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by J T

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Peer 1

$2\text{Na(s)} + \text{F}_2\text{(g)} \rightarrow 2\text{NaF(s)}$ is the correct balanced equation between sodium metal and fluorine gas. I agree that before balancing the equation, it will look like this; $\text{Na(s)} + \text{F}_2\text{(g)} \rightarrow \text{NaF(s)}$. it is always essential to balance the equation since there is always a need to ensure an equal atoms number on all sides of equation. Therefore, balancing number of atoms on all sides makes the equation observe mass law of conservation. Milanović & Trivić (2017) stated the conservation of mass law as for the equation to be appropriate, an equivalent quantity of matter should available previously and subsequently in the experiment. Therefore, the quality and amount of the components should be exactly similar. It is important to understand the equation because it enables one to track the elements and the number of atoms on every component on every side of the equation. If the equation is incorrect, it may cause significant effects to the individuals' teeth, such as staining, especially when using too much fluoride.

References

Milanović, V. D., & Trivić, D. (2017). History of Chemistry as a Part of Assessment of Students' Understanding of the Law of Conservation of Mass. *Journal of Baltic Science Education*, 16(5), 780-796.

Peer 2

E indicates the correct chemical equation for fluorine gas and sodium metal $2\text{Na(s)} + \text{F}_2\text{(g)} \rightarrow 2\text{NaF(s)}$. therefore, I agree that it is essential to balance the equation because it follows the mass law of conservation. Olsen et al. (2016) stated that Antoine Laurent introduced the mass law of conservation in 1789. In the same source, Antoine emphasized matter can never neither be created nor even destroyed. Therefore, this law stated that the amount of matter should be the

same before and after the reaction. It is important to understand the reaction because it makes people recognize the properties of matter, which can be utilized in realizing the unknown specimen as well as how different matters can react. When not understood correctly, the dental office might react to wrong quantities of fluorine and sodium metal, causing significant effects to individuals such as mouth irritation, tooth decay, and staining.

References

Olsen, J. S., Mortensen, J., & Telyakovskiy, A. S. (2016). Two-sided fractional conservation of mass equation. *Advances in Water Resources*, *91*, 117-121.

Philosophy

Peer 3

Claims can occur in different ways and they always find individuals at any time. However, individuals can start acting on it and believe before checking on the correctness of the claim. I agree that a claim is credible if it can be proven to be truthful, researched, truthful and supported by considerable evidence from reliable sources. The internet has made things simple and, thus, access to information easy and fast. I approve that google has become a significant source of information to many people; however, the credibility of the information is not guaranteed. Many people have created websites to present information based on their judgments and not facts. I consent to self-observation being the best way to prove the credibility of the source of information because it provides one with a chance to research extensively on the sources of the claim. It is essential to the credibility of the claims personally as individuals have a different state of mind and sentiments. Hardalov et al. (2016) stated that emotions and perceptions could change the information and connect them with the perceptions.

References

Hardalov, M., Koychev, I., & Nakov, P. (2016, September). In search of credible news.

In International Conference on Artificial intelligence: methodology, systems, and applications (pp. 172-180). Springer, Cham.

Peer 4

The media plays a critical role in presenting claims to individuals. Currently, many people depend on social media in attaining information and news. I accord that not all media sources present credible claims because some deliver their claims based on perceptions and influences by the government or politicians. Credible claims are essential because they are always truthful (Hardalov et al., 2016). Incredible information can significantly impact people, such as misleading them and making them feel bad. I approve that the best way to check for the credibility of the claim is through performing appropriate checks on the source such as the author, date of the source, publisher and accuracy. Reliability of the claims should be considered because through assessing the claims; one is inspired to think critically concerning the credibility, validity, correctness and viewpoints of the information.

References

Hardalov, M., Koychev, I., & Nakov, P. (2016, September). In search of credible news.

In International Conference on Artificial intelligence: methodology, systems, and applications (pp. 172-180). Springer, Cham.

Capstone

Peer 5

Pregnancy is the initial stage of changes in a woman's body when a child is developing. However, I agree that pregnancy can occur as either planned or unplanned. Planned pregnancy causes happiness to the parties involved. On the other hand, unplanned pregnancy causes distress, especially to the woman. Therefore, this makes them find alternatives of eliminating pregnancy, including abortion. Tasset & Harris (2018) emphasized that abortion can weaken the cervix, which enhances the risks of future pre-term deliveries.

The abortion rate has decreased for the past few years now. However, in countries that have implemented strict restrictions against abortion, it has augmented significantly. I agree that in 2014, there were approximately 926 190 abortions in the United States. However, most of the individuals involved in abortion activity were between twenty to thirty years averaging at sixty percent. Still, those in their thirties were the second largest group at twenty-five percent (Blackshaw & Rodger, 2019). Nevertheless, the rate of abortion done by adolescents also reduced by thirty-two percent between 200 and 2014.

References

- Blackshaw, B. P., & Rodger, D. (2019). The problem of spontaneous abortion: is the pro-life position morally monstrous?. *The new bioethics*, 25(2), 103-120.
- Tasset, J., & Harris, L. H. (2018). Harm reduction for abortion in the United States. *Obstetrics & Gynecology*, 131(4), 621-624.

Peer 6

Assisted suicide plays an essential role in helping individuals relieve pain as they see their life as not worth living. I agree that the drug that is used the most in the events of assisted suicide is barbiturates. Therefore, based on Dierickx et al. (2018), barbiturates always affect the

body because they create a calming outcome. the drugs can make someone not feel pain. Also, they affect the nerve cells and thus reducing brain functioning hence affecting the respiratory system. This makes a person stop breathing and damaging the brain because of inappropriate oxygen circulation.

Physician-assisted suicide has gained immense recognition since 1998. Pastore (2019) states that 4249 physicians assisted suicide drugs were prescribed from 1998 to 2017. Also, 66.3 percent of the drugs have been used by patients to end their lives. Among this, 49.3 percent were from the male gender and 50.7 percent were females. I agree that most physicians are willing to give out PAS drugs to their patients when made legal.

References

- Dierickx, S., Cohen, J., Vander Stichele, R., Deliens, L., & Chambaere, K. (2018). Drugs used for euthanasia: a repeated population-based mortality follow-back study in Flanders, Belgium, 1998–2013. *Journal of Pain and symptom management*, 56(4), 551-559.
- Pastore, C. (2019). *Special thanks to the following advisors* (Doctoral dissertation, UNIVERSITY OF PENNSYLVANIA).

Pathophysiology

Peer 7

I agree that heart failure is a condition when the heart does not pump blood as required. This makes the body not attain its oxygen needed. Heart failure always occurs in three different ways. The left heart failure is accompanied by the left side of the heart failing, causing the fluid to build up. Inamdar & Inamdar (2016) stated that the left ventricle should pump blood

containing oxygen to body organs and right side pumps blood from body organs to the lungs. Therefore, right-sided heart failure is accompanied by the disturbance of the right atrium and ventricle, leading to methodical mobbing, causing edema.

Nevertheless, left-side failure can also result in right-side failure resulting in biventricular heart failure that unites the two HF signs. Therefore, I agree that Henry indicated signs of right-side heart failure because of the crackle sounds in the lungs, reduced breath and swelling ankles and cough. Also, based on the video, he used smoking immensely and had more weight which are the risk factors of failure.

How can heart failure be diagnosed and treated?

References

Inamdar, A. A., & Inamdar, A. C. (2016). Heart failure: diagnosis, management and utilization. *Journal of clinical medicine*, 5(7), 62.

Peer 8

Left, right and biventricular heart failure have significant differences among them. I agree that left-sided heart failure always leads to biventricular heart failure. Groenewegen et al. (2020) claimed that left-sided heart failure is where left ventricle fails to relays sufficient blood in body organs. This thus leads to blood developing in the pulmonary veins hence instigating the reduction in the breath. Similarly, right-sided heart failure is caused when the right ventricle cannot take the blood to the lungs. This leads to the blood-forming in the veins and causing the fluid to develop in the legs and parts of the abdomen. On the other hand, Biventricular heart failure emerges when all the sides of the heart are not working. Based on the information presented in the video, Henry had dyspnea, swollen feet, jugular vein distention and bilateral

lung crackles. This is brought by the risk factors such as smoking intensively and myocardial infarction.

How does heart failure affect an individual's life?

References

Groenewegen, A., Rutten, F. H., Mosterd, A., & Hoes, A. W. (2020). Epidemiology of heart failure. *European journal of heart failure*, 22(8), 1342-1356.

Philosophy

Peer 9

The media plays an essential role in society because it helps in providing information and creating awareness to the public. However, not all media sources are credible. I concede that not all media sources are reliable. Baum & Abdel Rahman (2021) stated that most media sources provide information based on certain interests and this might make them provide information based on perceptions and opinions. Also, I agree that some sources are intended to manipulate individuals and not to inform. However, it is important to question the credibility of media sources to avoid using information that does not have facts and reliable sources. To realize if the media source is credible, they must consider the author, the time of the presentation and the sources the information was obtained. Although other media sources are reliable and present factual information, it will take time to realize better sources. I'm afraid I have to disagree with the use of unreliable sources for entertainment because they can make someone feel bad or humiliated.

References

Baum, J., & Abdel Rahman, R. (2021). Emotional news affects social judgments independent of perceived media credibility. *Social cognitive and affective neuroscience*, 16(3), 280-291.

Peer 10

Technology advancement has increased from media sources and this has made them even more accessible. However, I consent that not all media sources are credible. Most media are insightful and focus on their perceptions and beliefs of the information hence causing bias. Moreover, Takahashi & Tandoc (2016) stated that information from incredible media sources could be fictitious, misleading, overstated, erroneous, outdated and based on one lookout. Moreover, the credibility of media sources must be questioned because of several reasons. First, most media organizations do not follow professionalism in their work, thus publishing everything brought to them by the marketing agencies. This makes them unable to recognize that they are performing the work of public relations and not journalism. Reliable information is beneficial to the audience because it offers them objective facts that will help them examine the impacts of partisan and individuals' perspectives influencing their ecosystem. Furthermore, lack of diversity also facilitates the publishing of unreliable information as most of them are present similar information that is desirable to the community.

References

Takahashi, B., & Tandoc Jr, E. C. (2016). Media sources, credibility, and perceptions of science: Learning about how people learn about science. *Public Understanding of Science*, 25(6), 674-690.

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