Data Sources

• Individual-level data sources
• Aggregated data sources
• Policy data sources
• Literature data sources
• Coding sources

Note that COVID data sources may change (disappear) on a daily basis and some of the links provided in this slide deck may not work tomorrow!
Individual-level data sources

• US National
  - National COVID Cohort Collaborative (N3C)  https://covid.cd2h.org/N3C
  - COVID19 Healthcare Coalition (MITRE)  https://c19hcc.org/
  - COVID19 Research DB (Commercial)  https://covid19researchdatabase.org/
  - AC. Surgeons  https://www.facs.org/quality-programs/covid19-registry
  - Claims data (e.g., Medicare)

• US Local (Maryland)
  - Maryland Statewide  CRISP (MD’s HIE) + MDH + MHCC + HSCRC
  - JHU  PCORnet/PaTH + PMAP + Epic
Individual-level data sources *(cont.)*

- International (sample)
  - Wolfram
    - [https://datarepository.wolframcloud.com/resources/Patient-Medical-Data-for-Novel-Coronavirus-COVID-19](https://datarepository.wolframcloud.com/resources/Patient-Medical-Data-for-Novel-Coronavirus-COVID-19)
  - ISARIC
    - [https://isaric.tghn.org/covid-19-clinical-research-resources/](https://isaric.tghn.org/covid-19-clinical-research-resources/)
  - European
Wolfram Individual Level data (anonymized)
Aggregated data sources

• National
  - JHU CSSE [https://github.com/CSSEGISandData/covid-19-data](https://github.com/CSSEGISandData/covid-19-data)
  - Tracking [https://covidtracking.com/data](https://covidtracking.com/data)

• Others
  - [https://towardsdatascience.com/top-5-r-resources-on-covid-19-coronavirus-1d4c8df6d85f](https://towardsdatascience.com/top-5-r-resources-on-covid-19-coronavirus-1d4c8df6d85f)
  - [https://github.com/grimnr14/cphit-covid19](https://github.com/grimnr14/cphit-covid19)
  - [https://ourworldindata.org/coronavirus](https://ourworldindata.org/coronavirus)
  - [https://walgreens.maps.arcgis.com/apps/webappviewer/index.html?id=cf0649aa9f9f4603a3abb8b0e6732535](https://walgreens.maps.arcgis.com/apps/webappviewer/index.html?id=cf0649aa9f9f4603a3abb8b0e6732535)

• Non-US
  - [https://lab.gedidigital.it/gedi-visual/2020/coronavirus-i-contagi-in-italia/?refresh_ce](https://lab.gedidigital.it/gedi-visual/2020/coronavirus-i-contagi-in-italia/?refresh_ce)
  - [https://c19dashboard.com/](https://c19dashboard.com/)
Aggregated data sources (cont.)

• States (1/3)
  - Alaska  
    https://dhss.alaska.gov/dph/Epi/id/Pages/COVID-19/monitoring.aspx
  - Alabama  
    https://alpublichealth.maps.arcgis.com/apps/opsdashboard/index.html#/?id=6d2771faa9da4a2786a509d82c8cf0f7
  - Arkansas  
    https://www.healthy.arkansas.gov/programs-services/topics/novel-coronavirus
  - American Samoa  
    https://www.americansamoa.gov/covid-19-advisories
  - Arizona  
  - California  
    https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/Immunization/ncov2019.aspx
  - Colorado  
    https://covid19.colorado.gov/data
  - Connecticut  
    https://portal.ct.gov/Coronavirus
  - District Of Columbia  
  - Delaware  
  - Florida  
    https://experience.arcgis.com/experience/96dd742462124fa0b38dded9b25e429/
  - Georgia  
  - Guam  
    http://dphss.guam.gov/covid-19/
  - Hawaii  
    https://health.hawaii.gov/coronavirusdisease2019/
  - Iowa  
    https://idph.iowa.gov/Emerging-Health-Issues/Novel-Coronavirus
  - Idaho  
    https://coronavirus.idaho.gov/
  - Illinois  
    http://www.dph.illinois.gov/topics-services/diseases-and-conditions/diseases-a-z-list/coronavirus
  - Indiana  
    https://www.in.gov/isdh/28470.htm
Aggregated data sources (cont.)

• States (2/3)
  o Kansas  https://public.tableau.com/profile/kdhe.epidemiology#!/vizhome/COVID-19Data_15851817634470/KSCOVID-19CaseData
  o Kentucky  https://chfs.ky.gov/agencies/dph/Pages/covid19.aspx
  o Louisiana  http://ldh.la.gov/Coronavirus/
  o Massachusetts  https://www.mass.gov/info-details/covid-19-cases-quarantine-and-monitoring
  o Maryland  https://coronavirus.maryland.gov/
  o Michigan  https://www.michigan.gov/coronavirus/0,9753,7-406-98163_98173--,00.html
  o Minnesota  https://www.health.state.mn.us/diseases/coronavirus/situation.html
  o Mississippi  https://msdh.ms.gov/msdhsite/_static/14,0,420.html
  o Montana  https://montana.maps.arcgis.com/apps/MapSeries/index.html?appid=7c34f3412536439491adcc2103421d4b
  o Nebraska  https://nebraska.maps.arcgis.com/apps/opsdashboard/index.html#/4213f719a45647bc873ffbb58783ffee3
  o New Jersey  https://covid19.nj.gov/#/live-updates
  o New Mexico  https://cv.nmhealth.org/
  o Nevada  https://app.powerbi.gov.us/view?r=eyJrIjoiMjA2ZThiOWUtM2FlNS00MGY5LWFiYjUtNmQwNTQ3Nzg5N2I2IiwiMiI6ImU0YTM0MGU2LWI4OWUtMGZlYy05MWYtMzc4NzZmM2E3ZjM3NzgwMzI3ZmQ0MzQzMTU1Mjg3MWNhNDNkN2UyZiJ9&cacheMode=ForcedDownload&cacheDataKey=06611f847e32c5c18d886012bdc114d9
  o New York  https://coronavirus.health.ny.gov/county-county-breakdown-positive-cases
Aggregated data sources (cont.)

• States (3/3)

  o Ohio  https://coronavirus.ohio.gov/wps/portal/gov/covid-19/
  o Oklahoma  https://coronavirus.health.ok.gov/
  o Pennsylvania  https://www.health.pa.gov/topics/disease/coronavirus/Pages/Cases.aspx
  o Puerto Rico  https://estadisticas.pr/en/covid-19
  o Rhode Island  https://health.ri.gov/data/covid-19/
  o Tennessee  https://www.tn.gov/health/cedep/ncov.html
  o Texas  https://txdshs.maps.arcgis.com/apps/opsdashboard/index.html#/ed483ecd702b4298ab01e8b9cafc8b83
  o Utah  https://coronavirus-dashboard.utah.gov/
  o Virgin Islands  https://doh.vi.gov/
  o Vermont  https://vcgi.maps.arcgis.com/apps/opsdashboard/index.html#/6128a0bc9ae14e98a686b635001ef7a7
  o Washington  https://www.doh.wa.gov/Emergencies/Coronavirus
  o Wisconsin  https://www.dhs.wisconsin.gov/outbreaks/index.htm
  o West Virginia  https://dhhr.wv.gov/Coronavirus%20Disease-COVID-19/Pages/default.aspx
Other data sources (e.g., policies, indexes)

• Indexes & Calculators
  o C-19 Index  https://closedloop.ai/c19index/  & Link
  o Henry Ford Calculator  Link
  o MD Calc  https://www.mdcalc.com/covid-19
  o Community Vulnerability Map  https://covid19.jvion.com/
  o UMD Impact Analysis Map  https://data.covid.umd.edu/

• Policies
  o KFF  Link
  o C19hcc.org  https://c19hcc.org/resources/npi-dashboard/

• Literature
  o Semantic Scholar  https://www.semanticscholar.org/cord19
  o MedRxiv  Link
COVID Community Vulnerability Map

Identification of the populations at risk for severe outcomes once infected to inform resource planning, interventions, outreach and other community initiatives.
Getting Started

1. Answer questions about your health history
2. Share symptoms you are experiencing (if any)
3. View results
4. Choose what happens next

What is your age?

What is your sex?
No response

Country?
United States of America

Zip Code?
21044

4.3X ELEVATED VULNERABILITY
You are 4.3 times more vulnerable to severe complications from COVID-19
COVID-19 Impact Analysis Platform

UMD Impact Analysis Platform
COVID-19 US State Nonpharmaceutical Interventions (NPIs)

Evolution of Statewide NPIs

This dashboard is a visualization of statewide nonpharmaceutical interventions in the United States over time. It focuses on understanding the spread of COVID-19 within a community at the time an NPI was implemented. It further allows for comparison of states with respect to the timing of NPI implementation.

NPIs, Cases, and Deaths by Implementation Date

Epidemiological Curve: Cum. Cases and NPIs

Produced for the COVID-19 Healthcare Coalition  https://c19hcr.org/
Coding Sources

- ICD: https://www.who.int/classifications/icd/covid19/en/
- ICD: https://www.cdc.gov/nchs/icd/icd10cm.htm
- LOINC: https://loinc.org/sars-coronavirus-2/
- SNOMED: https://confluence.ihtsdotools.org/display/snomed/SNOMED+CT+COVID-19+Related+Content
- Vocabulary: https://mcovid.org/docs/vocabulary/
- Dictionary: https://mcovid.org/dictionary/
- Telehealth APC: Link
CPHIT Projects

- COVID Population Health Typology/Denominators
- COVID Disparities (e.g., ADI index ~ zip code level analysis)
- COVID and non-COVID Utilization Prediction
- Telemedicine Utilization Prediction (collaboration with ATA)
- Mental Health (Suicide rates in MD) during and after COVID
Questions

• CPHIT projects or COVID Data Sources
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