

Term Paper Report: due Monday, November 4, 2019 at 9 PM. The topic is **"Biological Pros and Cons of a Topic Related to Human Health"**.

Health topic must have **scientific/biological *pros and cons***. The following are some suggested topics. You may choose your own topic, but get permission from Dr. Ellerton. **Possible topics:**

- vaccinations
- Genetically Modified Organisms (GMOs)
- e-cigarettes
- medical marijuana

The report should be between 3-5 double-spaced, typewritten pages, Font Times New Roman, 12 pts. Images you add to the report should not be counted toward required pages. An additional page should be for references. The margins should be 1 inch on all sides. Submit as a **word or google document**.

This report must all be written **using only your own words**. Copying a phrase or a comment requires that it be placed in quotation marks and you must provide that reference. Please do not quote entire paragraphs. If you must quote, limit it to a sentence here and there. If there is **plagiarism** (copying the words of others) the **report gets zero credit**.

The report should evaluate the **scientific/biological** arguments on this topic and analyze the evidence. Below are questions that must be answered within the report. **The report must include:**

1. Why is this topic an important issue related to human health?

- What are the pros of this issue? How is it helpful to humans or other living things? Give at least three pros and provide a **reliable reference(s)**. See guidelines for references below.
- What are the cons of this issue? How is it harmful to humans or to other living things? Give at least 3 cons and provide a **reliable reference(s)**. See guidelines for references below.

2. How does this health topic relate to Anatomy & Physiology in terms of:

a. chemistry and biochemistry

i. are there chemicals or ions such as sodium or potassium, or molecules of life such as protein, carbohydrates, lipids and DNA involved in this health issue? Explain. Provide a **reliable reference**.

b. body tissues

i. This should include any effect of this health issue on the histology of the tissues. Are the epithelia, connective tissue, nerve or muscle affected. How? Explain? Explain the biology giving specific examples, including information about research studies that have been done on this topic.

ii. If appropriate, show images supporting your write-up, and reference the image.

iii. Provide a **reliable reference**.

c. body organs and organ-systems

- this should include a discussion of which body systems are most affected by this health issue. Explain the biology of the issue giving specific examples, including information about research studies that were done on this topic.
- If appropriate, show images supporting your write-up, and reference the image.
- Provide a **reliable reference**.

3. Allowed References - report must be based on at least 3 **reliable** references. Provided below are reliable sites. If you want to use another article or reference from a different source, check with Dr. Ellerton before using it in your paper.

- Reliable science articles can be found at these scientific sites:

- [medlineplus](https://medlineplus.gov/) (https://medlineplus.gov/)

- New York Times Science Section (<https://www.nytimes.com/section/science>)

- - scientificamerican.com
- - science daily (<https://www.sciencedaily.com/>)
 - Reliable articles can be found at these medical organization sites:
 - the World Health Organization (who.int/)
 - the National Institute of Health (<https://www.nih.gov/>)
 - the Center for Disease Control (www.cdc.gov)
 - Food and Drug Administration (www.fda.gov)
 - American Academy of Family Physicians (www.familydoctor.org)
 - health organization related to the disease topic you are studying.

- **Warning!!** When citing a website be sure that it will go to the page with the information you are providing. For example, if you are providing information about vaccination from the World Health Organization, the link you provide should go to the page on vaccinations, not to the general home page of that organization.
- **Warning!!** If you are choosing to use a website other than the ones listed above, please be aware that there are many, so-called "medical" websites created by individuals or small groups. Information found on these websites are often the personal opinions of the writer of the blog, and are not reliable scientifically or medically. They will not be accepted. **Also, Pro and con websites used for debates are also not acceptable websites.** **Unreliable or inappropriate websites will not be accepted. The procon.org may not be used as a reference!**