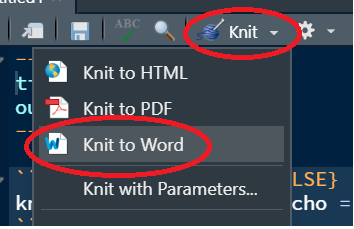
ES218 Project – Peer review

Make sure to read the following guidelines before proceeding:

* You will clone the author’s repo to your local folder. Then you will create a new branch to that repo called *feedback\_<your name>* where you will add/commit two Word documents (outlined later in these instructions).
* You as the reviewer will need to check that all the packages used in the project’s script are installed on your computer. You will know if a package is missing from your computer if the RMD file fails to knit (the error message should be self-explanatory).
* Inline feedback will be done in a Word knitted version of the Rmd file. You can knit to Word using   
    
  Note that feedback pertaining to figure size and layout should be based off of the HTML knitted output and not the Word knitted output
* When completed, commit this Word document and the knitted Word file (with feedback) to the author’s github repo.

1. Author whose project you are evaluating: Peter

1. Evaluate each criterion on a score from 1 to 5 (5 being best):

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| --- | --- | --- |
| Criterion | Description | Score  ( 1 to 5 ) |
| Complexity of analysis | * Was the analysis thorough? * Did the nature of the analysis involve complex coding procedures? * Did the author go above and beyond what was expected?  (note that a score of 5 should be assigned judiciously) | 3.5 |
| Reproducibility | * Was the “knitting” of the Rmd file error free? **(if the knitting process produces an error, 3 points should be automatically deducted)** * Were all warnings and messages suppressed from the output? | 5 |
| Presentation  &  Code quality | * Was the document carefully constructed with properly sized figures? * Were the code chunks clear and properly commented? * Were all loaded packages used as intended by the author? | 4 |
| Discussion | * Did the author clearly layout a narrative? * Were the figures and analyses appropriate for what the author was trying to convey? | 3.5 |

1. Provide thoughtful and constructive feedback. *For example, how could the analysis be improved? Were there errors in the code, if so, what fixes were needed? Are there portions of the script that could have been simplified or re-written in a more succinct way? Did the figures match the narrative? Were there aspects of the analysis that you found novel or unique? Did you learn something new while reviewing the write-up?  
   Make sure to format any code chunks used in your write-up using* ***Courier New*** *font (and maybe change its font color too to distinguish it from the text). Also, indicate the Rmd line number(s) being referenced. You are free to embed snapshots of the html output or Rmd sections via Insert >> Screenshots >> Screen clipping.*

Analysis: The analysis would benefit from some more figures. It is also possible that the high number of mentally unhealthy days and the high drug mortality rates in Massachusetts could have been the result of their larger population size by comparison to the other states in New England, which should be considered in the analysis. The inclusion of the maps was a very useful figure for comparison of data for each state in the analysis. I also found the loess plot useful in assessing the relationship between medical care providers and drug mortality rates.

Reproducibility: Though I personally was unable to knit this project, I was told that it had no problems in terms of reproducibility.

Presentation and Code Quality: There was one repeated package at the beginning of the project and some of the code itself could have been a little more concise. I am not entirely sure if all the packages were used as intended because I don’t know how tibble is used. How the loaded packages are used could be useful to include in the methods section. Other than this, the figure sizes seemed appropriate and made it easy to read the text while looking at the figures. The code was also well commented throughout the entirety of the document.

Discussion: I feel that more analysis could have been included in the conclusion and discussion sections. It is hard to see using the last plot whether there is, in fact, a correlation between income in a state and access to mental health care providers per 100,000 people. Adding a trendline or plotting the residuals may help further analyze this relationship. I believe that the map was a good way to start the analysis and provide explaination for the rest of the analysis.