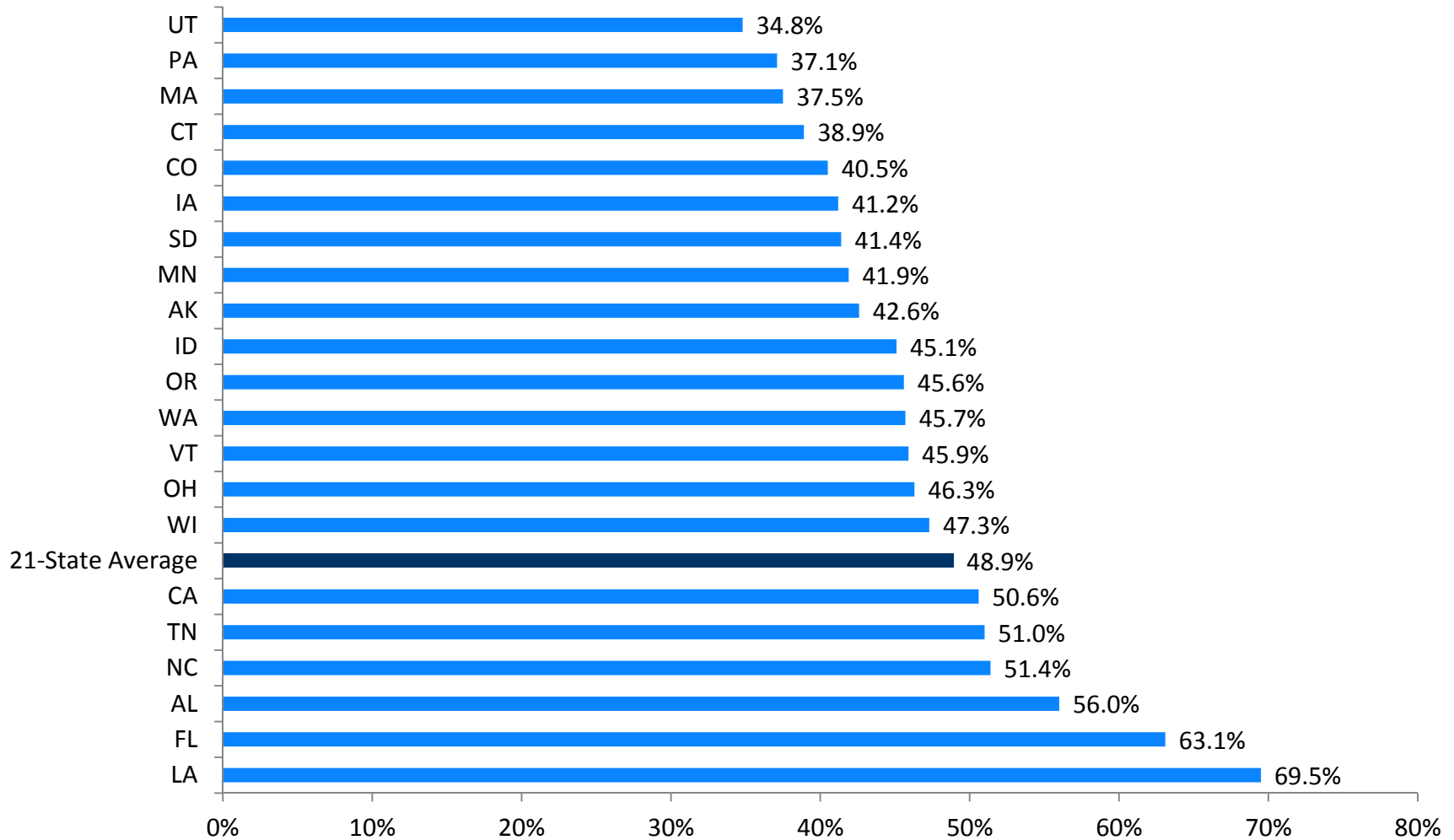


Medicaid Medical Directors' Perinatal Care Project Chartbook

2014

Medicaid Births

Percentage of All State Resident Singleton Births that Were Financed by Medicaid, by State, 2010

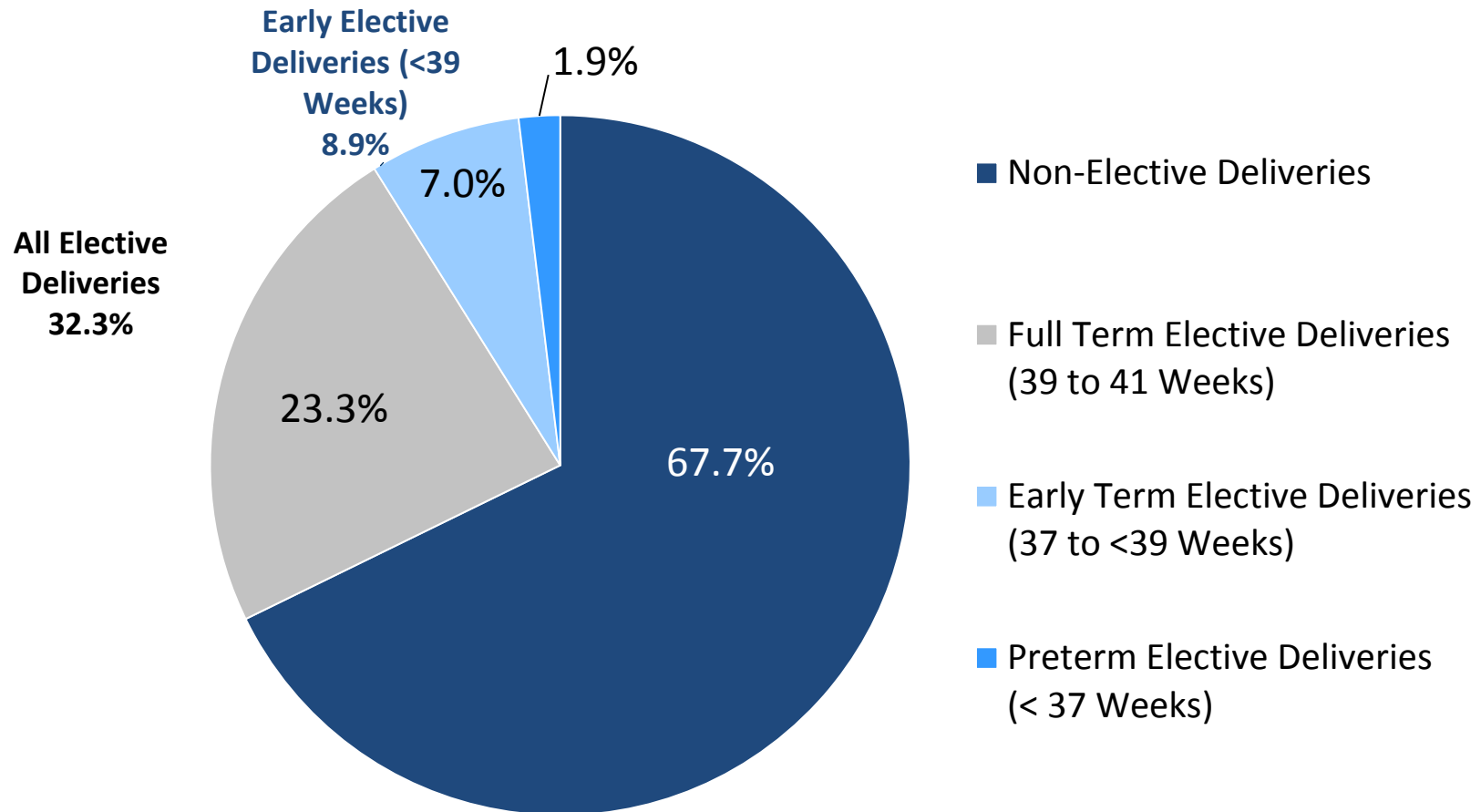


Note: Data are from 21 of the 22 participating states. West Virginia is excluded.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

Early Elective Deliveries Accounted for 8.9% of All Medicaid Singleton Births

Elective Deliveries by Gestational Age as a Percentage of All Medicaid Singleton Births



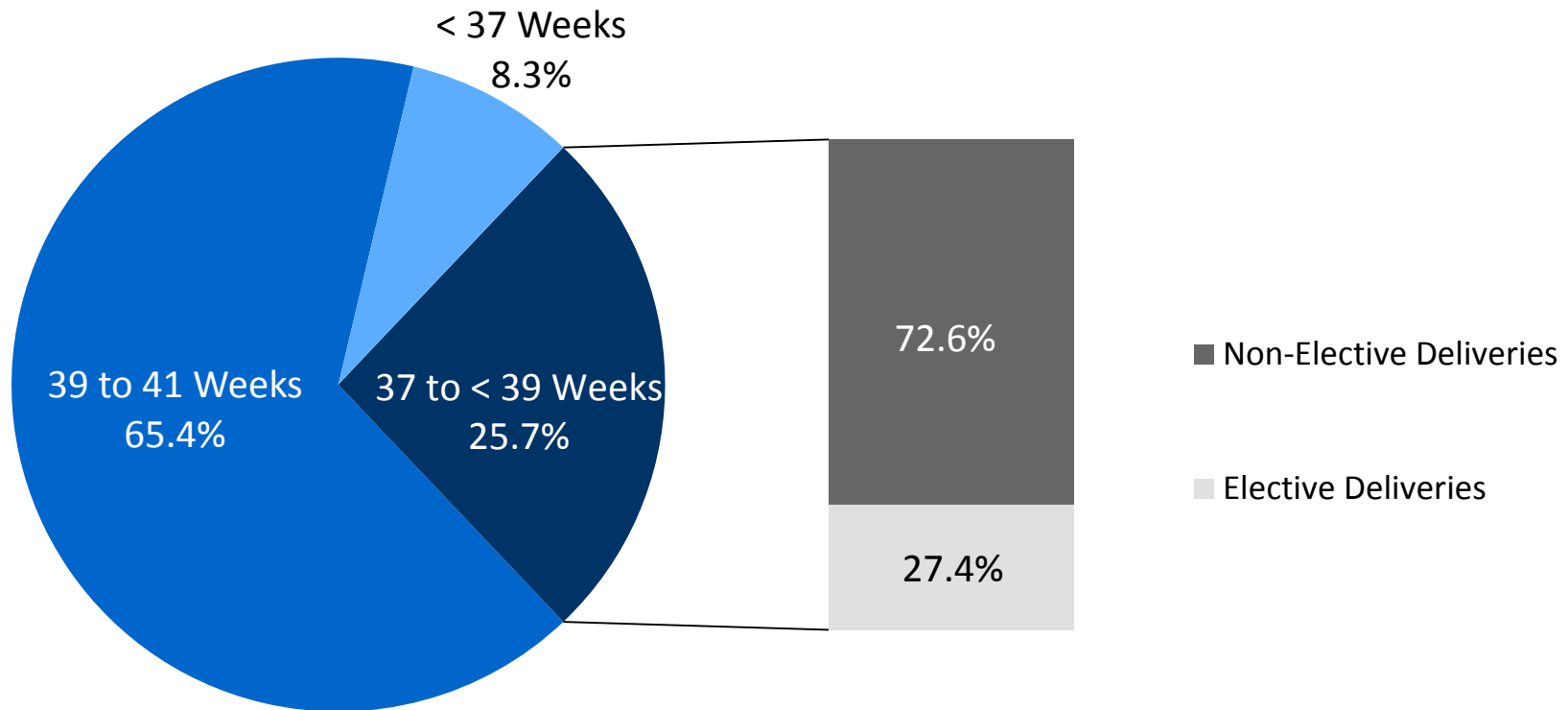
Total = 839,688 Medicaid Singleton Births

Note: Data are from 22 states; various reporting years 2010-2012. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Total Medicaid Singleton Births = 839,688. Totals may not sum due to rounding and a small percentage of missing values (e.g. missing gestational age or gestational age >41 weeks).

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

Just Over a Quarter of All Medicaid Singleton Early Term Births Were Elective Deliveries

All Medicaid Singleton Births by Gestational Age and Distribution of Early Term Deliveries (37 to < 39 Weeks) by Type



Medicaid Singleton Births = 839,688

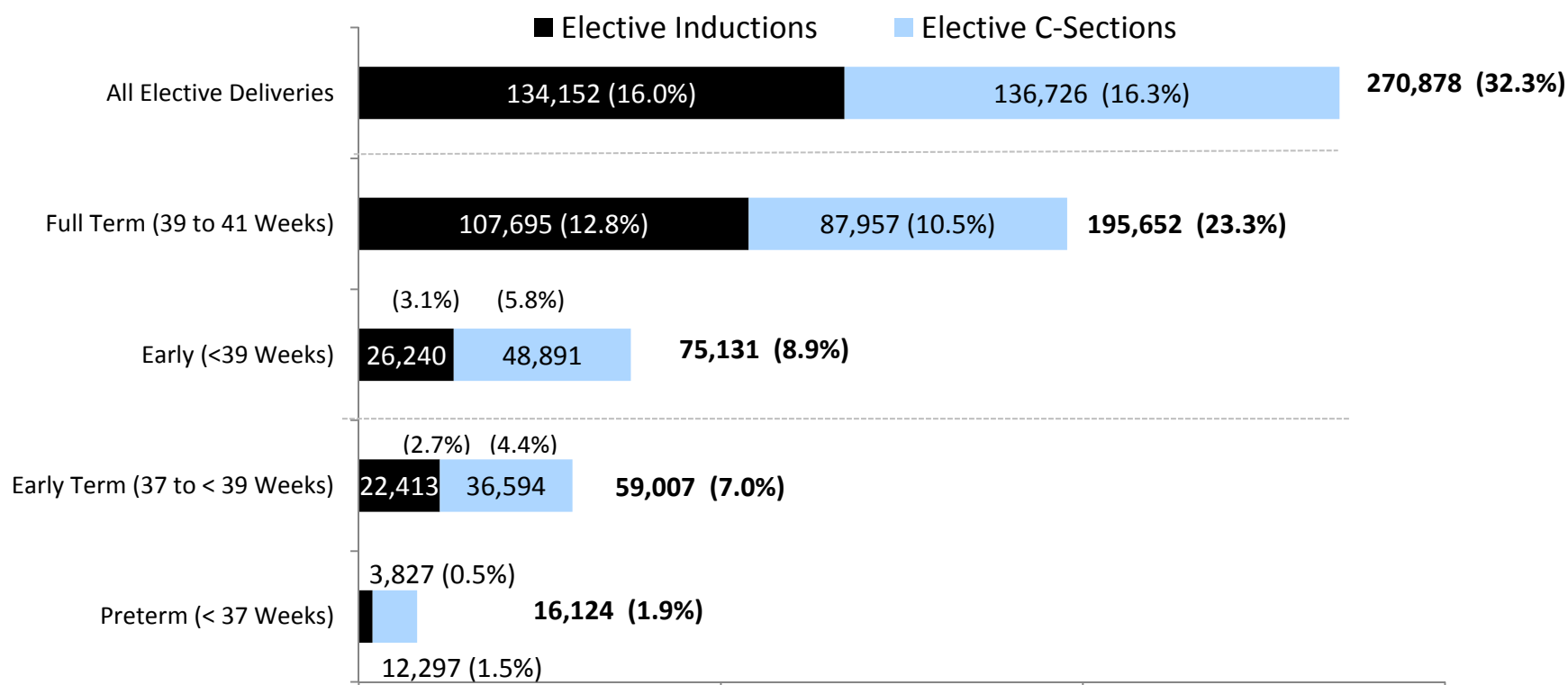
**Medicaid Singleton Early Term Births
(37 to < 39 Weeks) = 215,744**

Note: Data are from 22 states, various reporting years 2010-2012. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Total Medicaid Singleton Births = 839,688. Totals may not sum due to rounding and a small percentage of missing values (e.g. missing gestational age or gestational age >41 weeks).

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

Most Elective Deliveries were Full-Term Deliveries; Most Elective Deliveries Under 39 Weeks Gestational Age were Cesarean Sections

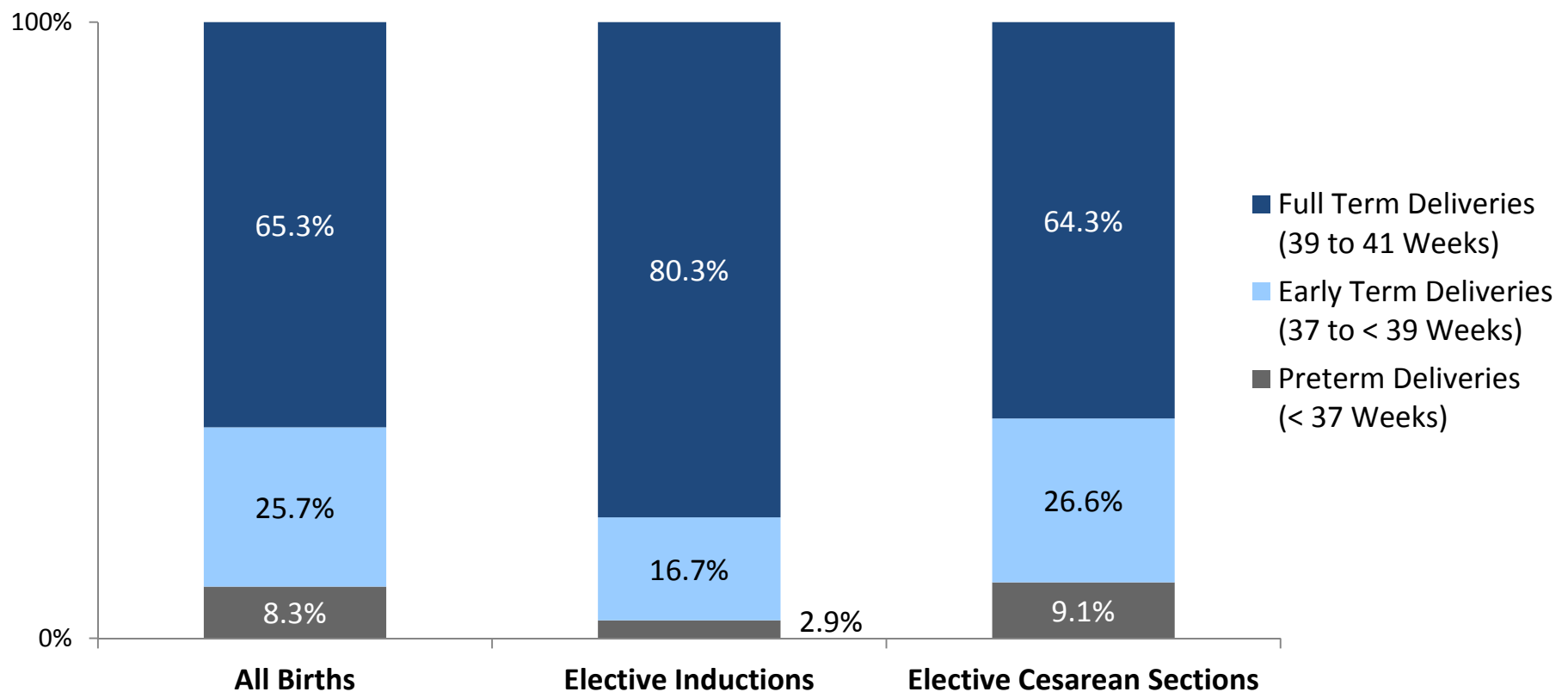
Distribution of All Medicaid Singleton Births by Type of Delivery and by Gestational Age
Number (Percentage of All Medicaid Singleton Births)



Notes: Data are from 22 states, various reporting years 2010-2012. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Total Medicaid Singleton Births = 839,688. Totals may not sum due to rounding and a small percentage of missing values (e.g. missing gestational age or gestational age >41 weeks).
Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

The Proportion of Elective Inductions Performed at Full Term (80.3%) was Higher than that for Elective C-Sections (64.3%)

Distribution of All Medicaid Singleton Births by Type of Delivery and by Gestational Age



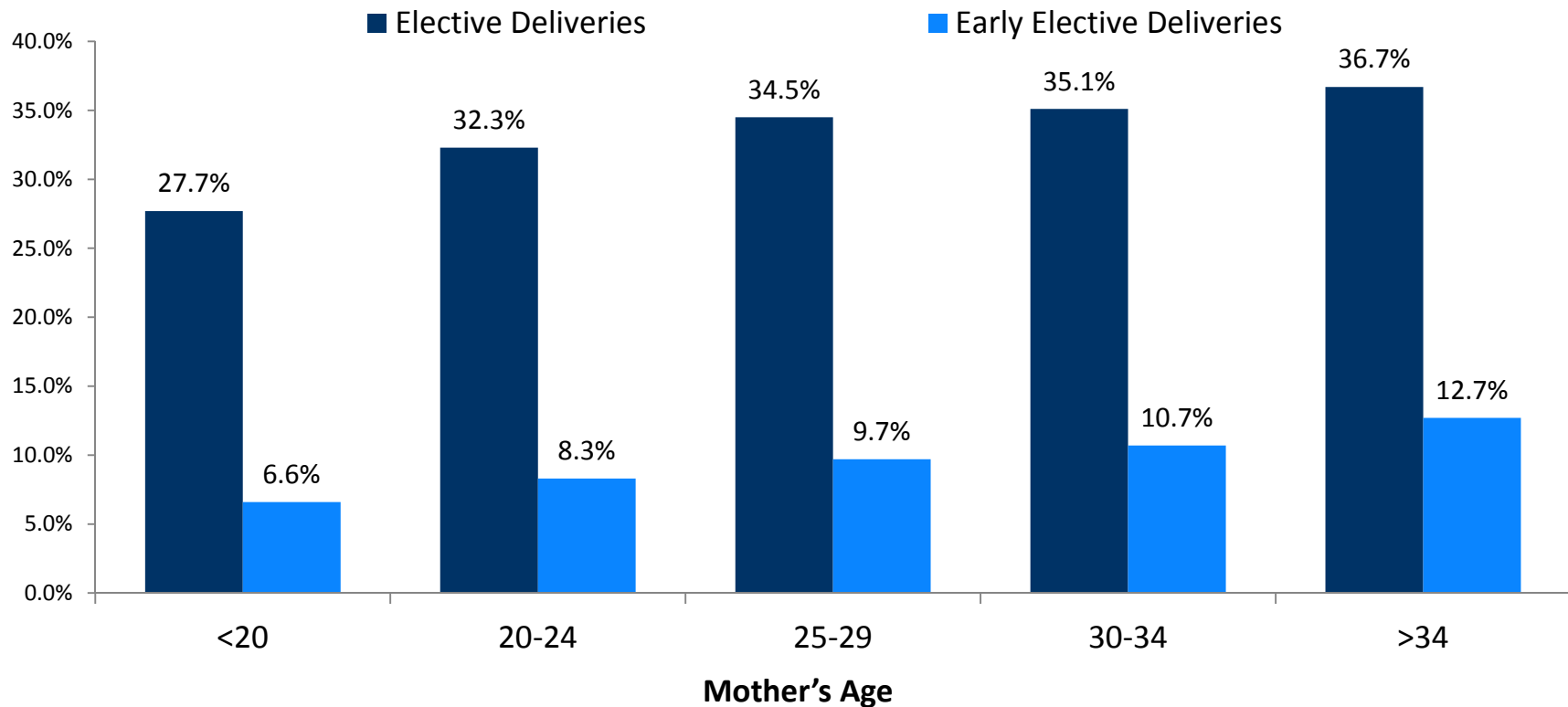
Notes: Data are from 22 states, various reporting years 2010-2012. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Total Medicaid Singleton Births = 839,688. Totals may not sum due to rounding and a small percentage of missing values (e.g. missing gestational age or gestational age >41 weeks).

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project

Mother's Age

Rates of Elective and Early Elective Delivery were Higher at Older Ages

Percentage of Mothers who had an Elective Delivery, by Mother's Age



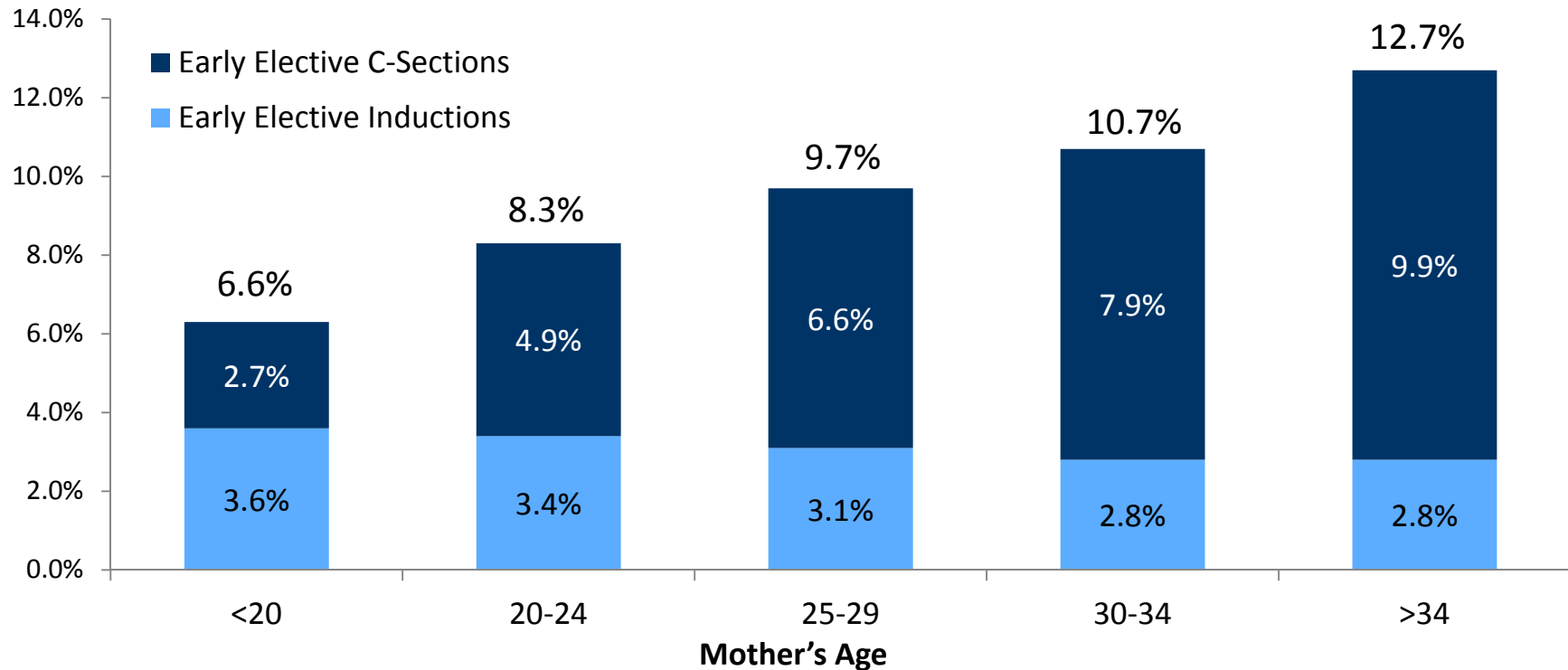
Notes: Data are from 22 states, various reporting years 2010-2012. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Early deliveries are those under 39 weeks gestational age.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project

Mother's Age

Rates of Early Elective Inductions were Similar for Women by Age, but the Rate of Early Elective C-Section was More than 3 Times Higher for Women Aged 34 and Older (9.9%) than for Women Under Age 20 (2.7%)

Percentage of Mothers who had an Early Elective Delivery by Type, by Mother's Age



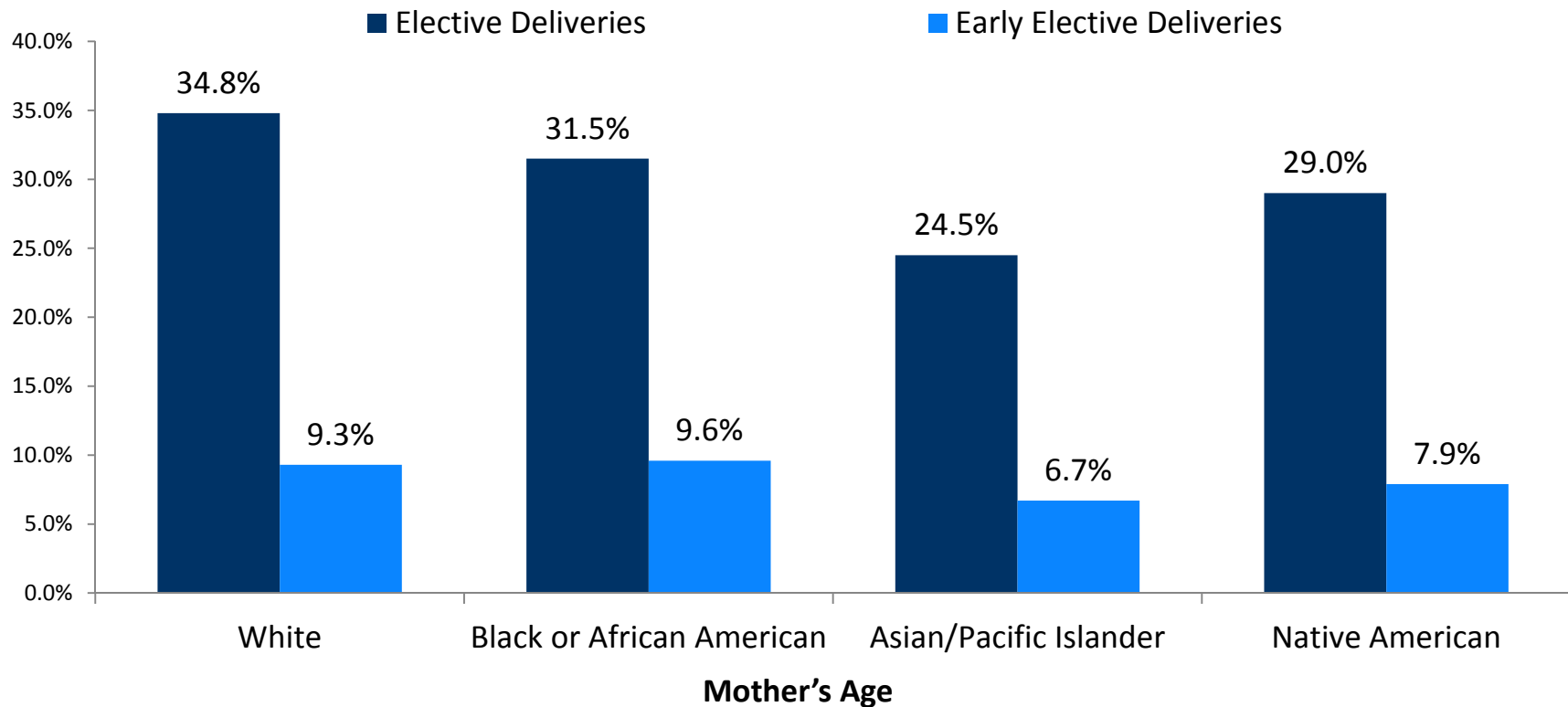
Notes: Data are from 22 states, various reporting years 2010-2012. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Early deliveries are those under 39 weeks gestational age. Totals may not sum due to rounding.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project

Mother's Race

Rates of Elective and Early Elective Delivery Varied by Race; Asian/Pacific Islanders Had the Lowest Rates

Percentage of Mothers who had an Elective Delivery, by Mother's Race



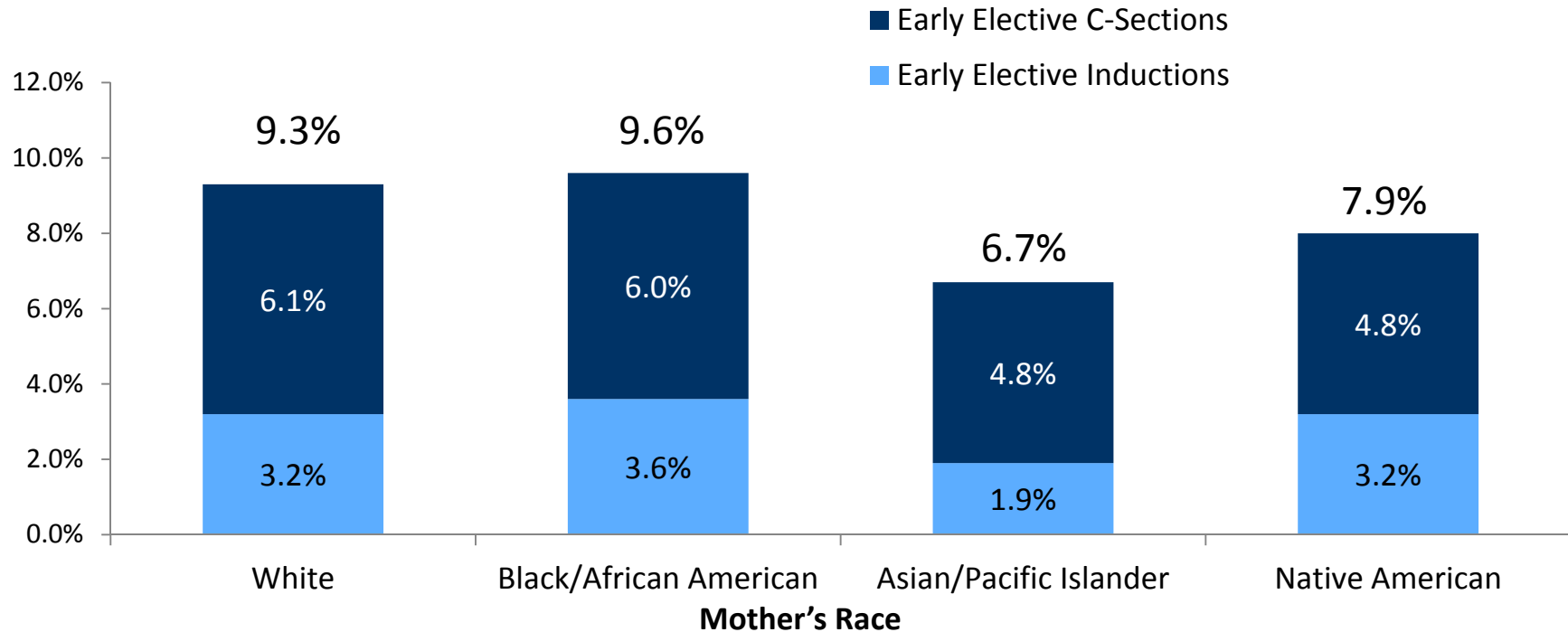
Notes: Data are from 22 states, various reporting years 2010-2012. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Early deliveries are those under 39 weeks gestational age.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project

Mother's Race

Rates of Early Elective C-Sections were Lower for Asian/Pacific Islanders and Native American Mothers than for White or Black/African American Mothers

Percentage of Mothers who had an Early Elective Delivery by Type, by Mother's Race

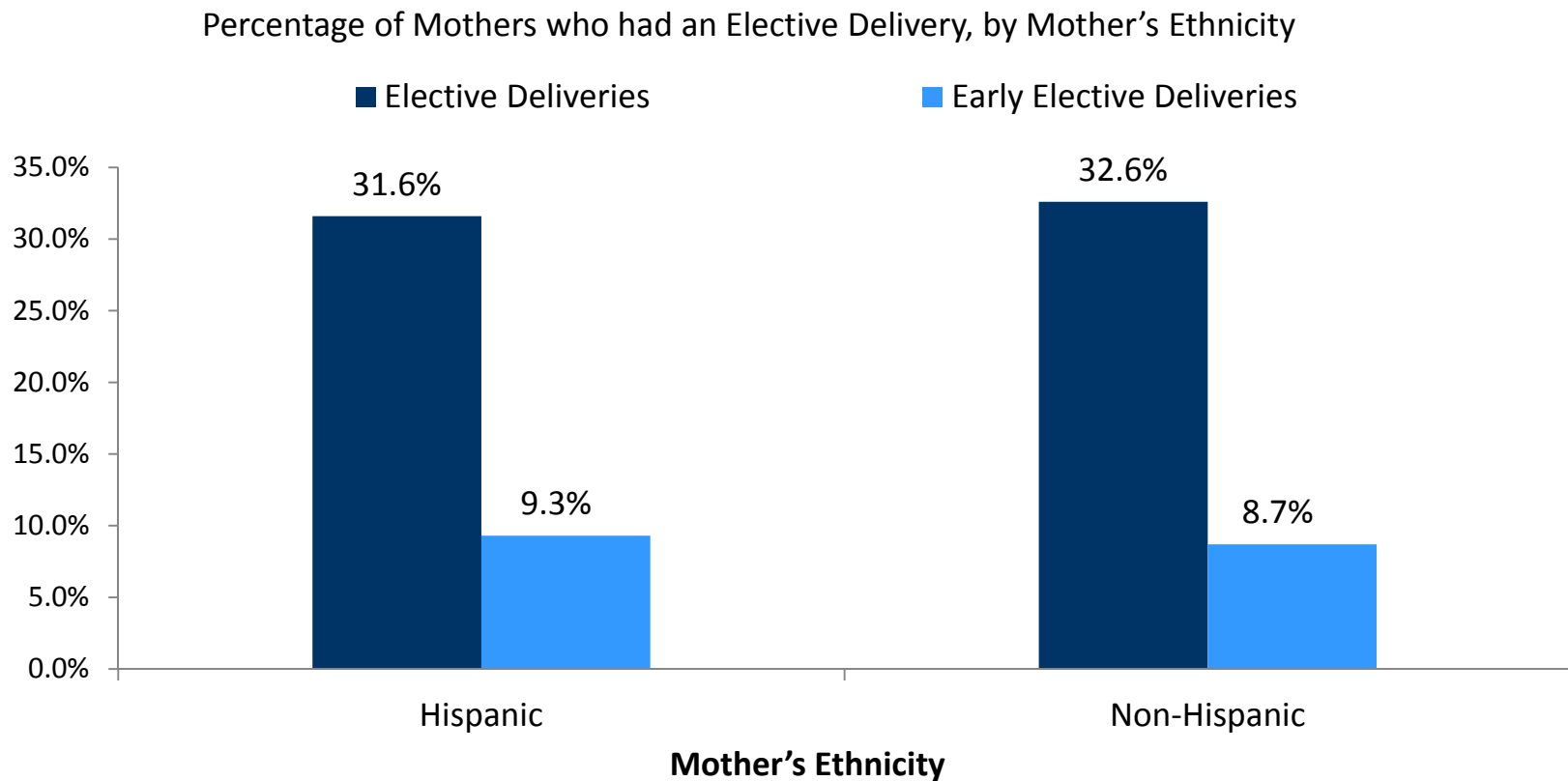


Notes: Data are from 22 states, various reporting years 2010-2012. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Early deliveries are those under 39 weeks gestational age. Totals may not sum due to rounding.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project

Mother's Ethnicity

Hispanic Mothers had a Higher Rate of Early Elective Delivery than Non-Hispanic Mothers



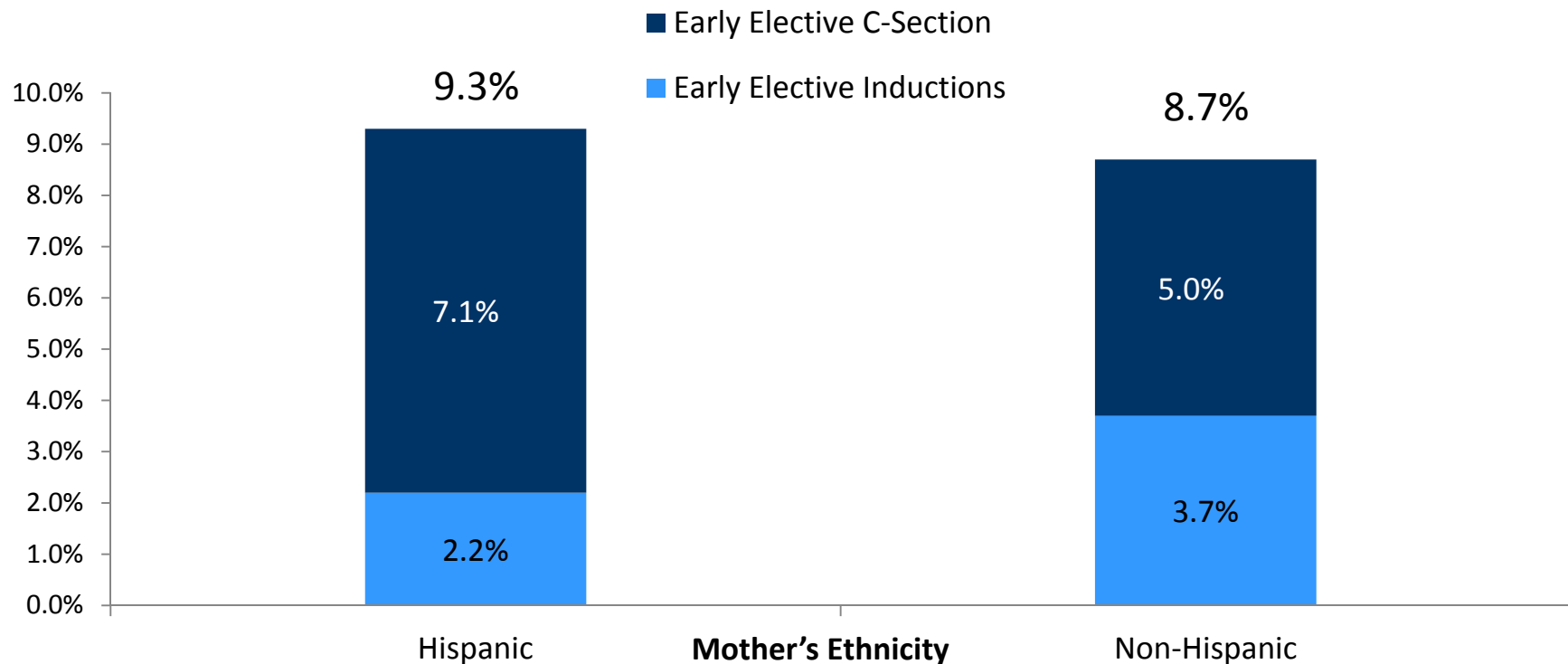
Notes: Data are from 22 states, various reporting years 2010-2012. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Early deliveries are those under 39 weeks gestational age.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

Mother's Ethnicity

The Higher Rate of Early Elective Delivery for Hispanic Mothers (9.3%) Compared to Non-Hispanic Mothers (8.7%) is Due to a Higher Rate of Early Elective C-Sections

Percentage of Mothers who had an Elective Delivery, by Mother's Ethnicity



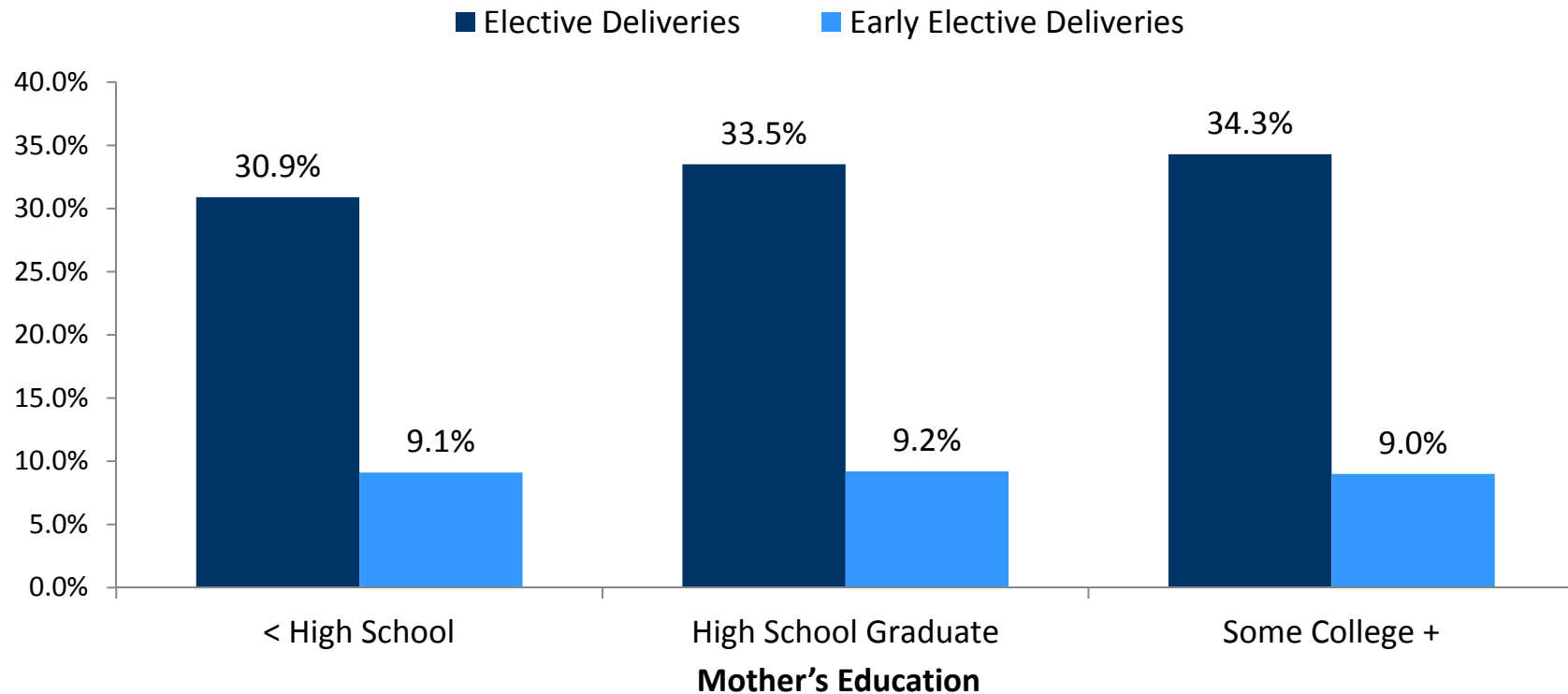
Notes: Data are from 22 states, various reporting years 2010-2012. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Early deliveries are those under 39 weeks gestational age. Totals may not sum due to rounding.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

Mother's Education

The Rate of Elective Delivery was Lower at Higher Levels of Educational Attainment

Percentage of Mothers who had an Elective Delivery,
by Mother's Highest Level of Education at Time of Delivery



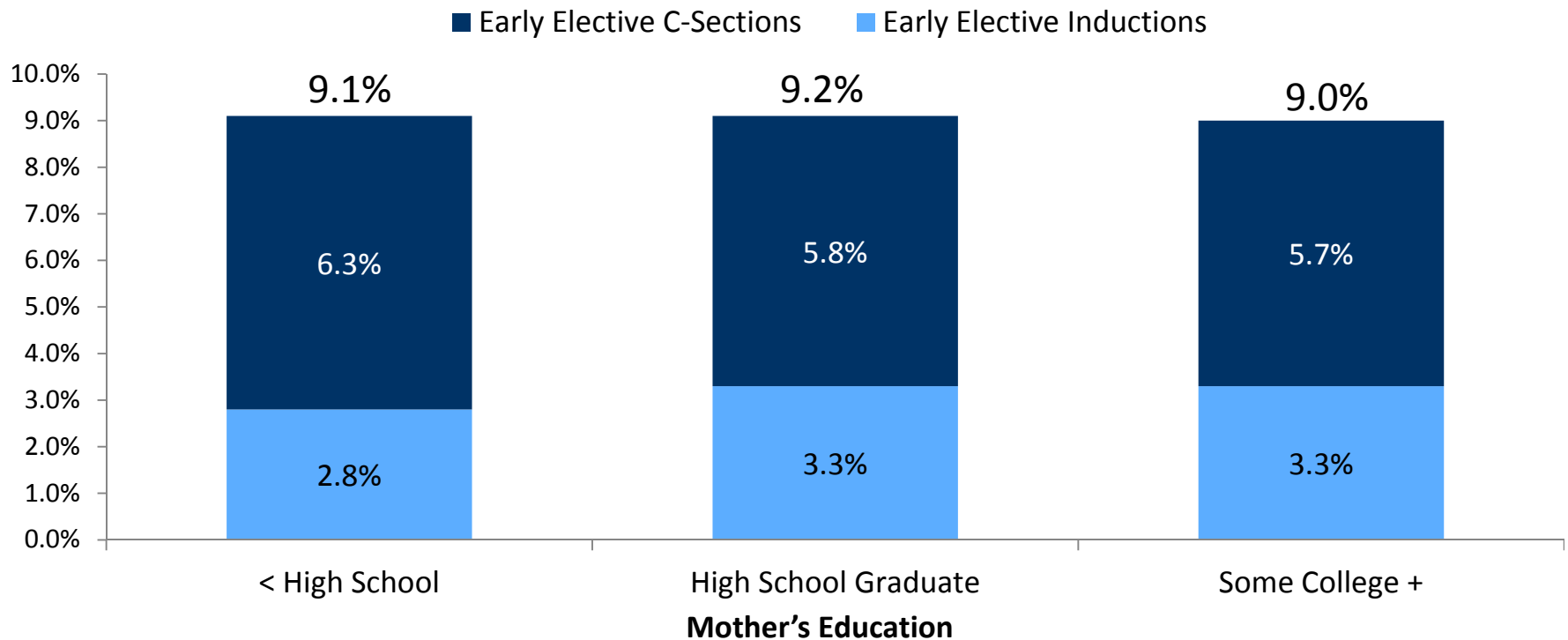
Notes: Data are from 22 states, various reporting years 2010-2012. "Some College +" includes people who had any college education as well as those individuals who received any college degree (associate's degree, bachelor's degree or other advanced degree, such as a master's degree, Ph.D., or professional degree). Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Early deliveries are those under 39 weeks gestational age.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

Mother's Education

The Rate of Early Elective C-Sections was Higher Among Mothers with Less Than a High School Education, Though the Rate of Early Elective Inductions was Lower

Percentage of Mothers who had an Elective Delivery, by Mother's Highest Level of Education at Time of Delivery



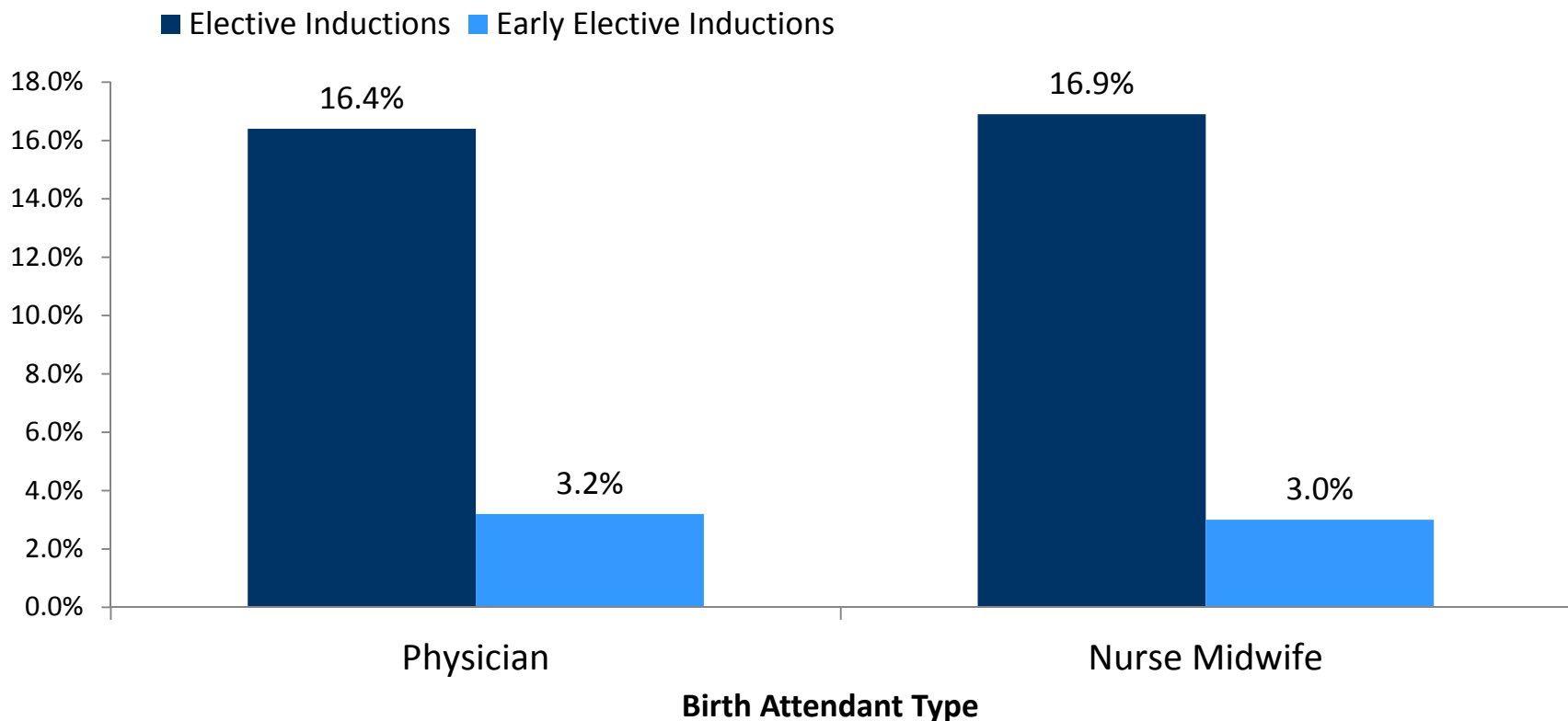
Notes: Data are from 22 states, various reporting years 2010-2012. "Some College +" includes people who had any college education as well as those individuals who received any college degree (associate's degree, bachelor's degree or other advanced degree, such as a master's degree, Ph.D., or professional degree). Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Early deliveries are those under 39 weeks gestational age. Totals may not sum due to rounding.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

Birth Attendant Type

Rates of Elective Induction and Early Elective Induction Did Not Vary Much by Type of Birth Attendant

Percentage of Mothers who had an Elective Induction, by Birth Attendant Type



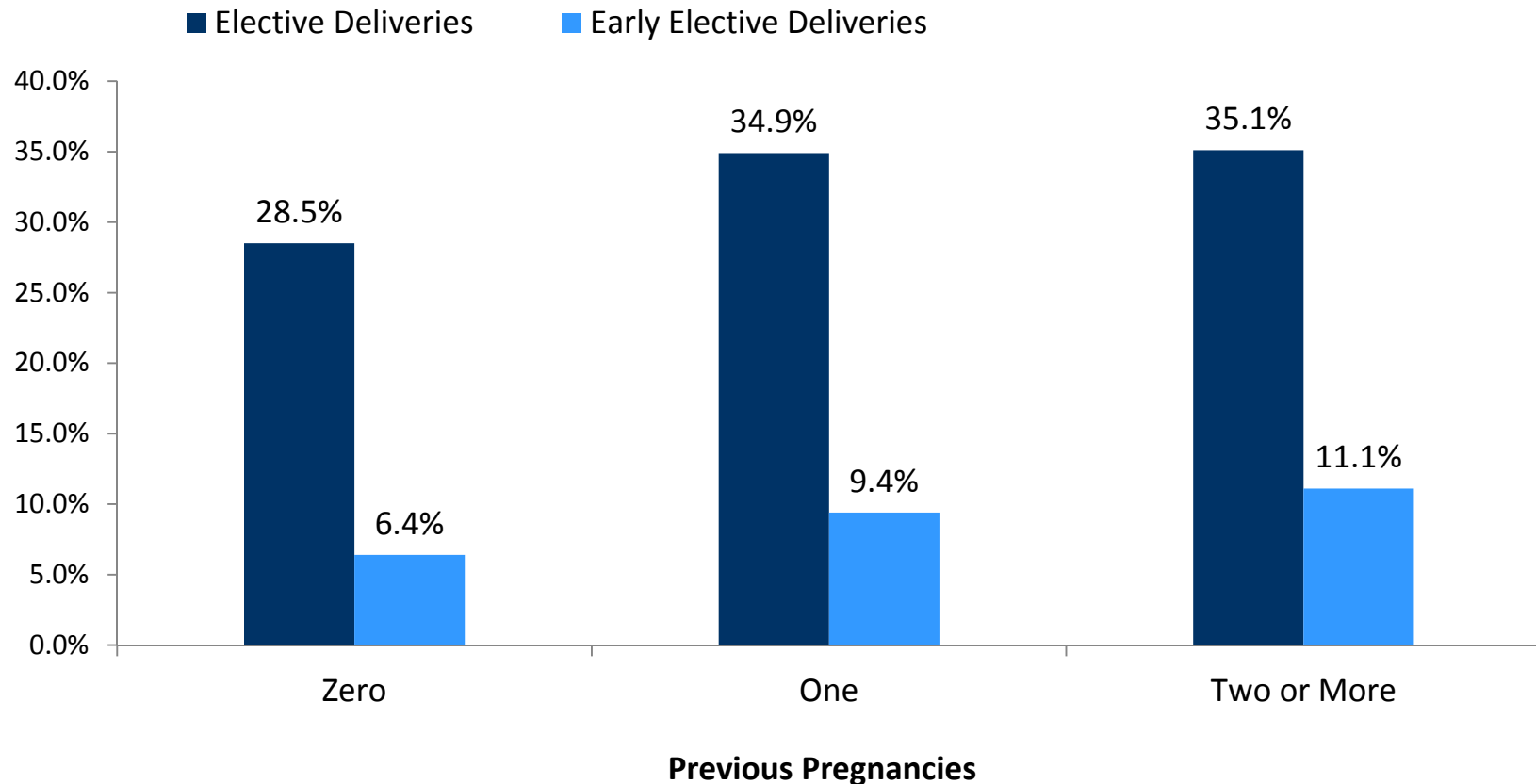
Notes: Data are from 22 states, various reporting years 2010-2012. Physician includes MDs and DOs; Nurse Midwife includes Certified Nurse Midwives and Other Midwives. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Early deliveries are those under 39 weeks gestational age.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

Pregnancy History

Elective and Early Elective Deliveries were More Common Among Mothers with Previous Pregnancies Compared to First-Time Mothers

Percentage of Mothers who had an Elective Delivery, by Number of Previous Pregnancies



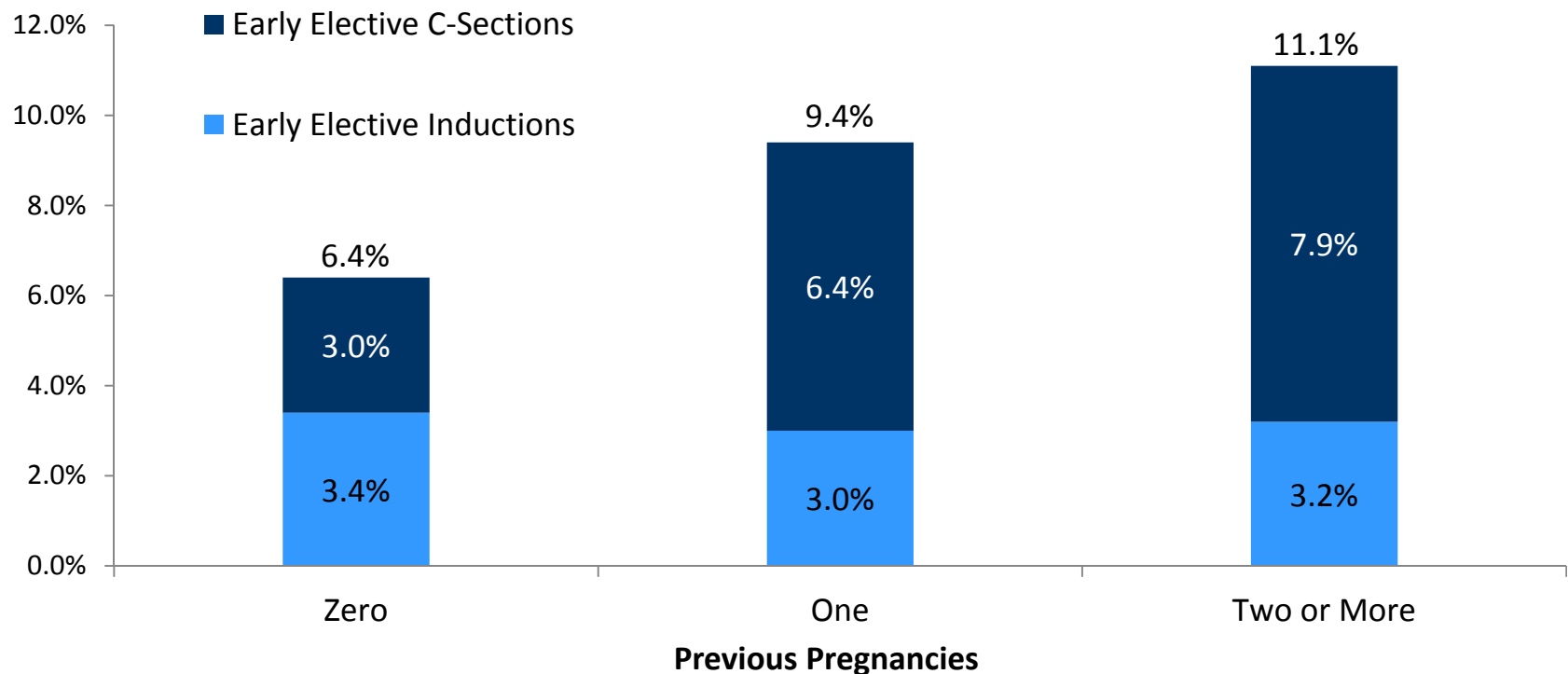
Notes: Data are from 22 states, various reporting years 2010-2012. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Early deliveries are those under 39 weeks gestational age.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

Pregnancy History

The Rate of Early Elective C-Section was More than Twice as High for Mothers with Previous Pregnancies Compared to First-Time Mothers

Percentage of Mothers who had an Elective Delivery, by Number of Previous Pregnancies



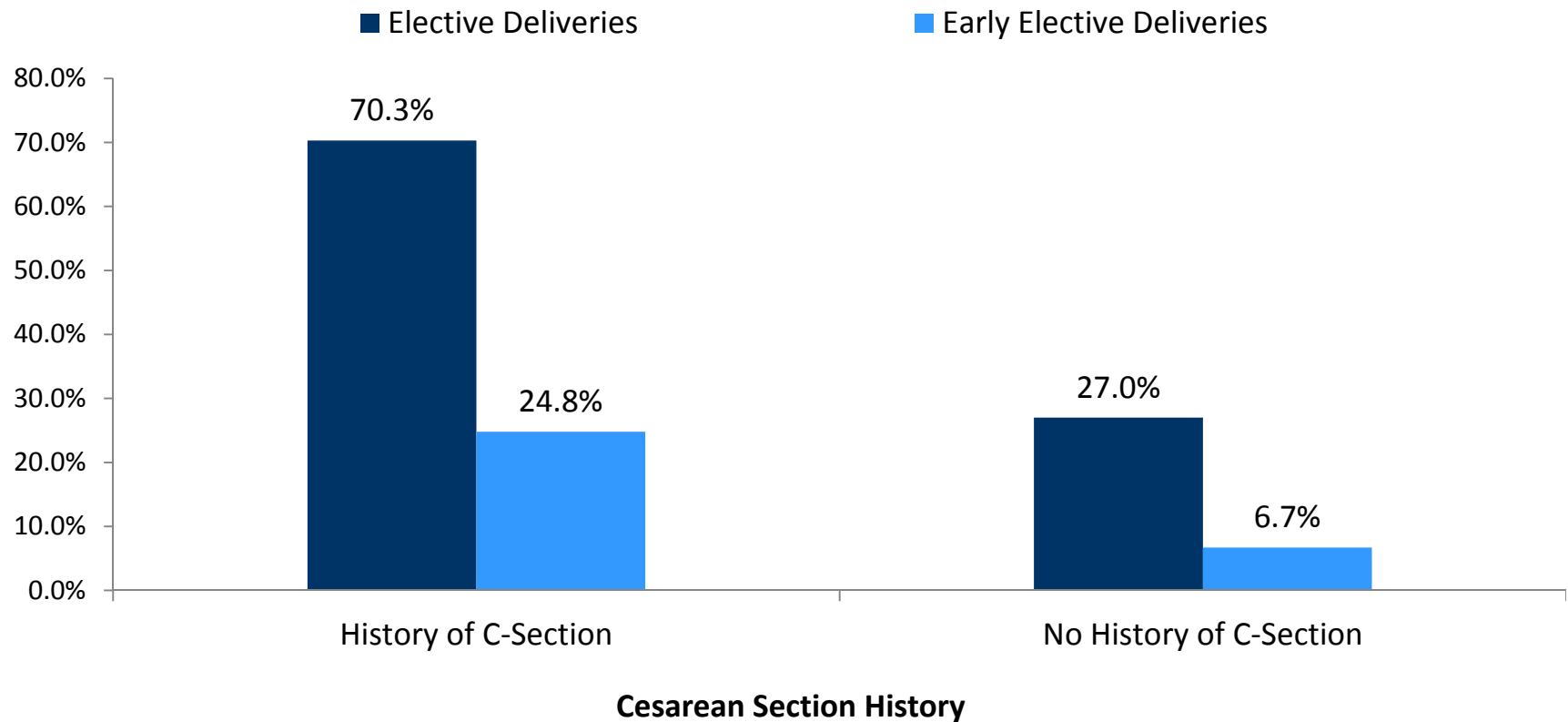
Notes: Data are from 22 states, various reporting years 2010-2012. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Early deliveries are those under 39 weeks gestational age. Totals may not sum due to rounding.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

C-Section History

Roughly 70% of Mothers who had a History of C-Section had an Elective Delivery; About a Quarter had an Early Elective Delivery

Percentage of Mothers who had an Elective Delivery, by C-Section History



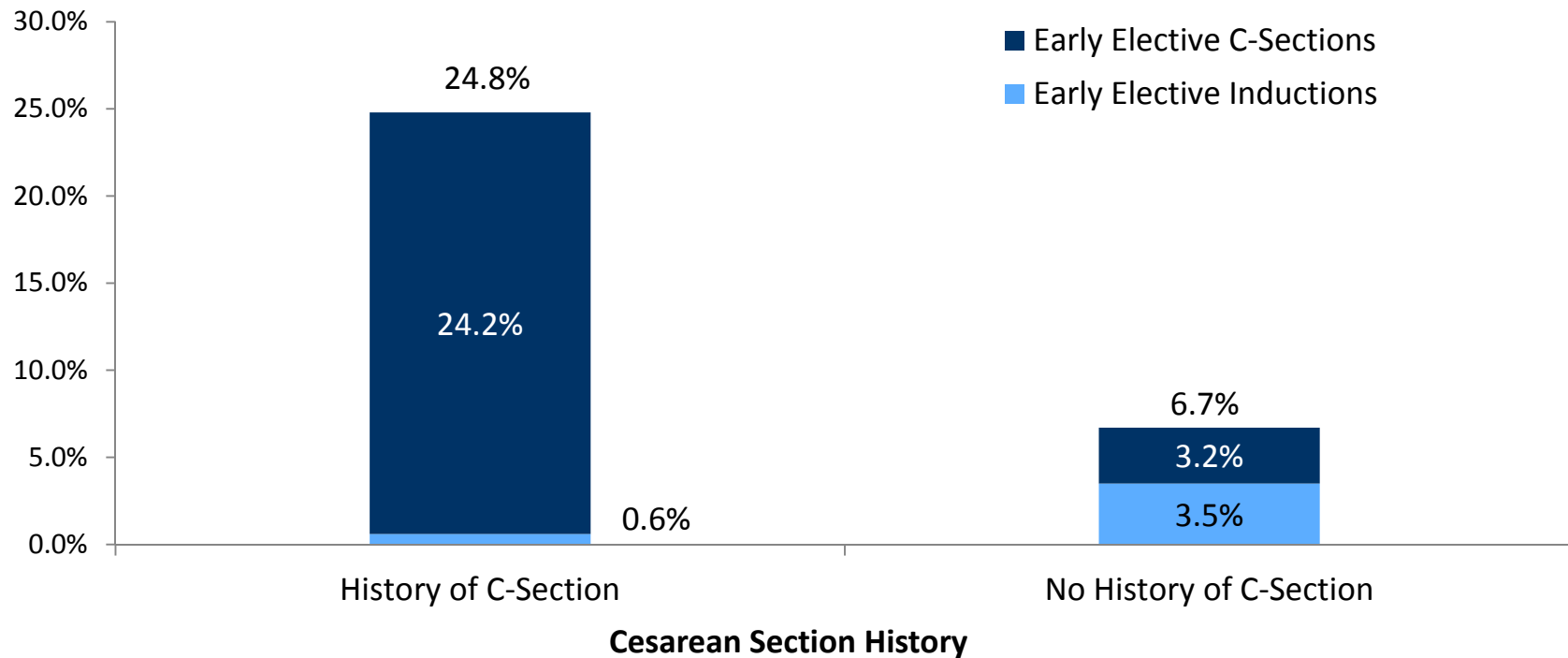
Notes: Data are from 22 states, Medicaid Singleton births, various reporting years 2010-2012. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Early deliveries are those under 39 weeks gestational age.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

C-Section History

Nearly All of the Early Elective Deliveries Among Women with a C-Section History were Early Elective C-Sections

Percentage of Mothers with an Early Elective Delivery by Type, by C-Section History



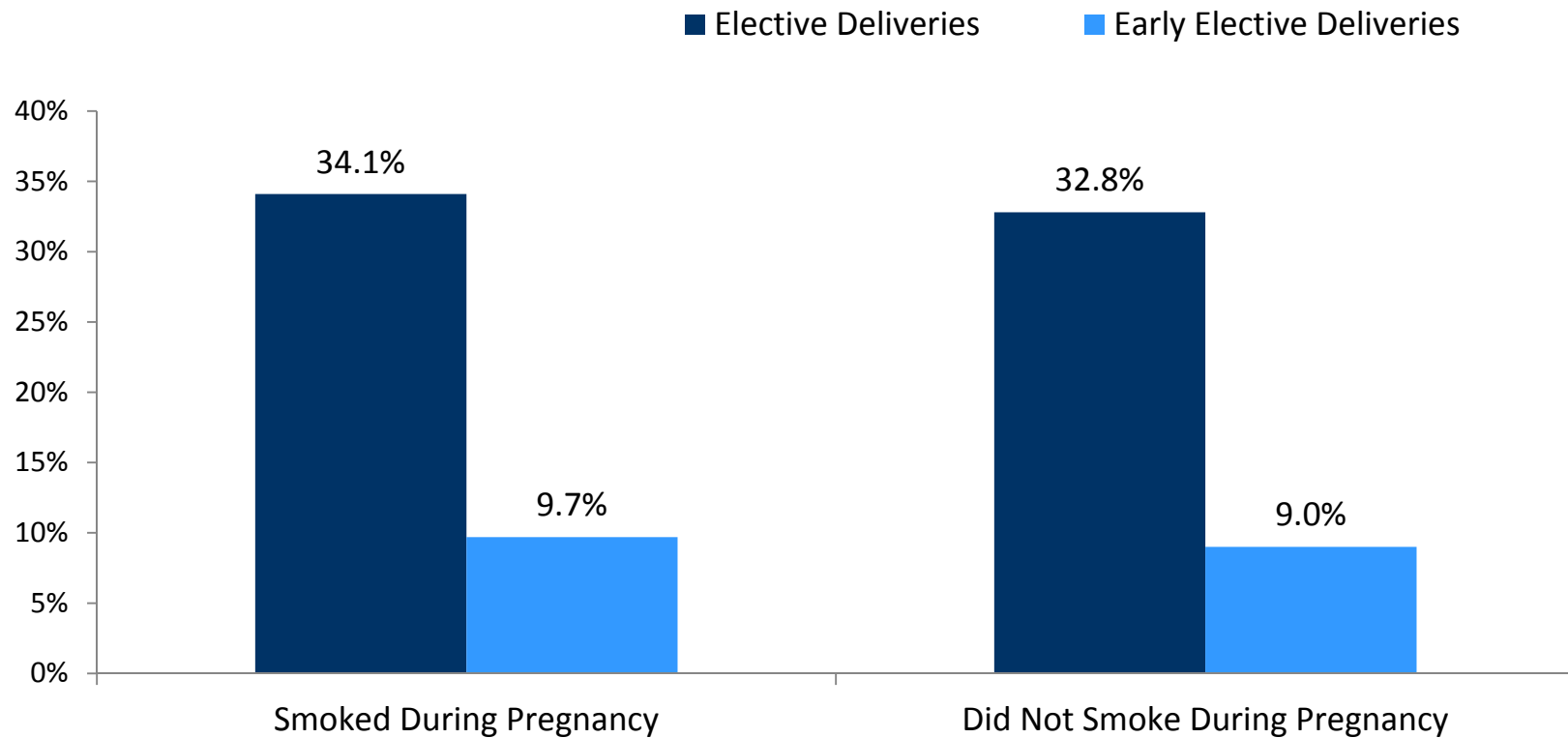
Notes: Data are from 22 states, various reporting years 2010-2012. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Early deliveries are those under 39 weeks gestational age. Totals may not sum due to rounding.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

Mother's Tobacco Use

Rates of Elective Delivery and Early Elective Delivery Were Slightly Higher for Mothers Who Smoked During Pregnancy Compared to Mothers Who Did Not Smoke

Percentage of Mothers who had an Elective Delivery, by Tobacco Use



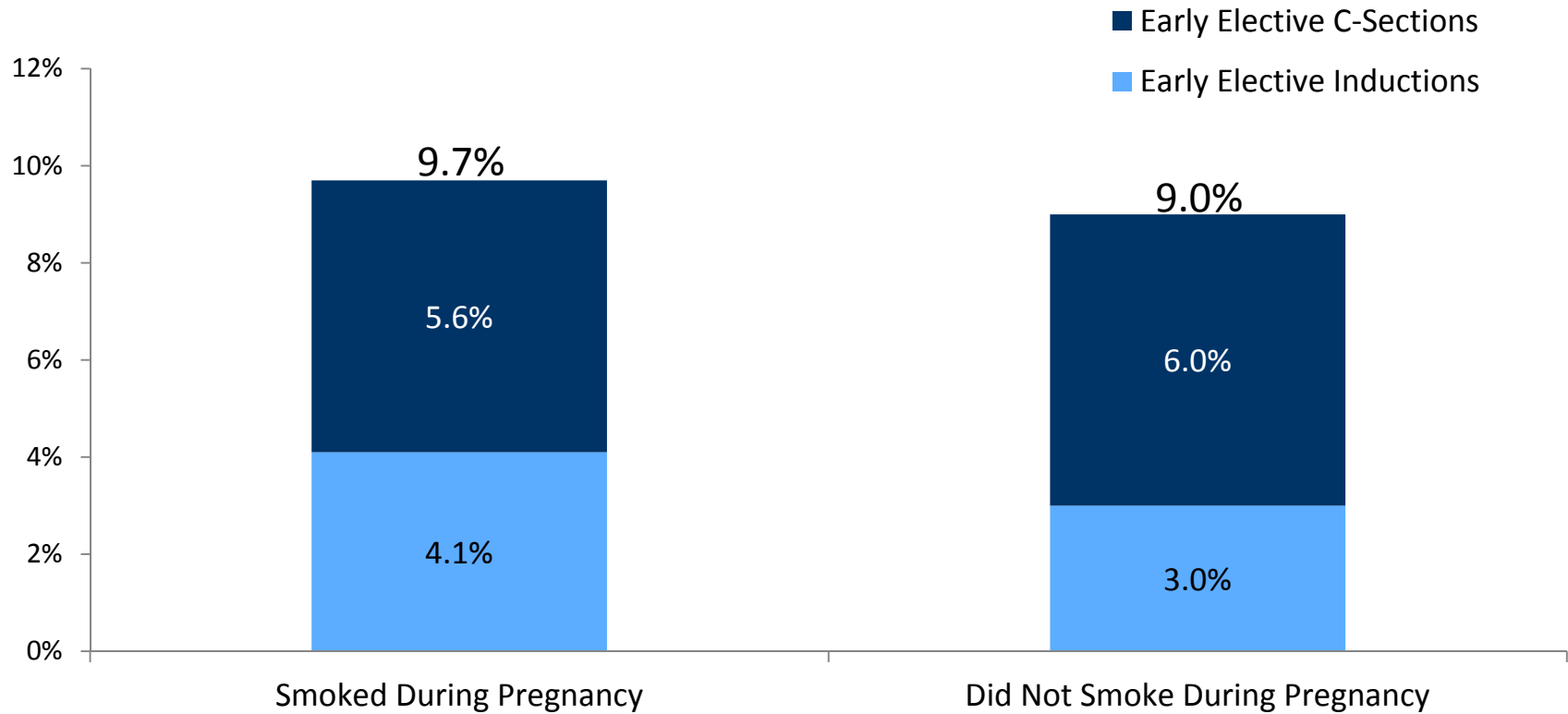
Notes: Data are from 22 states, various reporting years 2010-2012. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Early deliveries are those under 39 weeks gestational age.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

Mother's Tobacco Use

The Rate of Early Elective Induction Was Higher Among Smokers than Non-Smokers

Percentage of Mothers with an Early Elective Delivery by Type, by Tobacco Use



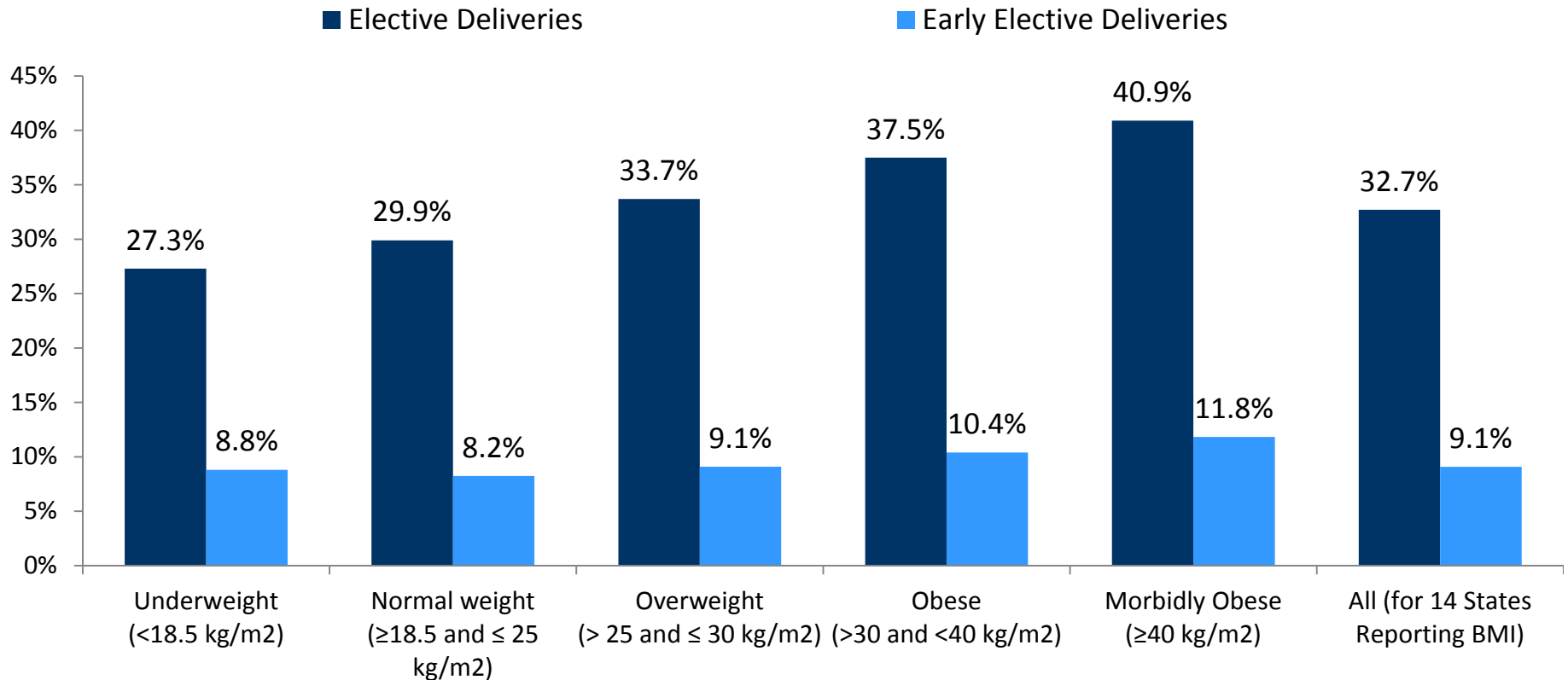
Notes: Data are from 22 states, various reporting years 2010-2012. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Early deliveries are those under 39 weeks gestational age. Totals may not sum due to rounding.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

Pre-Pregnancy Body Mass Index

Mothers Who Were Obese or Morbidly Obese Prior to Pregnancy are More Likely to Have Had an Elective or Early Elective Delivery than Normal or Underweight Mothers

Percentage of Mothers who had an Elective Delivery, by Pre-Pregnancy Body Mass Index



Note: Data are from 14 states (CA, CO, FL, IA, ID, LA, NC, OH, OR, PA, SD, UT, VT, WA); various reporting years 2010-2012.

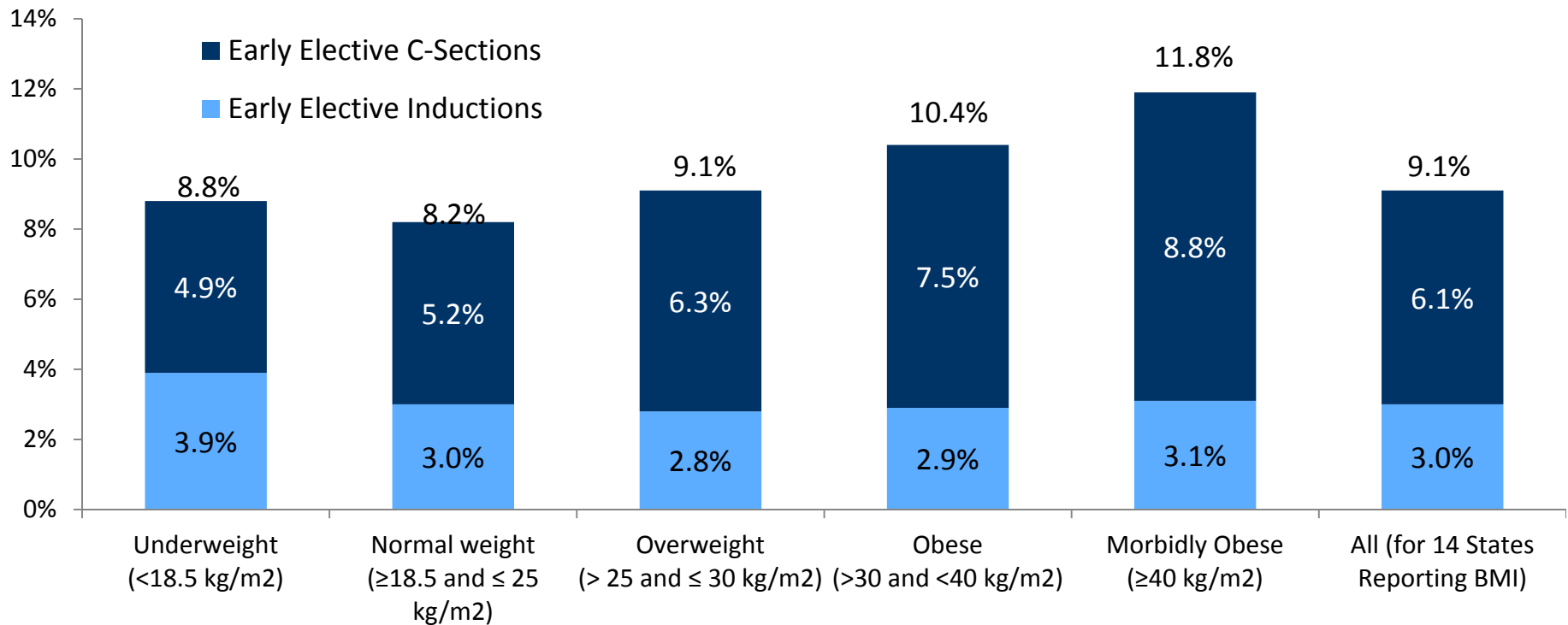
Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Early deliveries are those under 39 weeks gestational age. Totals = 644,608 Medicaid Singleton Births.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

Pre-Pregnancy Body Mass Index

Mothers Who Were Obese or Morbidly Obese Prior to Pregnancy are Much More Likely to Have Had an Early Elective C-Section than Normal or Underweight Mothers

Percentage of Mothers with an Early Elective Delivery by Type, by Pre-Pregnancy Body Mass Index



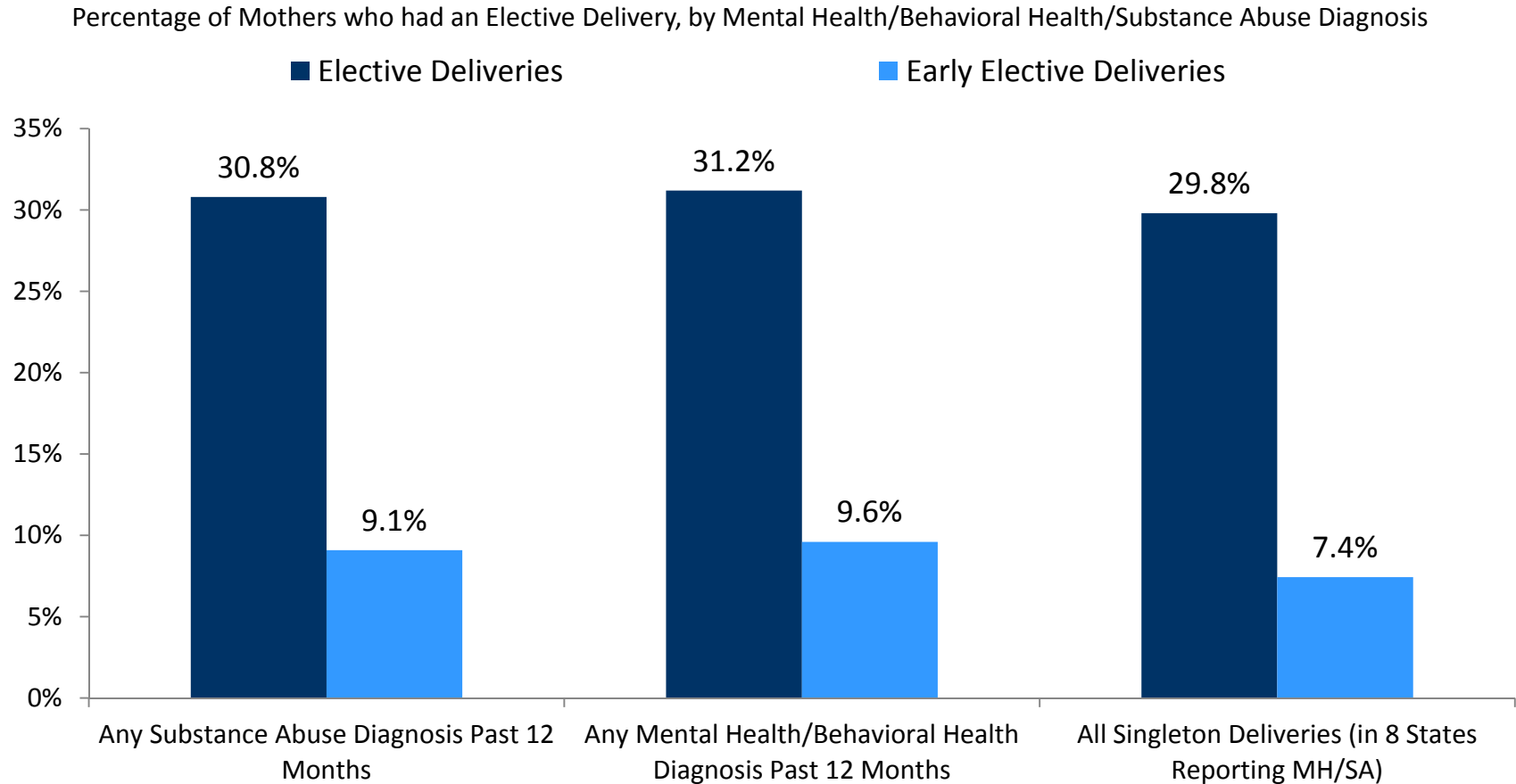
Note: Data are from 14 states (CA, CO, FL, IA, ID, LA, NC, OH, OR, PA, SD, UT, VT, WA); various reporting years 2010-2012. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Early deliveries are those under 39 weeks gestational age. Totals = 644,608 Medicaid Singleton Births.

Totals may not sum due to rounding.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

Mental Health/Behavioral Health/Substance Abuse Diagnosis

Mothers with Any Mental or Behavioral Health or Substance Abuse Diagnosis in Past 12 Months Had Early Elective Deliveries at Above-Average Rates



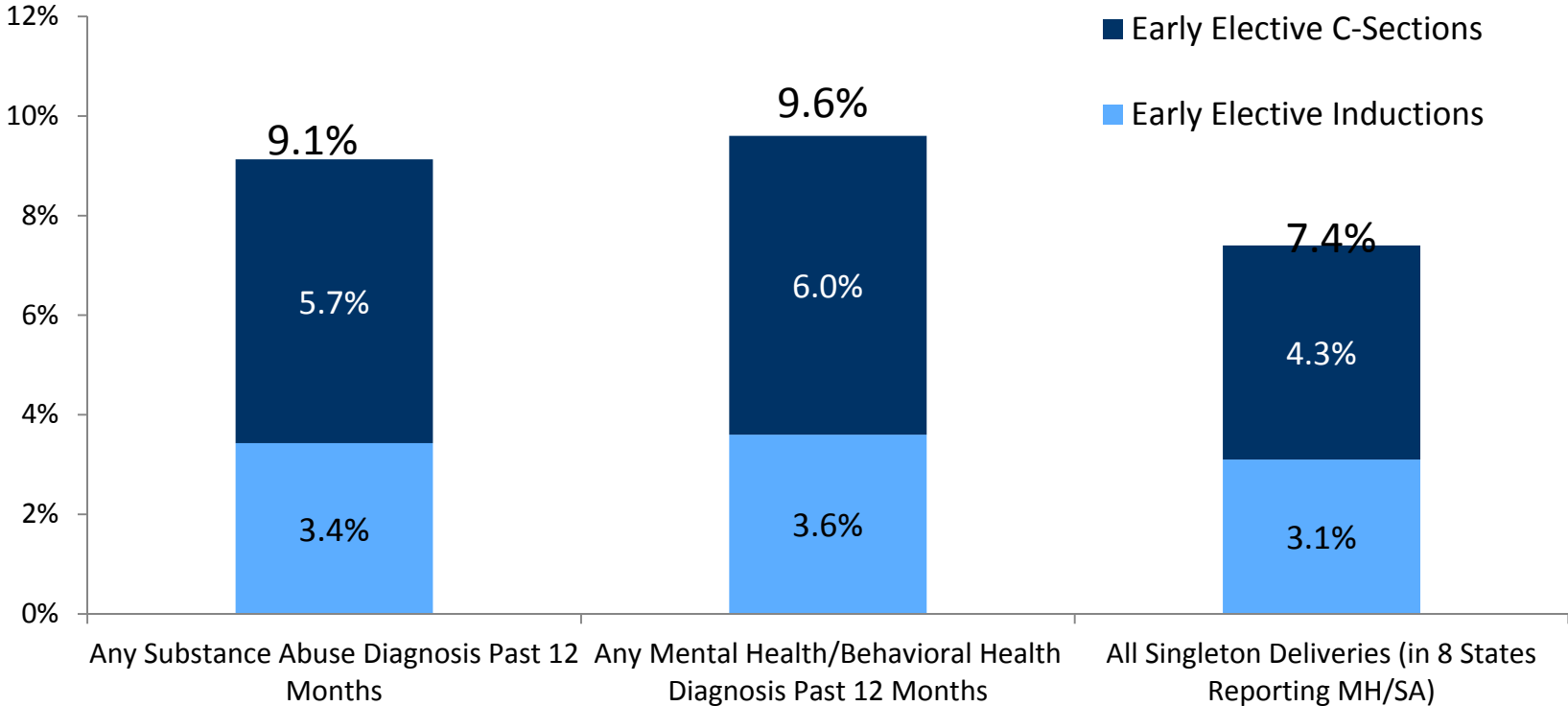
Notes: Data are from 8 states (IA, LA, MN, NC, OR, VT, WA, WI); various reporting years 2010-2012. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Early deliveries are those under 39 weeks gestational age. Totals = 245,295 Medicaid Singleton Births.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

Mental Health/Behavioral Health/Substance Abuse Diagnosis

Rates of Early Elective C-Section Were Higher than Rates of Early Elective Induction for these Mothers

Percentage of Mothers with an Early Elective Delivery by Type, by Mental Health/Behavioral Health/Substance Abuse Diagnosis

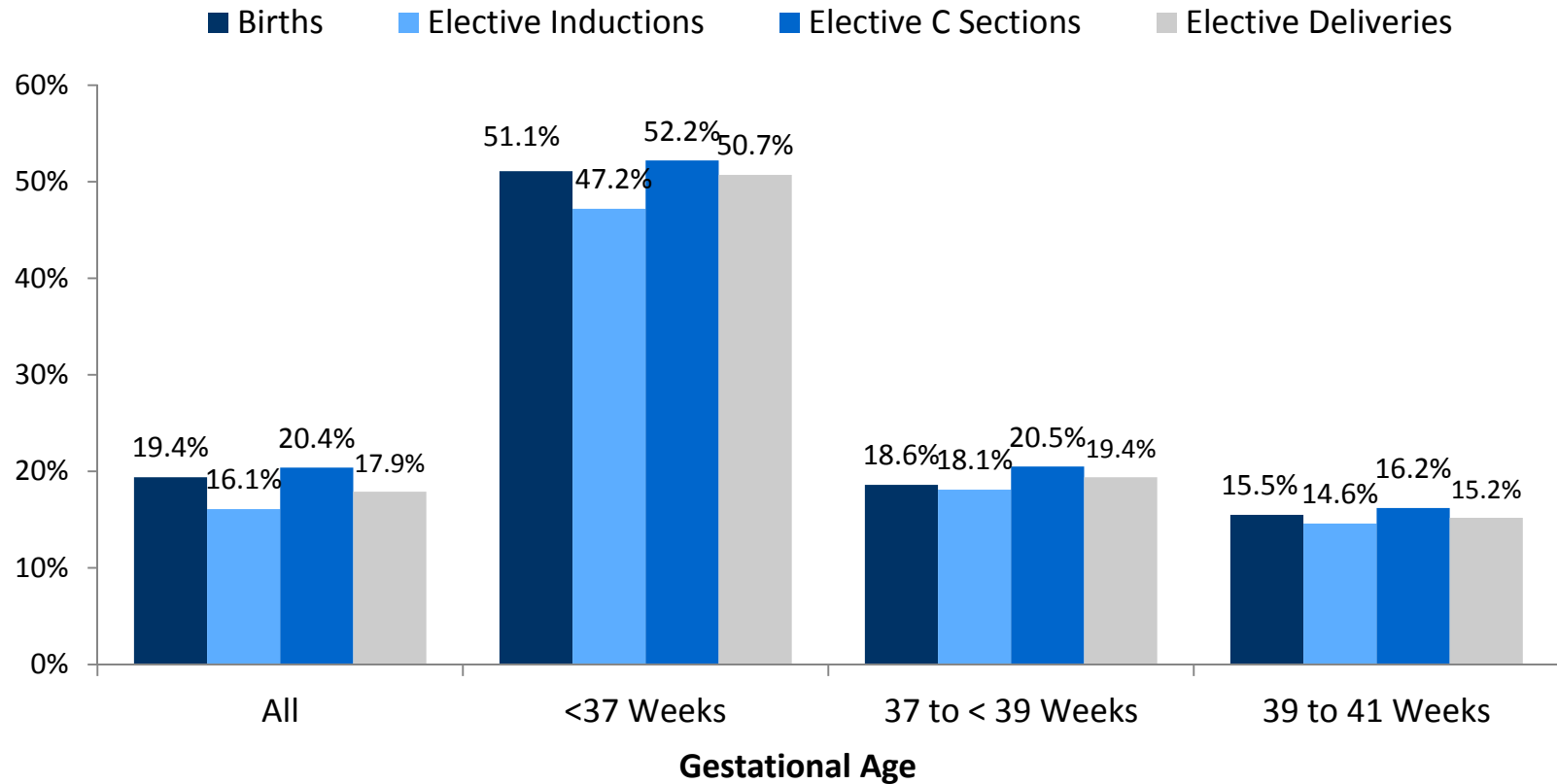


Notes: Data are from 8 states (IA, LA, MN, NC, OR, VT, WA, WI); various reporting years 2010-2012. See Table 1 for reporting years by state. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Early deliveries are those under 39 weeks gestational age. Totals = 245,295 Medicaid Singleton Births. Totals may not sum due to rounding.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

Neonate Admissions by Type of Delivery and Gestational Age

Percentage of Births Resulting in a Neonate Admission

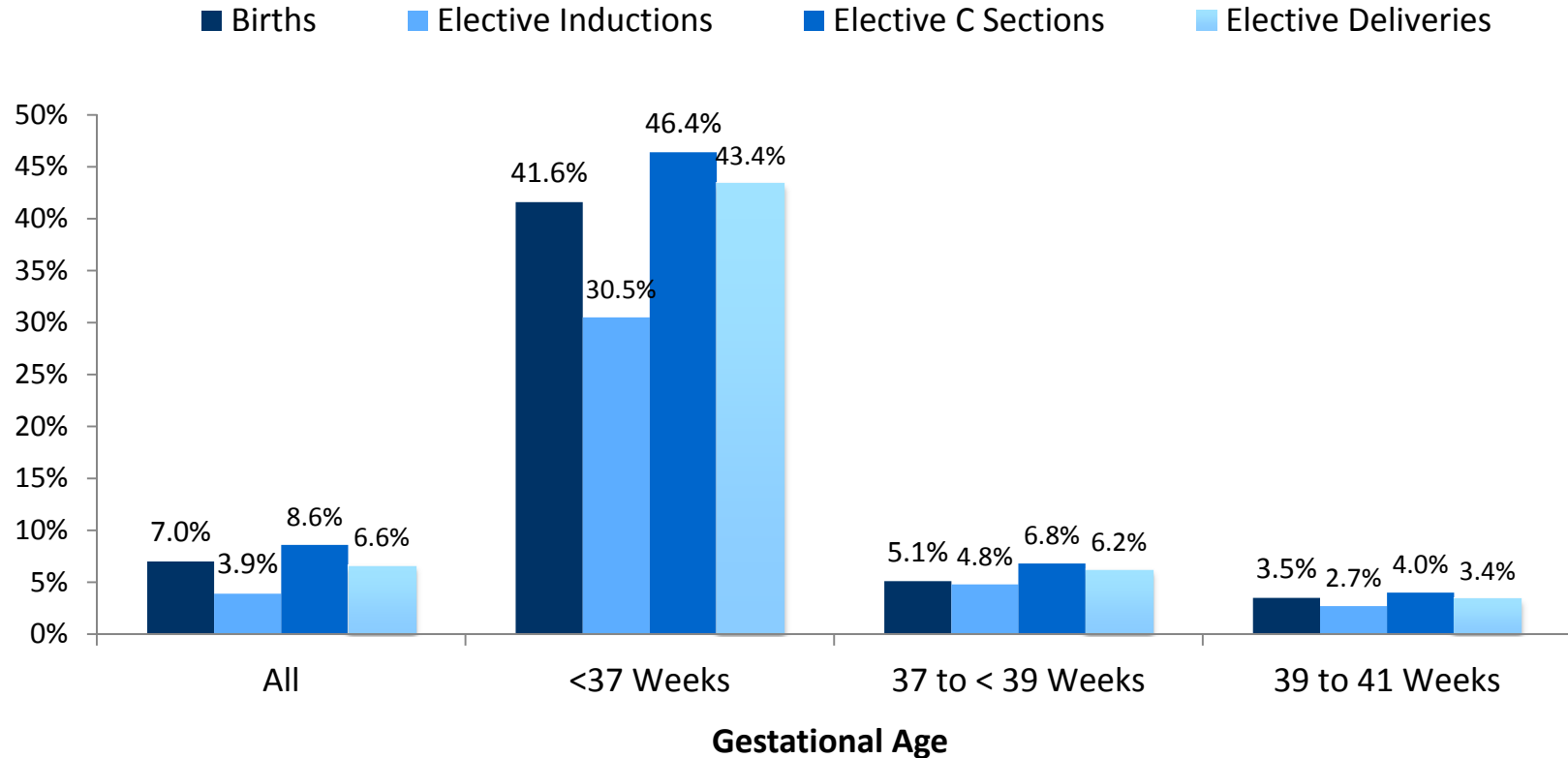


Notes: Data are from 9 States with birth certificate data linked to Medicaid claims (CT, LA, MN, NC, OH, OR, VT, WA, WI) that reported neonate admissions and transfers. Various reporting years 2010-2012. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Totals = 306,170 Medicaid Singleton Births and 59,244 Neonate Admissions and Transfers. Totals may not sum due to rounding and a small percentage of missing values (e.g. missing gestational age or gestational age >41 weeks).

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

Neonatal Intensive Care Unit (NICU) Admissions by Type of Delivery and Gestational Age

Percentage of Births Resulting in a NICU Admission

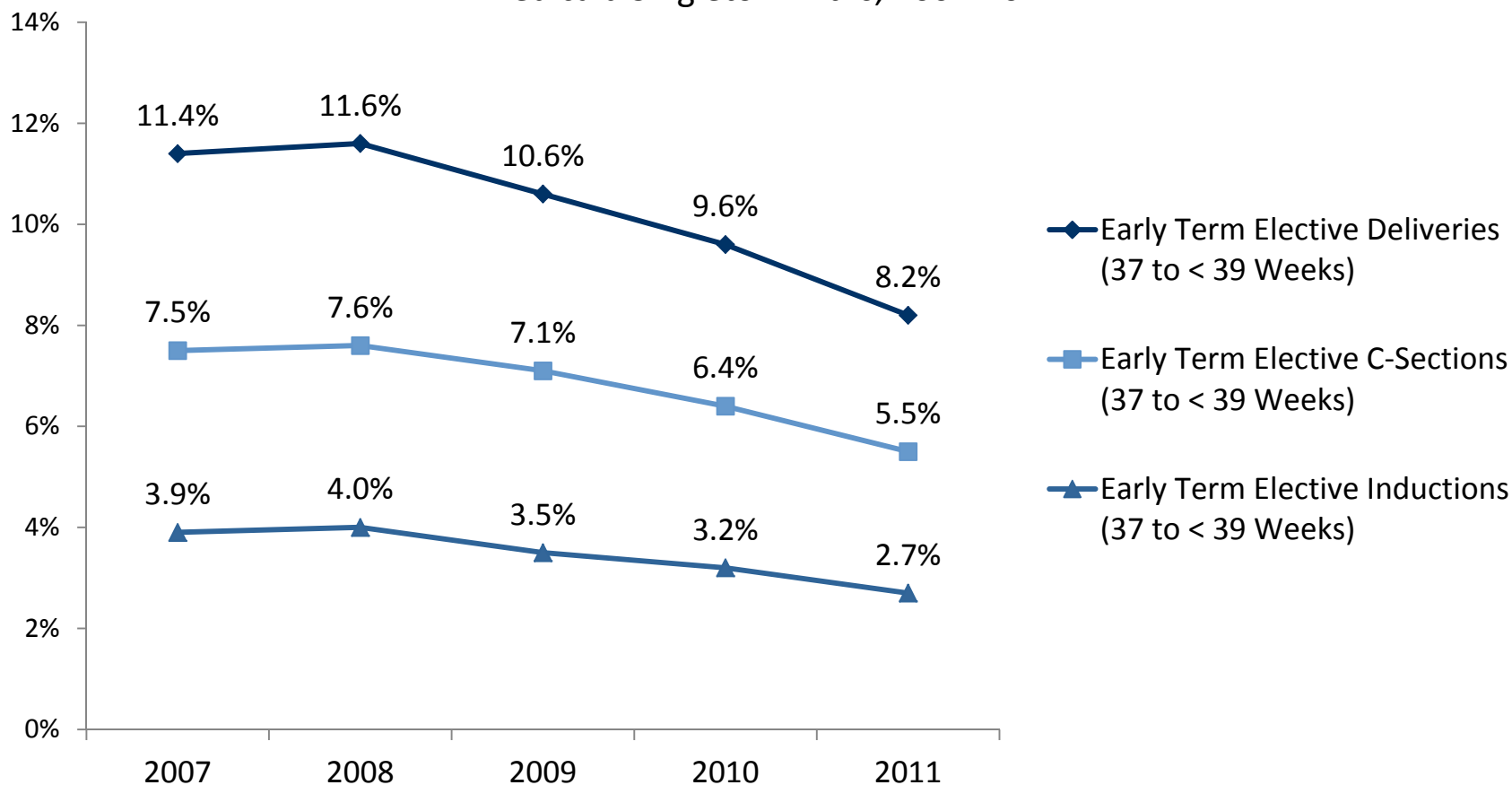


Notes: Data are for 9 states reporting data based on birth certificate only (AL, CA, CO, FL, ID, PA, SD, UT, WV). Various reporting years 2010-2012. Elective deliveries are all C-sections or inductions without a medical indication reported on the birth certificate. Some elective inductions (e.g., 15% of all elective inductions under 41 weeks) result in a C-section; when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction. Totals = 532,837 Medicaid Singleton Births and 36,954 NICU admissions. Totals may not sum due to rounding and a small percentage of missing values (e.g. missing gestational age or gestational age >41 weeks).

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

The Rates of Early Term Elective Inductions and Cesarean Sections Fell Between 2007 and 2011

Trends in Early Term Elective Deliveries (37 to < 39 Weeks) as a Proportion of Medicaid Singleton Births, 2007-2011

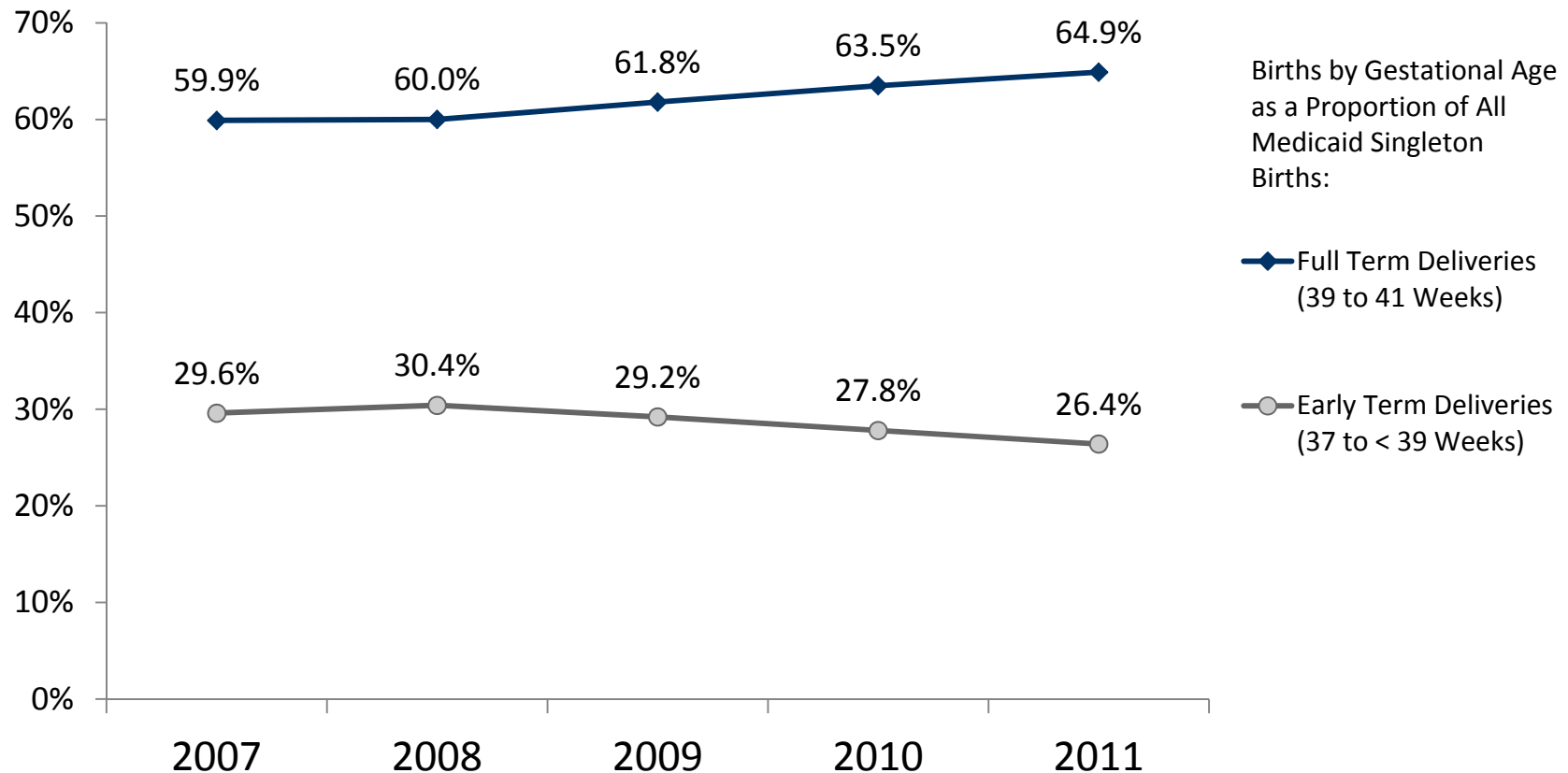


Notes: Data are from 12 states that reported data for each year in the 5-year reporting period (AK, AL, CA, CO, FL, IA, ID, LA, SD, VT, WA, WV). Elective deliveries are all C-sections or inductions without a reported medical indication on the birth certificate. Early elective deliveries are those under 39 weeks gestational age. Some elective inductions result in a C-section (15% across the 22 states in this study); when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.

Over the 5-Year Period, the Proportion of Early Term Births Declined and the Proportion of Full Term Deliveries Increased from 59.9% to 64.9%

Trend in Medicaid Singleton Births by Gestational Age, 2007-2011



Notes: Data are from 12 states that reported data for each year in the 5-year reporting period (AK, AL, CA, CO, FL, IA, ID, LA, SD, VT, WA, WV). Elective deliveries are all C-sections or inductions without a reported medical indication on the birth certificate. Early elective deliveries are those under 39 weeks gestational age. Some elective inductions result in a C-section (15% across the 22 states in this study); when an elective induction and a C-section occur in the same delivery, the delivery is counted as an elective induction.

Source: AcademyHealth analysis of state-reported data for Medicaid Medical Directors' Perinatal Project.