlation and causation of events.

Peer response 2

I agree with you that causation should never be confused to be a correlation and treat the two factors in the same way, which qualifies to be a fallacy. I find it convincing from your statement that even though the two factors might be termed and treated by many people, we should find a way of separating the two from each other. I support your discussion that elaborates the linkage between covid-19 and erectile dysfunction as a fallacy. There is no direct proof that covid-19 cause erectile dysfunction even though there is evidence of erectile dysfunction in some recovered covid-19 patients because some traces of the virus can still be detected in the penile endothelial tissue. I am impressed with your categorical discussion, which disputes a misconception that covid-19 disease causes erectile dysfunction. The fact that the effect of the

disease can result in erectile dysfunction does not prove that the covid-19 causes the dysfunction in men.

Peer response 3

I am impressed with your articulate discussion of the effect of hydrogen carbonate on the blood. Even though I was not sure about the fact that the blood hydrogen carbonate buffer system is a system that maintains the balance of blood PH, adding an acid or a base to it, I had to do some little research to ascertain your discussion. My research conforms to yours, and in fact, the whole process indeed happens because the bicarbonate ion, carbon dioxide, and carbonic acid are balanced in the blood to maintain the PH. The increase in acidity means there is an increase in protons. Therefore, to maintain neutrality, the blood has to become alkaline; similarly, to maintain neutrality when the blood is alkaline, the system must increase acidity. Your discussion is well detailed, and to give an example, I find you very knowledgeable when you were able to break down the chemical equation of balancing the whole process as $\text{HCO}_3^- + \text{H}_3\text{O}^+ \rightleftharpoons \text{H}_2\text{CO}_3 + \text{H}_2\text{O} + \text{CO}_2$, which was acidic to $2\text{H}_2\text{O} + \text{CO}_2 \rightleftharpoons \text{H}_2\text{CO}_3 + \text{H}_2\text{O} + \text{H}_3\text{O}^+ + \text{HCO}_3^-$ which is alkaline. Great job.

Peer response 4

Concerning your discussion on the blood hydrogen carbonate buffer system, I agree with you when you honestly stated that it is a system that balances the blood PH by either adding an acid or a base when the need arises. Bicarbonate ions, carbonic acid, and carbon dioxide must be balanced to ensure the blood achieves its required PH level. I could not agree with you more when you said that when the acidity of the blood increases, the system balances the PH to normalcy by stopping the increment of acidity or by adding alkaline and vice versa. I concur

with you that the OH^- and H^+ are the ions responsible for the alkalinity or acidity of the blood, and their control by the above said system is crucial in maintaining the blood PH. I agree with you that solid acids get dissociated while weak ones do not dissociate, and their examples include CH_3COOH as a weak acid and HCl as a strong one.

Peer Response 5

I must commend you for a well-detailed discussion about people with obesity and who are overweight. It is shocking but true that many people of about 1.9 billion or more are obese or overweight. I agree with you that unhealthy eating habits where people prefer to take sugary and fast foods are the highest cause of obesity, and it is more common in children than adults. As per your discussion, it is saddening that too much fat all over the body of the people experiencing obesity may lead them to diseases like kidney and heart failure, stroke, diabetes, osteoarthritis, and other forms of cancer. Psychological problems such as anxiety and depression are other problems associated with obesity, more so in children. You are correct in mentioning that to avoid these diseases and psychological disorders caused by obesity, and people should be educated on the importance of taking healthy diets that comprise a bit of sugar. I am in full support of your suggestion of making labeling laws that prohibit other people from body shaming those that are considered overweight and obese.

Peer response 6

I'm glad you have perfectly handled this discussion about opioids because it has been a discussion that has been misunderstood by many on many occasions. Opioids are indeed a form of treatment used to help those in pain release certain levels of the pain, and it is also true that

there is a high risk of the patients becoming addicted and dependent on the drugs upon their use. I support those who administer opioids must understand how the drugs work to relieve pain in the patients because failure to understand the basics can lead to both overuse and misuse of the drug. The most prominent players in helping the country from the opioids dependency menace are those that administer the form treatment because they are expected to ethically and professionally perform their duties by correctly identifying the deserving people to be given the treatment and also give only the proper dosage to the patients. There is also a need to evaluate every opioid user to prevent dependency on them. I fully agree with you that when care is not taken while using opioids as a painkiller, the risk might graduate to dependency level, making it too expensive for the country to bear economically.

Peer response 7

I agree with you that two things may have happened simultaneously does not mean that one event caused and led to the other. Therefore, the causal statement that sets forth the cause of an event is a fallacy claim. Moreover, your discussion concerning that when one claims that an unusual event caused some unusual occurrence as a wrong claim and perception is convincing because it is not necessary that when two unlikely events co-occur, it is evident that one event led to the other. I agree with you that paired unusual events principle is a fallacy that most people mistake in everyday life. It is a truth that until something is tested and verified, it remains a hypothesis regarding the common variable principle. It was in-depth research by you to develop the fact it is wrong to give a variation of causal statement and the correlation. It was a perfect search by you because it is not apparent that there is more drowning because of the consumption of ice; there could be other factors behind the drowning.

Peer response 8

I'm satisfied with your discussion concerning causation and correlation. It is very accurate that the mind of a human being is set or patterned to think that causation of an event is the correlation of it. Such a claim is indeed misconceived. When two events coincide, it does not mean that one event led to the other, and the whole scenario remains a hypothesis until proven and tested. When one claims that the increase in the sale of ice cream is the causing factor, the increase in the crime rate is wrong. Even if there is data showing that the sale of ice cream and the rate of crime has increased, the whole claim remains null until such a time that someone will be able to show the direct relationship the sale of ice cream has to the increase in crime rate. Otherwise, the misconception has remained to be a fallacy in the minds of many. Your example was a perfect one for the claim. I support you that causation is no correlation.

Peer response 9

Hello, I am impressed by how elaborate you have discussed the cause of diabetes mellitus. It is a fact that the destruction of pancreatic islet B cells causes the disease. From your discussion, I have learned that diabetes mellitus consists of type 1 and 2, which I had not known before. I am glad that by reading your work is more knowledgeable than I was before. Thank you. I am glad to know that type 1 is caused by the inability of the body to produce enough insulin, while type II is due to the production of resistant insulin in the body. It is valid from common knowledge that when the body produces enough insulin but due to various factors that it cannot properly utilize the produced insulin, there must be a health issue and, in this case, type 2 diabetes mellitus. Your work was well researched, equipped with facts, and well arranged, making it easy to grasp every concept of your work.

Peer response 10

It is pretty refreshing to read about your knowledge on DM treatment through your well-organized discussion. I agree with you that the main reason for DM treatment is to optimize blood glucose and at the same time reduce complications. The application of DM I involves food planning, exercising, and insulin replacements, as you have well put in your discussion. I am glad you also noticed that DM II also includes meal planning and exercise with oral antidiabetic to boost the insulin level in the body. I enjoyed reading your work because you accompanied your discussion with medical facts. I could not agree with you more in your discussion when you said that the treatment process could be accompanied by FSBS, which checks the blood sugar at a given periodic interval making it easy to determine the perfect time to boost the insulin level in the blood. It is a fact that during insulin therapy, ketones and glucose is flushed out by the kidney as electrolytes making it essential for electrolyte replacement.

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