Research Hypothesis

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**Project Management Plan**

1. **Stakeholder Communication**
   1. **Initial Project Introduction:** onsite meeting for team and stakeholder introductions, collection of appropriate data and discussion of ethics/privacy. Discussion of stakeholder expectations and project urgency to finalize appropriate scheduling. (apx week 1)
   2. **Quarter Completion Update:** follow up with an email to stakeholders informing them of project hypothesis, any limitations, and any adjustment to the project timeline as needed. Zoom call or in person meeting can be scheduled if appropriate. (apx week 2)
   3. **Halfway Completion Update:** Send out email containing a typed (written) report detailing how the hypothesis was tested, visuals determined thus far, and the data that has been researched. Schedule a conference call with stakeholders to review this email report and answer any questions/remarks. (apx week 3)
   4. **Three Quarters Completion Update:** Send email to stakeholders informing them of approaching final presentation regarding results, updating previous email sent at Week 3/Halfway point. This will include cleaner and clearer visualizations of the data analyzed. (apx week 5)
   5. **Final Presentation:** Schedule onsite meeting to present findings to stakeholders utilizing Tableau and power point, including printed copies of the presentation transcript for smoother presentation. Will release final project and presentation to all stakeholders to disperse amongst appropriate medical and hospital staff. (apx week 6)

**Please note:** In event of emergency or delay, an email will be sent to all stakeholders and an appropriate in person OR conference call will be scheduled within two business days.

1. **Schedule and Milestones**
   1. **Week 1**: From meeting with stakeholders, review collection of questions, answers, and ethics discussed and gathered to start initial project. Create hypothesis and determine any necessary follow up questions.
   2. **Week 2 & 3**: Start data analysis by collecting appropriate data, performing any necessary cleaning, locating any limitations, outliers, or missing data. Test Hypothesis and create appropriate visuals.
   3. **Week 4**: Clean up visuals and start creating rough draft of final presentation, making appropriate notations and documents for stakeholders (documents allowing them to clearly see the visuals, follow along with presentation, and make notes of any questions/remarks)
   4. **Week 5**: Review final presentation with project team internally only to ensure presentation is clean, discernible, and make any necessary changes.
   5. **Week 6**: Final presentation to stakeholders and release of any/all necessary information to medical offices and hospitals
2. Project Deliverables
   1. Typed (written) report to be sent by email simplifying findings of analysis including appropriate visuals.
   2. Final power power presentation including Tableau.
   3. Printed transcript of presentation to be handed out, allowing stakeholders to see visuals more clearly & write any questions/comments
3. Audience Definition
   1. Medical staffing: most familiar with data, visuals will need to tailor a direct need (ie, showing which groups are most susceptible to influenza deaths)
   2. Stakeholders: somewhat familiar with data, visuals will need to tailor more information (ie, showing which locations and which age groups are most susceptible, any cause/effect from staffing, etc) and include a detailed encyclopedia of terminology

**Project Hypothesis**

Influenza is a seasonal epidemic that requires an increased need for staffing. This is in part due to a need for illness care and care arising from complications in at risk populations, such as those 65 years of age and older, five years and younger, and pregnant women.

1. If you are in an at-risk population, then you are more likely to develop complications from the illness.
2. If a state has a larger population, then it is more likely to have influenza deaths
3. If you are unable to access basic healthcare, or treatment care, then you are more likely to develop the illness/complications/death.