PHPM 672/677 Final Project
Due date: Submit in E-Campus by 11:59pm Wednesday 05/02
Milestones 1 &2 due date: E-Campus by 11:59pm 4/16 & 4/23

Submission. Submit on E-Campus by 11:59pm the day before the class they are due.
- Milestone 1: Due in One week (4/16)
  o List of datasets & a list of variables you plan to use for the questions (does not have to be the final list). You must have at least 3 datasets.
  o List of questions you will answer & intro: Need to be sufficient. I will approve. If you are working in groups, each student must have some questions they are responsible for answering and writing the code to answer the question. Designate who is in charge of which questions
  o If working in groups: how the work will be split up (i.e. roles)
- Milestone 2: Due in Two weeks (4/23)
  o A short write up on
    ▪ what has been completed
    ▪ and what is left to do
  o work in progress program (whatever you have. it does not need to be completed)
- Final Presentation: (5/3)
  o All final program, log, and output (lst or html).
  o Presentation (15-30 minutes. Will finalize after we know how many groups)
    ▪ Must include a section on the data pipeline (which tables were combined how)
    ▪ Must include a section on variables used (where did the variables come from and how if you calculated them)
  o [Only for PHPM672. Not required for PHPM677] Write up: Not formal paper
    ▪ (1) Hypothesis, (2) Describe Data & Method, (3) Questions & Answers

Recommended readings for this assignment
Below are some papers that use large secondary data for health services research. There are many others. You should read a few to understand what kinds of questions are addressed how. The general steps are as follows. For this class, you are focusing on steps 3 to 8. So do your best to define some questions that is doable in the given time for your team.
1. Identify a topic of interest
2. Conduct a literature search to understanding what is known and what are the next questions to ask (publishable). Also, you can learn what are potential sources of data
3. Identify data source you will use to answer your question.
   a. Most likely, you will have to adjust your research question to something that can be answered using the data you have access to
4. Once data is confirmed, identify specific research questions you will answer using the data at hand
   a. For each question, think of a hypothesis that the question would confirm or not
5. Plan out the analytic data set you need to answer your questions
6. Plan out a data pipeline to construct the analytic data set from the raw data sources
7. Implement the data pipeline
8. Analyze the analytic data set you created to answer your questions
9. Conclude on whether your hypothesis was met or not, and implications of your findings


Guideline for assignment grading (Total of 32)

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<th>PHPM 672</th>
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<tbody>
<tr>
<td>• Milestone 1 (Total 4)</td>
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<td>• Milestone 2 (Total 4)</td>
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<td>• Final Presentation (Total 24)</td>
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<td>o Program (final): 8 points</td>
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<td>o Write up (final): 12 points</td>
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<td>▪ Hypothesis (2)</td>
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<td>▪ Describe Data &amp; Method (4): Make sure to describe how your datasets were combined including the any linkage relationships</td>
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<td>▪ Questions &amp; Answers (6)</td>
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Final Project

You are encouraged to work in a team of 2 for this assignment. If you do, both of you will receive the same grade for this part of the assignment. You may choose to work along, but you will be expected to do the same amount of work as a two-person team.

When you list the questions, have a section on introduction. The introduction should discuss the over arching research topic you are trying to address with your questions (just the tip of the ice burg on this topic, but still), and why studying this with the data is important. I am thinking a short paragraph would suffice. Consider that your target audience is not an expert in your field. So might not know an obvious thing to you. (e.g. Hunger is still a major issue in the US with one in four skipping a meal due to poverty in the US. Don’t quote me on this, just remember vaguely something like this). If at all applicable, try to look at multiple years for trends over time.