

PROJECT 1: INVESTIGATING MATERNAL MORTALITY RATES

Project Topic: Maternal Mortality Rates

QUESTION: Why do certain racial backgrounds, particularly black women, exhibit higher maternal mortality rates compared to other racial groups in the United States?

HYPOTHESIS: The elevated maternal mortality rates among black women in the United States compared to other racial groups stem from a complex interplay of healthcare disparities, socio-economic factors, and systemic biases, where limited access to quality healthcare, economic inequality, and racial biases within healthcare systems collectively contribute to this concerning disparity.

Project Timeline

- Create master notebook for analysis -
- Divide sections -
- Data sources added Data section in this doc -
- Module 6 due - 2/7
- Team due date - 2/13
- Final presentation - 2/14

Potential Data Sources

- **CDC** - developer portal - <https://open.cdc.gov/apis.html>
 - <https://www.cdc.gov/nchs/data/hestat/maternal-mortality/2020/maternal-mortality-rates-2020.htm> (Maternal Mortality Rates in the United States, 2020)
- NHS - developer portal: <https://digital.nhs.uk/developer>
- **NIH** - developer portal: <https://support.nlm.nih.gov/knowledgebase/article/KA-05317/en-us>
- NGO that focuses on maternal health (can point analysis to publicly sourced data)
- Kaggle
- **WHO** - <https://www.kaggle.com/datasets/utkarshxy/who-worldhealth-statistics-2020-complete>

- <https://www.pnas.org/doi/10.1073/pnas.1913405117> (Physician–patient racial concordance and disparities in birthing mortality for newborns)

RESEARCH:

Maternal mortality medical causes: infections, high blood pressure, unsafe birth/ abortions

IDEA INVENTORY

Backlog ideas

- Voter registration
 - How do demographic factors influence voter registration rates, and is there a significant variation among different groups
 - Is there a correlation between the accessibility of voter registration services and the subsequent voter turnout in elections?
 - Do modifications in voter registration laws and policies result in measurable changes in the overall voter registration rates
 - How do different outreach and education strategies impact voter registration among eligible citizens?
 - Which groups are disproportionately appearing in polling?
 - Why is this gender, age, socio-economic standing have an outsized voice?
- Alternative energy
 - Are EV's the cleanest? What about wind, solar, nuclear? What does the data say? How do we define 'clean'?
 - Metrics to measure
 - Capacity factor.

- take the total amount of energy the plant produced during a period of time and divide by the amount of energy the plant would have produced at full capacity.
- Levelized cost of energy.
- Net present value.
- Internal rate of return. Be the first to add your personal experience.
- Greenhouse gas emissions. Be the first to add your personal experience.
- Social acceptance. ...

Potential Data set sites:

- tbd