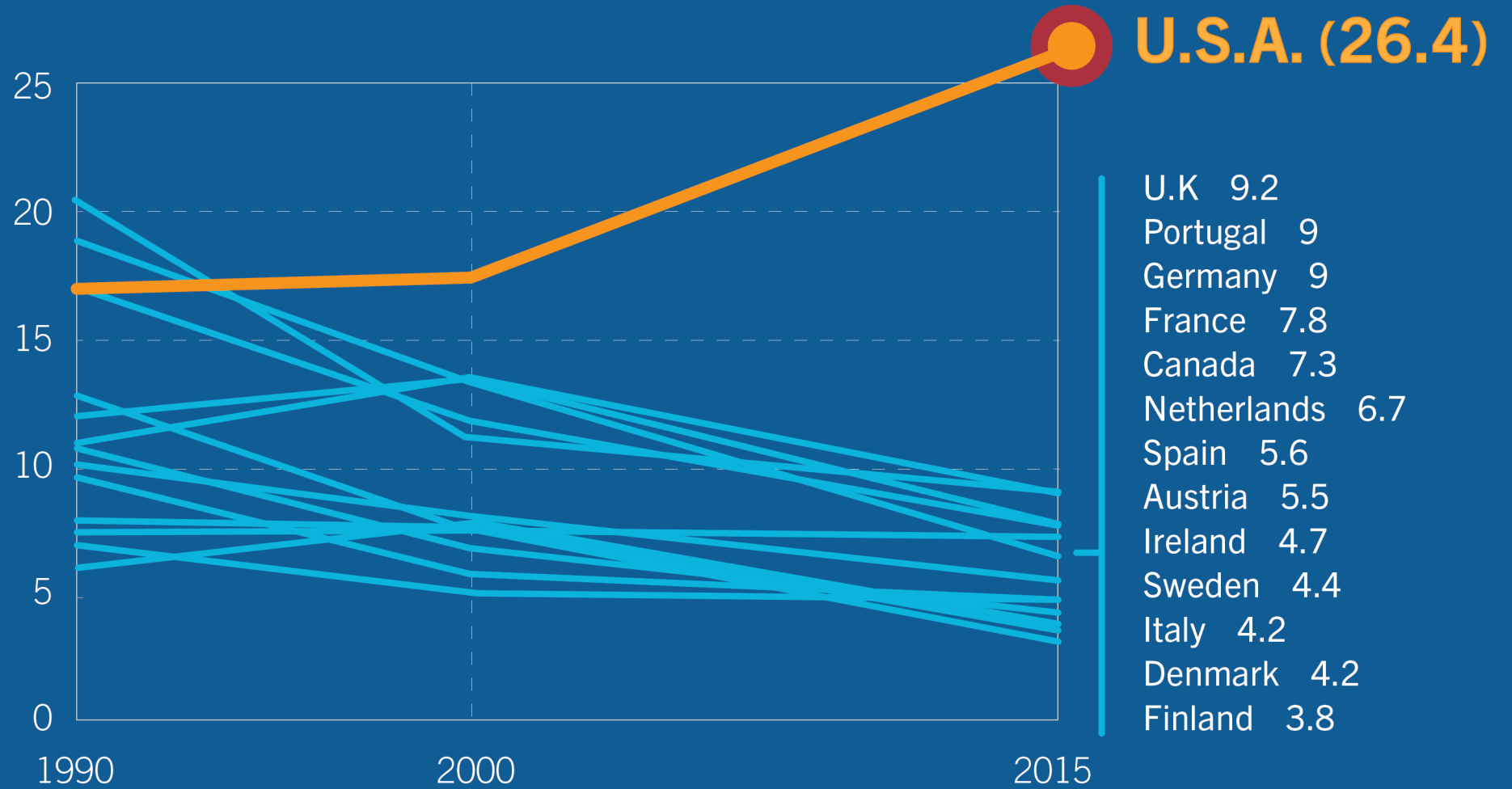


Modeling Impact of Policy on Maternal Mortality

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Maternal Mortality Climbs in the U.S.; Declines Elsewhere



Leading Causes of Pregnancy-Related Deaths in the United States.^[1]

Cause of Death	Total Percent of Deaths	Percent of Non-Hispanic White Deaths	Percent of Non-Hispanic Black Deaths
Cardiovascular and coronary conditions	14.0%	15.5%	10.5%
Hemorrhage	14.0%	14.4%	12.8%
Infection	10.7%	13.4%	8.1%
Cardiomyopathy	10.7%	10.3%	14.0%
Preeclampsia and eclampsia	8.4%	5.2%	11.6%
Embolism	7.4%	5.2%	9.3%

^[1] Brantley, Mary D, William Callaghan, Andria Cornell, Shanna Cox, Nicole Davis, Sarah Foster, David Goodman, et al. 2018. "Report From Nine Maternal Mortality Review Committees."

Maternal Mortality

3-to-1 Non-Hispanic Black Women vs. Non-Hispanic White Women



Data Quality Issues

National Statistics

- High reliance on information from death certificates
- Death certification inaccurate or incomplete
- Overreporting via pregnancy checkbox
- Voluntary reporting to NCHS
- NCHS assigns ICD-10 codes, which change periodically
- Revision of coding methodology by NCHS

State MMRCs

- Definitions of maternal mortality vary by state
- Determining pregnancy-associated vs. pregnancy-related deaths
- Determining preventability varies by state
- Many states do not have an MMRC

No standardized data collection approach for states/jurisdictions;
No standardized interplay between NCHS & State MMRCs

Data Sources

Data Sources within 3MID

Synthetic Populations and Ecosystems of the World



PERISTATS



Synthetic Population

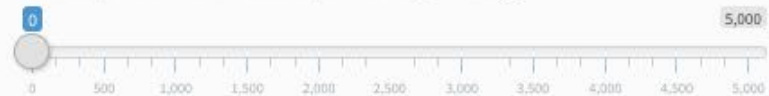
A synthetic population is a reproduced representation of a population (e.g. women of childbearing potential) which replicates the statistical variable distributions of the larger population

MITRE Maternal Mortality Interactive Dashboard (3MID)

Select a Region:

CALIFORNIA

Dollars Spent on Maternal Care per Person (Annually):



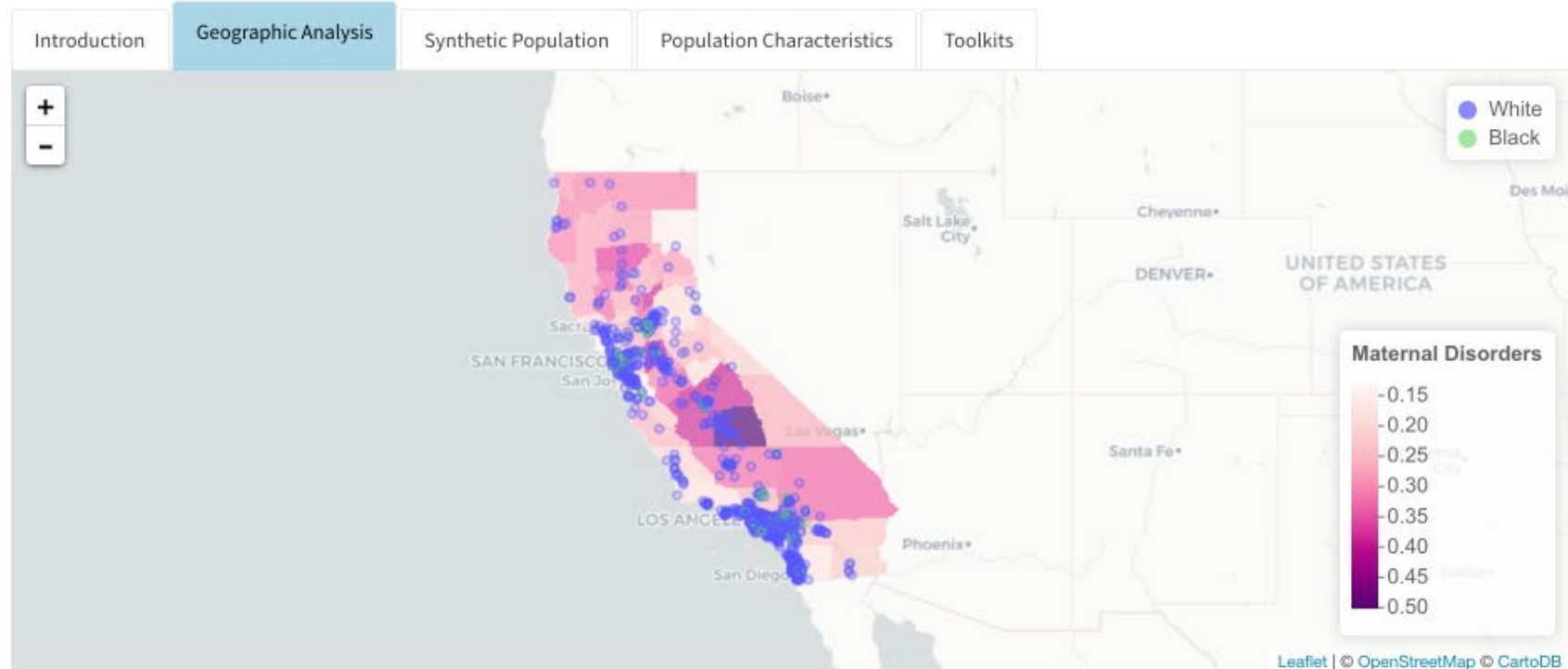
Quality Improvement Toolkits:

- Early Elective Deliveries
- Preeclampsia
- Obstetric Hemorrhage
- Vaginal Birth
- Cardiovascular Disease
- Venous Thromboembolism

Run Simulation

Resample Population

Reset Parameters



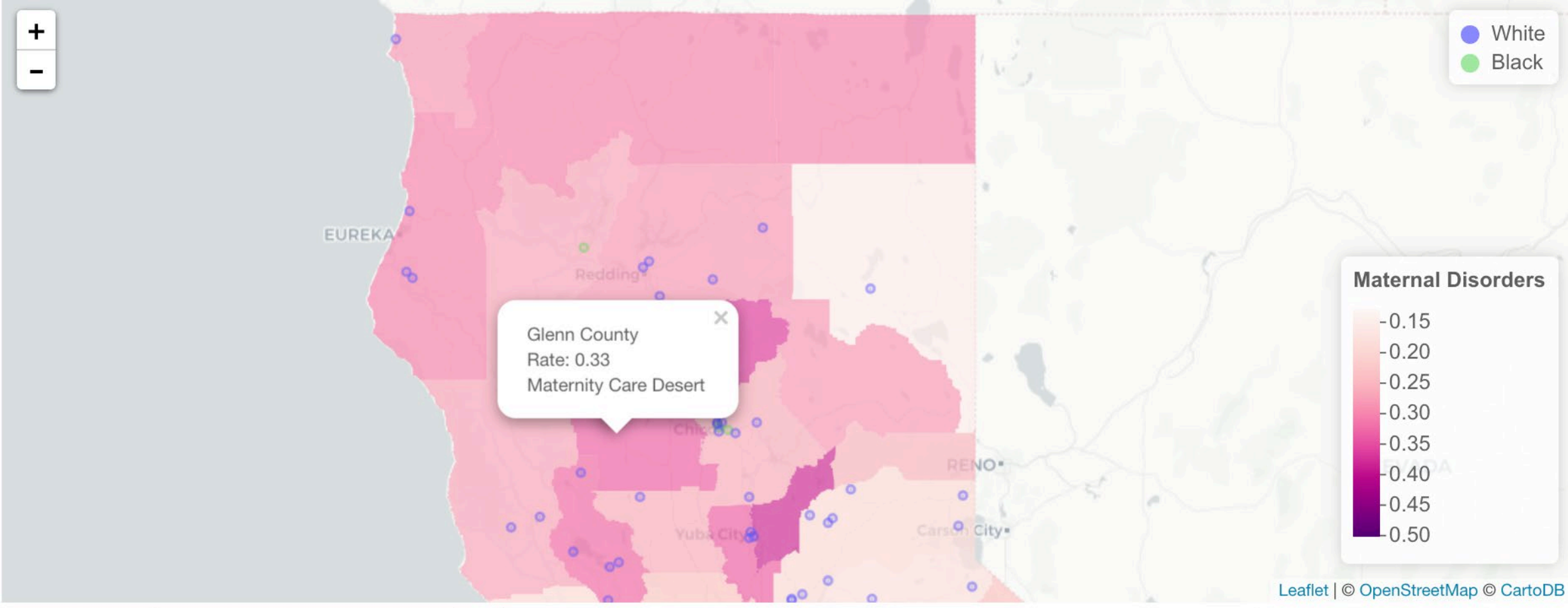
Source: Institute for Health Metrics and Evaluation (IHME). United States Mortality Rates by County 1980-2014. Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2016.

Maternal disorders: maternal hemorrhage; maternal sepsis and other maternal infections; maternal hypertensive disorders; maternal obstructed labor and uterine rupture; maternal abortion, miscarriage, and ectopic pregnancy; indirect maternal deaths; late maternal deaths; other maternal disorders; maternal deaths aggravated by HIV/AIDS

A maternity care desert is a county in which access to maternity health care services is limited or absent, either through lack of services or barriers to a woman's ability to access that care. Click [here](#) for the full report.



County Level Data View



Individual Level Demographic View

