

# Restrictive Maternal Health Policies Negatively Affect Women's Health



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#### Results

#### **State Policy**

Incomplete reporting or pregnancies shows that The United States maternal health resources are in need of being bolstered. (Desai, Sheila, et al.2021)

States with restivive abortion access experienced more maternal morality deaths by 7%. (Vilda, Dovile, et al., 2021)

#### **Race and Education**

States with restrictive abortions policies showcased women of color experiences higher chances of adverse maternal health affects, with a focus on black women. See Table 3. (Red, Sara K, et al. 2021)

Non-hispanic white women had less adverse maternal mortality rates compared to non-hispanic black and hispanic women. See Table 4. (Vilda, Dovile, et al. 2021).

Women who had less than a college degree were more likely to experience adverse maternal health effects. See Table 1. (Red, Sara K, et al. 2022)

# TABLE 1— Total Maternal Mortality (TMM), Maternal Mortality (MM), and Late Maternal Mortality (LMM; 2015–2018) and State-Level Covariates (2015) by Tertile of State Abortion Policy Composite Index: United States

	All States (n = 51), Mean ±SD or No. (%)	Low (n = 15), Mean ±SD or No. (%)	Moderate (n = 17), Mean ±SD or No. (%)	High (n = 19), Mean ±SD or No. (%)	
TMM per 100 000 live births	24.62 ±8.89	20.79 ±5.25	22.04 ±7.60	29.98 ±9.90	
MM per 100 000 live births	17.78 ±7.13	14.83 ±3.89	15.81 ±6.10	21.73 ±8.21	
LMM per 100 000 live births	7.02 ±2.86	6.32 ±2.34	6.23 ±2.73	8.25 ±3.03	
Abortion policy composite index, 2015	3.75 ±2.46	0.73 ±0.65	3.41 ±0.91	6.42 ±0.71	
Poverty (% of state population with income below federal poverty level <sup>a</sup> )	14.85 ±3.17	13.81 ±3.38	14.29 ±2.78	16.16 ±3.02	
Unemployment (% of state civilian population aged ≥ 16 y)	7.63 ±1.72	7.91 ±1.49	7.67 ±1.54	7.36 ±2.042	
College graduates (% of state population aged ≥ 25 y)	28.66 ±5.87	33.36 ±6.19	27.47 ±5.33	26.01 ±3.7	
Non-Hispanic White (% of state population)	75.99 ±13.63	71.13 ±19.99	80.45 ±8.30	75.84 ±10.26	
Residence in urban county (% of state population)	74.11 ±14.89	77.97 ±19.92	76.22 ±13.58	69.17 ±10.02	
Foreign-born population (% of state population)	9.25 ±6.12	13.10 ±7.35	8.95 ±5.71	6.47 ±3.52	
Medicaid expenditure per capita (2011 US\$)	3226 ±1170	3961 ±1412	3371 ±933	2518 ±691	
Births to women aged ≥ 35 y, %	15.96 ±4.17	19.69 ±3.91	15.65 ±3.53	13.18 ±2.26	
Births covered by Medicaid, %	40.64 ±9.06	38.75 ±8.44	41.09 ±7.50	41.51 ±11.07	
Medicaid expansion status					
Yes	30 (58.81)	14 (93.33)	11 (64.71)	5 (26.29)	
No	21 (41.19)	1 (6.67)	6 (35.29)	14 (73.71)	
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Note. All estimates for MM and LMM exclude data from California.

<sup>a</sup>Federal poverty level is according to the US Census Bureau's American Community Survey.

### Introduction and Objectives

- American history showcases that maternal health choices are often not woman friendly. Public policy and
  opinions tend to get in the way of medical science, leading to maternal health crises that many women face
  even today. With the rise of the pro-life movements, I thought it would be interesting to delve into if these
  abortion policies may help women
- Does restrictive aboriton access to maternal health policies help women's health? My expectation among these policies will showcase a divide between states that show restrictive policies make it difficult for women to receive appropriate maternal health.

#### **Methods**

#### **Literature Review**

In order to understand how restrictive abortion access in maternal health policies affect women, we will go over various pieces of literature of studies.

### **TABLE 2**— States and Maternal Death by Tertile of State Abortion Policy Composite Index: United States, 2015–2018

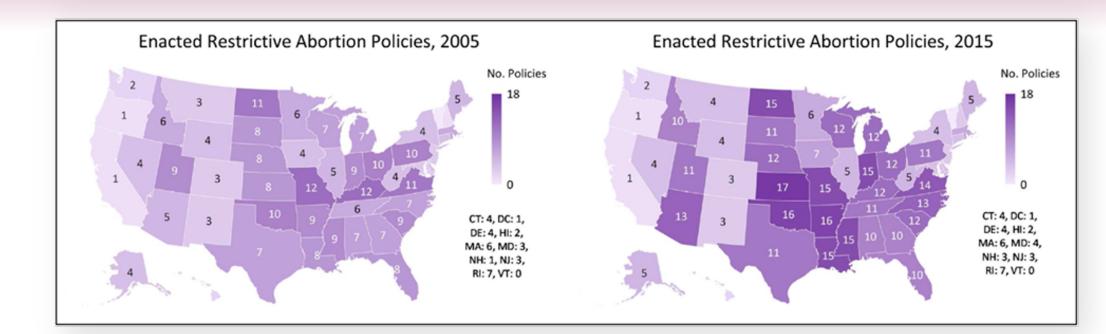
Abortion Policy Index	No. of States	States	TMM (n = 3785), No. (%)	MM (n = 2524), No. (%)	LMM (n = 962), No. (%)
Low	15	CA, CT, DC, HI, IL, MD, ME, MT, NH, NJ, NM, NY, OR, VT, WA	1004 (26.53)	499 (19.77)	206 (21.41)
Moderate	17	AK, AZ, CO, DE, FL, IA, KY, MA, MN, NV, OH, PA, RI, TN, WI, WV, WY	999 (26.39)	714 (28.29)	285 (29.63)
High	19	AL, AR, GA, ID, IN, KS, LA, MI, MO, MS, NC, ND, NE, OK, SC, SD, TX, UT, VA	1782 (47.08)	1311 (51.94)	471 (48.96)

Note. LMM = late maternal mortality; MM = maternal mortality; TMM = total maternal mortality. All counts of MM and LMM exclude data from California.

# **TABLE 4**— Associations Between Race-Specific Total Maternal Mortality (TMM), Maternal Mortality (MM), and Late Maternal Mortality (LMM), and Abortion Policy Composite Index, 2015–2018

	Non-Hispanic White			Non-Hispanic Black			Hispanic		
	тмм	ММ	LMM	тмм	ММ	LMM	тмм	ММ	LMM
Abortion policy composite index, ARR (95% CI)	1.06 (1.02, 1.11)	1.05 (0.95, 1.15)	0.99 (0.92, 1.07)	0.98 (0.89, 1.08)	0.95 (0.80, 1.13)	0.99 (0.85, 1.15)	1.01 (0.94, 1.06)	0.98 (0.86, 1.13)	0.91 (0.79, 1.15)
No. of maternal deaths	1 728	1 165	489	1210	848	312	615	366	115
No. of live births	8 082 036	7564573		2 233 216	2 139 606		3 626 302	2 733 569	

Note. ARR = adjusted rate ratio; CI = confidence interval. All estimates for MM and LMM and counts of deaths and live births in these columns exclude data from California. All models adjusted for state-level poverty, unemployment, % population with bachelor's degree or higher, % non-Hispanic White population, % urban population, % foreign-born population, Medicaid expansion status, Medicaid expenditure per capita, average % of births to women aged 35 years or older.



# Conclusion(s)

- States with restrictive abortion access show they do not help with maternal health.
- These policies affect women of color and women with low educational levels negatively.
- These policies seem to affect women's health that extend beyond personal choices.
- Restrictive maternal health policies, especially aboriton, are more likely to affect women's maternal health more so if they are women of color and have achieved lower educational levels.

Table 3 Predictive Margins of Preterm Birth and Low Birthweight from Linear Probability Models Examining Moderating Effects of

	Preterm Bi	Preterm Birth				Low Birthweight			
	-1 SD	0 SD	+ 1 SD	+ 2 SD	-1 SD	0 SD	+ 1 SD	+ 2 SD	
Race/ethnicity (categorie	cal) x Restrictive	ness Index (RI)	)						
AIAN	11.6	11.2	10.9	10.6	6.3	6.0	5.8	5.6	
AAPI	11.9	11.7	11.4	11.2	9.5	9.2	9.0	8.8	
Black	14.5	14.7	14.8	15.0	11.4	11.4	11.4	11.5	
Hispanic or Latinx	11.7	11.4	11.2	11.0	7.2	6.8	6.4	6.0	
White	11.2	11.1	11.1	11.0	7.5	7.3	7.1	6.9	
Race/ethnicity (dichoton	nous) x Restricti	veness Index (I	RI)						
Black	14.5	14.7	14.9	15.1	11.5	11.5	11.5	11.5	
Non-Black	11.4	11.3	11.1	11.0	7.6	7.3	7.0	6.8	
Education Level x Restri	ctiveness Index	(RI)							
LT HS grad	12.6	12.5	12.5	12.4	8.7	8.7	8.7	8.7	
HS grad	12.3	12.3	12.3	12.3	8.5	8.5	8.4	8.3	
Some college	12.0	11.9	11.9	11.8	8.2	7.9	7.6	7.3	
College grad	10.9	10.7	10.4	10.2	7.4	6.9	6.5	6.1	

Note: Results are predictive margins of preterm birth and low birthweight for all racial/ethnic and education level subgroups at -1 standard deviation (SD), 0 SD, +1 SD, and +2 SD of the lagged restrictiveness index. Predictive margin estimates were produced from multivariate linear probability models estimating moderating effects of race/ethnicity or education level on the relationship between the standardized lagged restrictiveness index and the probability of preterm birth and low birthweight among all 50 states and Washington, D.C. Final sample size included people not missing any data on race/ethnicity, education level, restrictiveness index, outcomes, and covariates. All models adjust for individual-level sociodemographic characteristics, state-level sociodemographic, economic, and political characteristics, and state and year fixed effects. Standard errors clustered at the state level

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