

Product Proposal

Introduction and Statement of Purpose:

For my final product, I wish to be able to find a method/system that can efficiently diagnose patients with PD earlier thus allowing them to get treatment earlier and possibly decreasing the mortality rate of the disease. After compiling various research, I aim to conduct a comparative analysis and come to a conclusion on which biomarker proves to be the most effective at identifying PD. With the findings of my research, I want to provide patients with the ability to get an earlier diagnosis and be treated earlier before later stages of the disease in a more effective manner.

Review of Skills and Research:

I plan to perform online research from published articles and studies to learn the specifics of each diagnosing method. This would include the differences in efficacy, the correctness of diagnosing, complications, and cost. From this information, I will analyze the results that arise as well as their rate of success to see if the new diagnosing methods allow for more efficient diagnosing rates and a viable system for diagnosing. I will create the product over my findings, as well as provide an analysis over which biomarker serves as the most effective identifier to diagnose early-stage Parkinson's Disease patients.

Methodology:

1) Materials:

My final product will be completed mostly through the use of online web-based research and peer-reviewed published studies in scientific journals. Furthermore, the materials that will be used include my laptop, a notebook for notes, and online articles found through MackinVia.

2) Description of Process and Procedures:

My final product will involve copious amounts of research. Due to COVID, I will be forced to find most of my information online through articles and studies rather than primarily through a mentor. Because of this, my process will be based primarily upon my online research. I will spend time revising my proposal, compiling my research, creating an outline for my final product, and then completing the actual product. Throughout this process, I will use many sources to learn about the ongoing research on my topic to come to a final conclusion.

Utilization of Higher-Level Thinking Skills:

As I complete my final product, I will need to be able to synthesize all of the information and come up with a valid thesis in order to fully delve into my topic. As I compile the research articles and derive the necessary information, I will make connections between each of the articles and the information. I have to be able to form links between the information, allowing me to develop a conclusion using my higher-level thinking skills.

Conclusion:

Through my final product, I will be able to conclude whether or not the current diagnosing and treatment systems are beneficial to patients with later-onset stages of the disease, as well as if it could be improved through the incorporation of treatments during earlier stages. I also will find which biomarkers serve as the most promising as compared to the other biomarkers. This will help the current Parkinson's research because diagnosing PD is essential so that patients can receive the proper treatment and advice regarding care. In addition, diagnosing PD early is vital because treatments such as Levodopa/Carbidopa are more effective when administered early on in the disease. Through the research I will complete in my product, improvisations to both the diagnosing and treatment systems could be adopted to yield a more beneficial and earlier recovery process. Lastly, with the adoption of the new systems incorporated in these studies as well as future studies, there could be a dramatic improvement in the recovery and quality of life of patients with Parkinson's disease.

Final Product Timeline

Week 1 (Jan. 18-24):

- Find a mentor, if possible
- Continue initial online research on the topic

Weeks 2-3 (Jan. 25-Feb. 7):

- Continue online research of articles and studies
- Find a mentor, if possible

Weeks 4-5 (Feb. 8-21):

- Analyze data given found online by comparing the success rate of the different diagnosing methods, complications, and other specifics of the methods
- Continue analysis of the online research found thus far
- Discuss final product with mentor and get feedback

Weeks 6-9 (Feb. 22- March 14):

- Write the research paper presenting my findings on the diagnosing methods and creating the possible systems for the methods to be used in hospitals
- Get feedback from my mentor throughout the process

Weeks 10-11 (March 15-28):

- Present final product to my mentor and make changes based on their input

- Begin preparing for final presentation

Weeks 12-13 (March 29-April 11):

- Develop final presentation and write the final speech

April 16, 2021:

- Turn in final product fully completed after running it past mentor