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Expanding the Definition of Maternal and Child Health

How Economic and Early Childhood Policies Improve Maternal and

Child Health Outcomes

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Who We Are

We are a nonpartisan research center at Vanderbilt University.

What We Do

We aim to accelerate states' equitable implementation of evidence-based policies that help all children thrive from the start.







Our Earliest Experiences Shape Our Lives

- All children deserve to be born healthy and raised in nurturing environments, with limited exposure to adversity.
- Nurturing relationships in the earliest years lead to healthier brains and bodies, which influence health and wellbeing over the life course.
- Chronic adversity harms children's neurological, biological, and social development, and can have lifelong consequences.
- Millions of children lack the opportunities to the healthy start they deserve
- Children of color are most likely to face adversity and least likely to have the opportunities all children deserve.





Importance of Optimal Brain Development and Health







Safe, stable, stimulating, nurturing interactions between an infant and a parent or caregiver promote optimal brain and body development

Our health and wellbeing prenatally and in the first 3 years of life affect all future learning, behavior, and health

The absence of a comprehensive system of support can compromise a child's ability to learn and grow throughout life





State Policy Choices Shape Opportunities

State policy choices can empower parents and support children's healthy development.

We must care for the caregivers so that they can care for the children.

Systems of support require a combination of broad based economic and family supports and targeted interventions.

Variation in state policy choices leads to a patchwork of supports for families, depending on where they live.





Prenatal-to-3 Policy Goals





Parents' Ability to Work and Provide Care

Nurturing and Responsive Child-Parent Relationships

Sufficient Household Resources

Nurturing and Responsive Child Care in Safe Settings

Healthy and Equitable Births

Optimal Child Health and Development







Prenatal-to-3 State Policy Roadmap

POLICIES

STRATEGIES

Expanded Income Eligibility for Health Insurance

Reduced Administrative Burden for SNAP

Community-Based Doulas

Paid Family and Medical Leave for Families With a New Child

Comprehensive Screening and Connection Programs

Evidence-Based Home Visiting Programs

State Minimum Wage of \$10.00 or Greater

Child Care Subsidies

Early Head Start

Refundable State Earned Income Tax Credit of at Least 10%

Group Prenatal Care

Early Intervention Services









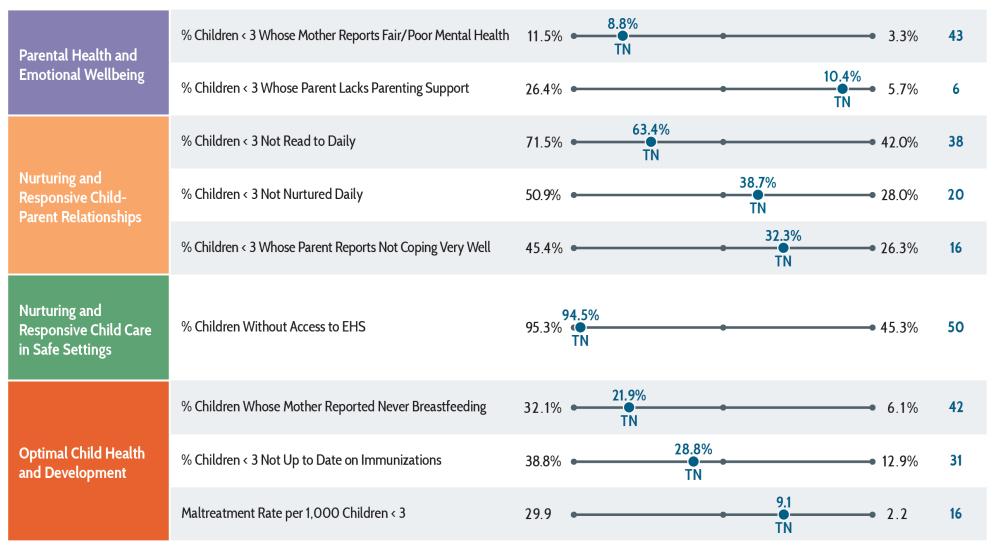
prenatal-to-3 policy IMPACT CENTER

State
Prenatal-to-3
Outcome
Measures

Policy Goal	Outcome Measure	Worst State	Best State	Rank
Access to Needed Services	% Low-Income Women Uninsured	41.4% • 21.6% TN	3.0%	38
	% Births to Women Not Receiving Adequate Prenatal Care	23.8% 17.4% TN	6.4%	40
	% Children < 3 Not Receiving Developmental Screening	72.0% • 52.9% TN	40.0%	17
Parents' Ability to Work	% Children < 3 Without Any Full-Time Working Parent	36.7% • 27.0% TN	11.9%	40
Sufficient Household Resources	% Children < 3 in Poverty	29.1% — 19.1% TN	6.8%	37
	% Children < 3 Living in Crowded Households	33.2% • 17.1% TN	6.4%	36
	% Households Reporting Child Food Insecurity	15.0% • 4.3% TN	1.1%	13
Healthy and Equitable Births	% Babies Born Preterm (< 37 Weeks)	14.8% • 11.0% TN	8.2%	39
	# of Infant Deaths per 1,000 Births	9.1 6.6 TN	3.3	36



State
Prenatal-to-3
Outcome
Measures



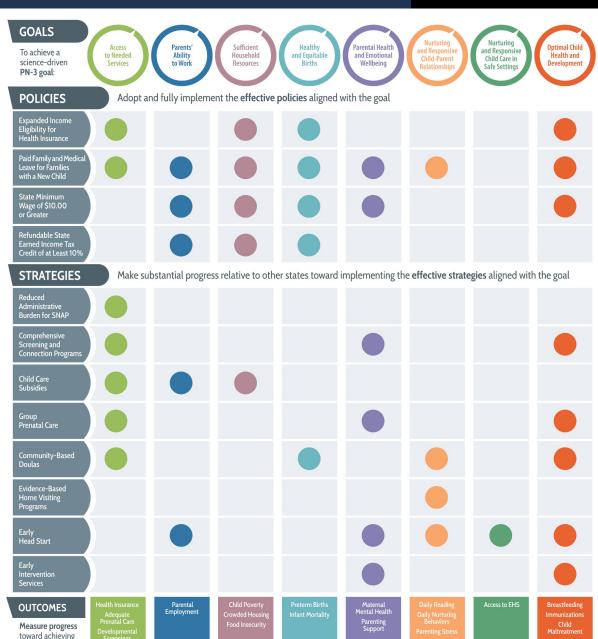
Data marked with a * should be interpreted with caution. For additional information regarding calculation details, data quality, and source data please refer to Methods and Sources.



Prenatal-to-3 State Policy Roadmap

pn3policy.org/roadmap

The alignment of policy goals, evidence-based policies and strategies, and outcomes that illustrate the wellbeing of children and families



the PN-3 goal.



GOALS

To achieve a science-driven PN-3 goal:









Parental Health and Emotional Wellbeing

Nurturing and Responsive Child-Parent Relationships

Nurturing and Responsive Child Care in Safe Settings

Optimal Child Health and Development

POLICIES

Adopt and fully implement the effective policies aligned with the goal

Expanded Income Eligibility for Health Insurance

















Paid Family and Medical Leave for Families with a New Child















State Minimum Wage of \$10.00 or Greater











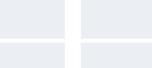
Refundable State Earned Income Tax Credit of at Least 10%













OUTCOMES

Measure progress toward achieving the PN-3 goal.

Health Insurance Prenatal Care Developmental

Parental Employment

Child Poverty Crowded Housing Food Insecurity

Infant Mortality

Maternal Mental Health Parenting Support

Access to EHS

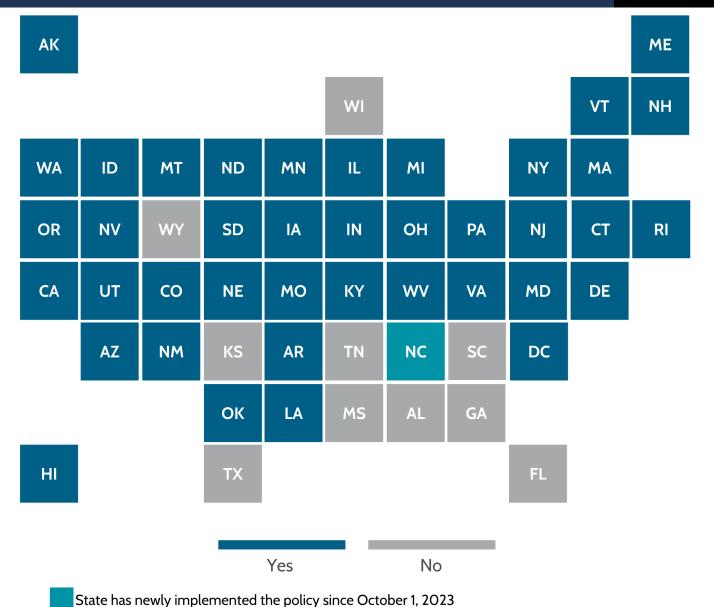
Breastfeeding **Immunizations** Child Maltreatment





Medicaid Expansion

states have implemented the Medicaid expansion under the Affordable Care Act.



State has enacted legislation and will implement the policy after October 1, 2024





Medicaid Expansion

How Does Medicaid Expansion Impact PN-3 Outcomes?



- An 8.6 percentage point increase in preconception Medicaid coverage (B)
- An increase of 0.9 months of Medicaid coverage postpartum (I)
- An increase in receiving adequate prenatal care by 3.6 percentage points for Hispanic women and 2.6 percentage points for non-Hispanic women (EE)



- A 4.7 percentage point decrease in the likelihood of experiencing a catastrophic financial burden (KK)
- A decrease in financial difficulty and health care avoidance because of cost (C, G, H, K, & II)
- A reduction in the poverty rate (Supplemental Poverty Measure) of up to 1.4 percentage points, corresponding to lifting more than 690,000 people out of poverty (CC)



- 0.53 fewer infant deaths per 1,000 live births among Hispanic infants (V)
- 16.3 fewer Black maternal deaths per 100,000 live births (7.0 per 100,000 live births in the overall population) (J)

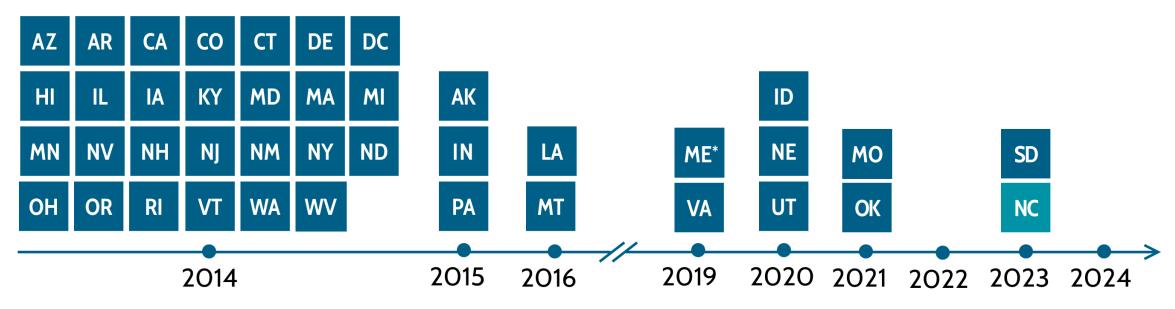


- 422 fewer cases of neglect per 100,000 children under age 6 (U)
- 17.3% reduction in first-time neglect reports for children under age 5 (NN)





Implementation of Medicaid Expansion



State has fully implemented Medicaid expansion by October 1 of a given year.

State fully implemented Medicaid expansion since October 1, 2023.

^{*}Coverage in Maine was effective in January 2019, but retroactive to July 2018.

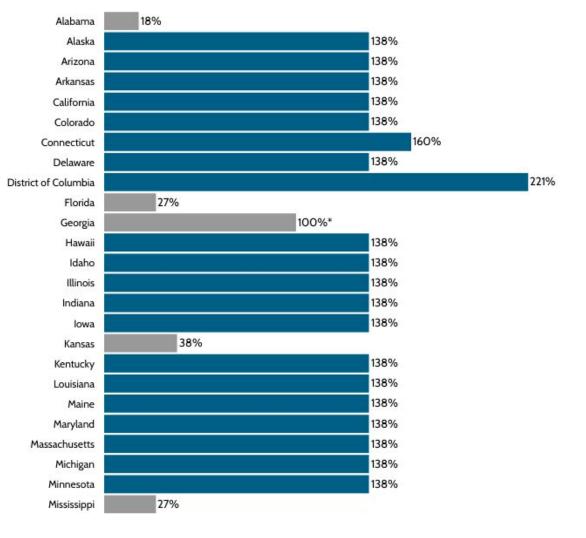


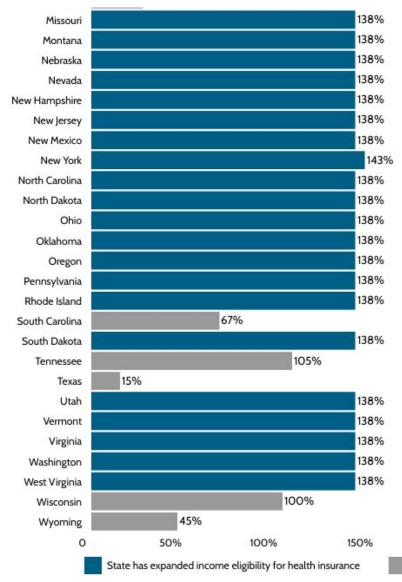


Medicaid Expansion

Parents'
Medicaid
Income
Eligibility
Limits as a
Percentage of
the Federal
Poverty Level

Source: Expansion status: As of October 1, 2024. Medicaid state plan amendments (SPAs) and Section 1115 waivers; Income eligibility limits: As of October 1, 2024, KFF, Georgetown University Center for Children and Families, Medicaid SPAs (South Dakota).





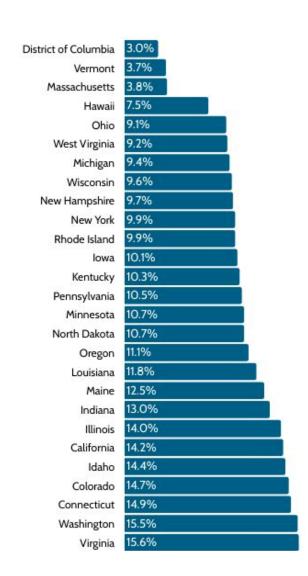


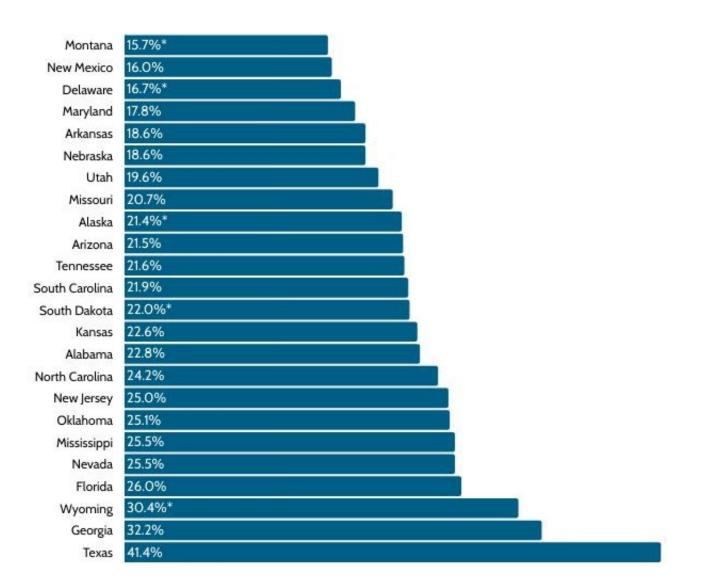


Medicaid Expansion

% Low-Income Women of Childbearing Age Without Health Insurance

Low income <= 138% Federal Poverty Level

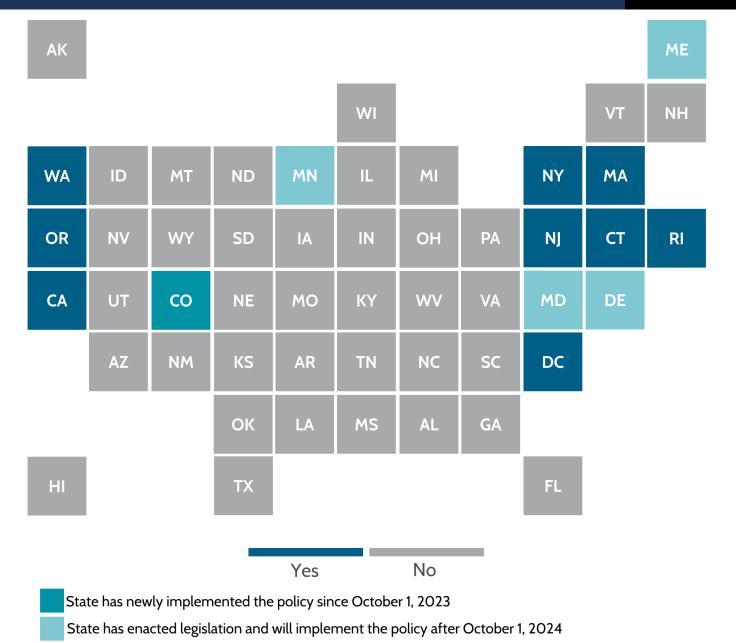








10 states have implemented a paid family leave program of a minimum of 6 weeks.





How Does
Paid Family
Leave Impact
PN-3
Outcomes?



- An increase in family leave-taking in the first year after birth of 5 weeks for mothers and up to 3 days for fathers (B)
- An increase in family leave-taking of 14.4 percentage points among Black mothers and 6.4 percentage points among Hispanic mothers (no significant increase was found among White mothers) (N)
- An increase in the receipt of postpartum care of 1.5 percentage points for White women and 3.4 percentage points for women of other racial and ethnic groups (Z)



- Up to an 8 percentage point increase in maternal labor force participation in the months surrounding birth (D)
- An increase in time worked by mothers of 7.1 weeks in the second year of a child's life (B)
- A 13% increase in the likelihood of mothers returning to their prebirth employer in the year following birth (B)
- An 18.3 percentage point increase in the probability of mothers working 1 year following birth (B)



- A 2 percentage point reduction in the official poverty measure rate, with even greater effects among single mothers with low levels of education and income (M)
- A 2 percentage point decrease in food insecurity, with even greater effects among households with multiple children (Y)



• A 12% reduction in postneonatal infant mortality (S)





How Does
Paid Family
Leave Impact
PN-3
Outcomes?



- A 5.3 percentage point increase in the number of parents who reported coping well with the dayto-day demands of parenting (C)
- A 12 percentage point decrease in parental consumption of any alcohol (P)



• An increase in mothers' time spent with children, including reading to their children 2.1 more times per week, having breakfast with children 0.7 more times per week, and going on outings with children 1.8 more times per month (A)



- A 1.3 percentage point increase in exclusive breastfeeding at age 6 months (G)
- A 7.5 percentage point increase in the likelihood of breastfeeding initiation among Black mothers (K)
- Up to a 7 percentage point decrease in the likelihood of infants receiving late vaccinations among families with low incomes (E)
- A decrease in hospital admissions for pediatric abusive head trauma of 2.8 admissions per 100,000 children under age 2 and 5.1 admissions per 100,000 children under age 1 (I)



Implementation of Paid Family and Medical Leave



- State has fully implemented a statewide paid family and medical leave policy by October 1 of a given year.
- State is expected to fully implement a statewide paid family leave policy by October 1 of a given year.

CA, NJ, RI, and NY amended pre-existing temporary disability insurance (TDI) laws to include paid family leave. The dates displayed above indicate the year paid family leave became available.





Projected Paid Family Leave (PFL) Benefits

Based on National Median Earnings for Full-Time Workers

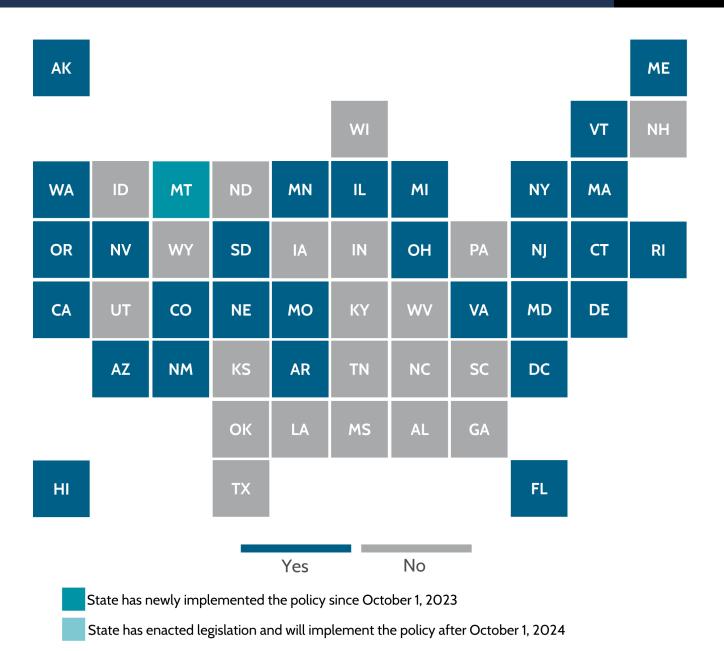
Notes: Estimates calculated using state parameters as of January 1, 2024. An "*" indicates estimated benefits based on policy guidelines; paid family leave programs in these states are not yet fully implemented and workers cannot not yet receive these benefits. Benefit estimates are pre-tax estimates based on median earnings for full-time female workers in the state, estimated at 2022 levels. Weekly totals may not precisely add to total benefits because of rounding.







30 states have implemented a minimum wage of \$10.00 or greater.





How Does State Minimum Wage Impact PN-3 Outcomes?



• A 10% increase in the minimum wage increased the likelihood that children (ages 0 through 5) of mothers with no college degree had a working parent by 7.4% (J)



- For mothers with no college degree with children under age 6, a 10% increase in the minimum wage reduced poverty by 9.7% (J)
- A 10% increase in the minimum wage led to a 3.5% increase in earnings for families with low incomes and produced a 4.9% reduction in poverty for children under age 18 (B)



• For unmarried women with no college degree, setting the tipped minimum wage at the full federal minimum wage level reduced prenatal poverty-related stress scores by 15.9% (N)



How Does State Minimum Wage Impact PN-3 Outcomes?



- A \$1.00 minimum wage increase above the federal level led to a 2% decrease in low birthweight and a 4% decrease in postneonatal mortality (E)
- For pregnant women, setting the tipped minimum wage at the full federal minimum wage level led to overall healthier birthweights (O)

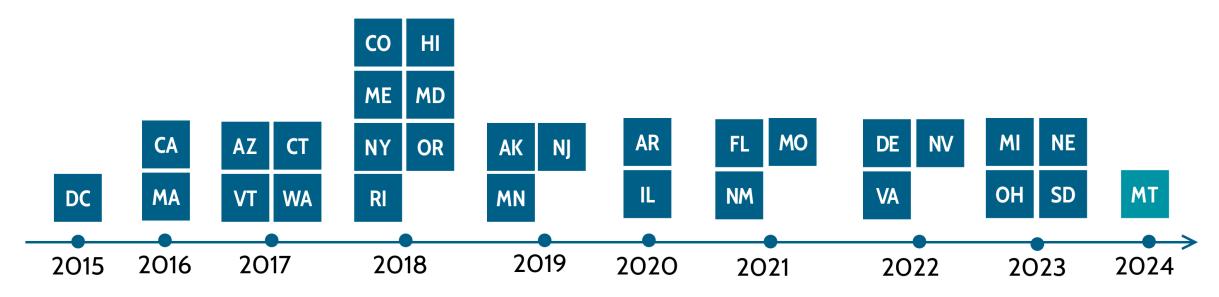


- A \$1.00 increase in the minimum wage reduced child neglect reports by 9.6% overall and 10.8% for children ages 0 to 5 (G)
- Children affected by a \$1.00 increase in the minimum wage from birth through age 5 saw an 8.7% higher likelihood of excellent or very good health and missed 15.6% fewer school days due to illness or injury from ages 6 through 12 (I)





Implementation of State Minimum Wage of \$10 or Greater

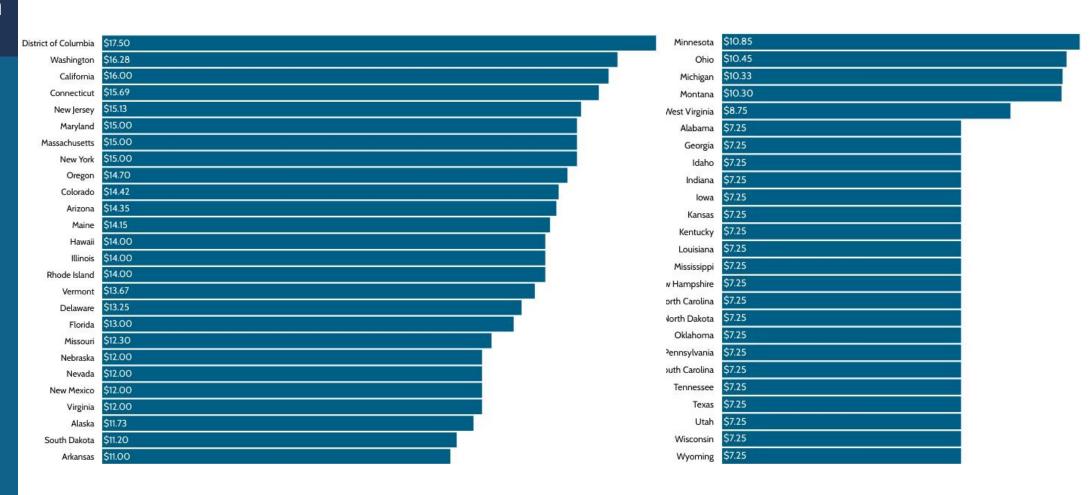


- State fully implemented a state minimum wage of \$10.00 per hour or greater by October 1 of a given year.
- State has fully implemented a state minimum wage of \$10.00 per hour or greater since October 1, 2023.





Current State Hourly Minimum Wages (Nominal)

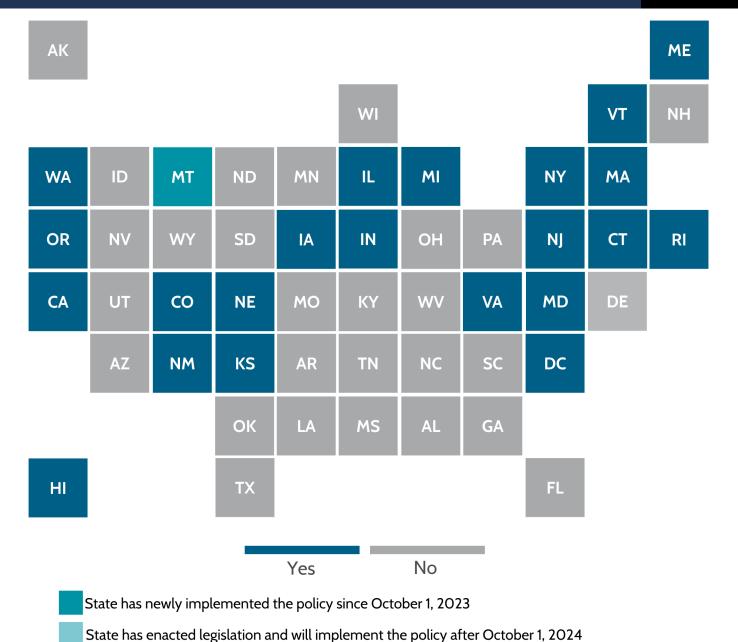






State Earned Income Tax Credit

23 states have implemented a refundable EITC of at least 10% of the federal EITC.





State Earned Income Tax Credit

How Does State Earned Income Tax Credit Impact PN-3 Outcomes?



- With each additional \$1,000 in average EITC benefits (federal plus state), unmarried mothers with children under age 3 were 9 percentage points more likely to work (C)
- A state EITC set at 10% of the federal credit increased employment among single mothers by 2.1 percentage points compared to single women with no children (GG)
- Living in a state with an EITC increased the likelihood of mothers' employment (for at least one week per year) by 19% (B)



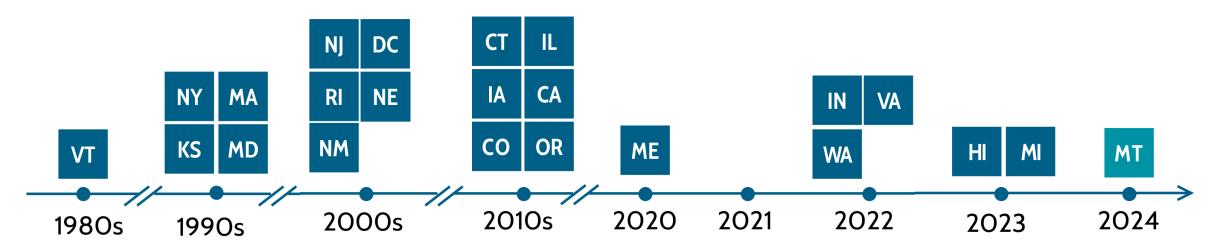
- State EITCs increased mothers' annual wages by 32% (B)
- A \$1,000 increase in average federal and state EITC benefits led to an increase of \$2,400 in the pre-tax earnings of households with infants and toddlers, and poverty was reduced by 5 percentage points (C)
- A rigorous simulation found that if all states adopted the policy of the most generous EITC state, then child poverty would be reduced by 1.2 percentage points (KK)



- The state EITC led to increases in birthweight of between 16 and 104 grams, depending on the credit's generosity level (B, CC)
- In states with refundable EITCs of at least 10% of the federal credit, Black mothers with a high school education or less saw greater reductions in low birthweight rates for their infants (1.4 percentage points) compared to White mothers with a high school education or less (0.7 percentage points) (II)



Implementation of a Refundable State EITC of at Least 10% of the Federal Credit



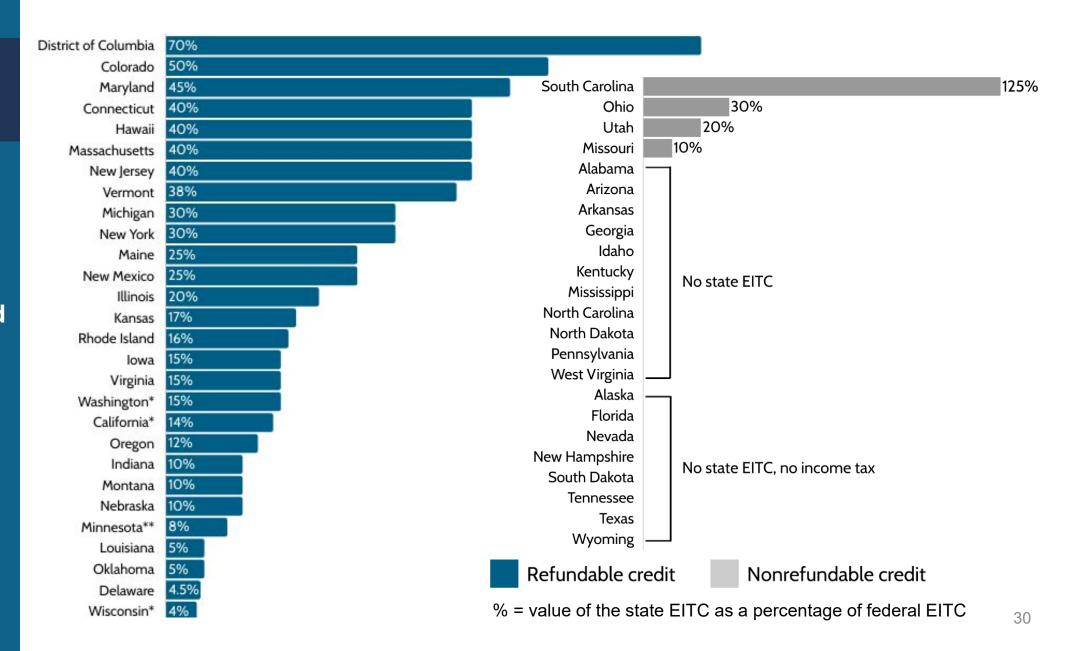
- State fully implemented a refundable state EITC worth at least 10% of the federal EITC by October 1 of a given tax year (TY).
- State has fully implemented a refundable state EITC worth at least 10% of the federal EITC since October 1, 2023.





State Earned Income Tax Credit

Variation
Across States
in EITC
Generosity and
Refundability







To achieve a science-driven **PN-3 goal**:







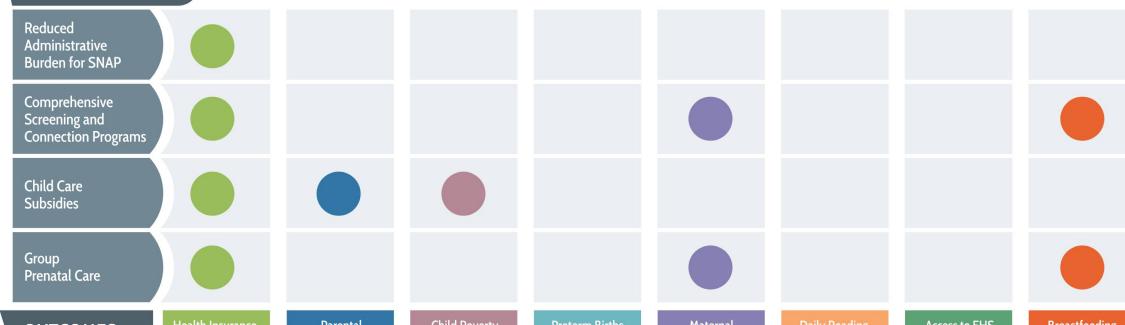




Nurturing and Responsive Child-Parent Relationships Nurturing and Responsive Child Care in Safe Settings Optimal Child Health and Development

STRATEGIES

Make substantial progress relative to other states toward implementing the **effective strategies** aligned with the goal



OUTCOMES

Measure progress toward achieving the PN-3 goal.

Health Insurance
Adequate
Prenatal Care
Developmental
Screenings

Parental Employment Child Poverty Crowded Housing Food Insecurity Preterm Births Infant Mortality Maternal Mental Health Parenting Support Daily Reading
Daily Nurturin
Behaviors

Access to EHS

Breastfeeding Immunizations Child Maltreatment





To achieve a science-driven PN-3 goal:











Nurturing and Responsive Child-Parent Relationships

Nurturing and Responsive Child Care in Safe Settings

Optimal Child Health and **Development**

STRATEGIES

Make substantial progress relative to other states toward implementing the effective strategies aligned with the goal

Community-Based Doulas



Evidence-Based **Home Visiting Programs**







Measure progress toward achieving the PN-3 goal.

Health Insurance Adequate Prenatal Care

Parental Employment

Child Poverty Crowded Housing Food Insecurity

Preterm Births Infant Mortality

Maternal Mental Health **Parenting** Support

Access to EHS Breastfeeding **Immunizations**







Child

Maltreatment





Comprehensive Screening

How Do Comprehensive Screening and Connection Programs Impact PN-3 Outcomes?



- DULCE families received an average of 0.5 more community resources at the 6 and 12 month follow up (J)
- Family Connects families accessed 0.9 more community resources (B)
- HealthySteps families had 3.5 times higher odds of being informed about community resources (F)
- DULCE families had an 11 percentage point increase in the likelihood of attending at least 5 routine health care visits by 12 months (J) and HealthySteps families had 1.7 times greater odds of attending the 12 month well-child visit (F)



- Family Connects reduced disparities between Black and White mothers in maternal anxiety by 48.3% and maternal depression by 43.5% (L)
- Family Connects mothers were 8.3 percentage points less likely to report possible clinical anxiety (B)



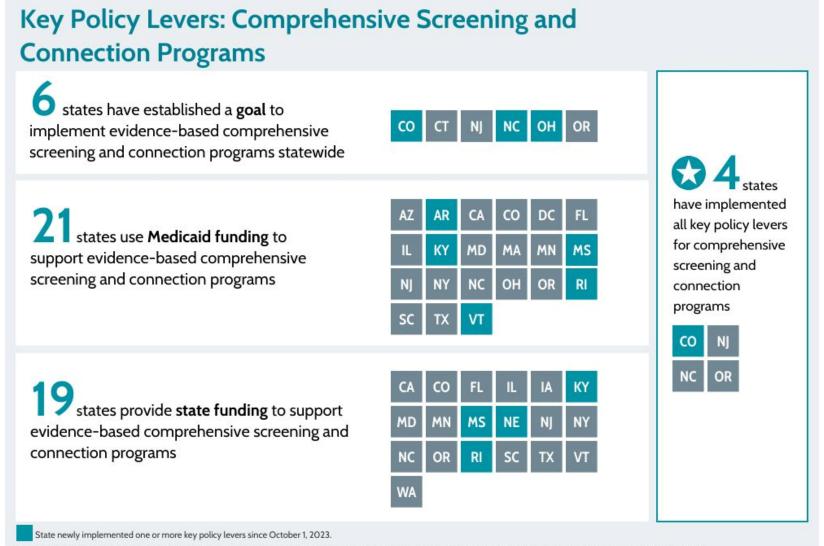
- By child age 12 months, Family Connects families reduced emergency department visits by 50% (B)
- DULCE families were 15 percentage points more likely to have received immunizations on time at child age 6 months (J)
- HealthySteps families were 3 percentage points less likely to put their infants in the wrong sleep position (E)





STRATEGY

COMPREHENSIVE SCREENING AND CONNECTION PROGRAMS





Group Prenatal Care

How Does Group Prenatal Care Impact PN-3 Outcomes?



- A 6.4 percentage point decrease in the likelihood of receiving inadequate prenatal care compared to individual prenatal care participants(C)
- Approximately 2 more prenatal visits among participating Black women with high-risk pregnancies compared to women in individual care (H)



- Cases of probable depression decreased by 31% for women in group prenatal care compared to 15% for women in individual prenatal care from the second trimester to 1 year postpartum (A)
- High-stress women in group prenatal care were more likely than women in individual prenatal care to experience a decrease in depressive symptoms postpartum (D)



• The rate of breastfeeding initiation increased by approximately 12 percentage points for women in group prenatal care compared to women in individual prenatal care (C)





STRATEGY

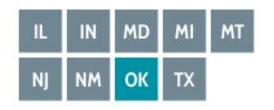
GROUP PRENATAL CARE

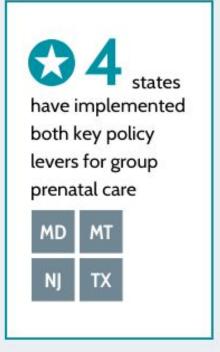
Key Policy Levers: Group Prenatal Care

14 states offer an enhanced Medicaid reimbursement rate to incentivize group prenatal care



states invest **funding** to pilot or scale up group prenatal care in the state





State newly implemented one or more key policy levers since October 1, 2023.

As of October 1, 2024; State health and Medicaid department websites, insurance provider websites, personal communication, and proposed and passed state legislation. For additional information, please refer to Methods and Sources.





Group Prenatal Care

Variation Across States in Enhanced Medicaid Reimbursement Rates for Group Prenatal Care

State	Enhanced Medicaid Reimbursement Rate
Arizona	\$45 per patient, per visit
California	\$11.24 per patient, per hour
Georgia	An additional \$30 per patient, per visit
Louisiana	An additional \$50 per patient, per visit (authorized for one MCO)
Maryland	An additional \$50 per patient per visit
Michigan	\$45 per patient, per visit
Missouri	\$40 per patient, per visit
Montana	\$30 per patient, per visit
New Jersey	An additional \$7 per patient per visit
North Carolina	\$250 per group, on/after the fifth visit
Ohio	\$45 per patient, per visit
South Carolina	\$30 per patient, per visit; plus an additional \$175 one-time retention reimbursement on/after the fifth visit
Texas	\$42.27 per patient, per visit
Utah	\$9.92 per patient, per visit

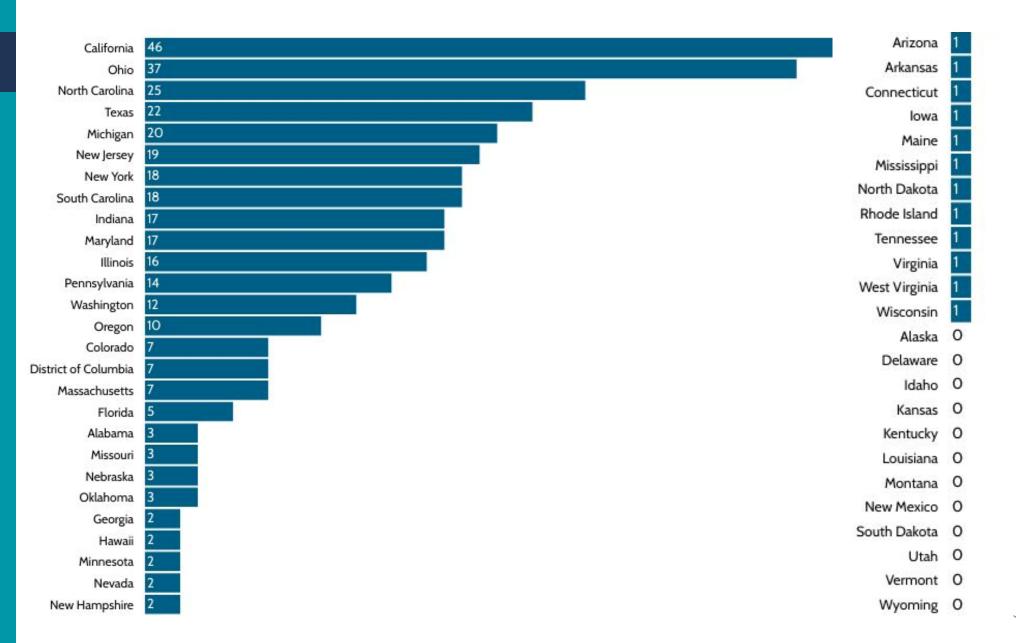
Source: As of 2024. Centering Healthcare Institute Inc and Medicaid SPAs





Group Prenatal Care

Number of Centering Pregnancy Sites Across States



Source: As of 2024. Centering Healthcare Institute Inc.



How Do Community-Based Doulas Impact PN-3 Outcomes?



- A 10 percentage point increase in attendance at four or more well-child visits within the first 6 months of life (E)
- A 10 percentage point increase in attending a maternal postpartum visit within 60 days of delivery (E)
- A 40.5 percentage point increase in attending birthing classes (A)



- An 8 percentage point decrease in rates of preterm birth (E)
- An 8 percentage point decrease in rates of low birthweight (E)
- A 5 percentage point decrease in NICU admissions (E)
- An 11.4 percentage point decrease in epidural use (A)



- A significant increase in parental guidance and encouragement towards infants at child age 4 months (C)
- Increased engagement with infants in stimulating activities such as reading, playing peekaboo, and playing with toys at child age 3 months (B)
- A 9.4 percentage point increase in mothers' knowledge of safe infant sleep practices (A)



- An increase in breastfeeding initiation rates ranging from 7.0 (A) to 14.3 (D) percentage points
- A 12.3 percentage point decrease in nonbeneficial feeding practices that involve giving infants popular but nutritionally deficient food (D)



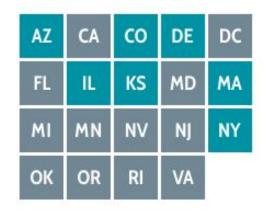


STRATEGY

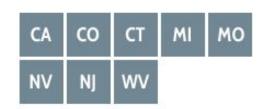
STATE SUPPORT FOR COMMUNITY-BASED DOULAS

Key Policy Levers: Community-Based Doulas

19 states cover and reimburse community-based doula services under Medicaid



8 states provide financial support for doula training and workforce development



5 states
have implemented
both key policy levers
for communitybased doulas

CA CO MI

NV NJ

State newly implemented one or more key policy levers since October 1, 2023.

Source: As of July 2024; National Health Law Program. For additional information, please refer to Methods and Sources.



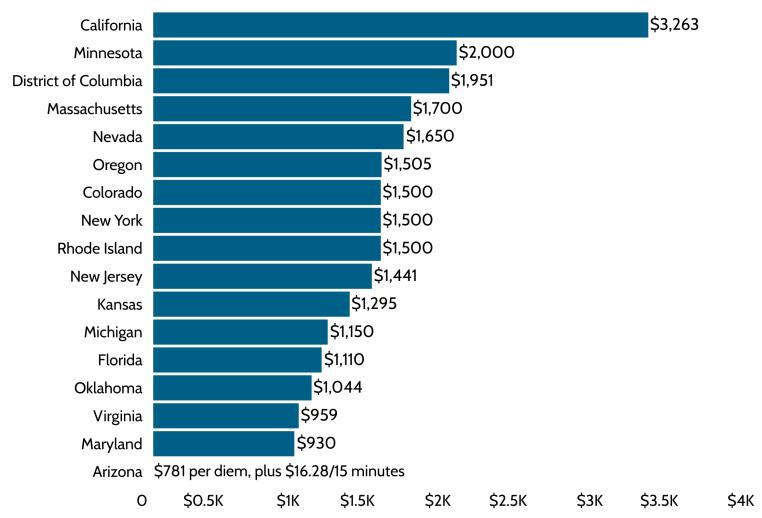


KEY POLICY LEVER

Medicaid Coverage: Maximum Reimbursement Rates

As of October 1, 2024. Sources: National Health Law Program, Doula Medicaid Project and state legislation.

Maximum Doula Medicaid Reimbursement Rates



Notes: Rates as of October 1, 2024. Arizona does not have a maximum number of visits, so a total maximum rate cannot be determined. DE and IL have approved SPAs, but their Medicaid reimbursement rates are not publicly available as of October 2024. CT, NH, NM, OH, and SD are working on setting and implementing Medicaid reimbursement rates. MO implemented temporary coverage of doula services under Medicaid in October 2024. WA will implement a \$3,500 reimbursement rate in early 2025.





KEY POLICY LEVER

Medicaid Coverage: Services Covered

As of October 2024. Sources: National Health Law Program, Doula Medicaid Project and state legislation.

Variation Across States in Medicaid Coverage

State	Services Covered by Medicaid
Arizona	No minimum or maximum number of visits specified; labor and delivery
California	11 total visits (initial visit, 8 follow-up visits, and 2 optional extended postpartum visits) and labor and delivery
Colorado	3 hours of prenatal care, 3 hours of postpartum care, and labor and delivery
Delaware	6 total visits (3 prenatal, 3 postpartum) and labor and delivery
District of Columbia	12 total visits and labor and delivery
Florida	Plans negotiate rates and services
Illinois	*
Kansas	7 hours of prenatal care, 6.25 hours of postpartum care, and labor and delivery
Maryland	8 total visits (prenatal and postpartum) and labor and delivery
Massachusetts	Between 5 and 8 total visits (depending on length of visit) and labor and delivery
Michigan	6 total visits and labor and delivery
Minnesota	18 total visits and labor and delivery
Nevada	6 total visits and labor and delivery
New Jersey	12 total visits for patients age 19 and under or 8 total visits for patients over age 19, plus labor and delivery
New York	8 total visits and labor and delivery
Oklahoma	8 total visits and labor and delivery
Oregon	A minimum of 2 prenatal visits, 2 required postpartum visits, and labor and delivery
Rhode Island	3 prenatal visits, 3 postpartum visits, and labor and delivery
Virginia	8 total visits and labor and delivery

Note: States excluded from the table above do not cover community-based doula services under Medicaid as of publication. *Full details of Medicaid reimbursement rates were not yet publicly available for Delaware and Illinois at the time of publication. California also covers 9 additional postpartum visits with the recommendation of a medical provider.

Source: As of October 2024. National Health Law Program, Doula Medicaid Project, state legislation, and approved state plan amendments. For additional information see Method and Sources.





KEY POLICY LEVER

Workforce Supports

Variation Across States in State Support for Training and Credentialing

State	State Workforce Supports
California	Workforce financial support program
Colorado	Scholarships to pursue training and certification
Connecticut	Scholarships to pursue training and certification
Michigan	Trainings and stipends
Missouri	Statewide training grant program
Nevada	State program to repay student education loans for doulas enrolled as Medicaid providers
New Jersey	State grants
West Virginia	State grant to expand training

Note: As of October 1, 2024

As of October 2024. Sources: National Health Law Program, Doula Medicaid Project and state legislation.





STRATEGY

EARLY HEAD START

Key Policy Lever: Early Head Start

20 states support Early Head Start by becoming an EHS-CCP grantee, directing state funding to programs, and/or creating a state-specific program similar to EHS



Among these 20 states:

5 states are an EHS-CCP grantee

13 states direct state funding to EHS

5 states have a state-specific program similar to EHS









Early Head Start

How Does Early Head Start Impact PN-3 Outcomes?



• A greater percentage of parents participating in EHS reported being in school or job training programs compared to the control group at child ages 2 and 3 (S: effect sizes 0.09 and 0.16, respectively)



• Parents participating in EHS reported lower parenting distress as compared to the control group at child age 2 (I, S: effect size -0.11)



- EHS participation led to more supportive home environments for language and literacy (I, S: effect size O.12), particularly for Black families (N: effect size O.19) and families with moderate-level risk factors (N: effect size O.18)
- Fewer parents participating in EHS reported spanking their child at age 3 (J, S: effect size -0.13)
- Black parents participating in EHS were more involved in their child's school at grade 5 (T: effect size 0.37)



Early Head Start

How Does Early Head Start Impact PN-3 Outcomes?



- At age 2, the share of children participating in good-quality center-based care was 3 times greater among children participating in EHS as compared to the control group (K)
- In center-based care, caregiver-child interactions were better among EHS participants than among nonparticipants (K)



- Children in EHS were more engaged with their parent during play at age 3 (J, S: effect size 0.18)
- Children in EHS had higher developmental functioning assessment scores at age 2 (I, S: effect size 0.14), particularly Black children in EHS (N: effect size 0.23)
- Children in EHS had higher vocabulary skills at ages 2 and 3 (I, J and S: effect sizes 0.11)

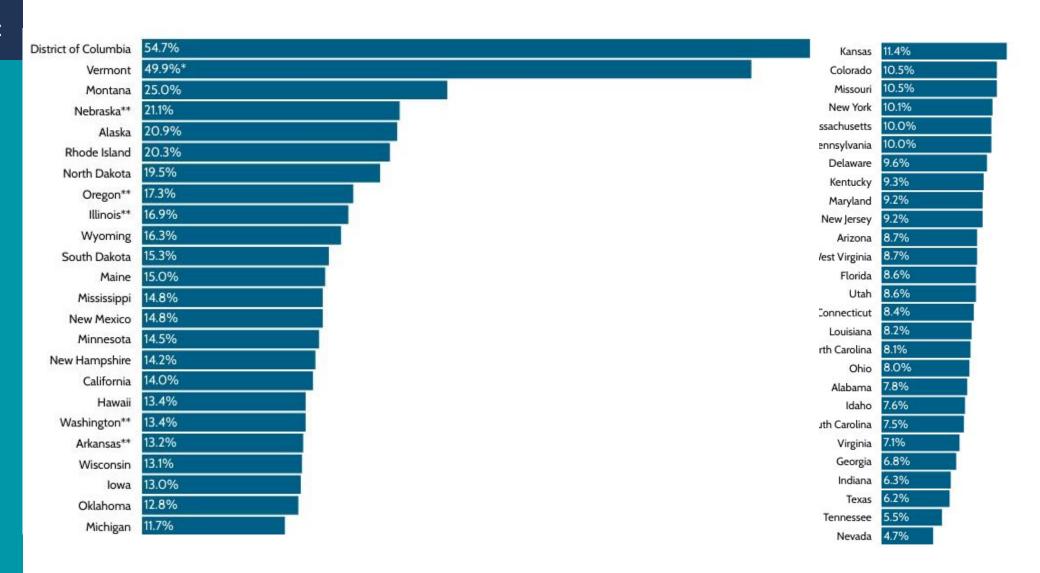




Early Head Start

Estimated % of Income-Eligible Children With Access to Early Head Start

Sources: 2022 Office of Head Start, Early Head Start Notice of Award data and 2020-2022 American Community Survey (ACS) Public-Use Microdata Sample (PUMS).





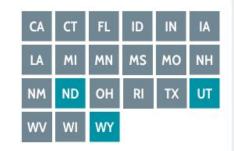


STRATEGY

EARLY INTERVENTION SERVICES

Key Policy Levers: Early Intervention Services

21 states allow very low birthweight as a diagnosable or at-risk qualification for Early Intervention services



6 states allow at-risk for delay as a qualifier for Early Intervention services



34 states have eliminated family fees for children receiving Early Intervention services



states
have implemented
all key policy levers
for Early Intervention
services



State newly implemented one or more key policy levers since October 1, 2023.



El Services

How Do Early Intervention Services Impact PN-3 Outcomes?



• Mothers of low birthweight, premature infants who received EI services scored significantly higher on scales of maternal self-confidence (B, D) and maternal role satisfaction than control groups (D)



- A meta-analysis of 31 studies found that EI services had an average effect size of 0.62 on children's cognitive skills and 0.43 on motor skills (F)
- Low birthweight, premature infants who were assigned to EI services saw better cognitive (C, D) and behavioral outcomes (C) at age 3 than infants in control groups
- EI services improved toddlers' receptive language skills relative to a control group (0.35 effect size) (E)



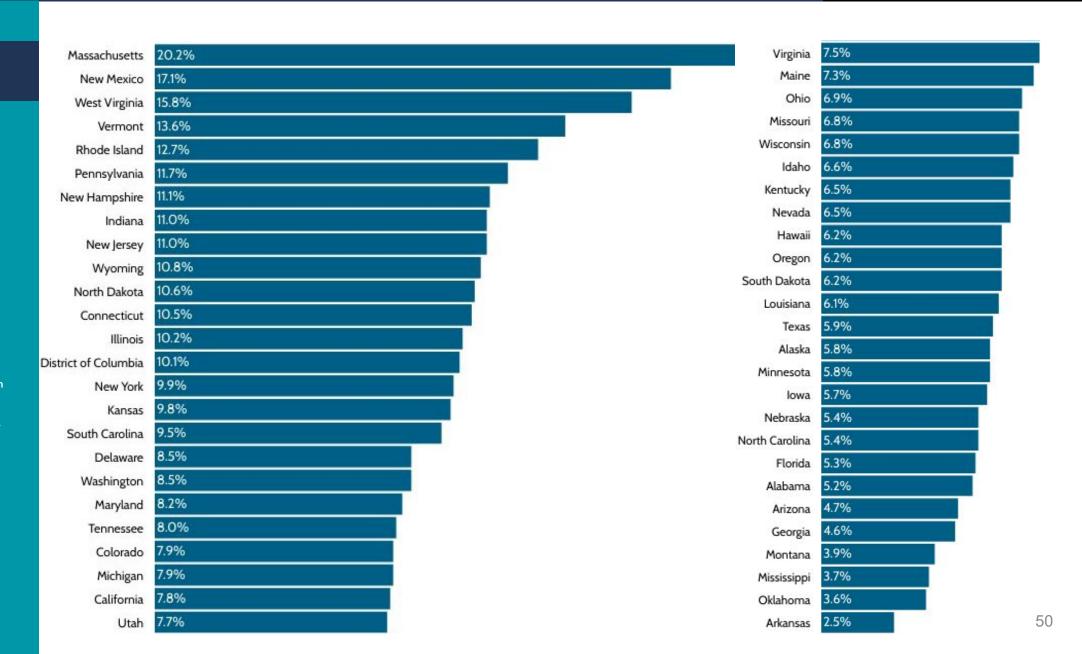


El Services

Cumulative % Children Under Age 3 Receiving El Services

Sources: Cumulative % served in EI & Point-in-Time % served: As of 2021-2022. US Department of Education, EDFacts Metadata and Process System (EMAPS) and US Census Population Estimates; % babies born low birthweight: Vital Statistics from CDC WONDER 2021 Natality.

*Maryland does not have a value for the cumulative percent served under age 3 because data were flagged due to questionable quality. 0.0% is displayed for the purpose of graphics.







The Policy Impact Calculator



Earnings from the state minimum wage and paid family leave benefits



Out-of-pocket child care expenses after receiving a child care subsidy



Nutrition benefits



Federal and state income taxes and credits

Policy Impact Calculator: Assumptions



Lina

- Single mother with an infant and toddler
- She works full time all year, and earns the state's minimum wage
- She receives the benefits she is eligible for and files her taxes
- She takes 12 weeks of leave following her infant's birth
- She sends her children to center-based care that charges the 75th percentile of the market rate

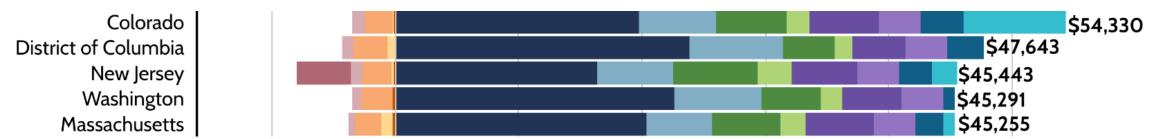




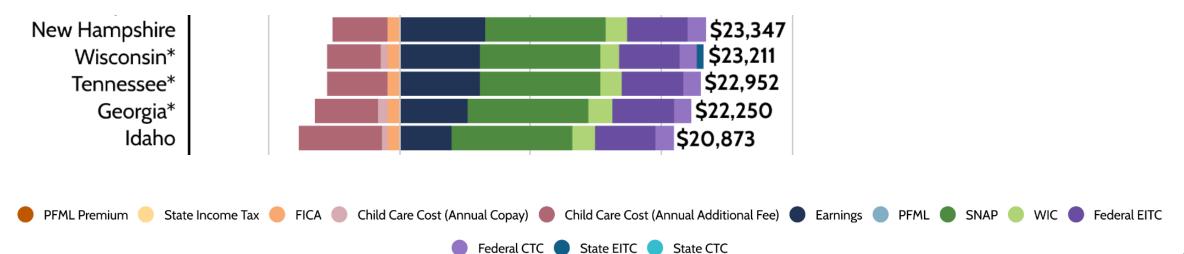
The Impact of State Policy Choices on Family Resources Across States

Total Annual Resources = Annual Minimum Wage Earnings + PFL + Net Federal and State Benefits - Out-of-Pocket Child Care Expenses

Top Five States



Bottom Five States



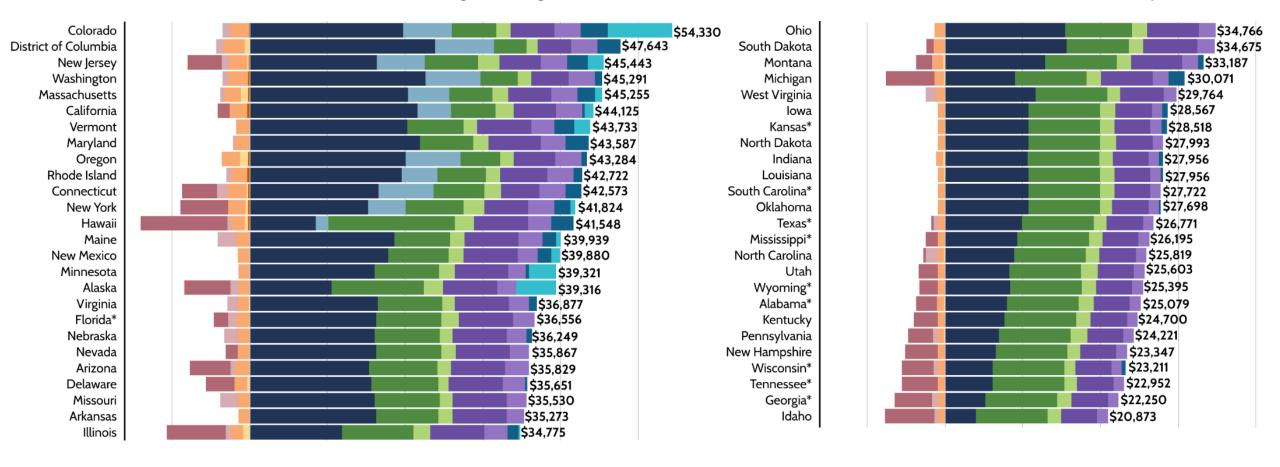
PFML Premium





The Impact of State Policy Choices on Family Resources Across States

Total Annual Resources = Annual Minimum Wage Earnings + PFML + Net Federal and State Benefits - Out-of-Pocket Child Care Expenses



Child Care Cost (Annual Copay)
Child Care Cost (Annual Additional Fee)
Earnings
PFML SNAP

State Income Tax FICA



Summary

- The prenatal-to-3 period of development sets the stage for lifelong health and wellbeing.
- State policy choices can reduce family stressors and increase capacities, which have substantial impacts on health and wellbeing over the life course.
- State policies that improve maternal and child health outcomes are not limited to health policies.

prenatal-to-3 policy IMPACT CENTER







