Cai McCann Homework_1 | 1/15/2020

1. Make sure everything is set up and working on the laptop that you will be using for this course (most current versions of R and RStudio, tinytex package, Typora (a markdown editor), Notepad++, GitHub account)
2. Learn markdown in Typora.
3. Create a typora document to illustrate the following formatting:
   - headers (levels 1-6)
   - unordered lists
   - ordered lists
   - manual line breaks
   - links
   - images
   - block quotes
   - plain code blocks
   - R code blocks
   - in line block
   - in line LaTeX equation
   - centered LaTeX equation
   - horizontal rule
   - simple table

Headers

Header

header

header

header

header

header

Unordered list

- unordered lists
- underordered lists
    - subset unordered list

Manual line break

^that was a manual line break

Links

https://lvash.github.io/Bio381/

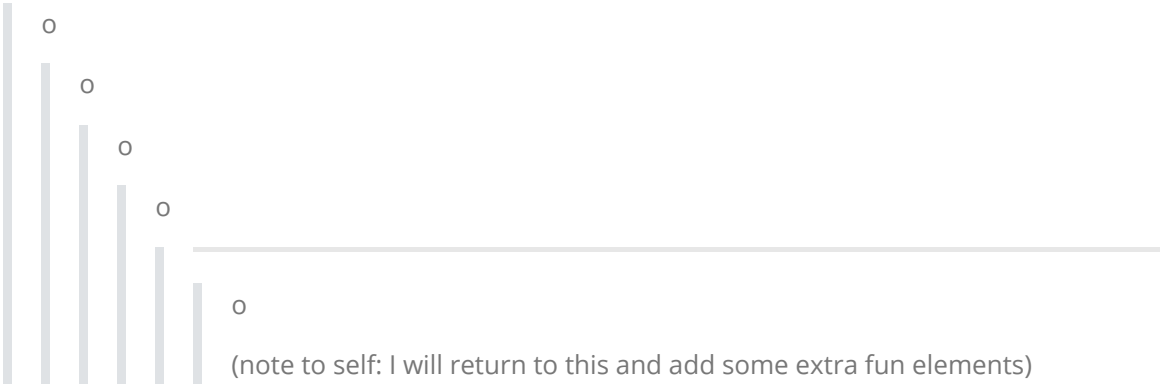
[a very useful website][https://lvash.github.io/Bio381/]

Images

Block quotes

> In this first paragraph, it should be noted that Blockquote is a 10 letter word.
>
> > I did another sideways carat for fun. I wonder if you can make a rainbow?
>
> This is another, second paragraph just for the heck of it.

> I separated out the blockquote just now, using the enter button multiple times to exit from each block quote.



(note to self: I will return to this and add some extra fun elements)

Code blocks...

(Fenced) Code Blocks == Plain code blocks

```
```

```
```

```
I just made a blank box (similar to a text box)--need 6 back ticks ` or you can use tildas ~
```

Code span // non "pre-formatted code block"? == In line blocks

`printf()`

`maybe?`

`insert text between backtick quotes`

`function test() {console.log("notice the blank line before this function?");}`

R code block

```
```

* *this is coded for R* language specific

LaTeX equation fun

In line LaTeX equation

$$ z_{n+1}= z*n^2 + c $$

Centered LaTeX equation

$$z_{n+1} = z * n^2 + c$$

Horizontal rule

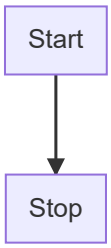
Simple table

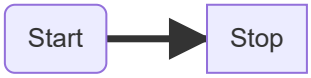
First header	Second Header
this is one sleek looking table :)	

Diagrams!

** This is in Mermaid*

We ran through some examples together in class





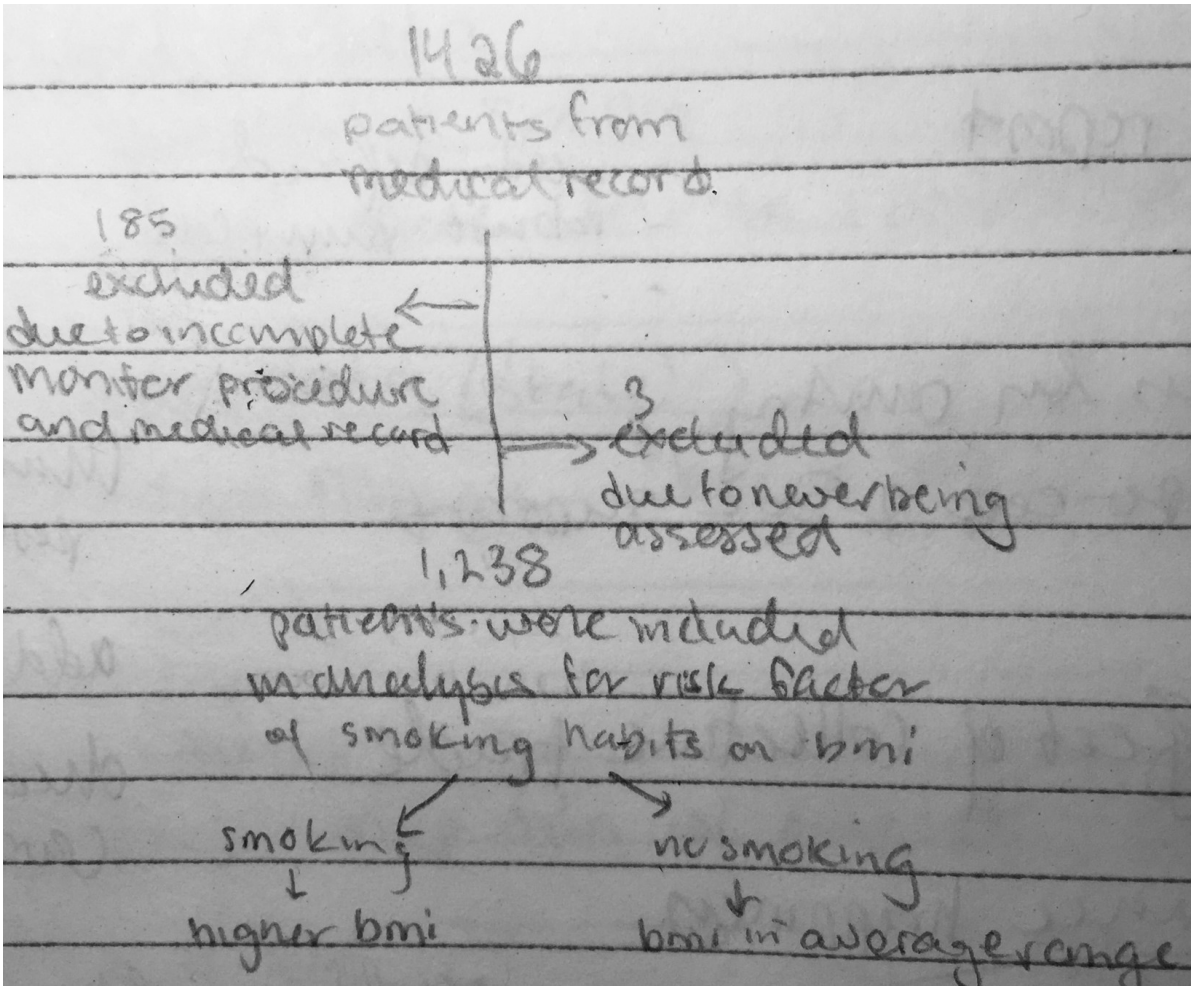
4 - 9.

- create simple cause-and-effect diagram to illustrate one or two hypotheses from your research. Circles represent variables or measurements. Arrows (which can be labelled) indicate cause and effect directions.
- import the image into your Typora document.
- convert your hand-drawn flowchart into one of these display items and imbed it in your Typora document.

- explore themes and save results

Ok, now my attempt:

□ Before:



□ After: