

MINI-REVIEW

Reducing Cardiovascular Maternal Mortality by Extending Medicaid for Postpartum Women

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ABSTRACT: Maternal mortality has been increasing in the United States over the past 3 decades, while decreasing in all other high-income countries during the same period. Cardiovascular conditions account for over one fourth of maternal deaths, with two thirds of deaths occurring in the postpartum period. There are also significant healthcare disparities that have been identified in women experiencing maternal morbidity and mortality, with Black women at 3 to 4 times the risk of death as their White counterparts and women in rural areas at heightened risk for cardiovascular morbidity and maternal morbidity. However, many maternal deaths have been shown to be preventable, and improving access to care may be a key solution to addressing maternal cardiovascular mortality. Medicaid currently finances almost half of all births in the United States and is mandated to provide coverage for women with incomes up to 138% of the federal poverty level, for up to 60 days postpartum. In states that have not expanded coverage, new mothers become uninsured after 60 days. Medicaid expansion has been shown to reduce maternal mortality, particularly benefiting racial and ethnic minorities, likely through reduced insurance churn, improved postpartum access to care, and improved interpregnancy care. However, even among states with Medicaid expansion, significant care gaps exist. An additional proposed intervention to improve access to care in these high-risk populations is extension of Medicaid coverage for 1 year after delivery, which would provide the most benefit to women in Medicaid nonexpanded states, but also improve care to women in Medicaid expanded states.

Key Words: health policy ■ Medicaid ■ postpartum

Maternal mortality in the United States has been increasing compared with most other developed countries. Although there are likely many contributing factors, one major element distinguishing the United States from its counterparts is the lack of universal health insurance, and thus access to basic health care; this is an issue that disproportionately impacts low-income women, minorities, and those living in rural areas. With policy changes at the state or federal level, maternal mortality, specifically attributable to cardiovascular conditions, could perhaps be mitigated. Currently, almost half of all births in the United States are to women covered by Medicaid, the US public insurance program aimed at people living in poverty. In many states, Medicaid coverage is terminated

60 days postpartum, leading to both inadequate postpartum follow-up and gaps in coverage between pregnancies where chronic conditions remain unaddressed. One potential avenue toward improving coverage among women of childbearing age is extension of Medicaid coverage to 1 year postpartum, a solution that is being considered in many states across the country.

MATERNAL MORTALITY IN THE UNITED STATES

Maternal mortality, defined by the Centers for Disease Control and Prevention as deaths during pregnancy and within 1 year of delivery, has been increasing in

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Nonstandard Abbreviations and Acronyms

ACA Affordable Care Act

the United States over the past 3 decades, doubling from 7.2 deaths per 100 000 live births in 1987 to 17.3 deaths per 100 000 live births in 2017.¹ This is in stark contrast to all other high-income countries, where maternal mortality has been decreasing over the same time period.

More important, during this time, although deaths from direct obstetric causes have declined, the United States has had an increase in deaths from indirect obstetric causes, including cardiovascular disease.¹ In fact, cardiovascular conditions are now the leading cause of maternal mortality, accounting for over one fourth of maternal deaths. When including stroke and hypertension, cardiovascular conditions account for over half of maternal deaths.² Although about a third of pregnancy-related deaths occur during pregnancy, most occur in the postpartum period, with 40% occurring during the first 42 days after delivery and 25% occurring between 42 days and 1 year after delivery.³ Among deaths that occur between 42 days and 1 year after delivery, cardiomyopathy is the leading cause of death, followed by mental health conditions.²

Marked healthcare disparities have been identified among women experiencing maternal morbidity and mortality, with Black women at 3 to 4 times the risk of death as their White counterparts.^{4,5} The American College of Obstetricians and Gynecologists recently identified Black race, age >40 years, hypertensive disorders, and obesity as the 4 key factors related to maternal cardiovascular mortality.⁶ Furthermore, as more mothers choose to delay childbearing and the prevalence of obesity, hypertension, and diabetes mellitus continues to climb, maternal mortality can only be expected to continue to increase.⁷

MATERNAL MORTALITY IS PREVENTABLE

Most states now have Maternal Mortality Review Committees that review all maternal deaths to assess for cause and preventability and make recommendations for improvement in patient care. Between 2008 and 2017, 14 states shared their data with the Centers for Disease Control and Prevention; and among 1347 reviewed deaths to women during or within a year of pregnancy, about 1 in 3 deaths were determined to be pregnancy related. Of those, almost one quarter were attributable to cardiovascular conditions or

cardiomyopathy, with about 70% of cardiovascular pregnancy-related deaths noted to be preventable.^{2,3}

The most common factors underlying preventable maternal deaths were patient factors, followed by provider and systems of care factors. For example, major patient factors included chronic conditions, such as obesity, and lack of knowledge, including failure to recognize and obtain treatment for symptoms.² Major provider-related factors included failure to recognize disease or provision of ineffective treatment, and major systems of care factors included barriers to coordination of care.² However, although patient factors were most common, they often reflected factors dependent on providers and systems of care; for example, patients may wait too long to seek care because of concerns about costs or accessibility, or clinicians may be unable to provide follow-up because of lack of insurance coverage. Thus, efforts to improve education of both patients and healthcare teams, and improved access to care, may be key solutions to addressing maternal cardiovascular mortality.

CURRENT ROLE OF MEDICAID

Currently, Medicaid finances almost half of all births in the United States. Federal law mandates Medicaid coverage for pregnant women with incomes up to 138% of the federal poverty level, and is required to provide coverage through 60 days postpartum, although many states have gone above this threshold in the context of Medicaid expansion.⁸ The Affordable Care Act (ACA) began Medicaid expansion as early as 2010, with the proposed law requiring states to provide Medicaid to those with incomes at or below 138% of the federal poverty level, regardless of if they had dependent children or not. A small number of “early expanders” (6 states, including the District of Columbia) did so under waiver authority, with an additional 20 states adopting expansion in 2014, and 13 more opting for expansion in later years.⁹ Although expansion was initially intended to be national, a ruling from the Supreme Court found that states could not be mandated to expand Medicaid, and thus the remaining 12 states have not yet expanded this coverage.¹⁰

In the 37 states (including the District of Columbia) that have expanded and implemented Medicaid under the ACA, many, but not all, women remain covered after the 60 days because they qualify based on income eligibility requirements for parents. However, in the 12 states that have not expanded coverage and in 2 states that have passed expansion but not yet implemented it (Missouri and Oklahoma), new mothers become uninsured after 60 days, and postpartum women need to requalify as parents to continue their coverage (Figure 1 and Table S1).^{9,11–16} However, the income eligibility for parents is dramatically more strict

than the income eligibility for pregnant women in these states, with some states, such as Texas, limiting coverage to those who fall below just 17% of the federal poverty level (Figure 2).^{8,17,18} Thus, many women become uninsured 60 days postpartum.

The postpartum period has recently been recognized as a critically important time to address the physical and mental health of women.^{19,20} It is not only a time to provide postpartum care, but also interpregnancy care; closing these healthcare gaps is essential to improve maternal health and reduce the risk of complications in subsequent pregnancies. As many women who are Medicaid beneficiaries lose their healthcare coverage at 60 days postpartum, they do not even have the opportunity to undergo the routine postpartum cardiometabolic screening recommended by the American College of Obstetricians and Gynecologists to identify and treat cardiovascular risk factors; this is critically important as long-term cardiovascular conditions, including coronary artery disease, heart failure, and stroke, are known to be markedly elevated in women with adverse pregnancy outcomes, such as preeclampsia and gestational diabetes mellitus.⁶ Furthermore, those women with identified cardiovascular risk factors or new-onset cardiovascular conditions, such as cardiomyopathy, coronary dissection, hypertension, or pulmonary embolism, are unable to receive ongoing therapeutic treatment for their cardiovascular disease beyond 60 days if they lose access to healthcare coverage, potentially contributing to late maternal deaths.

THE BURDEN OF HEALTH CARE FOR UNINSURED MOTHERS

It is known that continuous insurance coverage is necessary for women to receive appropriate care before, during, and after pregnancy, and that without it, there are significant gaps in access to physician care, increased emergency department use, and overall worse health status.²¹ Before the enactment of the ACA, a significant proportion of pregnant women experienced “insurance churn,” with almost 60% moving between insurance plans during their pregnancy and about half becoming uninsured in the 6-month period after giving birth. The ACA expanded coverage for reproductive age women, but nearly half of women in Medicaid nonexpansion states and about one third of women in Medicaid expansion states continued to experience an insurance disruption from preconception to postpartum.^{21,22}

In a study by the Urban Institute, about 1 in 5 uninsured new mothers reported cost of care being the reason for at least one unmet need for medical care. More than half were worried about paying their medical bills

and reported that losing Medicaid or other insurance coverage after pregnancy was the reason they were uninsured. Among those women who lost Medicaid coverage after delivery, one third were obese before their pregnancy and 18% reported gestational diabetes mellitus or pregnancy-related hypertension, both of which would require ongoing care after giving birth.²³

MEDICAID EXPANSION HAS DECREASED MATERNAL AND CARDIOVASCULAR MORTALITY

In this context, there is great potential for Medicaid coverage to improve outcomes. A recent study examined the effects of Medicaid expansion on maternal mortality, using separate definitions of maternal mortality, including the following: (1) maternal deaths up to 42 days after delivery and late maternal deaths >42 days after delivery and (2) maternal deaths up to 42 days after delivery, excluding late maternal deaths. The study showed that Medicaid expansion had a statistically significant favorable effect on total maternal deaths, resulting in 7.01 fewer deaths per 100 000 live births in expansion states relative to nonexpansion states ($P=0.002$). Even when excluding late maternal deaths using their second definition of maternal mortality, there were 6.65 fewer deaths per 100 000 live births in expansion states versus nonexpansion states ($P=0.004$). There was also evidence that racial and ethnic minority women may have particularly benefited from expansion; non-Hispanic Black mothers had 16.27 fewer maternal deaths per 100 000 in expansion versus nonexpansion states ($P=0.022$).²⁴ These findings suggest that increased access to health insurance coverage may contribute to improved maternal outcomes through improved interpregnancy care, optimizing maternal health before subsequent pregnancies, providing more timely prenatal care, and giving extended postpartum care, reducing late deaths.²⁴ Several studies have also shown Medicaid expansion specifically reduces mortality from cardiovascular conditions, with 4.3 fewer deaths per 100 000 in expansion states versus nonexpansion states, and improves access to and frequency of preventive care visits.^{25,26}

POTENTIAL POLICY CHANGES

Despite Medicaid coverage options for low-income pregnant women, gaps in coverage in the critical postpartum period remain. There is opportunity for Medicaid to improve medical and behavioral health conditions for new mothers who would otherwise lose insurance coverage after 60 days postpartum. Two forms of Medicaid expansion could reduce insurance churn and improve the health of postpartum

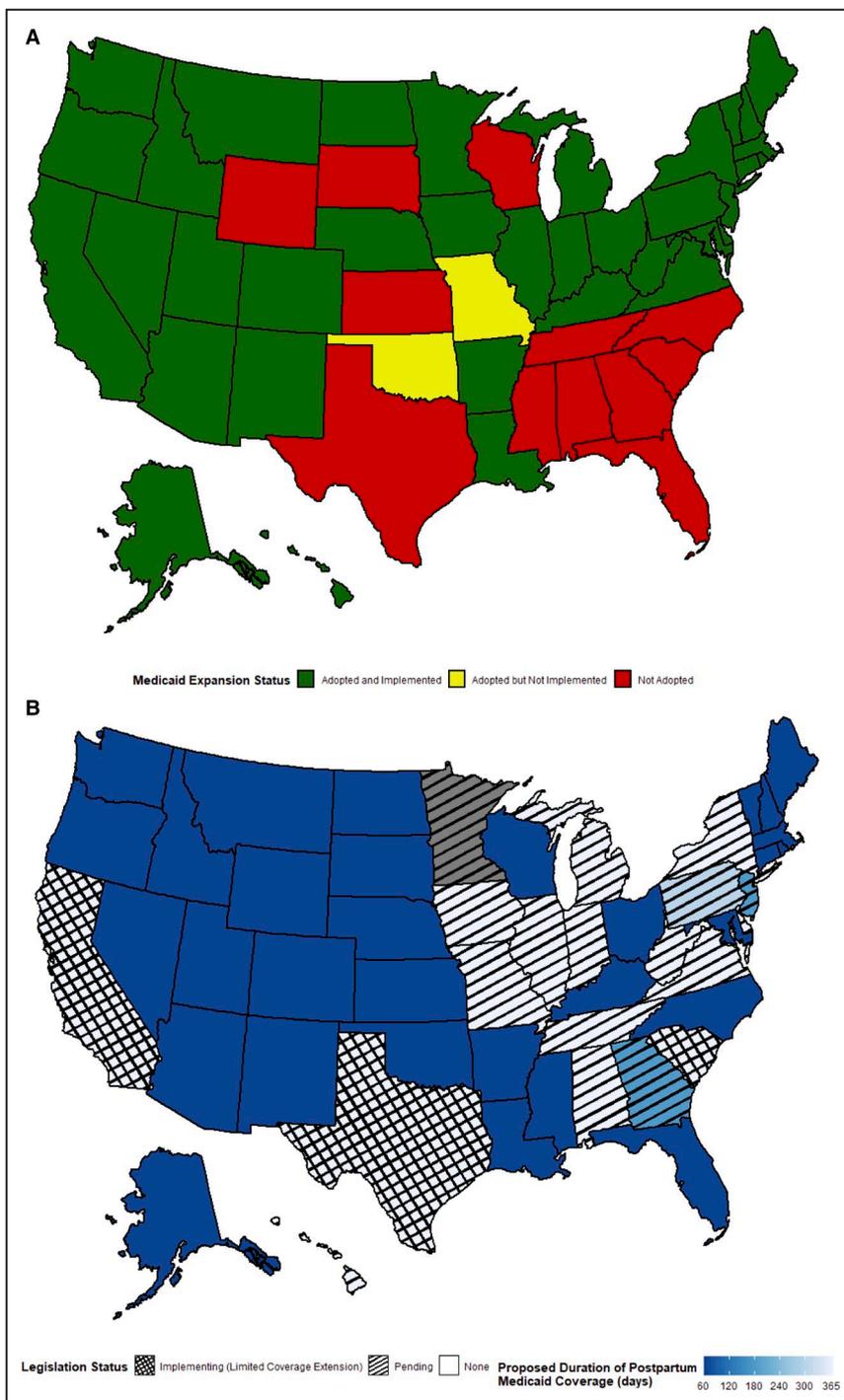


Figure 1. Current Medicaid expansion status and legislation extending Medicaid coverage for postpartum women.

A, Current status of Medicaid expansion in each state. **B**, Current status of legislation extending Medicaid coverage for postpartum women beyond 60 days postpartum. Minnesota has pending legislation that would require the commissioner of human services to examine extending postpartum Medicaid coverage for an unspecified length of time. Postpartum Medicaid coverage extension is limited to individuals who have been diagnosed with a maternal mental health condition in California and individuals with substance use disorders in South Carolina. Indiana is pending legislation to extend coverage to only those with opioid use disorder.^{9,11–16}

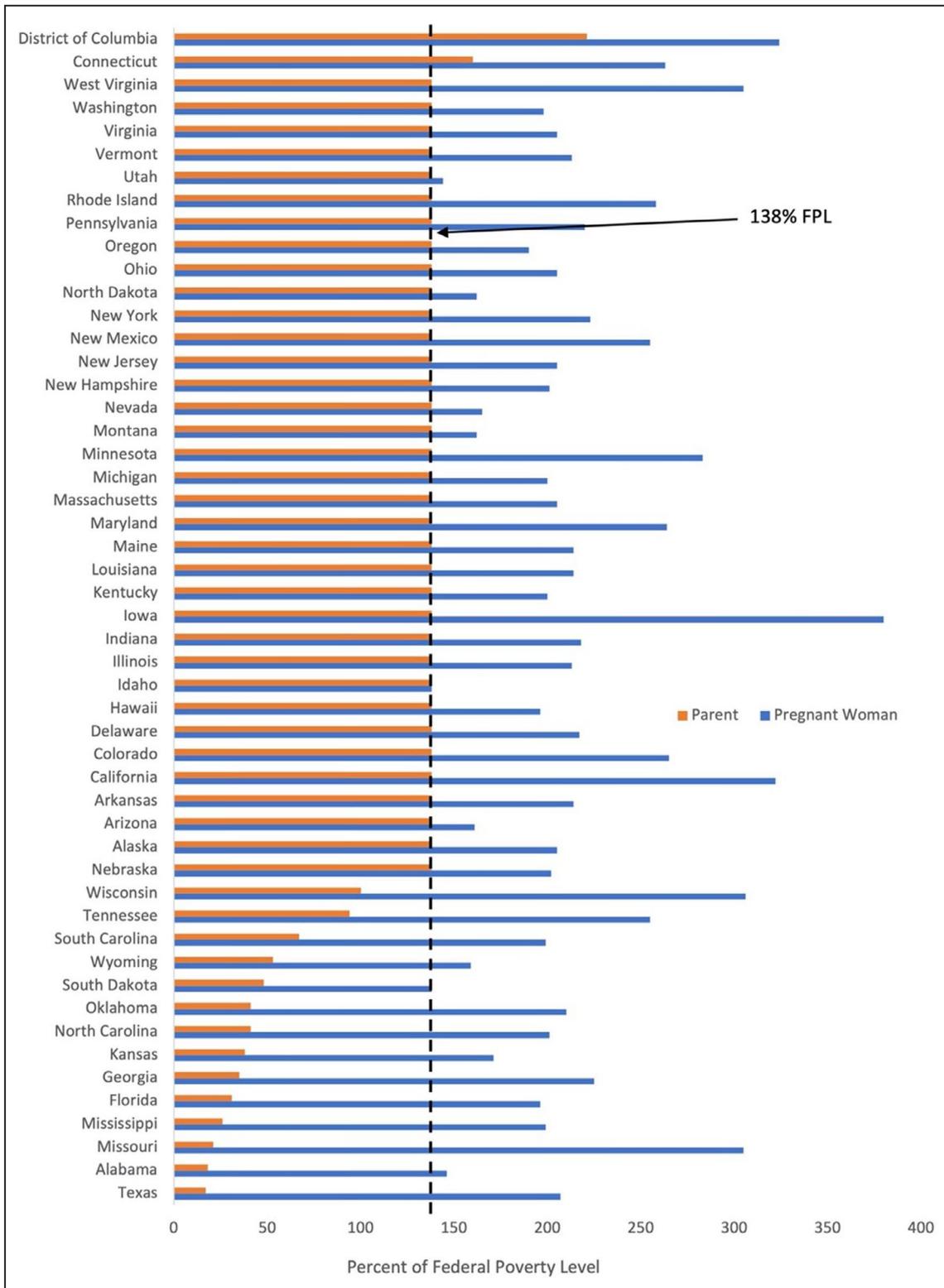


Figure 2. Pregnant woman vs parent Medicaid eligibility in 50 states and the District of Columbia. For states with Medicaid expansion, women are eligible for Medicaid if their income falls below 138% of the federal poverty level (FPL). For states without Medicaid expansion, such as Alabama, Missouri (recently passed), Tennessee, and Texas, eligibility is significantly more restrictive, falling as low as 17% to 21% of the FPL. During pregnancy, Medicaid eligibility is expanded such that even those states with Medicaid expansion have much broader income eligibility criteria, as high as 380% the FPL. Although nonexpansion states will see the greatest number of women benefit, even women in expansion states will see benefit from extension of postpartum Medicaid.

women: (1) expansions as included in the ACA for low-income parents to reduce the gap in income eligibility for pregnant and nonpregnant women and (2) extension of pregnancy-related Medicaid beyond 60 days postpartum.

Currently, 5 states have already passed legislation extending Medicaid for postpartum women up to 6 to 12 months, whereas 14 states still have pending legislation (Figure 2). Of those 14 states, those without Medicaid expansion would see the greatest number of women benefit from extension of postpartum Medicaid (ie, Alabama, Missouri, Tennessee, and Texas).

In March 2021, the American Rescue Plan Act of 2021 was passed by Congress and included a provision allowing states the *option* to extend Medicaid for up to 1 year postpartum. This provision would allow states that opt in to receive their regular federal matching rate for the additional 10 months of coverage they provided.²⁷ In states that have not yet expanded Medicaid, this would provide coverage to several mothers who would otherwise lose coverage after 60 days postpartum. However, even in the states where Medicaid has already been expanded, new mothers who fall in the gap between the typical coverage level for custodial parents and the generally more-generous coverage level for pregnant women would still benefit from extension. Although this bill does include a sunset clause that would limit this law to 5 years, Congress could elect to make it permanent in the future.

The anticipated fiscal impact of Medicaid extension to 1 year postpartum is expected to be modest because of the limited number of impacted patients and relatively short duration of coverage, although actual state outlays would depend on the degree to which states had already expanded Medicaid as well as their federal match rate. However, financial outlays could be offset to some degree by potential benefits of increased employment, delayed enrollment in other insurance plans, increased use of outpatient services rather than emergency department visits and hospitalizations, and increased uptake of preventative care, including contraception and cardiovascular screening, ultimately reducing long-term disease burden and unintended pregnancies, and improving interpregnancy care.²⁸

CONCLUSIONS

Maternal mortality has been steadily increasing in the United States, predominantly because of cardiovascular disease. In addition to the numerous cardiovascular contributors to this increase, racial disparities and income equality are other major drivers of adverse outcomes in the postpartum period. These factors have been shown to be modifiable, and with policy change, maternal cardiovascular mortality could potentially

be reduced. Improving access to care could reduce disparities, improve maternal outcomes, and improve long-term cardiovascular health for women across the United States.

ARTICLE INFORMATION

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Supplementary Material

Table S1

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SUPPLEMENTAL MATERIAL

Table S1. Current Medicaid Eligibility for Pregnant Women and Parents and Pending Legislation Extending Postpartum Coverage.

	Medicaid and CHIP Income Eligibility Limits for Pregnant Women (% FPL)	Medicaid Income Eligibility Limits for Parents (% FPL)	Medicaid Expansion Status	Legislation Extending Postpartum Coverage	Legislation Summary
Alabama	146%	18%	Not Adopted	Pending	Pending legislation to extend postpartum Medicaid coverage to one year.
Alaska	205%	138%	Adopted	No	
Arizona	161%	138%	Adopted	No	
Arkansas	214%	138%	Adopted	No	
California	322%	138%	Adopted	Implementing (Limited Coverage Extension)	Passed legislation to extend postpartum Medi-Cal eligibility to one year for women diagnosed with a maternal mental health condition. The increased funding for postpartum care will be suspended after Dec. 31, 2021 unless it is funded by general fund revenue.
Colorado	265%	138%	Adopted	No	
Connecticut	263%	160%	Adopted	No	
Delaware	217%	138%	Adopted	Pending	Passed a resolution to study the extension of postpartum Medicaid coverage to one year.
District of Columbia	324%	221%	Adopted	Pending	Pending legislation to extend postpartum Medicaid coverage to one year.
Florida	196%	31%	Not Adopted	No	
Georgia	225%	35%	Not Adopted	Pending	Passed legislation to extend postpartum Medicaid coverage to six months, but requires funding from a Medicaid state plan amendment or waiver request to the US Department of Health and Human Services.
Hawaii	196%	138%	Adopted	Pending	Pending legislation to extend postpartum Medicaid coverage to one year.
Idaho	138%	138%	Adopted	No	
Illinois	213%	138%	Adopted	Pending	Pending CMS waiver to extend postpartum Medicaid coverage to one year for women earning up to 200% of the FPL.

Indiana	218%	138%	Adopted	Pending	Pending CMS waiver to extend postpartum coverage to 365 days for mothers with opioid use disorder.
Iowa	380%	138%	Adopted	Pending	Pending legislation to extend postpartum Medicaid coverage to one year.
Kansas	171%	38%	Not Adopted	No	
Kentucky	200%	138%	Adopted	No	
Louisiana	214%	138%	Adopted	No	
Maine	214%	138%	Adopted	No	Pending legislation to extend postpartum MaineCare coverage to six months.
Maryland	264%	138%	Adopted	No	
Massachusetts	205%	138%	Adopted	No	
Michigan	200%	138%	Adopted	Pending	Pending FY 2021 budget appropriations to extend postpartum Medicaid coverage to one year.
Minnesota	283%	138%	Adopted	Pending	
Mississippi	199%	26%	Not Adopted	No	Failed to pass legislation to extend postpartum Medicaid coverage to one year.
Missouri	305%	21%	Adopted but not yet implemented	Pending	Pending CMS waiver to extend MO HealthNet eligibility up to 12 additional months for pregnant women receiving substance abuse treatment within 60 days of giving birth. Pending legislation to extend postpartum coverage to one year for mothers in the Show Me Healthy Babies Program. Passed legislation to extend MO HealthNet benefits for mental health services up to 12 additional months for women diagnosed with a maternal mental health condition.
Montana	162%	138%	Adopted	No	
Nebraska	202%	138%	Adopted	No	
Nevada	165%	138%	Adopted	No	
New Hampshire	201%	138%	Adopted	No	
New Jersey	205%	138%	Adopted	Pending	Pending CMS waiver to extend postpartum NJ FamilyCare coverage to 180 days.
New Mexico	255%	138%	Adopted	No	
New York	223%	138%	Adopted	Pending	Pending legislation to extend postpartum Medicaid coverage to one year.
North Carolina	201%	41%	Not Adopted	No	
North Dakota	162%	138%	Adopted	No	
Ohio	205%	138%	Adopted	No	

Oklahoma	210%	41%	Adopted, but not yet implemented	No	
Oregon	190%	138%	Adopted	No	
Pennsylvania	220%	138%	Adopted	Pending	Pending legislation to apply for CMS waiver to extend postpartum Medicaid coverage up to an additional 10 months following the birth of the child.
Rhode Island	258%	138%	Adopted	No	
South Carolina	199%	67%	Not Adopted	Implementing (Limited Coverage Extension)	Passed limited CMS waiver opening up 1000 spots to prioritize Medicaid coverage for pregnant women and parents of foster children receiving substance abuse treatment.
South Dakota	138%	48%	Not Adopted	No	
Tennessee	255%	94%	Not Adopted	Pending	Failed to pass legislation to extend postpartum TennCare coverage to one year for those with incomes up to 195% of the FPL.
Texas	207%	17%	Not Adopted	Implementing (Limited Coverage Extension)	Passed legislation allowing for extended postpartum coverage to one year for eligible women part of Health Texas Women, using state-only funding. Pending legislation to extend postpartum Medicaid coverage to one year for all mothers.
Utah	144%	138%	Adopted	No	
Vermont	213%	138%	Adopted	No	
Virginia	205%	138%	Adopted	Pending	Passed budget bill to extend postpartum Medicaid coverage to one year for women earning up to 205% of the FPL, but there is currently a freeze on new spending in the state budget.
Washington	198%	138%	Adopted	No	Failed to pass legislation to extend postpartum Medicaid coverage to one year for women earning up to 193% of the FPL.
West Virginia	305%	138%	Adopted	Pending	Pending legislation to extend postpartum Medicaid coverage to one year.
Wisconsin	306%	100%	Not Adopted	No	Failed to pass legislation to extend postpartum BadgerCare Plus coverage to one year for women who begin receiving substance abuse-related health services under BadgerCare Plus while pregnant.
Wyoming	159%	53%	Not Adopted	No	