

Ngoné Lo

Visualization Project #3 Process

Final Infographic: <https://my.visme.co/view/8re9w8op-covid-19-uhc-timeline>

Context and Approach

If you or one of your loved ones has an underlying health condition, you have probably gone through a stage of worrying or fact-hunting about how [much more] dangerous COVID-19 could be for you or your loved one. Hence, you are my audience! My sister has a congenital heart disease. My family lives in Senegal where there was little to no school closure during the COVID-19 pandemic. At some point, I found myself continuously trying to reassure my mom that it was okay to let my sister go to school despite the risks. My mom believed [and probably still believes] that COVID-19 would 100% claimed the life of her younger daughter if she ever got infected. As the “*number person of the family*”, my mom was expecting me to come up with numbers and data-driven proofs in order to make my point; that not everyone with an underlying health condition will die if they get infected with COVID-19. I am not trying to prove or even insinuate that COVID-19 is not dangerous, especially for people with underlying health conditions. However, it always better to let facts and data speak rather than empower fear. That is my personal motivation for working on this on this project.

My main goal is to create an educational and data-driven visual representation on how severe COVID-19 could be for people with underlying health conditions and what to expect [symptoms and comorbidity conditions]. I worked on a statistical infographic that is a visualization extension of the [TriNetX 2019-nCoV Real-World Data Report USA, Issue 10 published on March 29, 2021](#). Periodically updated, the TritnetX Report summarizes critical information about the characteristics, treatments, and outcomes of COVID-19 patients identified in the TriNetX network using tables. I will attempt to make the TriNetX Report more inclusive, especially for people in our target audience not very-well versed in or comfortable with raw [summary] statistics and tables.

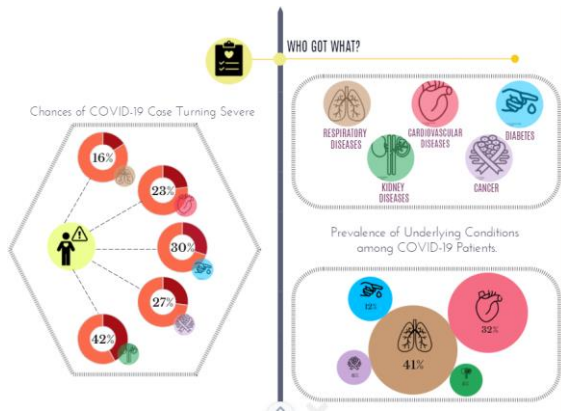
Moreover, language barrier is something I want to minimize. That is why I am going for an infographic. I visualized the summary data of the *Prior/Coexisting Conditions of COVID-19 Patients* and the *Clinical Characteristics During COVID-19 Episode* tables for my infographic. I also extended the infographic storyline with COVID-19 comorbidities using data from the [CDC](#). Furthermore, on top of using [color-blind friendly palette](#) whenever possible, I also tried to make use of meaningful color-object associations [e.g. blue for diabetes, red for cardiovascular diseases, lavender for cancer, yellow for sickness, gray for death] and icons [from [the noun project](#)] to represent the diseases and symptoms. One of my inspirations is a Jeune Afrique infographic, [Profil de la Classe Moyenne en Afrique \(Profile of the Middle Class in Africa\)](#). I think it is pretty much self explanatory and its main key points can be understood/guessed by non-French speaking people despite the language barrier. I also took inspiration from visualizations from the [Visual Capitalist](#).

I used [visme](#) along with visualizations created using Python to build my statistical infographic under the form of a timeline resembling a scrollytelling. I adopted this approach in order to walk my audience through the points with more ease and less [temporary] clutter and extraneous cognitive burden.

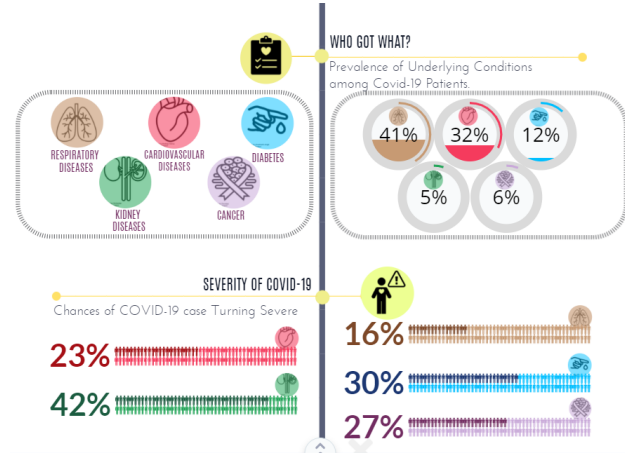
Part 1: Visualizing The Underlying Health Conditions Designs

For the first part I mostly made all the designs using visme. I opted for **Design #3** for **Part 1**.

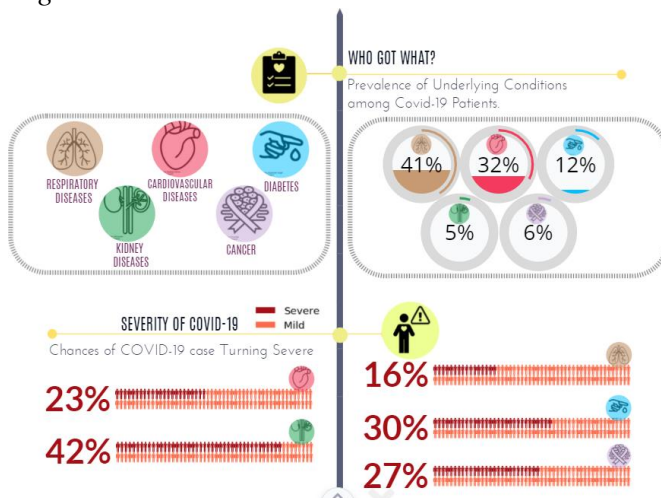
Design #1



Design #2

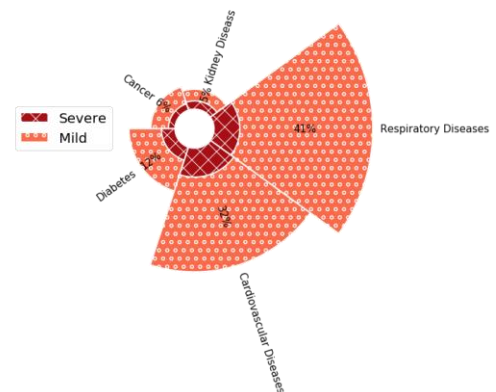


Design #3



Design #4

Prior Underlying Medical Conditions: Severe vs. Mild Repartition



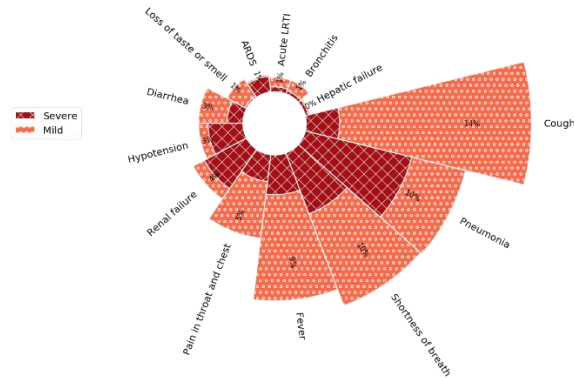
Additional designs for **Part 1** are available in the Jupyter Notebook

Part 2 : Visualizing The Symptoms & Diagnosis

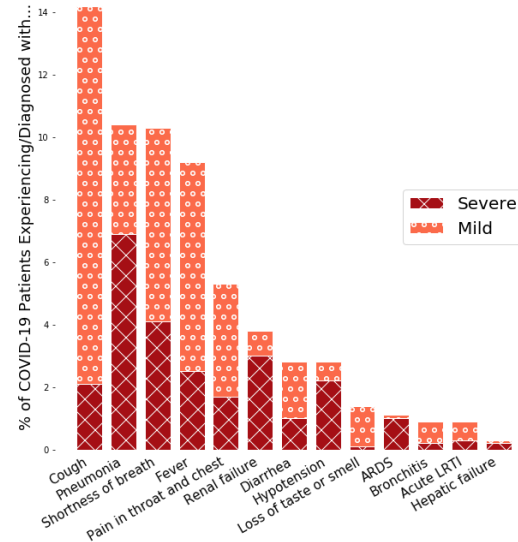
For the second part, I made all the designs using Python. I opted for **Design #1** for **Part 2**.

Design #1

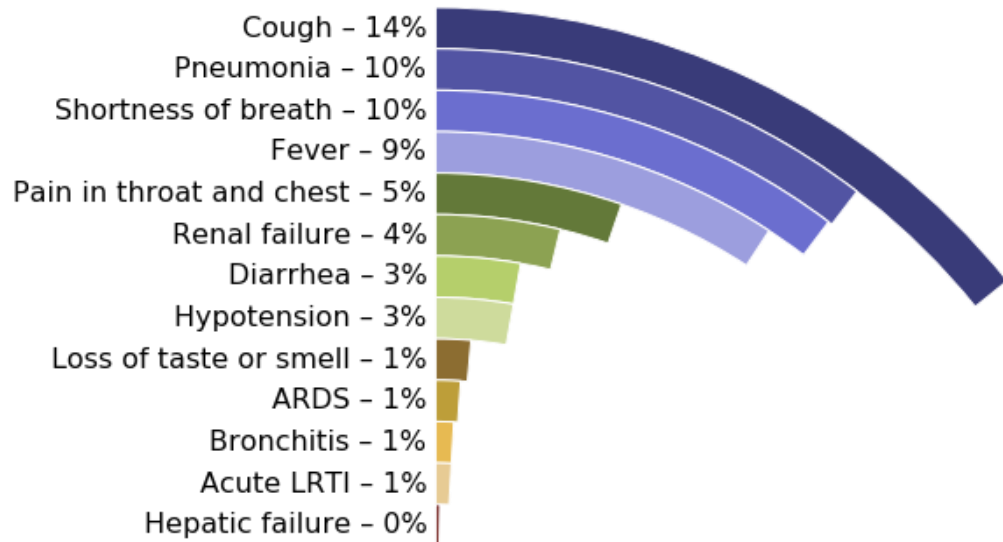
Symptoms & Diagnosis: Mild vs Severe Repartition



Design #2



Design #3

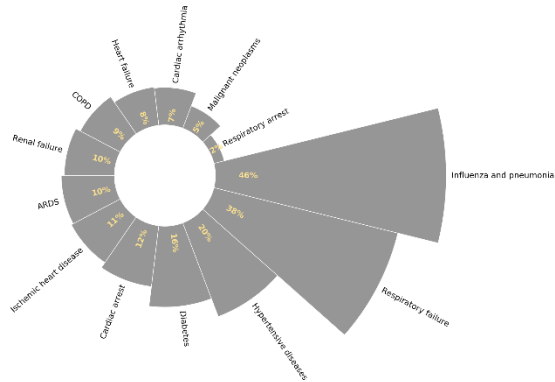


Part 3: Visualizing The Comorbidities

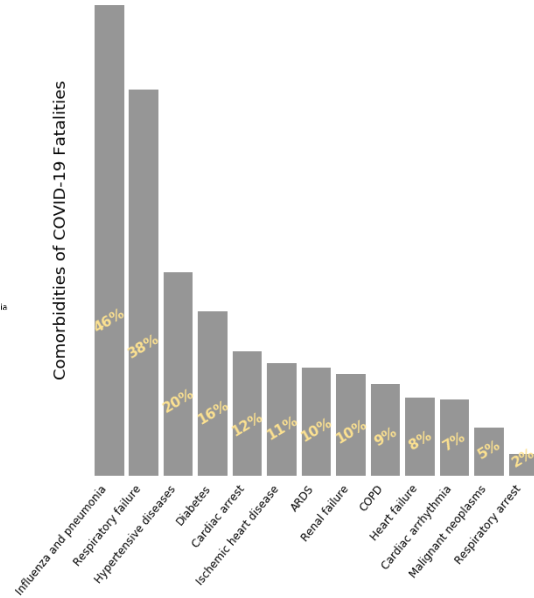
For the third part, I made all the designs using Python. I opted for **Design #4** for **Part 4**.

Design #1

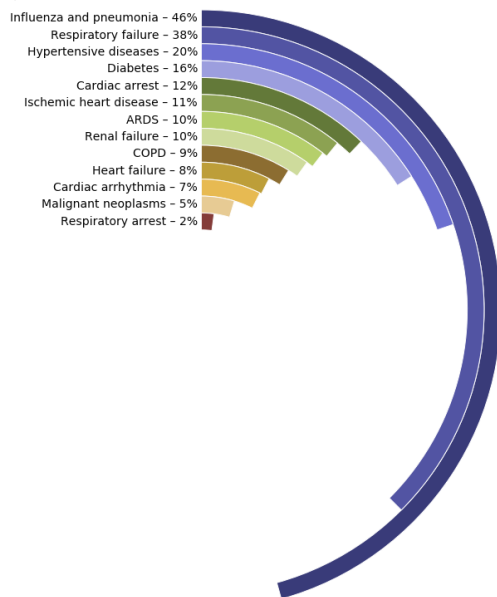
Comorbidities of Covid-19 Fatalities



Design #2

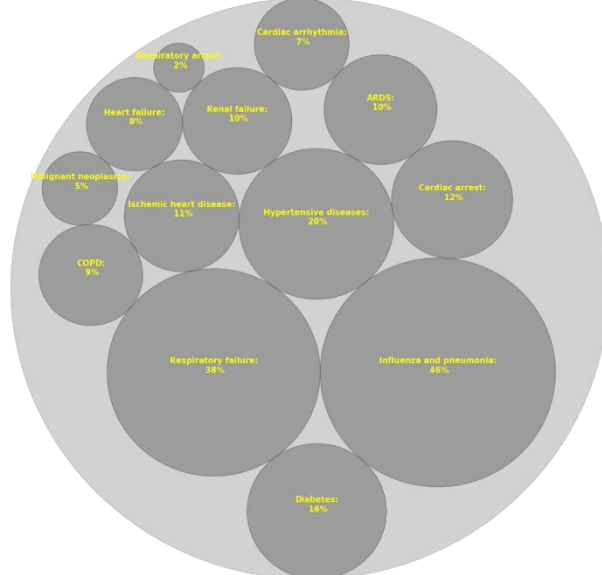


Design #3



Design #4

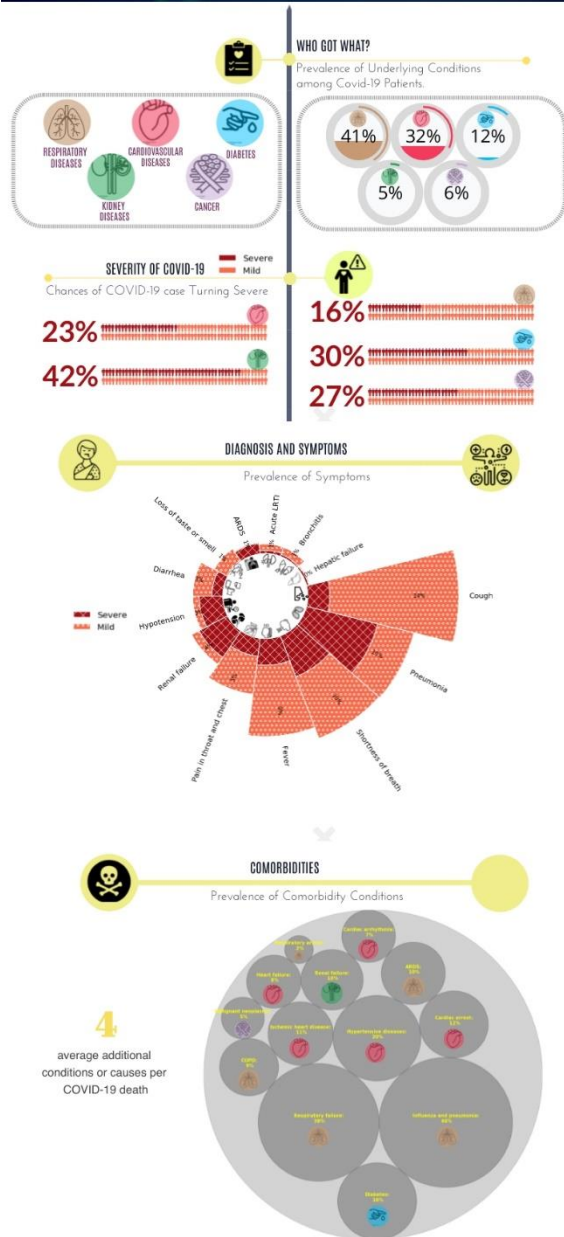
Comorbidities of COVID-19 Fatalities



Final Infographic: <https://my.visme.co/view/8re9w8op-covid-19-uhc-timeline>

COVID-19

& UNDERLYING HEALTH CONDITIONS



DATA SOURCE:
TRINETX 2019-NCOV REAL-WORLD DATA REPORT
USA, ISSUE 10 PUBLISHED ON MARCH 29, 2021
CDC

