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DATASOURCE:

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cdcwonder.com

CDC Wonder

BRFSS

<https://voxdev.org/>

Behavioral Risk Factor Surveillance System (BRFSS)

https://www.cdc.gov/tobacco/data\_statistics/fact\_sheets/adult\_data/cig\_smoking/index.htm

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EPA's AQS Data Mart account:  
https://aqs.epa.gov/

<https://epa.maps.arcgis.com/>

<https://www.epa.gov/outdoor-air-quality-data/download-daily-data>

Your user ID is your email address: nadugyam@odu.edu  
Your key is: **tawnyfrog41**  
  
This key was automatically generated. If, for any reason, it will not work for you, please respond and request a new one.  
  
You can stay informed of system and data developments at our RSS feed: <http://www.epa.gov/airquality/airdata/rssairdata.xml>

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Jenni.ai Free

Open Read

Consensus.ai

Elicit.org

Scispace

Scite.ai Paid

Popai

https://www.semanticscholar.org/search?

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Application: Compare changes in mortality rates before and after the implementation of smoking bans in states that have implemented bans versus those that have not.

Approach: Calculate the difference in mortality rate trends between treated states (with smoking bans) and control states (without smoking bans) before and after the ban.

**DATA**

**Mortality Data:**

This would include information on mortality rates or mortality counts for different causes of death (e.g., cardiovascular diseases, respiratory diseases, lung cancer) for each state over time. Mortality data can be obtained from sources such as the Centers for Disease Control and Prevention (CDC), the National Center for Health Statistics (NCHS), or state health departments.

**Smoking Ban Data:**

You would need data on the implementation of smoking bans in each state, including the date when the ban was enacted and any subsequent amendments or changes to the policy. This information can typically be found through legislative records, public health agencies, or academic studies that have documented the timing of smoking ban policies.

**Control Variables:**

It's essential to include control variables that may influence mortality rates but are not directly affected by smoking bans. These could include demographic variables (e.g., population size, age distribution), socioeconomic factors (e.g., income, education level), healthcare access and quality indicators, and other relevant policy changes or interventions.

**State-Level Characteristics:**

Additional data on state-level characteristics, such as smoking prevalence rates, tobacco control policies beyond smoking bans (e.g., tobacco taxes, anti-smoking campaigns), air quality measures, and healthcare infrastructure, can provide context for the analysis and help control for potential confounding factors.

**Time-Series Data:**

Ideally, you would have longitudinal data covering multiple years both before and after the implementation of smoking bans to examine trends in mortality rates over time and assess the impact of the policy change.

Once you have collected these data, you can use statistical methods such as Difference in Differences (DiD), Fixed Effects, or other causal inference techniques to analyze the relationship between smoking bans and mortality rates while controlling for other factors that may influence the outcomes. Additionally, conducting sensitivity analyses and robustness checks can help ensure the validity of the findings.

A map of the united states

Description automatically generated

**MORTALITY/STATES/YEAR:**

<https://data.cdc.gov/Health-Consequences-and-Costs/Smoking-Attributable-Mortality-Morbidity-and-Econo/4yyu-3s69/about_data>

[State Overview - Injury Facts (nsc.org)](https://injuryfacts.nsc.org/state-data/state-overview/)

[Morbidity and Mortality Weekly Reports (MMWR) | Smoking & Tobacco Use | CDC](https://www.cdc.gov/tobacco/data_statistics/mmwrs/index.htm)

**TOBACCO USE:**

<https://www.wikiwand.com/en/List_of_smoking_bans_in_the_United_States>

<https://data.cdc.gov/browse?category=Smoking+%26+Tobacco+Use>

[Adult Cigarette Smoking by State | American Lung Association](https://www.lung.org/research/trends-in-lung-disease/tobacco-trends-brief/data-tables/ad-cig-smoking-state)

[Map of Cigarette Use Among Adults | STATE System | CDC](https://www.cdc.gov/statesystem/cigaretteuseadult.html)

[NVSS - Leading Causes of Death (cdc.gov)](https://www.cdc.gov/nchs/nvss/leading-causes-of-death.htm)

[US Health Map | Institute for Health Metrics and Evaluation (healthdata.org)](https://www.healthdata.org/data-tools-practices/interactive-visuals/us-health-map)

**POPULATION**

[**https://www2.census.gov/programs-surveys/popest/tables/1980-1990/state/asrh/8090com.txt**](https://www2.census.gov/programs-surveys/popest/tables/1980-1990/state/asrh/8090com.txt)

https://upload.wikimedia.org/wikipedia/commons/f/f3/US\_state\_historical\_population\_FRED\_SMIL.svg

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| --- | --- | --- | --- | --- |
| **State** | **Year** | **Population** | **Deaths**  **(1980 - 2022)** | **Per Capita** |
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Mortality Rates by states and year for the periods (1980 - 2022)

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| --- | --- |
| **Smoking Ban Laws, by States (1990 - 2018)** | |
| State | Effective Date |
| Alaska | October 1, 2018 |
| Arizona | May 1, 2007 |
| California | January 1, 1995 |
| Colorado | July 1, 2006 |
| Connecticut | October 1, 2003 |
| Delaware | November 1, 2002 |
| Hawaii | November 16, 2006 |
| Illinois | January 1, 2008 |
| Iowa | July 1, 2008 |
| Kansas | July 1, 2010 |
| Maine | January 1, 2004 |
| Maryland | February 1, 2008 |
| Massachusetts | July 1, 2004 |
| Michigan | May 1, 2010 |
| Minnesota | October 1, 2007 |
| Montana | October 1, 2005 |
| Nebraska | June 1, 2009 |
| New Jersey | April 15, 2006 |
| New Mexico | June 15, 2007 |
| New York | July 24, 2003 |
| North Dakota | January 2, 2010 |
| Ohio | December 7, 2006 |
| Oregon | January 1, 2009 |
| Rhode Island | March 1, 2005 |
| South Dakota | November 10, 2010 |
| Utah | January 1, 2007 |
| Vermont | September 1, 2005 |
| Washington | December 8, 2005 |
| Wisconsin | July 5, 2010 |

(1999 - 2016) <https://wonder.cdc.gov/controller/datarequest/D140>

(1979 - 1998) <https://wonder.cdc.gov/controller/datarequest/D16>

460-519 (Diseases of the respiratory system)