RISING TO THE CHALLENGE:



California Surgeon General Update



Diana E. Ramos, MD, MPH, MBA California Surgeon General

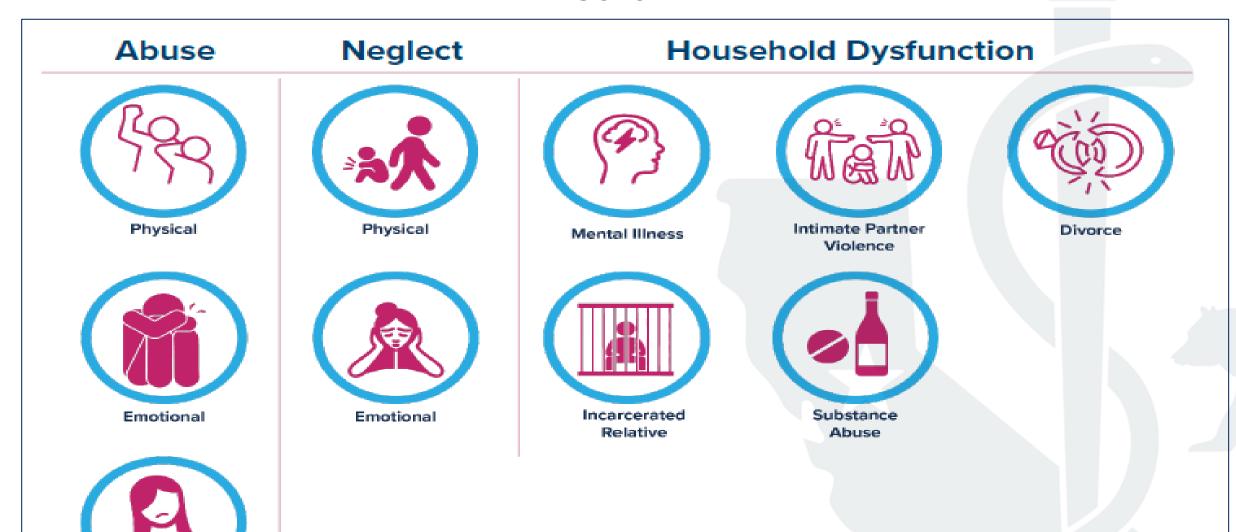
California Conference of Local Health Officers Meeting October 15, 2025





.."serving as a leading spokesperson on matters of public health and driving solutions to our most pressing public health challenges."

Adverse Childhood Experiences (ACEs) and Long-Term Health

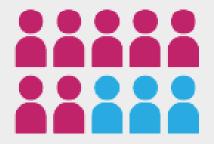


Sexual

Adverse and Positive Childhood Experiences Data Report: Behavioral Risk Factor Surveillance System (BRFSS), 2015-2021: An Overview of Adverse and Positive Childhood Experiences in California.

Prevalence of ACEs among California Adults

In California Adults2:



7 in 10 report at least one ACE.

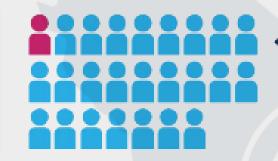


1 in 5 report four or more ACEs.

In California Youth:



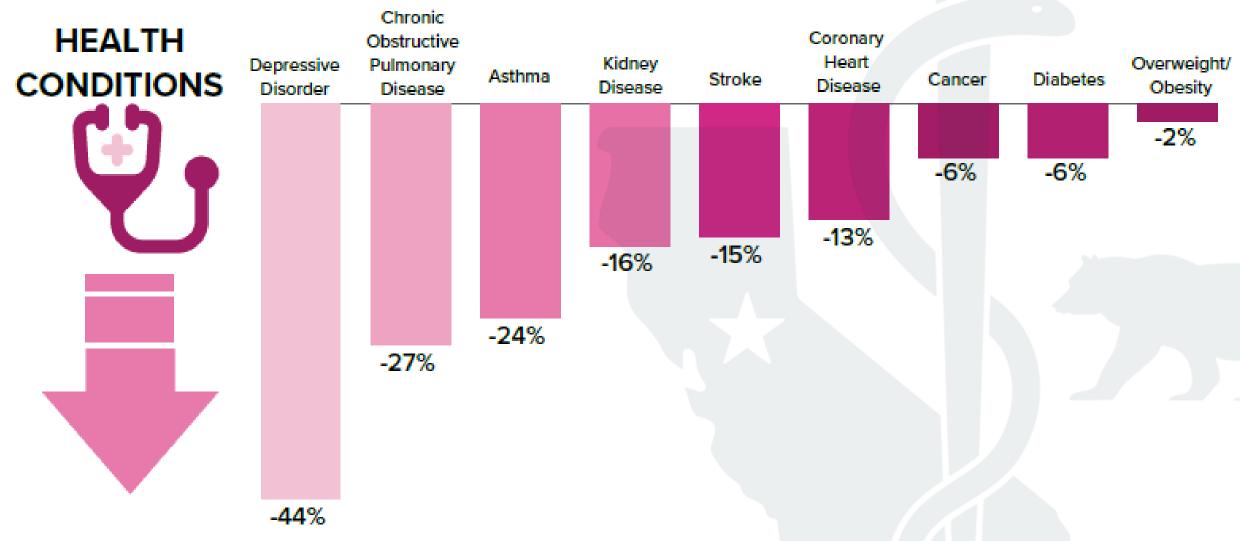
1 in 3 report at least one ACE.



1 in 25
report four or more ACEs.

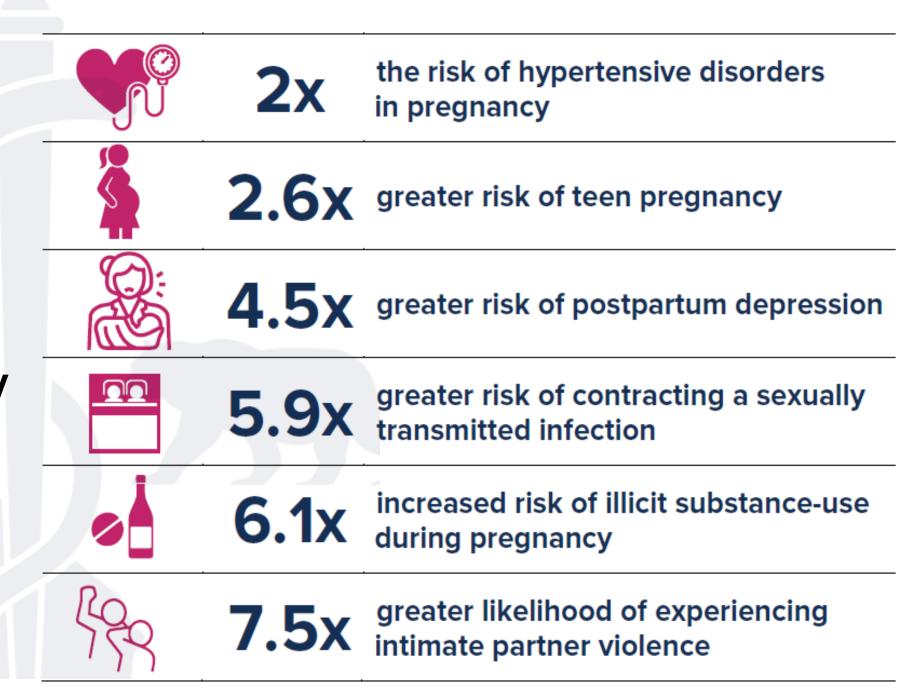


Addressing ACEs in Childhood Can Potentially Decrease



BRFSS 2015-2017, 25 states, CDC Vital Signs, November 2019.

ACEs and
Reproductive
Health: A
Critical Window
for Intervention





Issue Brief:

Addressing Adverse Childhood Experiences During Reproductive Years to Improve Lifelong Health

September 2025



Summary

- Addressing ACEs during reproductive years can disrupt intergenerational cycles of trauma and improve long-term health.
- Reproductive Years are a Critical Window for Intervention, can foster resilience, improve maternal and infant health, and prevent long-term harm.
- Positive Childhood Experiences (PCEs) can strengthen family stability and community health.
- California's Initiatives -ACEs Aware, traumainformed care promote equitable care in underserved populations.



CONCLUSION:

Maternal ACEs were associated with elevated offspring internalizing and externalizing symptoms independently of offspring ACEs.

These findings support the utility of maternal ACE screening in the prenatal period to inform early interventions, services, and referrals to promote maternal health and to potentially disrupt intergenerational transmission of adversity.

Association Between Maternal Adverse Childhood Experiences and Offspring Internalizing and Externalizing Behavior

OBJECTIVE:

To estimate the association between historical maternal adverse childhood experiences (ACEs) and offspring internalizing (ie, depression, anxiety, social withdrawal) and externalizing (ie, aggression, conduct disorders, attention-deficit/hyperactivity disorder) behavior symptoms not explained by offspring ACEs.

METHODS:

This was a retrospective cohort study using childhood adversity data collected from a nationally representative sample of mothers enrolled in the National Longitudinal Survey of Youth 1979 cohort study and their offspring born between 1970 and 2014 who were enrolled in a separate Child and Young Adult cohort. The exposure of maternal ACEs was categorized to assess dose-dependent associations (zero, one, two, or three or more). The outcomes of offspring internalizing and externalizing behavior were assessed from maternal report between age 4 and 14 years using symptom scores from the Behavior Problem Index derived from the Child Behavior Checklist. We fit marginal structural models with robust SEs to estimate the independent association between maternal ACEs and offspring internalizing and externalizing behavior while adjusting for offspring ACEs and other selected covariates.

RESULTS:

Among 5,445 offspring born to 2,792 mothers, 60.0% of the offspring were born to mothers who reported no ACEs, 23.2% to mothers who reported one ACE, 10.4% to mothers who reported two ACEs, and 6.5% to mothers who reported three or more ACEs. Mothers with more ACEs more frequently gave birth at younger ages, were less frequently married, and had lower educational attainment. In models adjusted for offspring ACEs, one, two, and three or more maternal ACEs were independently associated with a 1.81- (95% CI, 0.87–2.75), 2.07- (95% CI, 0.71–3.43), and 2.68- (95% CI, 1.00–4.36) point increase in offspring internalizing score and a 1.78- (95% CI, 0.83–2.73), 3.08- (95% CI, 1.74–4.41), and 3.30- (95% CI, 1.47–5.13) point increase in offspring externalizing score, respectively, suggesting a dose-response association.

CONCLUSION:

Maternal ACEs were associated with elevated offspring internalizing and externalizing symptoms independently of offspring ACEs. These findings support the utility of maternal ACE screening in the prenatal period to inform early interventions, services, and referrals to promote maternal health and to potentially disrupt intergenerational transmission of adversity.

McConnell, Krystle PhD, MPH; Gleason, Jessica PhD, MPH; Shenassa, Edmond ScD. Association Between Maternal Adverse Childhood Experiences and Offspring Internalizing and Externalizing Behavior. Obstetrics & Gynecology 146(2):p 267-273, August 2025.

PRIORITY



ADVERSE CHILDHOOD EXPERIENCES AND TOXIC STRESS

Positive Childhood Experiences (PCE) Can Buffer Adversity

Ability to talk with family about feelings

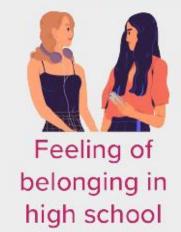


Feeling support from friends





difficult times



The more
PCEs a child gets,
the better their
adult mental
health.

Positive Childhood Experiences (PCE) Can Buffer Adversity

Enjoyment of participation in community traditions



Feeling safe and protected by an adult in the home

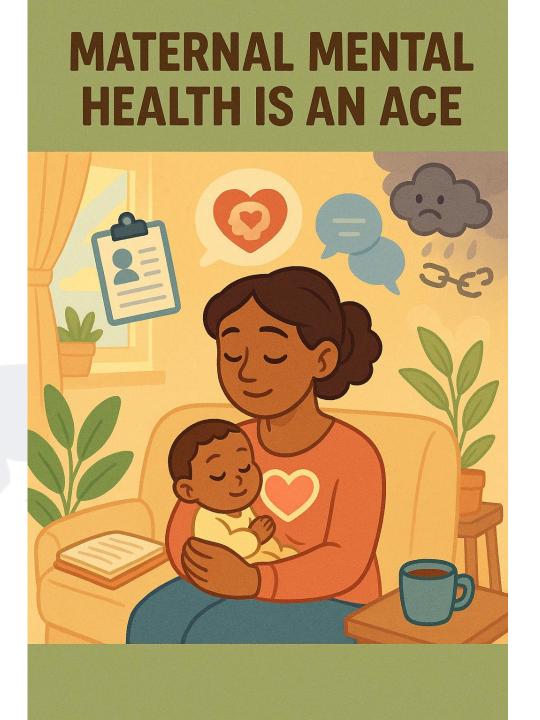






Just one caring, safe relationship early in life The more
PCEs a child gets,
the better their
adult mental
health.









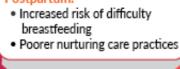
Adolescents:

- · High rates of suicide
- Increased risk of mental illness during puberty



- Disruptions in maternal-infant bonding and attachment
- Reduced ANC / PNC Attendance
- · Inadequate nutritional intake
- . Increased risk of preterm birth
- · Increased risk of preeclampsia







Children:

- Increased risk of stunting and underweight
- Increased risk of poor cognitive development
- Increased episodes of diarrhea and childhood illnesses
- · Lower immunization rates

Impact of Maternal Depression: An Adverse Childhood Experience

Increased risk in child:

Depressive symptoms

Anxiety

Aggression

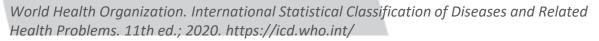
Hyperactivity

Temperament issues



- · Increased risk of mortality
- · Increased risk of LBW
- Lower rates of exclusive breastfeeding

McDonald SW, et al Maternal adverse childhood experiences, mental health, and child behavior at age 3: the all our families community cohort study. Prev Med. 2019;118:286–294.



What can be done in the community and at home?



Support New Mom's Mental Health

1 IN 5 People in California experience depression during & after pregnancy



Look for changes in behavior



Listen for harmful words



Provide words of support



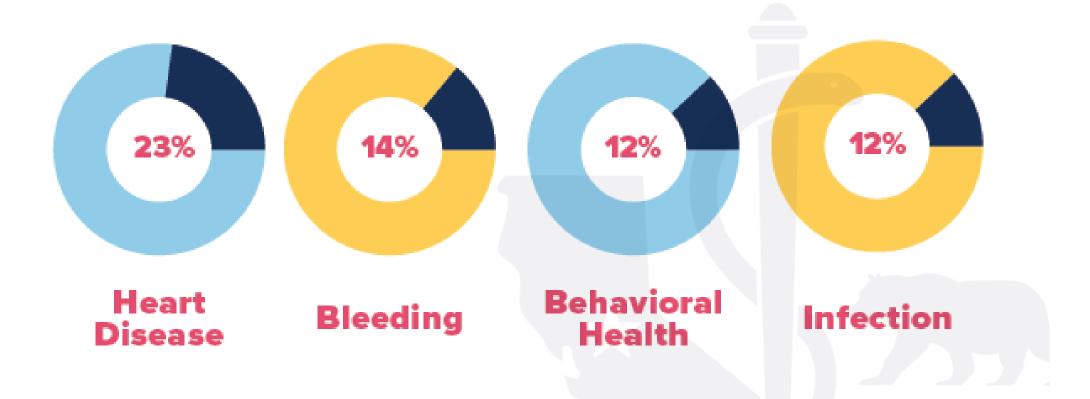
Direct to places of support and care

It's okay to have the conversation.





Pregnancy-Related Causes of Death California 2013-2021



Behavioral Health causes, associated with 10-15% of pregnancy-related deaths from medical causes

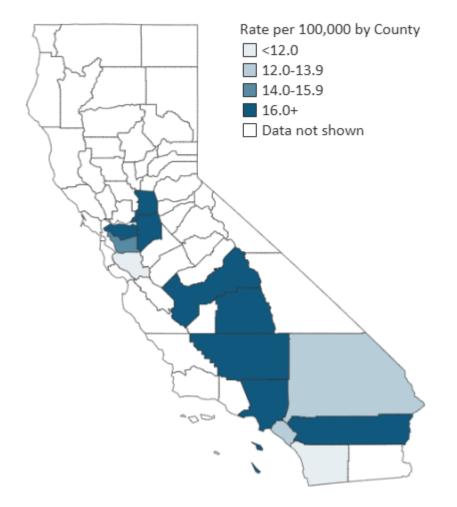
Pregnancy-related deaths include deaths within a year of pregnancy from causes related to or aggravated by the pregnancy or its management, as determined by expert committee review. Abbreviations: CVD = Cardiovascular disease; Hem = Hemorrhage; Inf = Sepsis or infection; HDP = Hypertensive disorders of pregnancy; AFE = Amniotic fluid embolism; TPE = Thrombotic pulmonary embolism; CVA = Cerebrovascular accident; Anes = Anesthesia complications; Other = Other medical condition(s). *Note: Deaths with undetermined cause were excluded from analysis (n=2).*

Pregnancy-associated (P-A) deaths include deaths from any cause while pregnant or within one year of the end of pregnancy. P-A deaths were identified by linking the California vital records, patient discharge data, emergency department data, and ambulatory surgery center data (2013-2021). These linked data were supplemented with information from coroner and autopsy reports and medical records to verify the decedent's pregnancy status and grouped cause-of-death classifications from ICD-10 codes in the California death certificate data. Pregnancy-relatedness was determined by expert committee review.

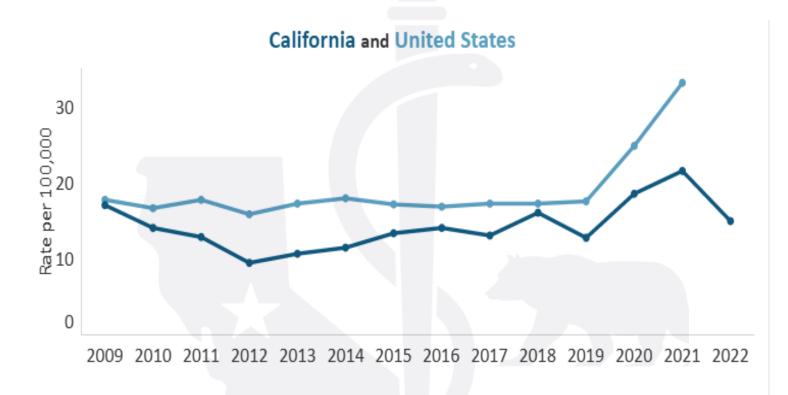
^{*} Excludes COVID-19 Infection

15.0

Pregnancy-Related Mortality Ratio 2022



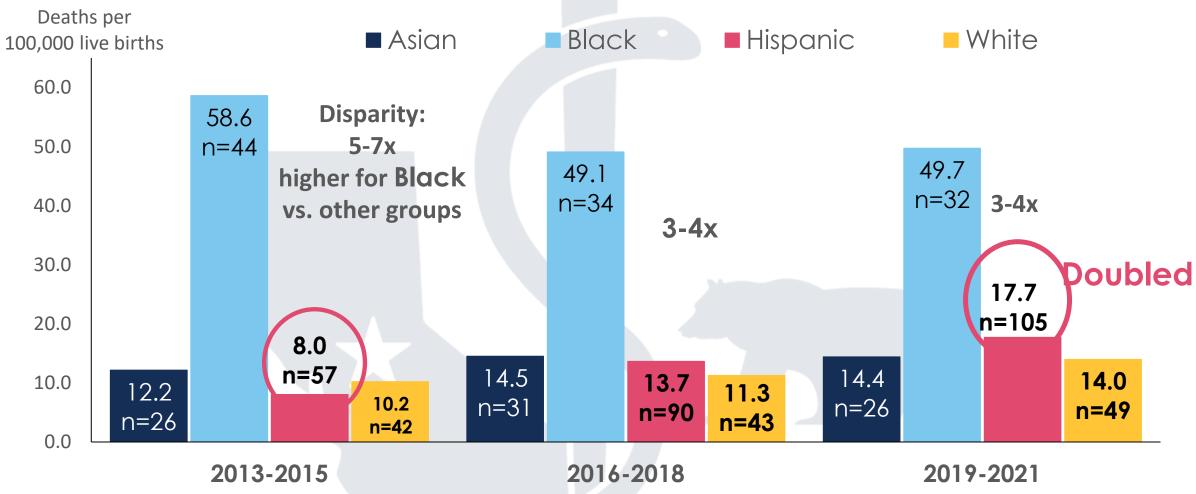






Over 80% of California Maternal Deaths are *Preventable*

Pregnancy-Related Mortality Ratio by Race/Ethnicity California 2013 – 2021



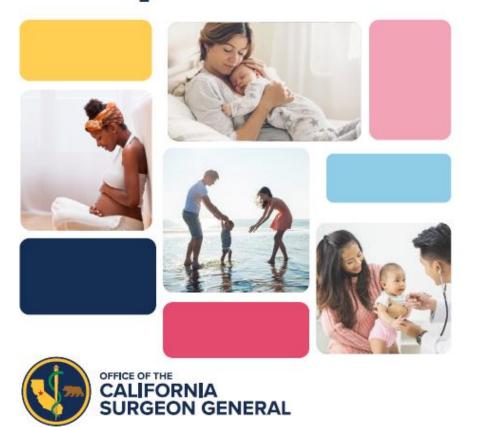
Pregnancy-related mortality ratio (PRMR) = Number of pregnancy-related deaths per 100,000 live births. Pregnancy-related deaths include deaths within a year of pregnancy from causes related to or aggravated by the pregnancy or its management, as determined by expert committee review. PRMRs for American Indian/Alaska Native(n=0,0,1 for 2013-2015, 2016-2018, and 2017-2019, respectively), Native Hawaiian/Pacific Islander (n=0,1,3 for 2013-2015, 2016-2018, and 2017-2019, respectively), Multiple-race (n=8,4,10 for 2013-2015, 2016-2018, and 2017-2019, respectively), and other races (n=0,1,0 for 2013-2015, 2016-2018, and 2017-2019, respectively) are not shown due to small counts.

Pregnancy-Related Mortality

- Less healthy
- Older age
- Less thank high school education
- Coverage by Medi-Cal or other government coverage
- Obese III*

*(BMI) of 40 or higher, or a BMI of 35 or higher along with a serious weight-related health condition

California's Maternal Health Blueprint 2024



Strong Start and Beyond Goals

Reduce maternal mortality 50% by December 2026

Educate and empower individuals on their reproductive health



Pregnancy-Related Deaths by Timing of Death California 2013-2021 (N=607)

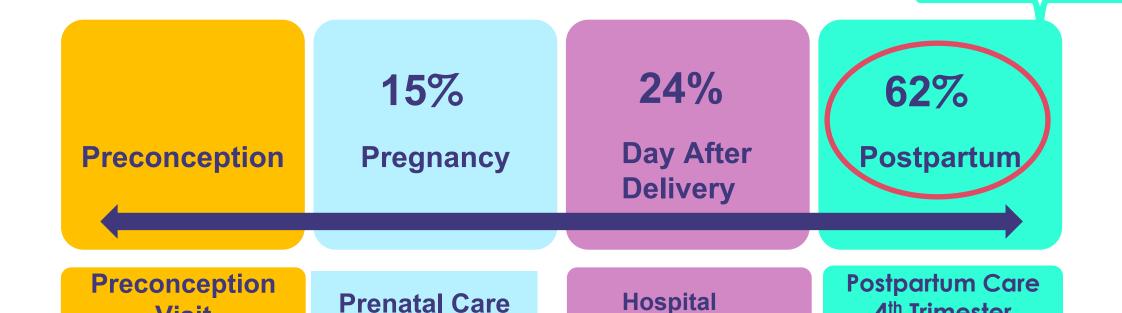
Visit

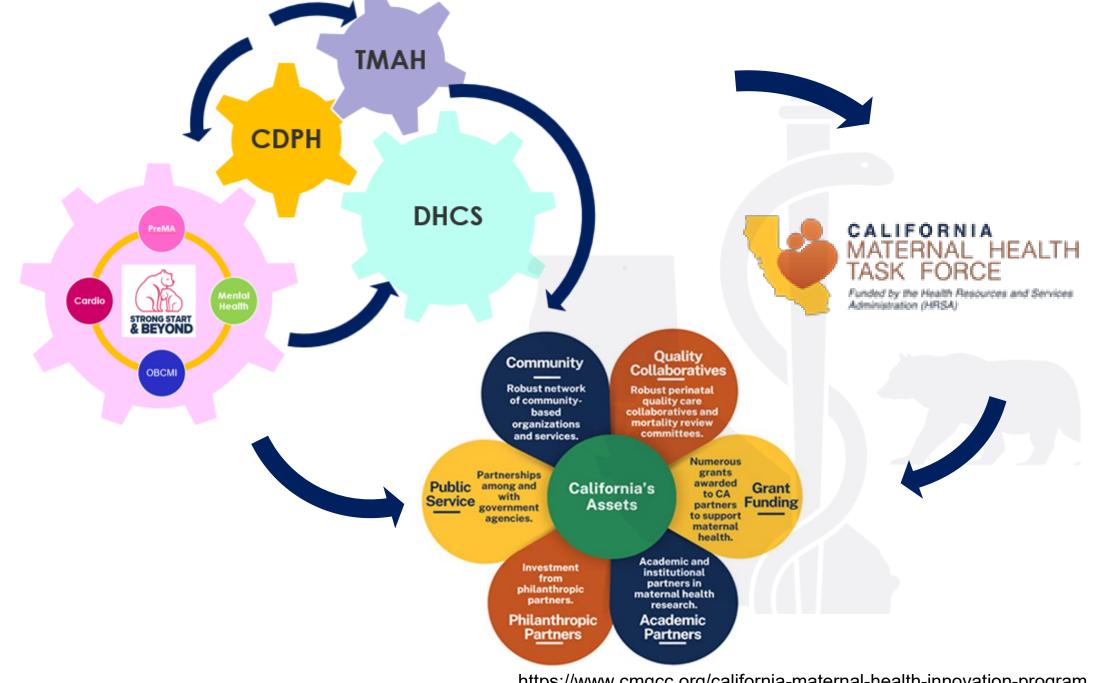
1-6 Days 25%

7-24 Days 22%

43-365 Days 15%

4th Trimester





https://www.cmqcc.org/california-maternal-health-innovation-program

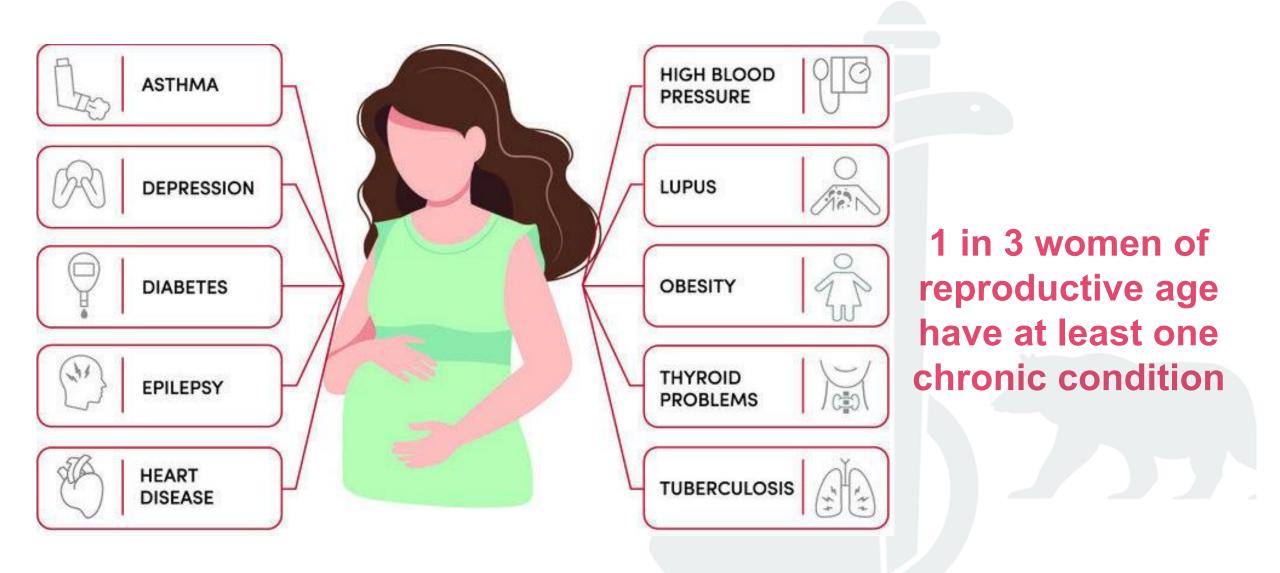
Medi-Cal Births & Coverage

- <u>11</u> percent of all births in the United States occur in California.
- yample 20 percent of all California births per year are covered by Medi-Cal.
- 72 percent of pregnant and postpartum Medi-Cal members are enrolled in an MCP.

CA Birthing Care Pathway Report 2025







Thinking About Having a Baby?



Your health and well-being are important. Let's make sure you are strong and ready, so when you do decide to get pregnant, you'll be set to feel your best.

Take the PreMA (Preconception Medical Assessment) Quiz

- Were you born with a heart problem, or do you currently have a heart problem that needs medical attention?
- Have you ever been told that your heart is not working well. or do you have a heart problem?
- Has a doctor told you that you have high blood pressure?
- Has a doctor told you that you have diabetes?
- Have you ever been diagnosed with a lung disease, or do you have a history of breathing problems?
- Do you take any medicine that was not prescribed to you by a doctor, like illegal drugs or prescription medicine for reasons other than your health?
- Have you ever had a surgery on your stomach or intestines, or do you have a problem with your digestive system?
- Have you ever been in the hospital or needed treatment because you drank too much alcohol?

Tips for Everyone

- · Get a preconception visit to review overall health and existing medical conditions.
- Review medications, including over-the counter and herbal supplements.
- Family planning can give you extra time to get healthy before pregnancy.
- · Go to all your prenatal and postpartum visits.
- In partnership with your medical provider, create a pregnancy plan for a healthy pregnancy and a healthy baby.

Always remember to trust your body. If you do not feel right, seek care right away.

4+ yes. For the healthiest baby, your health requires closer and more attention before and during pregnancy. You may have chronic health conditions that require extra attention in pregnancy. See a health care provider at least 6 months prior to trying to become pregnant. You may need more tests, new medications or to see a specialist before and during pregnancy. During delivery you may need extra medical attention.

1-3 yes. For the healthiest baby, your health will probably require more attention before pregnancy. See a health care provider at least 3 months before trying to become pregnant and create a pregnancy plan. You may need more tests, new medications or see a specialist before and during pregnancy.

O yes. For the healthiest baby, follow the Tips for Everyone suggested above.





PremaCA.org

Simple 8 question quiz

One Goal decrease maternal mortality

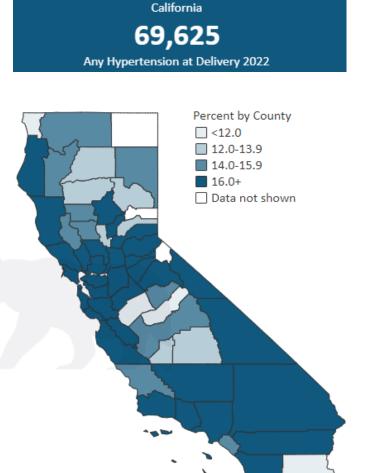
> Conversation starter



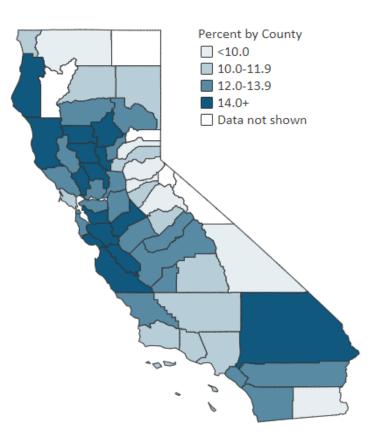
CARDIOVASCULAR RISK FACTORS IN PREGNANCY & POSTPARTUM



- Hypertension
- Diabetes
- Obesity
- Congenital Heart Disease







Consensus Statement
Alliance for Innovation on
Maternal Health
Consensus Bundle on
Cardiac Conditions in
Obstetric Care

Most people who died from cardiac conditions during pregnancy or postpartum

-not diagnosed with a cardiovascular disease before death

-had underlying risk factors

-had presented with signs and symptoms suggestive of cardiac disease

Afshan B. Hameed, MD, Alison Haddock, MD, et.al

More than 80% of all pregnancy-related cardiovascular deaths, regardless of cause, were preventable





Innovative Cardiovascular Improvement Strategies

Bridging Grassroots and System-Level Efforts

Community-driven paired with policy-level support Shared electronic medical information with EMS (Emergency Medical Service) in the field with local emergency rooms

Leveraging Precision Medicine for Equitable Outcomes

Identify high-risk individuals early and provide targeted support i.e.

Cell-free RNA test to predict preeclampsia risk
Al to inform cardiovascular treatment decisions
Apps to bridge health education and community resources

Utilizing Trusted Local Resources for Community-Based Care

Trusted community network in expanding maternal health outreach, i.e. Head Start YMCAs, libraries, and faith-based organizations can access points for screenings, health education, and resources



Pregnancy is a Window to Future Health

High Blood Pressure 63% increased risk future cardiovascular

Diabetes 20%-50% will develop type 2 diabetes later in life

Depression increased risk for suicide

Stuart JJ, et al. Cardiovascular Risk Factors Mediate the Long-Term Maternal Risk Associated With Hypertensive Disorders of Pregnancy. J Am Coll Cardiol. 2022 May 17;79(19):1901-1913.

Li L, et. al. Gestational Diabetes, Subsequent Type 2 Diabetes, and Food Security Status: National Health and Nutrition Examination Survey, 2007–2018. Prev Chronic Dis 2022;19:220052

Yu H, Shen et al. Perinatal Depression and Risk of Suicidal Behavior. JAMA Netw Open. 2024;7(1):e2350897.

Maternal Condition	Points	Comments
Preeclampsia with Severe Features* or Eclampsia	5	
Preeclampsia / Gestational / Chronic Hypertension	2	
Congestive Heart Failure	5	
Pulmonary Hypertension	4	
Ischemic Heart Disease / Cardiac Arrhythmia	3	
Congenital Heart and/or Valvular Disease	4	
Multiple Gestation	2	
Intrauterine Fetal Demise	2	
Placenta Previa / Suspected Accreta / Abruption	4	
Previous Cesarean Delivery / Myomectomy	1	
Autoimmune Disease / Lupus	2	
HIV/AIDS	2	
Sickle Cell Disease / Bleeding Disorder / Coagulopathy / Anticoagulation	3	
Epilepsy / Cerebrovascular Accident / Neuromuscular Disorder	2	
Chronic Renal Disease	1	
Asthma	1	
Diabetes on Insulin	1	
Maternal Age > 44	3	
Maternal Age 40-44	2	
Maternal Age 35-39	1	
Substance Use Disorder	2	
Alcohol Abuse	1	
BMI > 50	3	
BMI > 40	2	
*Severe Features: Systolic BP ≥ 160, diastolic BP ≥ 110, creatinine > 1.1, oliguria (<30 cc/hr), elevated AST or ALT, platelets < 100,000, persistent epigastric pain, headache, or scotomata, placental abruption.	Total:	MD Notified:

Obstetric Comorbidity Index

Prospectively identify at risk of severe maternal morbidity in a clinical setting

Identify need for increased surveillance or transfer of care in an attempt to prevent adverse maternal outcomes

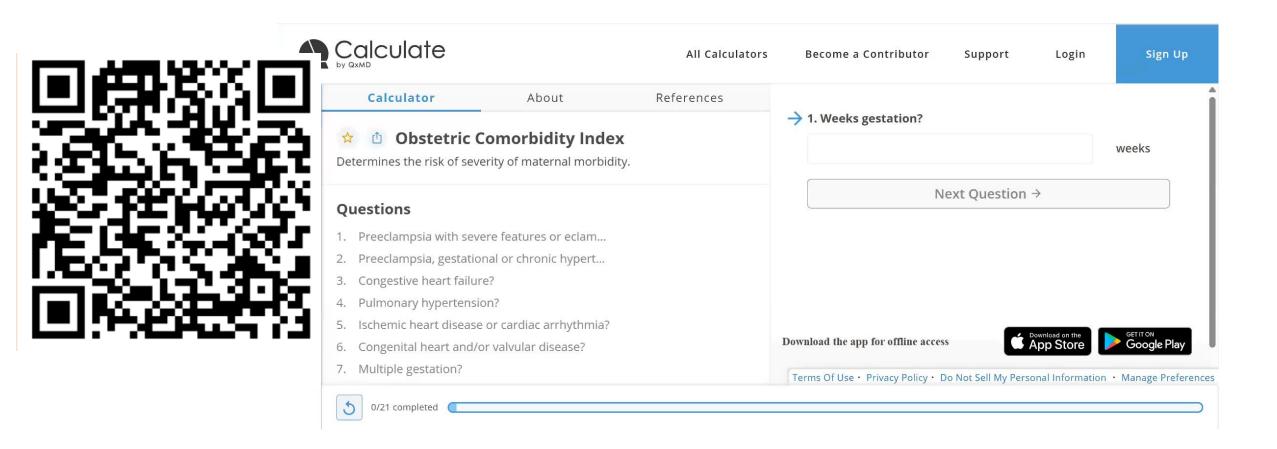
Instructions for Use:

- 1) Circle comorbidities present in your patient and tally score at bottom.
- 2) Does this patient have any other high-risk features you think should be added to the list?
- 3) Notify Responding Clinician for patients with OB-CMI score > 6 or with any other concerns.
- 4) Document the OB-CMI score in the nursing handoff template.
- 5) Place completed sheet in locked bin behind desk.

RN	Date	Time
1717		THITC

Easter, Sarah Rae et al. Prospective clinical validation of the obstetric comorbidity index for maternal risk assessment. American Journal of Obstetrics & Gynecology, Volume 220, Issue 1, S198 - S199

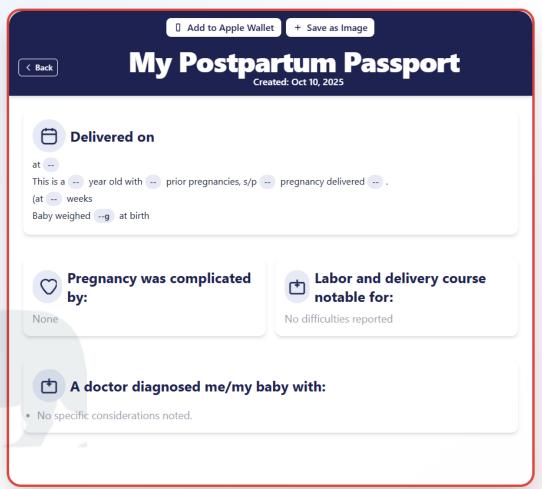
Obstetric Comorbidity Index



Sarah Rae Easter, Brian T. Bateman, Valerie Horton Sweeney, Karen Manganaro, Sarah C. Lassey, Joshua J. Gagne, Julian N. Robinson. American Journal of Obstetrics and Gynecology; Volume 221, Issue 3, 2019, Pages 271.e1-271.e10, ISSN 0002-9378,

Coming Soon: Discharge Summary





Fourth Trimester: "One Small Thing"



Partners:

- Community Connections
- Girl Scout Badge
- Social Media Push
- Coupon Book





PreMA:

Community promotion MIHA question

Mental Health/Behavioral Health

One Small Thing Girl Scout Badge Calm



Cardiovascular

Personal, Healthcare, Community

OB Co-Morbidity Index

On admission to Labor & Delivery, assess for risk for ICU admission or c-section

MY TIME IS ALMOST UP

BUT THE WORK CONTINUES



THANK YOU

OSGInfo@osg.ca.gov

