**Instructions for 60 Seconds of Science (250 pts)**

**Objectives**

This assignment is designed to cultivate your skills in synthesizing scientific information from a peer-reviewed article, summarizing key points, and communicating public health knowledge to both professional and lay audiences.

This project requires you to create: (1) an electronic poster prepared for a professional audience using designated UB template; (2) an in-class presentation ≤ 60 seconds that challenges you to carefully consider how to convey the message to a lay audience in a concise manner.

**Step 1. Article selection**

Select a peer-reviewed article that uses one of the following designs:

* experimental or quasi-experimental study
* cross-sectional study
* case-control study
* prospective or retrospective cohort study
* systematic review or meta-analysis

*Tips:* If you are having trouble downloading a journal article, please make sure that you are using the PubMed or Web of Science database through the UB Libraries website. You may do this by visiting the UB libraries homepage and choose the Browse: “Databases” tab. Then type “Pubmed” or “Web of Science” into the search box. You may be asked to log in with your UBITname and password.

If you do not access the databases through UBLibraries websites but decided to access these databases by googling them, the PubMed or Web of Science sites will look the same as if you were to access them through the UBLibraries website. However, if you do not access these databases via UBLibraries, you will not be able to access the majority of scientific articles posted there.

In PubMed, on the top right corner of the page you can click on full text links. In Web of Science, the full-text link is usually located on the top left corner of the page. After clicking the full-text link you may click through a series of windows to download the pdf of the article.

**Step 2. Summarize the peer-reviewed article and create a poster**

Read and summarize the article by the following sections:

1. introduction or background
2. materials and methods (must specify the study design, search strategy if selected a review paper, participant recruitment, measurements, and statistical analysis)
3. results (must include relevant data, P values, tables, and figures)
4. conclusions (summarize the key findings)

Format: The poster must be intended for a professional audience using the designated 48x36 UB poster template (access using the following link: <http://www.buffalo.edu/brand/resources-tools/ub-templates-and-tools/research-poster.html> ). Choose one of the following fonts: Arial, Calibri, Times New Roman. Font size should be at least 26. Your poster must contain 5 sections, including the introduction, materials and methods, results, conclusions, and references. The reference section is where you cite the article you chose and any other papers you may have cited in the introduction. Citation should follow the APA style. See APA guidelines here: <https://owl.purdue.edu/owl/research_and_citation/apa_style/apa_formatting_and_style_guide/general_format.html>

*Tips:* For the introduction, use a graph to describe any trends or patterns. If you want to highlight proportions, consider plotting a pie chart or bar chart using Excel to help with visualization. In the results section, use data tables and figures to highlight the key findings. For the conclusions, use 1-2 sentences to briefly summarize each key finding.

**Step 3. Present a 60-second presentation**

The presentation will be in-person during scheduled class time on **December 8**. The presentation should be intended for a lay audience, so keep your message focused and present in a way that pique people’s interest. If your audience can only remember one thing from your presentation, what would you like that to be? If you present data, rely on figures more than tables. Last but not least, practice, practice, practice! Practicing out loud is most effective. Be sure to pay special attention to your opening, closing, and transitions.

**Submission:**

The following must be submitted to the discussion forum in UBLearns → “Sixty Seconds of Science” tab by **December 8 (12:00 pm)**.

1. The peer-reviewed article you selected;
2. The poster you created in Microsoft powerpoint or PDF format. Other formats will not be accepted.
3. Listen to at least 3 presentations and review their posters. Provide constructive feedback for ≥ 3 classmates.

Assignments will NOT be accepted by e-mail.

The poster and oral presentation will be graded using the following rubric.

**Grading Rubric**

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| --- | --- |
| **Grading Criteria** | **Points** |
| Selected article is attached | 10 |
| Poster uses the designated UB template | 20 |
| Poster contains the required 5 sections: introduction, materials and methods, results, conclusions, and references | 30 |
| Poster contains graphs, tables, or figures to enhance visualization | 20 |
| Poster is free of grammar errors and spelling mistakes | 20 |
| Poster is uncluttered and well organized, uses designated font type and size, and has a good readability | 20 |
| Poster’s citation section follows the APA style | 20 |
| Oral presentation has good logical flow and verbal transitions | 20 |
| Oral presentation is clear and understandable | 20 |
| Presentation focuses on the key message, is interesting, and can be understood by a lay audience | 40 |
| Provide constructive feedback for at least 3 of your classmates posters and presentations | 30 |
| **Total:** | 250 |