Alameda County Maternal & Infant Health Indicators

Alameda County Public Health Department Health Care Services Agency April, 2025







Our Vision of Health Equity

everyone in Alameda County —
no matter who you are,
where you live,
how much money you make,
or the color of your skin —
can lead a healthy,
fulfilling and productive life.



Table of Contents

Definitions

Births

Perinatal & Maternal Health

Infant Health

Neighborhood Poverty

Breastfeeding & Infant Sleep

Perinatal Mental Health

Structural Drivers

Resources

Maternal, Paternal, Child, and Adolescent Health (MPCAH) Purpose and Values

Mission

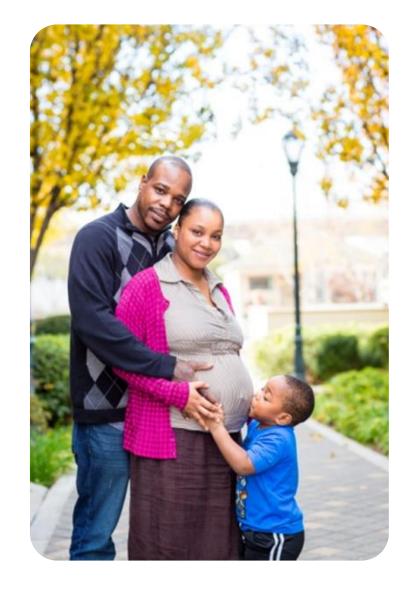
MPCAH works together through our various programs to ensure that women, children, youth, fathers, parents and families achieve optimal health and well-being through the provision of client-centered, culturally responsive, strengths-based services and supports, combined with community transformation efforts that aim to improve neighborhood conditions.

Purpose

Promoting and supporting client-centered decisions and goals for health which include positive pregnancy outcomes, thriving births, families, and communities. **Maternal and infant mortality disparities** drive interventions, programs and our collective work, specifically in the Black community and other populations such as parents of medically fragile and first-time mothers.

Values

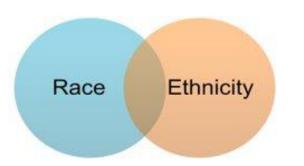
- > Relationship-Based
- > Trauma-Informed
- Race and Equity Focused





Defining Race & Ethnicity

- Both Race and Ethnicity are Social Constructs -> assigning meaning to and categorizing different bodies
- Race: Narrow category based on real or perceived biological differences between groups of people.
- **Ethnicity**: Broad category based on common language, religion, nationality, history or another cultural factor.
- Challenges with Categorization
 - Race & Ethnicity overlap in complex ways (census changes)
 - Definitions have changed overtime ("Irish" = Race)
 - People Can Fit in Multiple Categories (multiracial category)
 - People have multiple/intersecting identities







How We Determine Baby's Race/Ethnicity

- The birth certificate allows mothers to select up to 3 race groups and Hispanic/Latina/o/x/e ethnicity
- Woman or person giving birth's race/ethnicity determines baby's race/ethnicity
- Public health race/ethnicity is mutually exclusive (one category per mother & baby)
- Starting Out Strong uses similar methodology
 - Suite of Alameda County Public Health programs including home visiting, prenatal/postpartum supports, fatherhood initiatives, and services for children with special healthcare needs
- Different program & data sources have different definitions

Hispanic/Latina/o/x/e Ethnicity Any Race

Mexican

Chicano

Puerto Rican

Cuban

Central/South American

Race Categories (Not Hispanic)

African American/Black

American Indian/Alaska

Native

Asian

Pacific Islander

White

Multiracial = More than 1

of the above

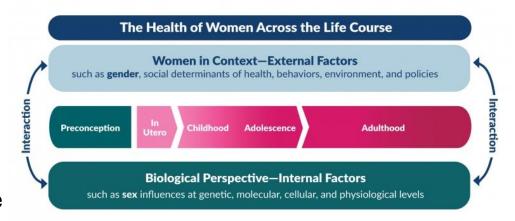
Unknown Race/Ethnicity

Mother's Race/Ethnicity not included on baby's birth certificate "Refused to State" or "Unknown"



Why We Categorize Race/Ethnicity

- Data Aggregation/Analyses: to count and compare groups
- Align with National Standards (NCHS, CDC, CDPH, HP2030)
- Measure how well we are doing compared to other jurisdictions
- Mother's race/ethnicity incorporates Life Course Perspective
 - Social, economic, and physical environment in each stage of life affect the next stage, critical & sensitive periods for intervention
- #1 reason: To identify health inequities- Race/Ethnicity is our best category for measuring inequities between groups in AC
 - Race and Ethnicity are proxies (widely measured substitutes) for experiences of discrimination and exposure to programs and policies that uphold structural racism and result in varying environments

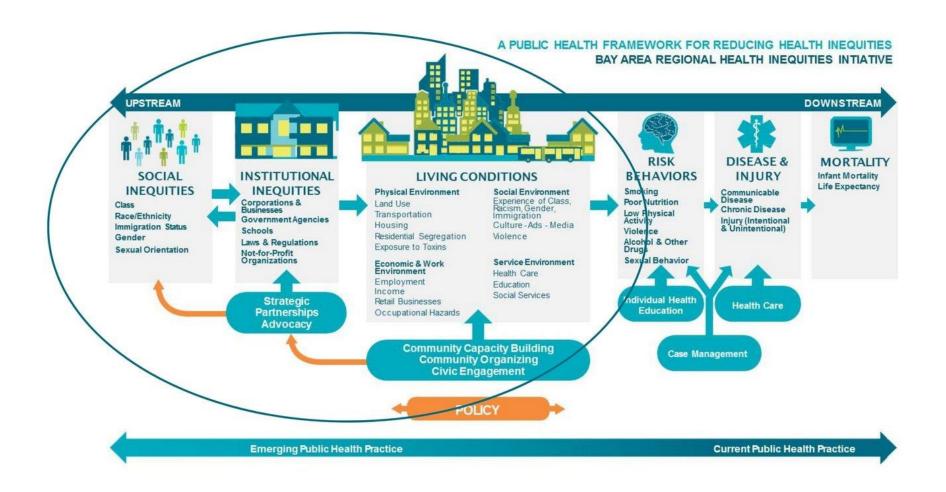






Alameda County Social and Structural Determinants of Health

Bay Area Regional Health Inequities Initiative (BARHII) Framework





Political Determinants of Health

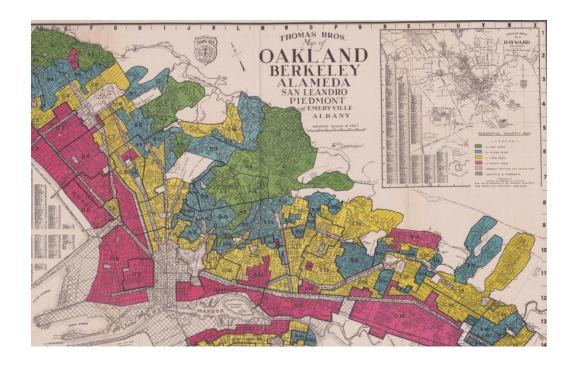
Legacies of Slavery

Poverty/Wealth, Dehumanization, Policing

Racist Policies and Laws, Historical and Current

GI Bill
Redlining
Zoning Policy
Regressive Tax System
Jim Crow Segregation
Mass Incarceration

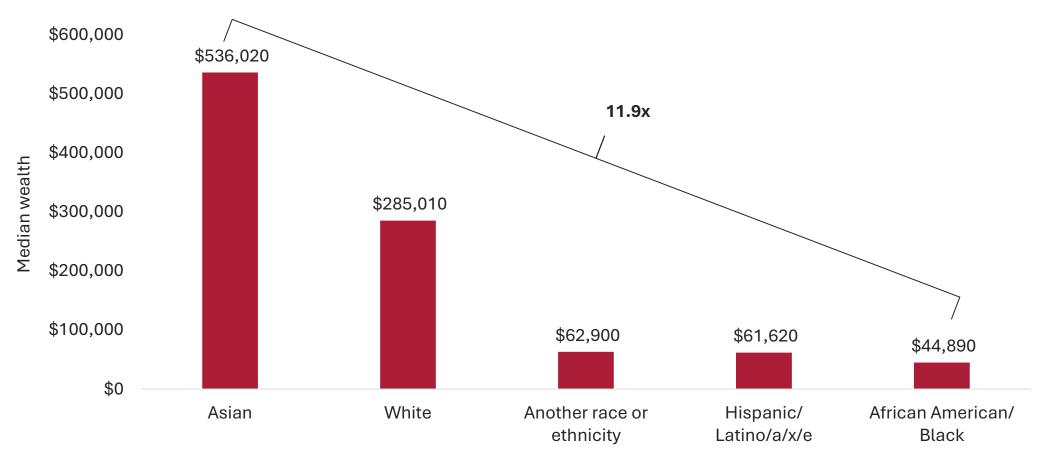
Other examples of racist policies
Chinese Exclusion Act, 1924 Immigration Act
Current Immigration Policy





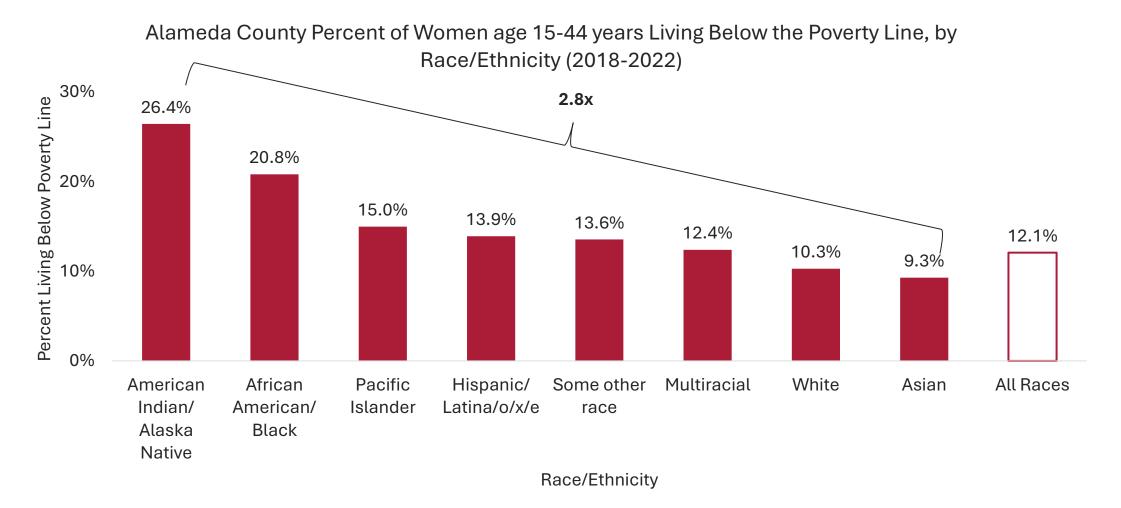
Wealth Gaps by Race/Ethnicity, 2022

Median Wealth in the United States, by Race/Ethnicity (2022)

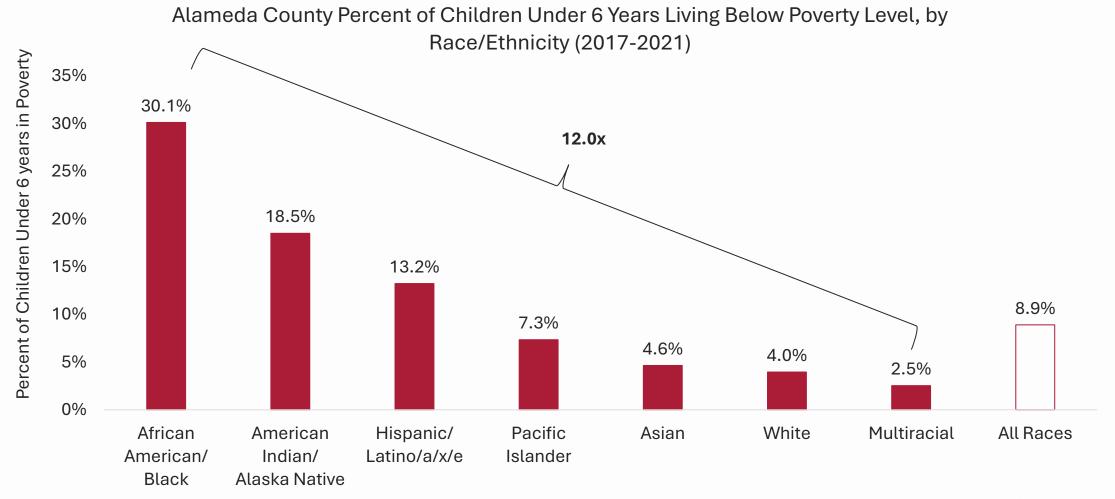




Inequities in poverty among women of reproductive age

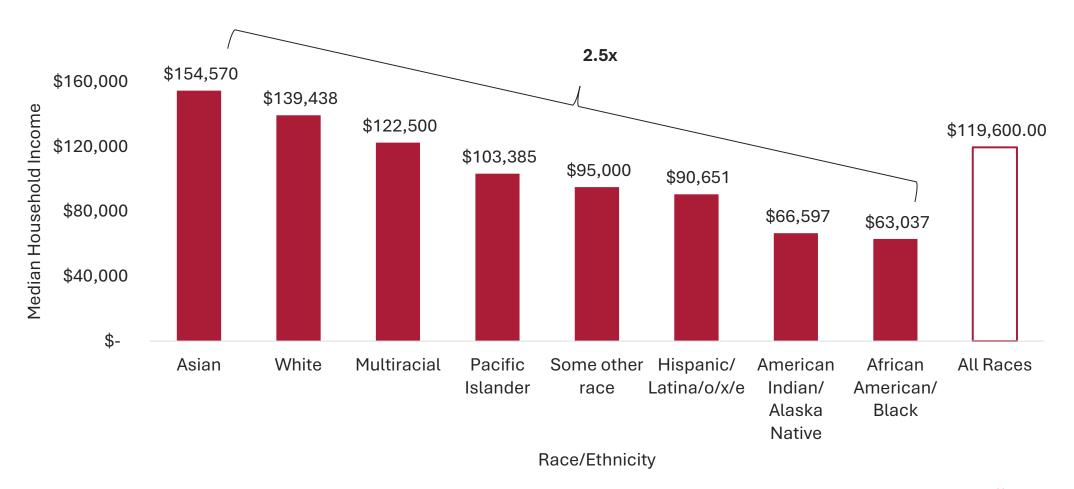


Inequities in child poverty

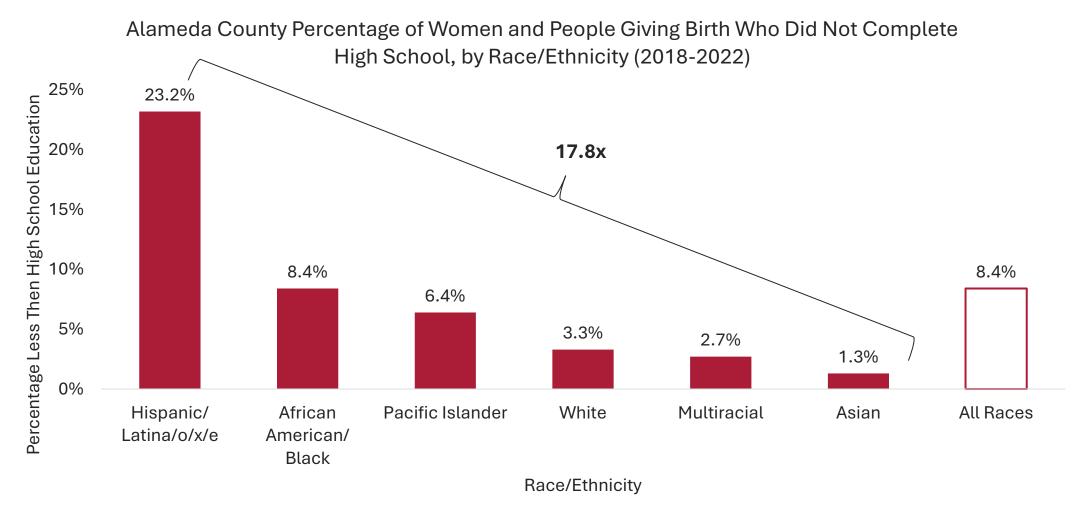


Inequities in median income

Alameda County Median Household Income, by Race/Ethnicity(2018-2022)



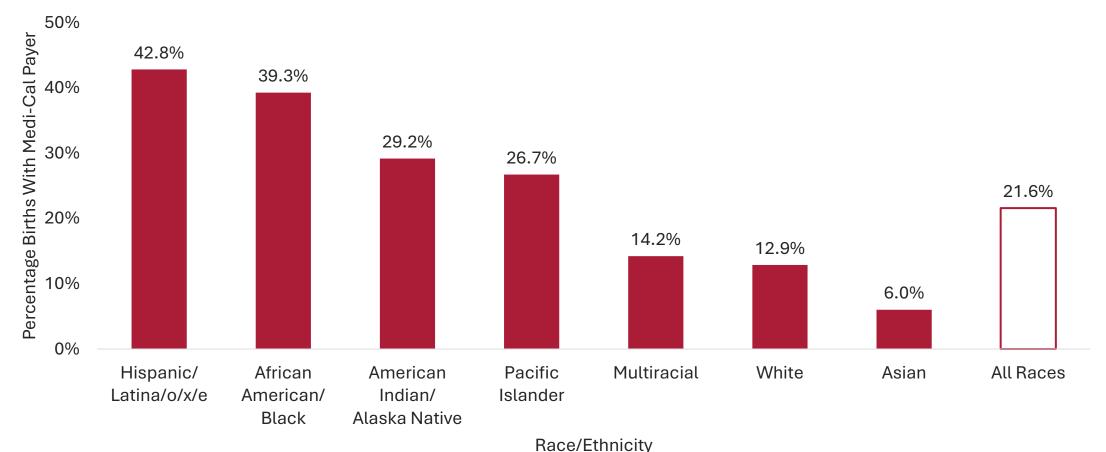
Educational inequities among women and people giving birth





Racial and ethnic differences in the percentage of births covered by Medi-Cal

Alameda County Percent of Births paid by Medi-Cal, by Race/Ethnicity (2022)



Having A Child in Alameda County



Median Household Income \$121,913



Annual Household Expenses \$121,703



Average Childcare Costs \$16,000-\$20,000



Families Living in Poverty 13,743

African American/Black and Hispanic/Latina/o/x/e families bear a disproportionate amount of poverty due to structural racism





Starting Out Strong Menu of Supports

One on One Support

Home Visiting, Intensive Case Management, Care Coordination, **Doula Support, Clinical Case** Management

Group Health Education and Supports

BIH prenatal and postpartum groups, Café Dad, Boot Camp For New Dads, BELovedBIRTH Black CenteringPregnancy, Mom2Mom Depression Groups, Anger Management, Financial Tools

Outreach and Community Engagement

rauma mormed Family Advisory Committee, Community Baby Showers, Celebrating Black Motherhood, Boot Camp for New Dads, Peer Health Leaders, Social Media, Health Fairs, **Presentations**

General Health Awareness

DeliverBirthJustice Campaign, FIMR, Safe Sleep, Family Planning



Starting Out Strong Programs

- Comprehensive needs assessment and family goal setting
- Screening and monitoring- depression, substance use,
 IPV, child development
- Counseling and support
- Parent education and support using evidenced based parenting curriculum- Partners for a Healthy Baby
- Linkages, Referrals, Ensuring Access
- Case management Advocacy Accompaniment to court appearances, social and health care services
- Mental health services- brief treatment and pretreatment services





Startingoutstrong.info

Community Strengths

Collective Action

Pre-5 Collaborative
Steering Committee
Perinatal Equity Initiative

Access to Services

Starting Out Strong System Of Care Community Based Organizations Referring partners and providers

Social Connection & Cultural Pride:

Celebrating Black Motherhood
Black Joy Parade
Dia De Los Muertos Celebration

Community Driven Solutions and Centering Community Wisdom:

Family Advisory Committee
Client feedback and testimonials
Lifting the voices of BIPOC
providers and birth workers



Unmet Need for Family Planning Services in Alameda County and California

In 2016, over 87,000 women and people who can give birth in Alameda County aged 13-44 needed publicly funded family planning services

Publicly funded family planning centers in AC served about 54,000 female clients in 2015

Net savings in California due to publicly funded family planning services amounted to approximately \$1.3 billion in 2016

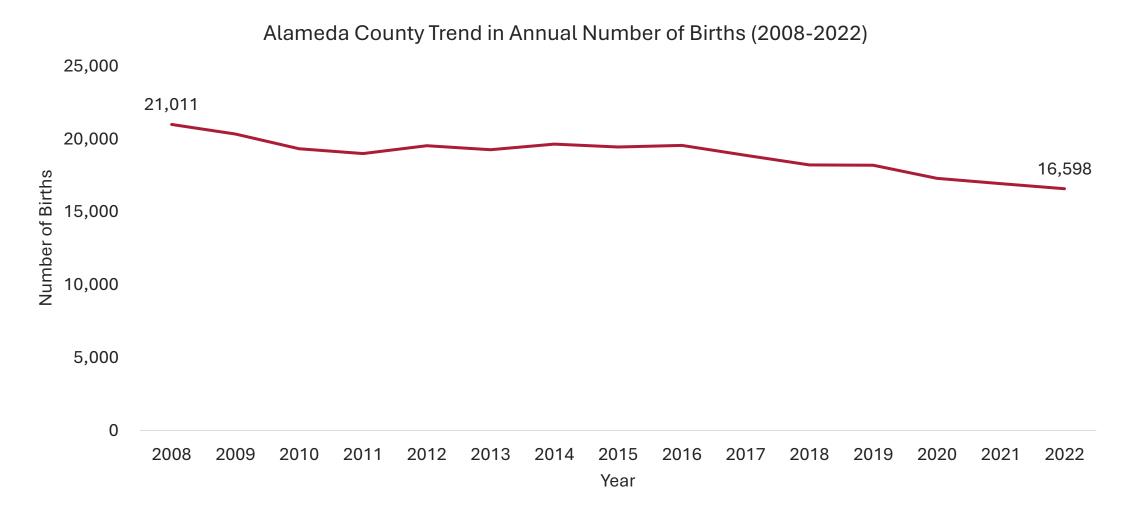
Publicly funded family planning services are vital to help families achieve their pregnancy goals





Alameda County Births

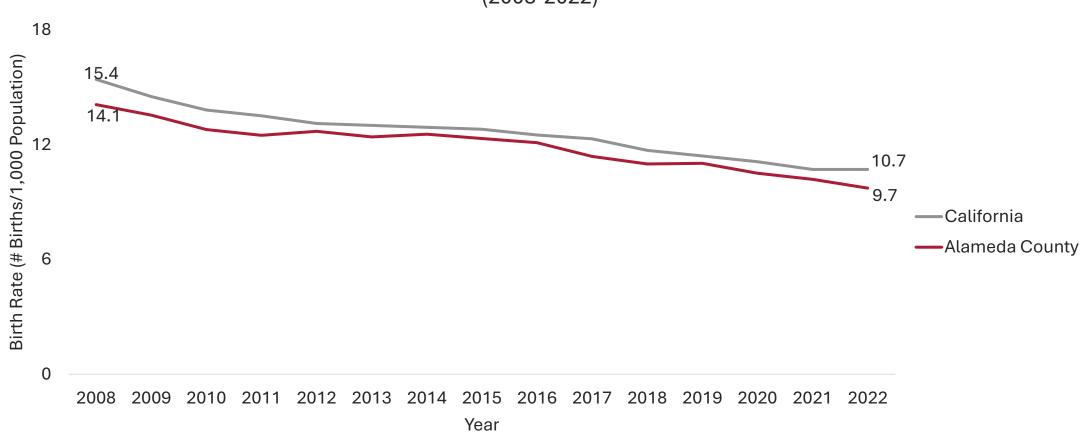
Declining Births In Alameda County





Decreasing trend in Alameda County birth rate

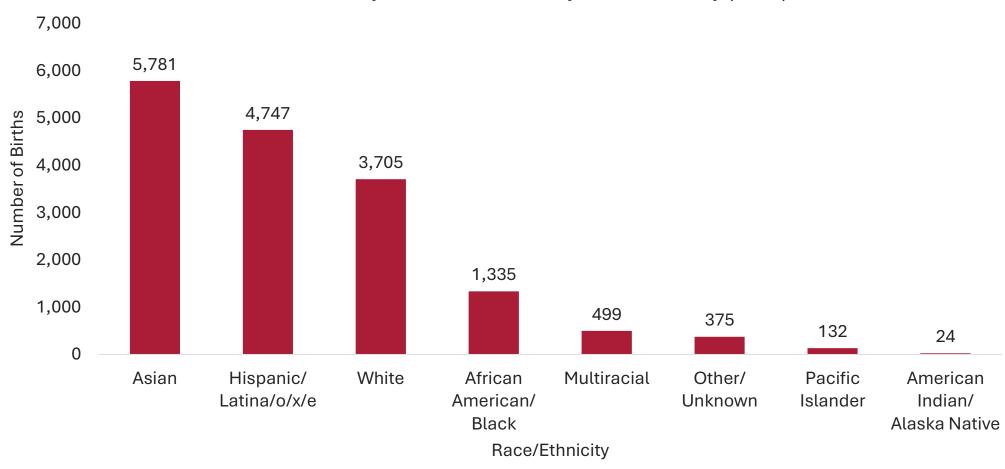






Numbers of births differ by race and ethnicity

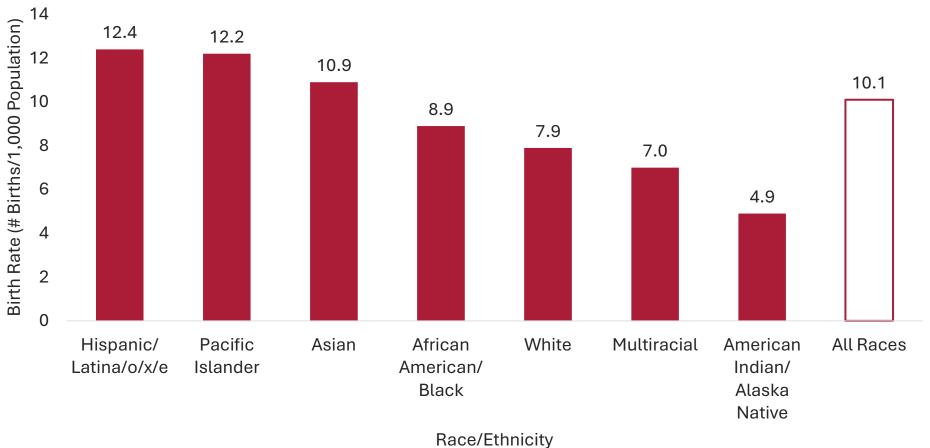
Alameda County Number of Births by Race/Ethnicity (2022)





Birth rates differ by race and ethnicity

Alameda County Birth Rate, by Race/Ethnicity (2022)

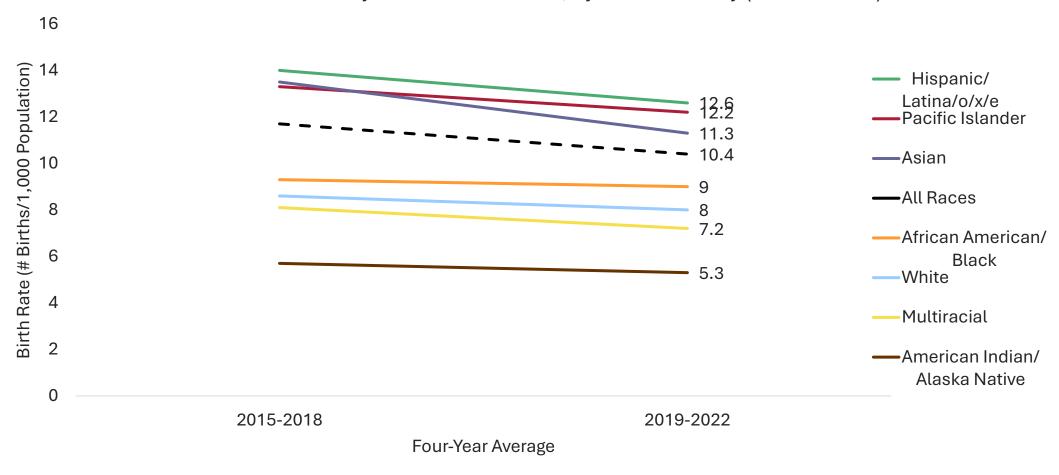






Trends in birth rates differ by race and ethnicity

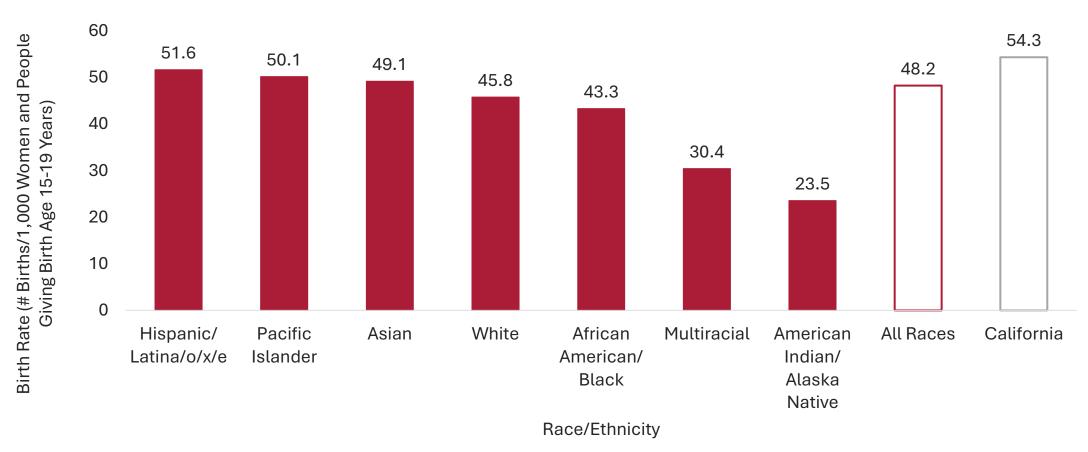
Alameda County Trends in Birth Rate, by Race/Ethnicity (2015 to 2022)





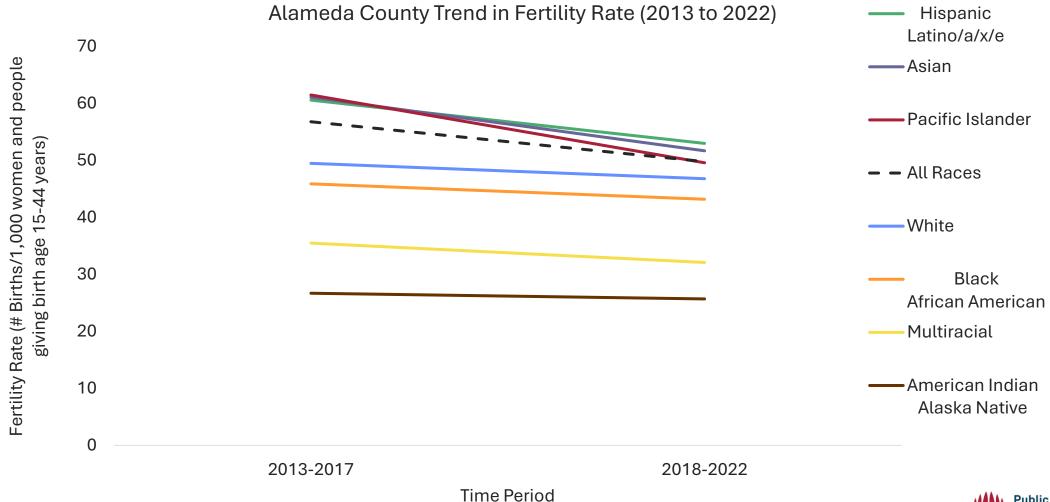
There are racial and ethnic differences in fertility rates





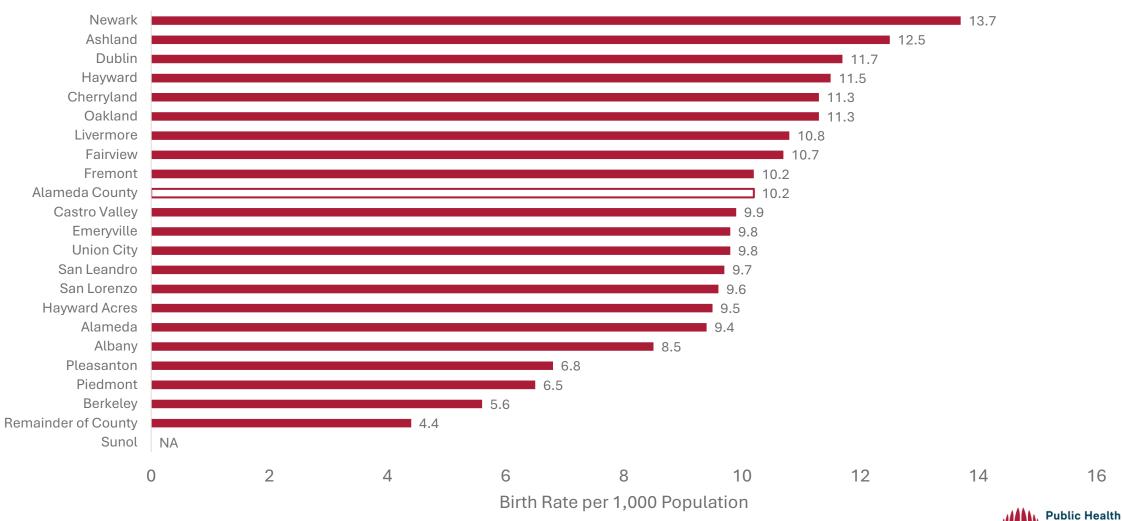


Fertility Rates have decreased over time



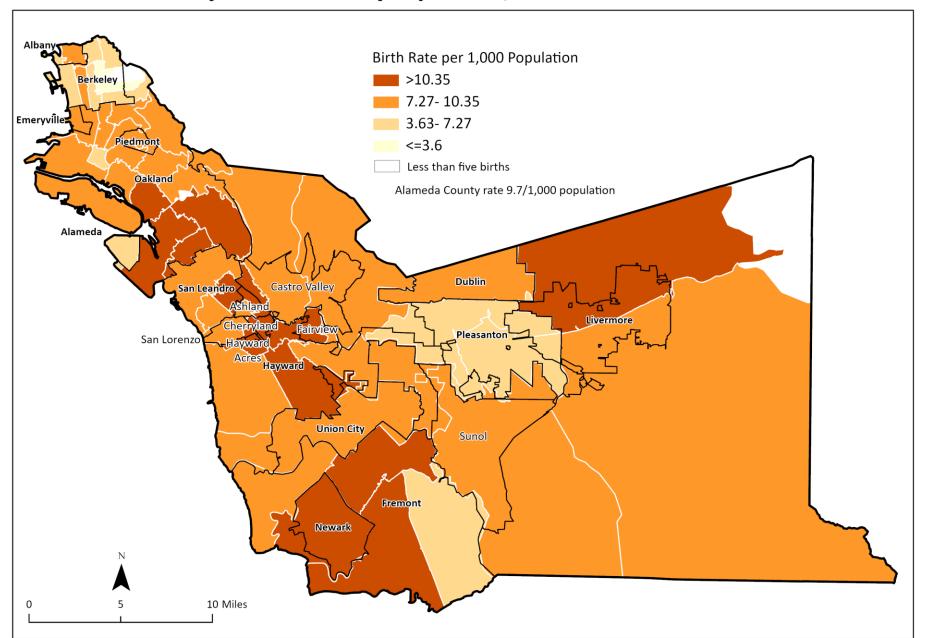
Geographic differences in birth rates

Alameda County Birth Rate by City/Place (2022)



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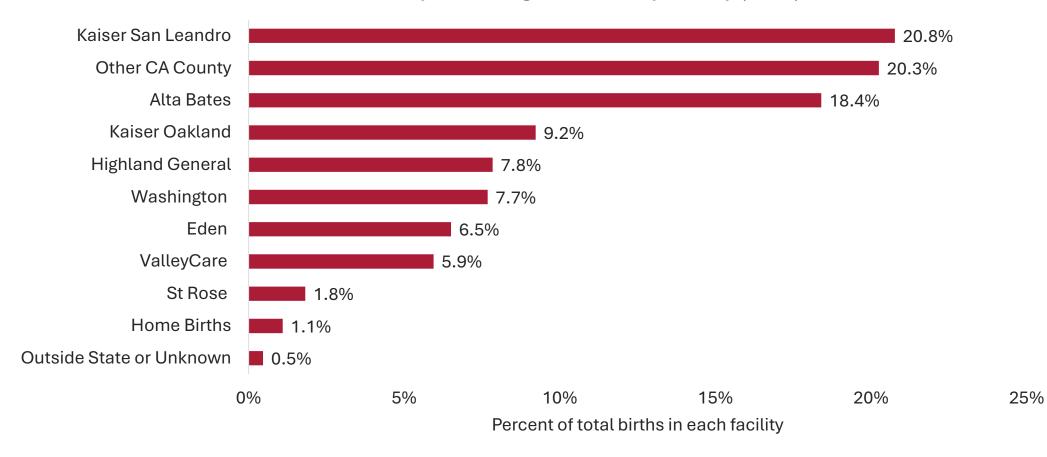
Alameda County Birth Rate by Zip Code, 2021-2023





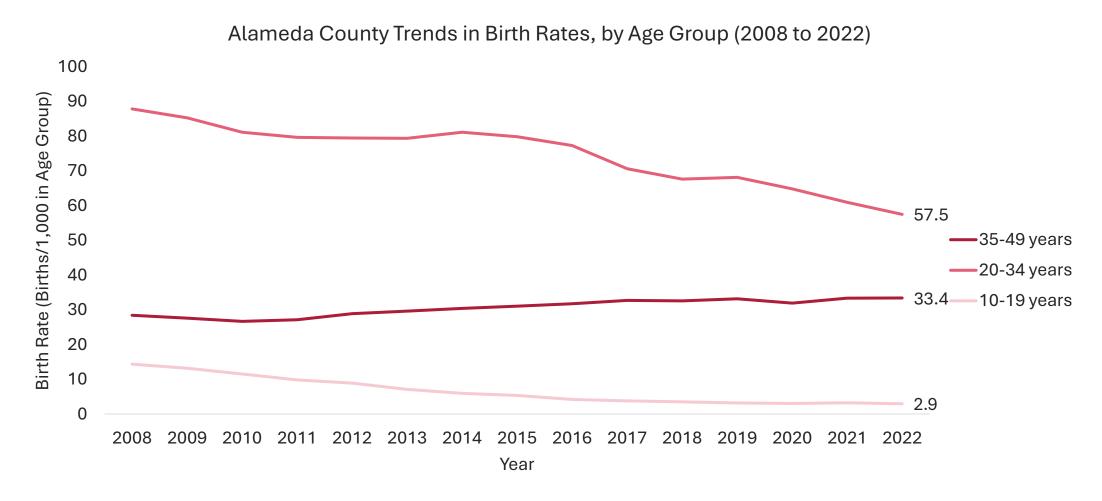
Where Alameda County residents give birth







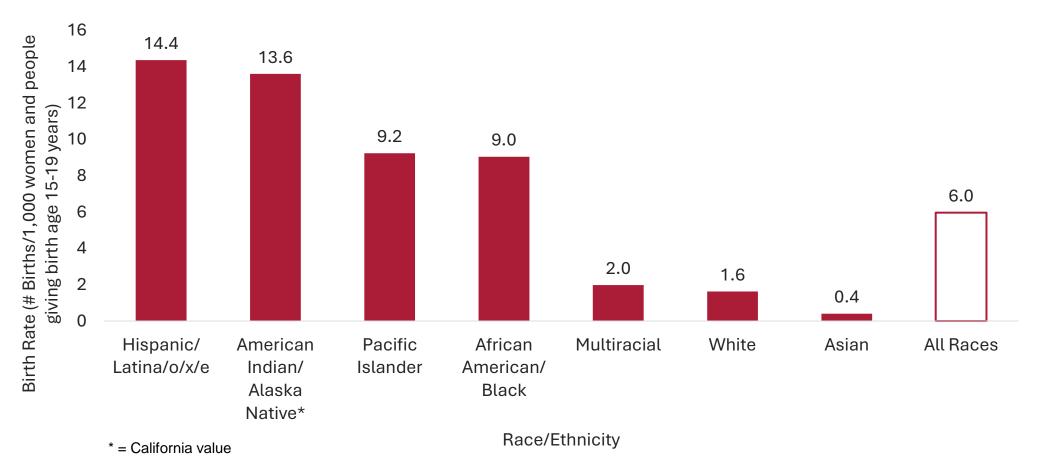
Differing trends in birth rates by age group





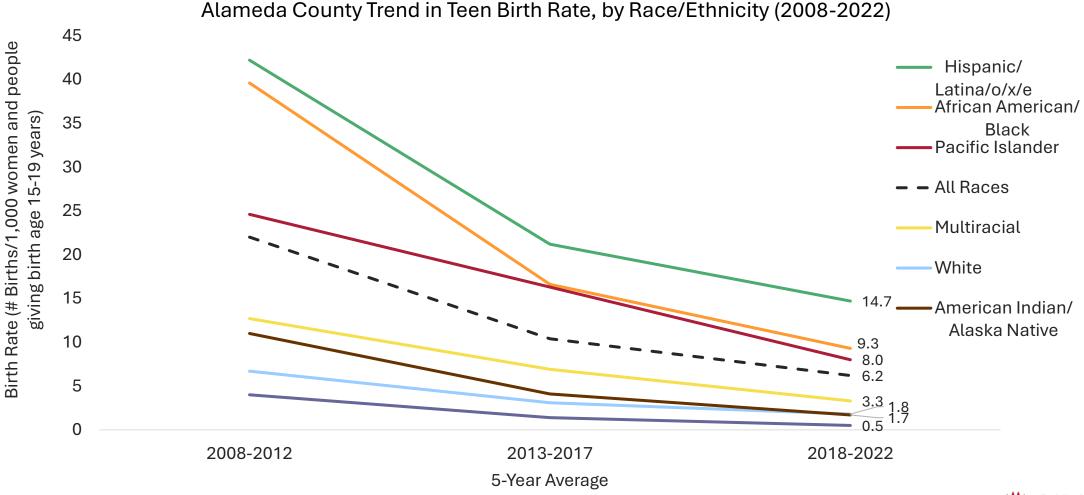
Inequities in teen birth rates

Alameda County* Teen Birth Rate, by Race/Ethnicity (2020-2022)





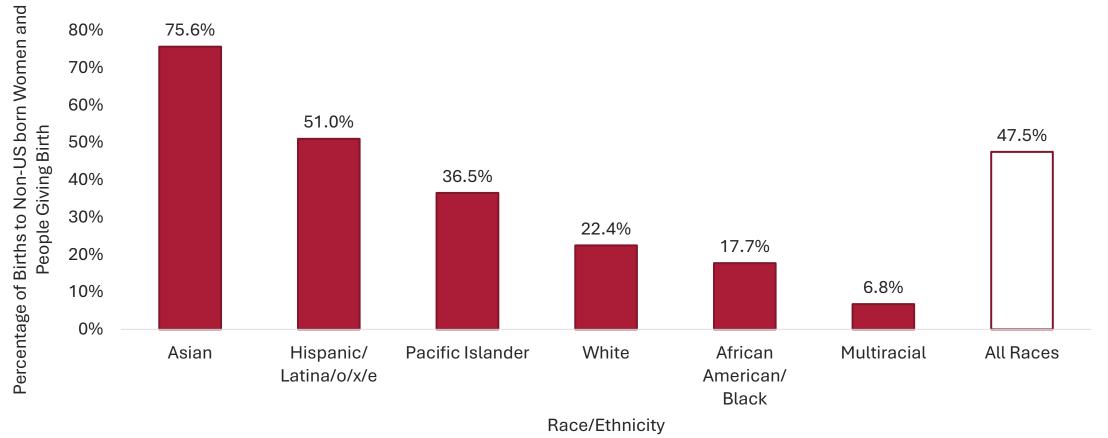
Inequities in teen birth rate over time



There are racial and ethnic differences in the percentage of births to Non-US born women and people giving birth

Alameda County Percentage of Births to Women and People Giving Birth who are Non-US

Born by Race/Ethnicity (2022)



Leading countries of birth for women and people giving birth in Alameda County

Alameda County top countries of birth for women and people giving birth, by race/ethnicity (2022)

Asian			
Rank	Country	Percent	
1	India	1981 (34.2%)	
2	United States	1408 (24.3%)	
3	China	947 (16.4%)	
4	Philippines	395 (6.8%)	
5	Vietnam	210 (3.6%)	

African American/Black			
Rank	Country	Percent	
1	United States	1063 (79.7%)	
2	Ethiopia	77 (5.8%)	
3	Eritrea	39 (2.9%)	
4	Nigeria	37 (2.8%)	

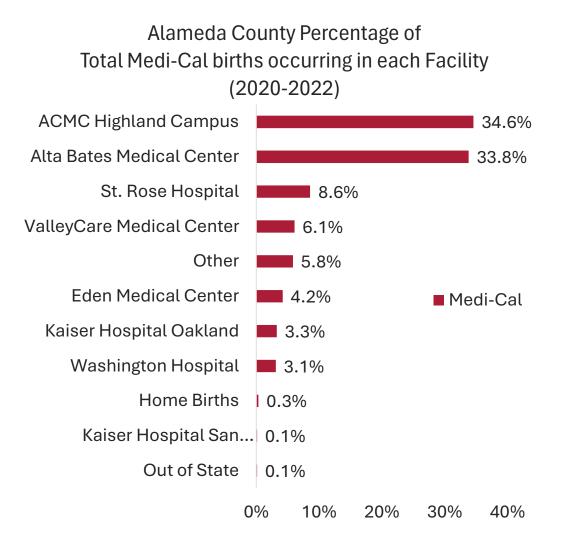
Hispanic/Latina/o/x/e			
Rank	Country	Percent	
1	United States	2298 (48.4%)	
2	Mexico	1130 (23.9%)	
3	Guatemala	607 (12.8%)	
4	El Salvador	307 (7.1%)	
5	Honduras	155 (3.3%)	

Pacific Islander			
Rank	Country	Percent	
1	United States	97 (73.5%)	
2	Fiji	19 (14.4%)	
3	Tonga	12 (9.1%)	

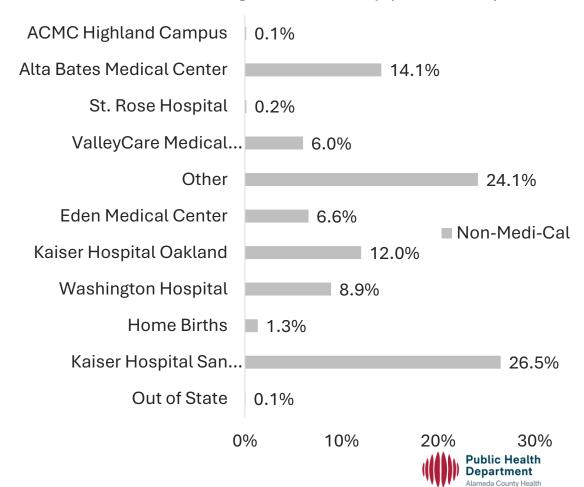
White				
Rank	Country	Percent		
1	United States	2748 (74.3%)		
2	Afghanistan	208 (5.6%)		
3	Yemen	167 (4.5%)		
4	Russia	41 (1.1%)		



Among Medi-Cal covered families, the births most often occurred at Highland Hospital and Alta Bates

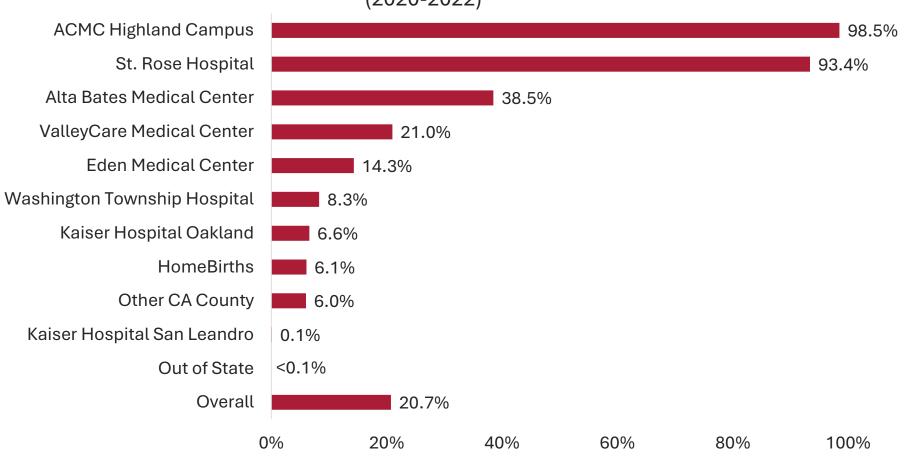


Alameda County Percentage of Non-Medi-Cal births occurring in each Facility (2020-2022)

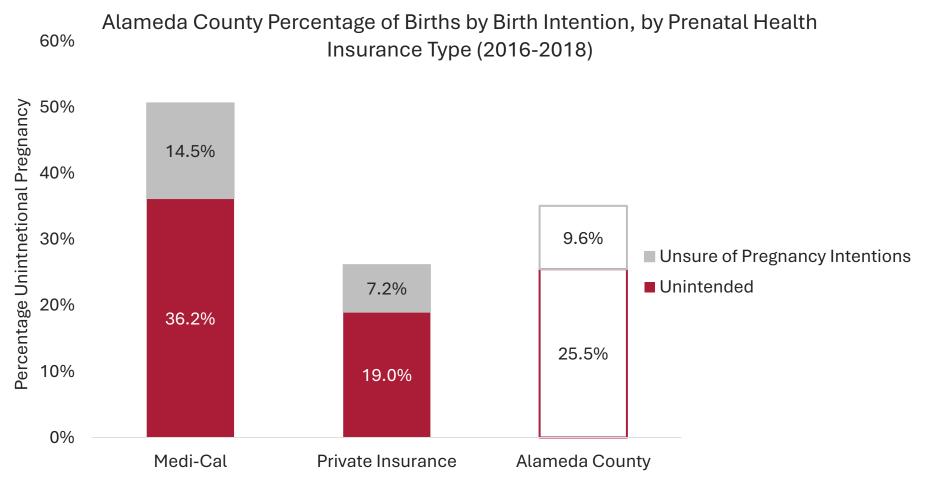


Nearly all births at Highland Hospital and St. Rose Hospital were to women and pregnant people covered by Medi-Cal

Alameda County Percentage of Births paid by Medi-Cal, by Facility (2020-2022)



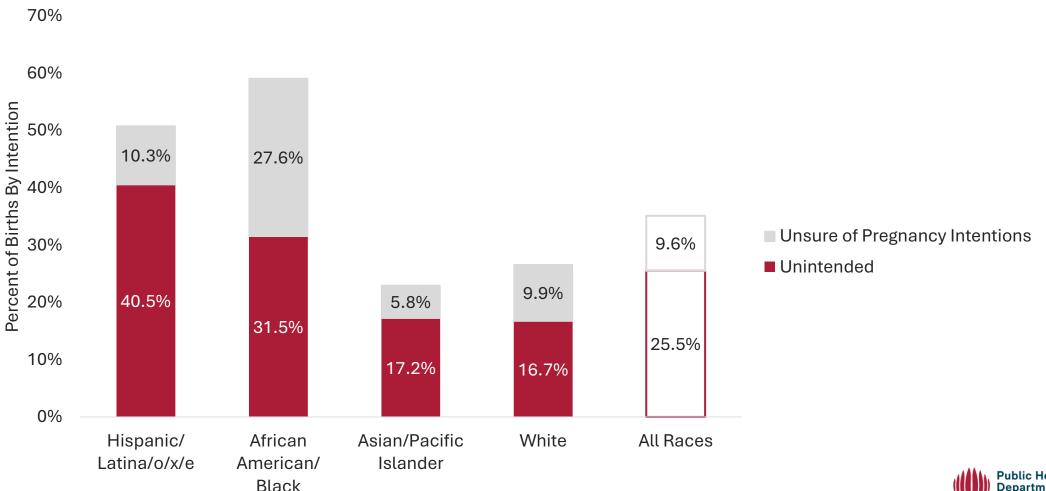
One-quarter of births were unintended pregnancies; 1 in 3 Medi-Cal births and nearly 1 in 5 private insurance births were unintended





Hispanic/Latina/o/x/e and African American/Black women and people giving birth had the highest proportions of unintended pregnancies

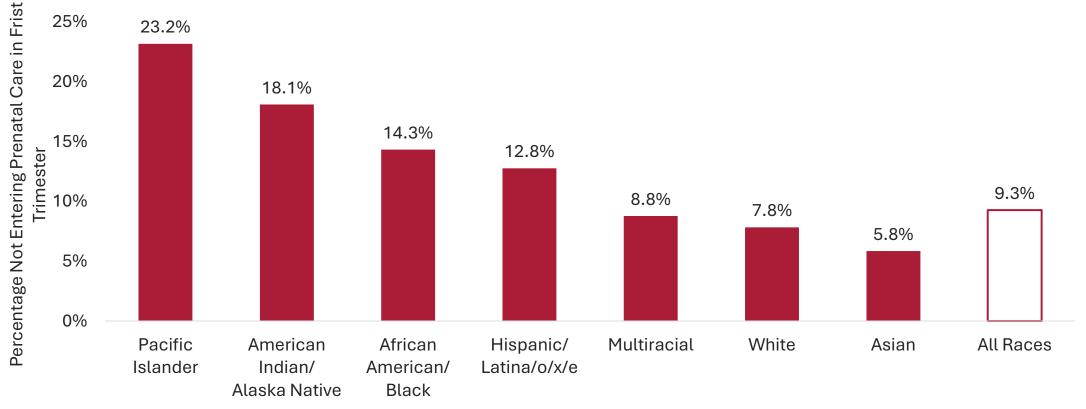
Alameda County Percentage of Births by Birth Intention, by Race/Ethnicity (2016-2018)



Alameda County Pregnancy & Maternal Health Indicators

Inequities in early prenatal care

Alameda County Percentage of Pregnant Women and People Not Receiving First Trimester Prenatal Care, by Race/Ethnicity (2018 - 2022)

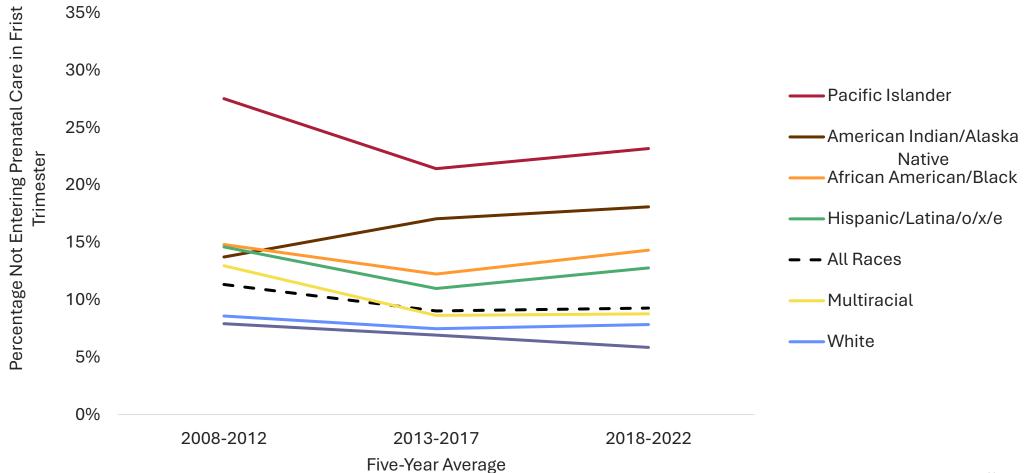


Race/Ethnicity



Trends in racial and ethnic inequities in early prenatal care

Alameda County Trend in Percentage of Pregnant Women and People Not Entering Prenatal Care in First Trimester, by Race/Ethnicity (2018-2022)



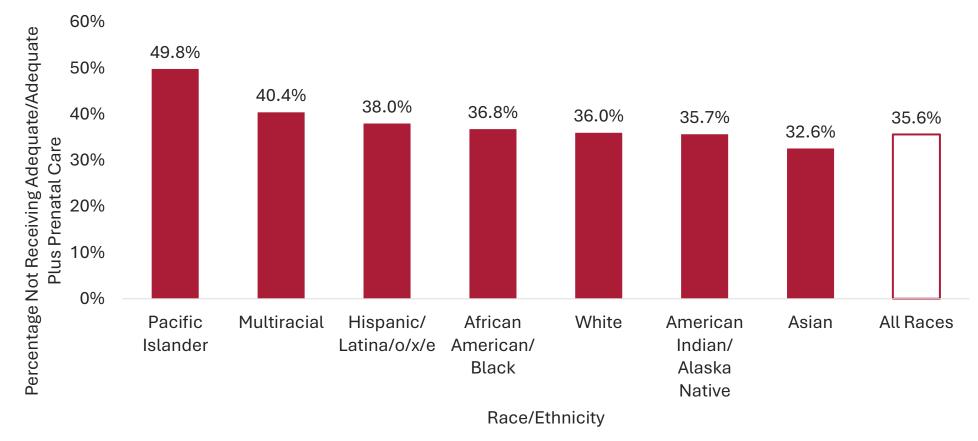


Inequities in not receiving adequate prenatal care

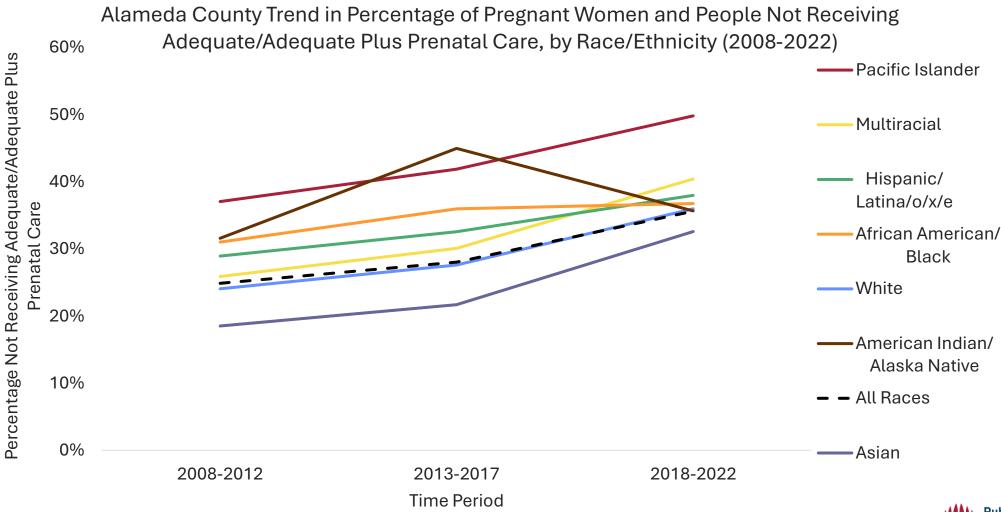
Adequate Prenatal Care:

Prenatal care initiated within the first four months of pregnancy, with the mother/person giving birth attending 80% or more of the expected number of prenatal care visits

Alameda County Percentage of Pregnant Women and People Who Did Not Receive Adequate/Adequate Plus Prenatal Care, by Race/Ethnicity (2018-2022)

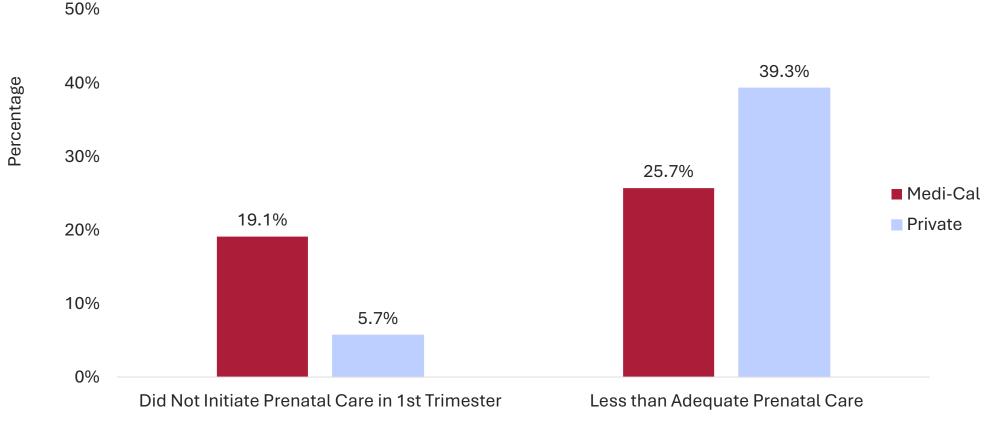


Trends in inequities in not receiving adequate prenatal care



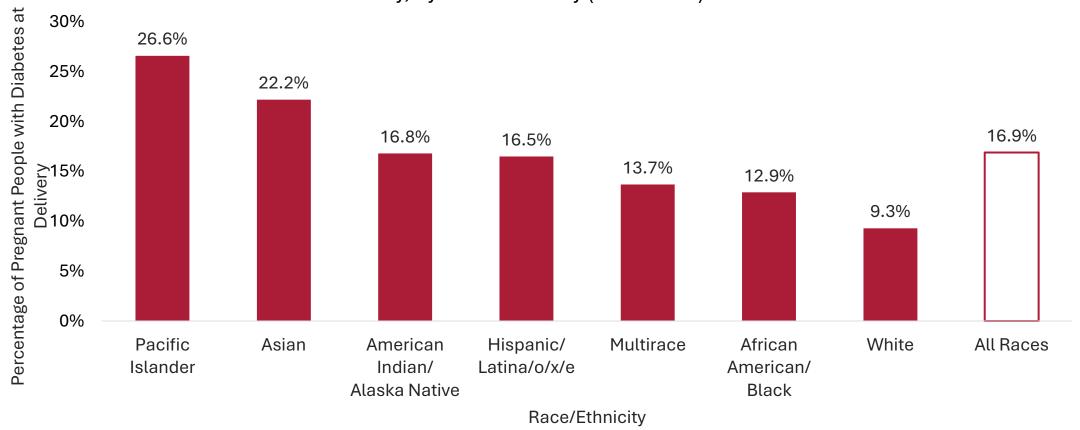
Medi-Cal patients had later entry into prenatal care, but higher percentages of adequate prenatal care

Alameda County Percentage of Pregnant Women or People Not Receiving First Trimester Prenatal Care or Receiving Less Than Adequate Prenatal Care, by Insurance Coverage (2020-2022)



Inequities in pregnant women and people who had any diabetes at delivery

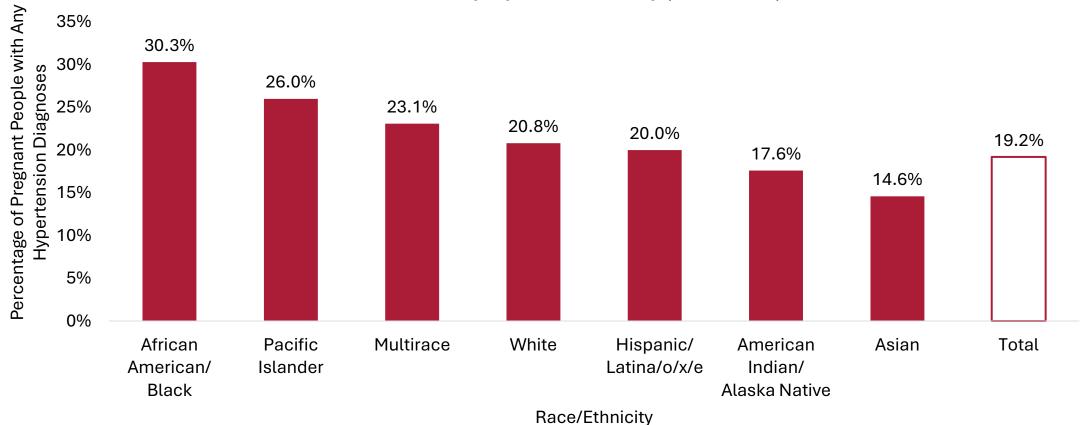
Alameda County Percentage of Pregnant Women and People who had Any Diabetes at Delivery, by Race/Ethnicity (2021-2023)

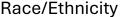




Inequities in pregnant women and people who had any hypertension at delivery

Alameda County Percentage of Pregnant Women and People Who Had Any Hypertension at Delivery, by Race/Ethnicity (2021-2023)

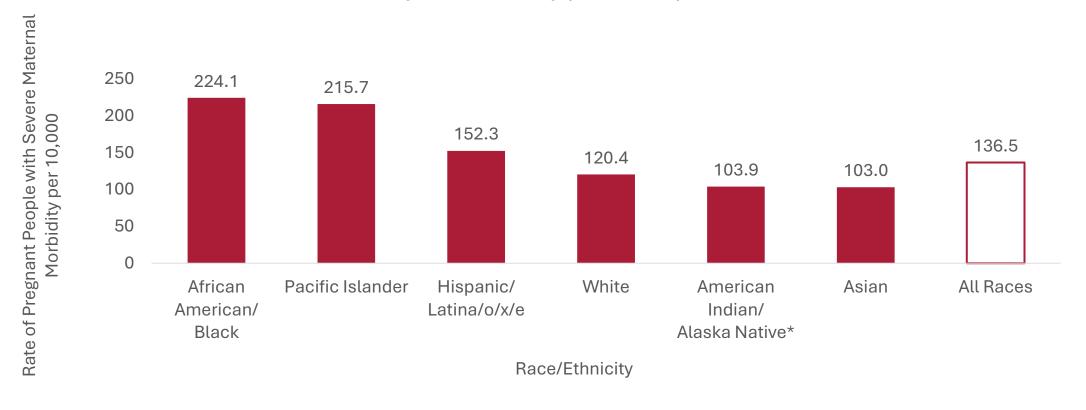






Inequities in severe maternal morbidity

Alameda County* Rate of Severe Maternal Morbidity Among Pregnant Women and People, by Race/Ethnicity (2021-2023)



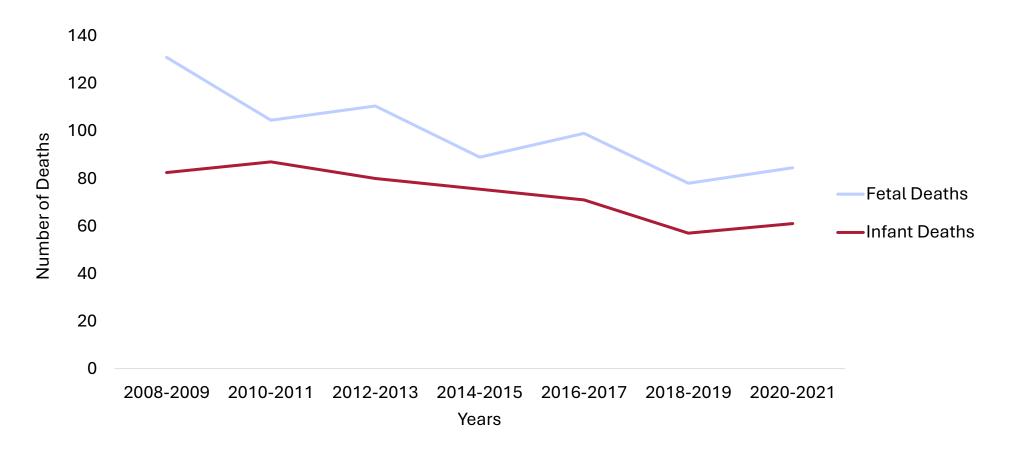
* = California value



Alameda County Infant Health Indicators

Overall, there is a decreasing trend in infant deaths

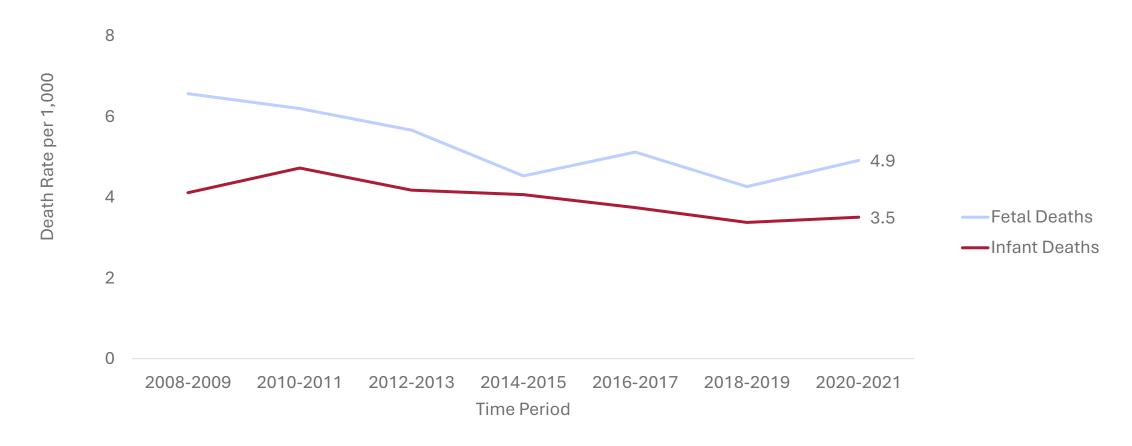
Alameda County Average Number of Fetal and Infant Deaths (2008-2021)





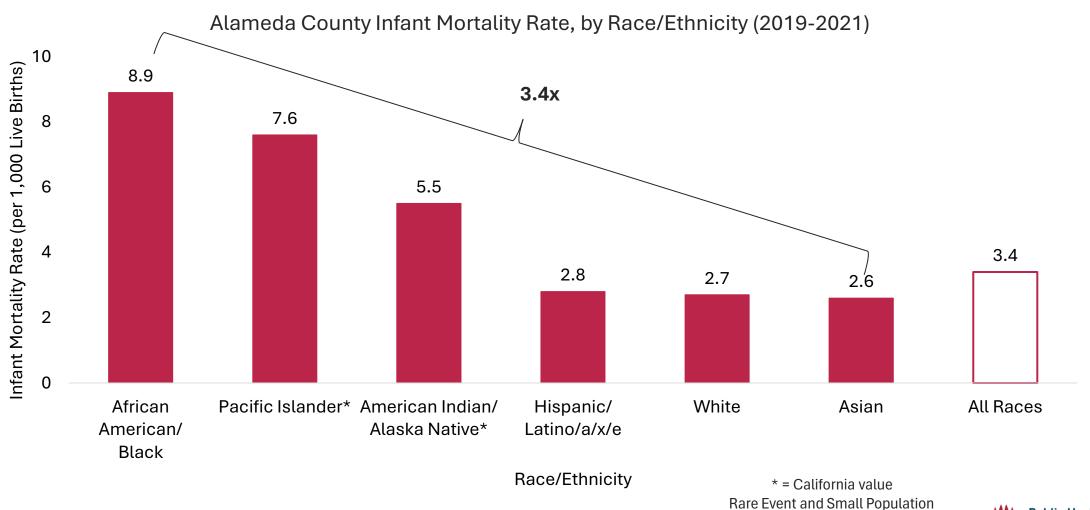
Overall decrease in infant mortality rate trend

Alameda County Trend in Fetal and Infant Death Rate (2008-2021)



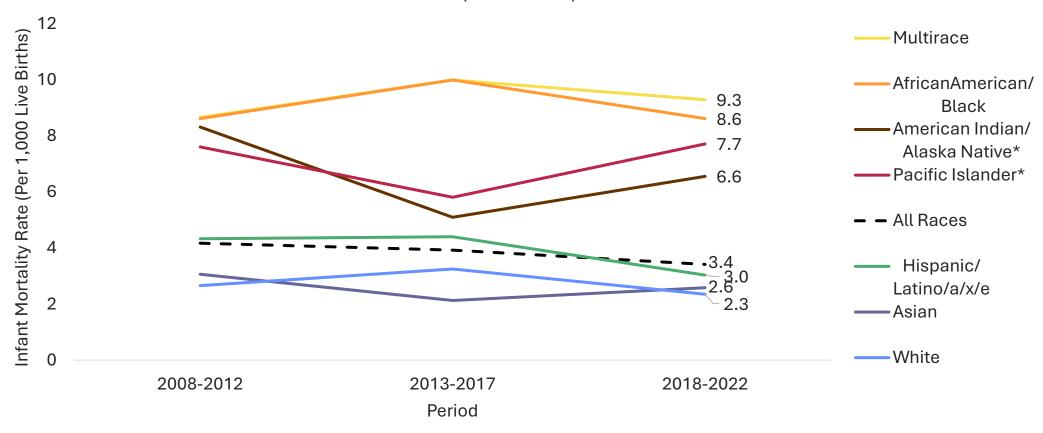


Infant Mortality Rate by Race/Ethnicity, 2019-2021



Infant Mortality Rate inequity has persisted over time

Alameda County* Trend in Infant Mortality Rate, by Race/Ethnicity, Alameda County (2008-2022)



* = California value Rare Event and Small Population



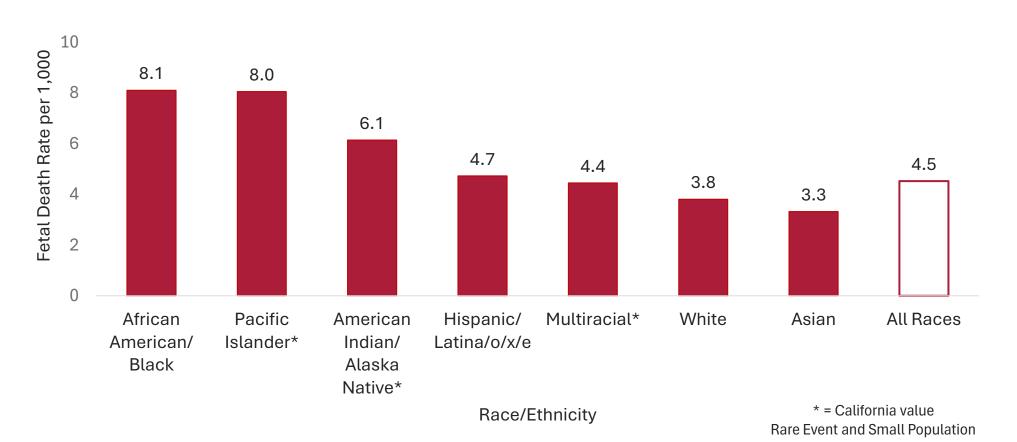
Leading causes of infant mortality

Rank	Leading Causes of Infant Deaths 2020-2022
1	Congenital malformations, deformations and chromosomal abnormalities
2	Disorders related to short gestation and low birth weight, not elsewhere classified
3	Sudden infant death syndrome
4	Accidents (unintentional injuries)
5	Newborn affected by maternal complications of pregnancy
6	Intrauterine hypoxia and birth asphyxia
7	Newborn affected by complications of placenta, cord and membranes
8	Neonatal hemorrhage
9	Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism
10	All other causes

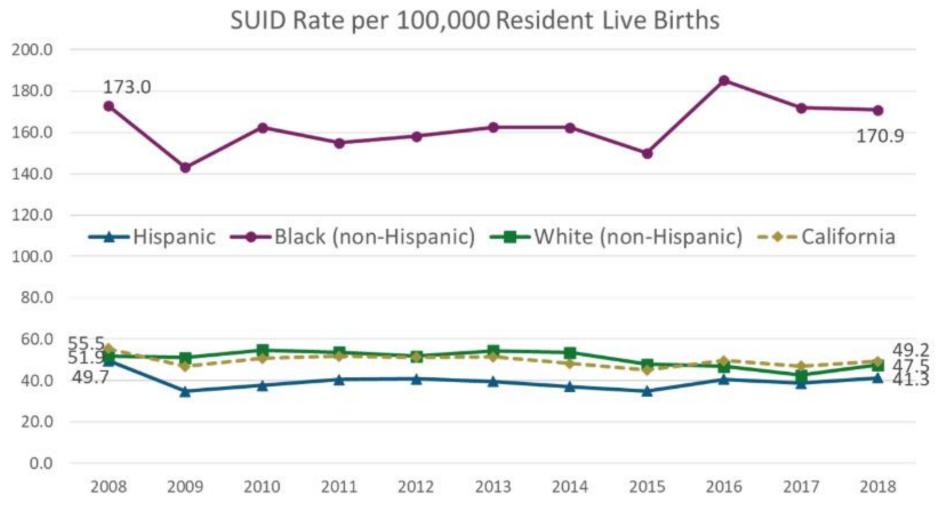


Inequities in fetal deaths

Alameda County* Percentage of Fetal Deaths, by Race/Ethnicity (2018-2020)

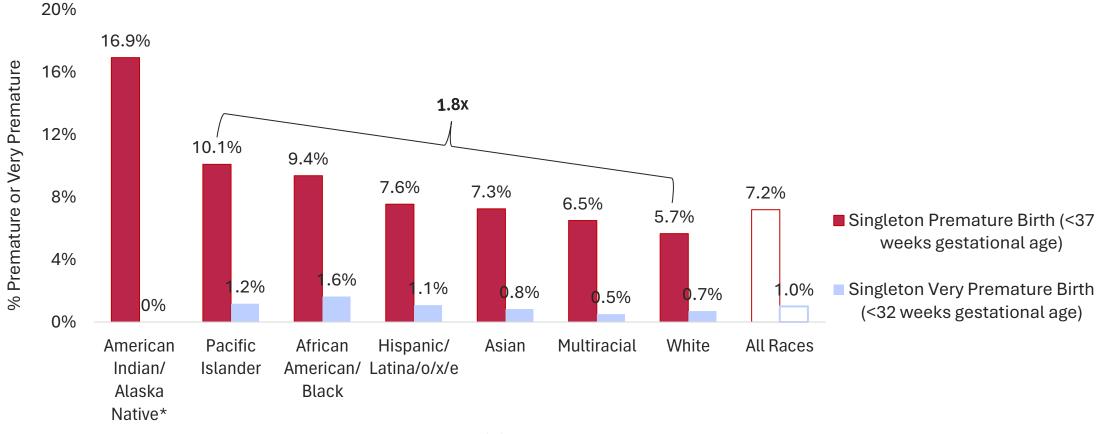


Inequities in Sudden Unexpected Infant Death, California (2008-2018)



Inequities in Singleton premature births

Alameda County Premature Birth and Very Premature Birth, by Race/Ethnicity (2020-2022)



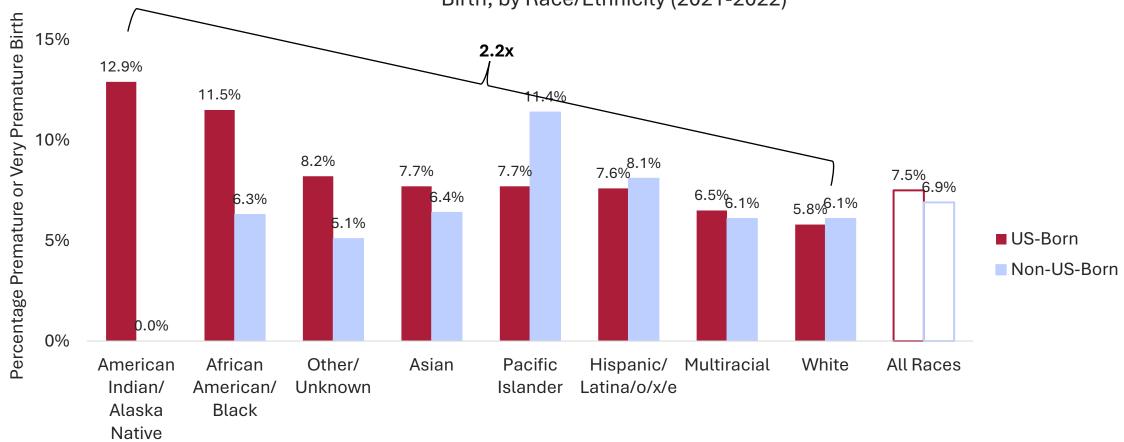
Race/Ethnicity

* = California value Rare Event and Small Population



Inequities in premature births

Alameda County Premature Births for US-born and Non-US-Born Women and People Giving Birth, by Race/Ethnicity (2021-2022)

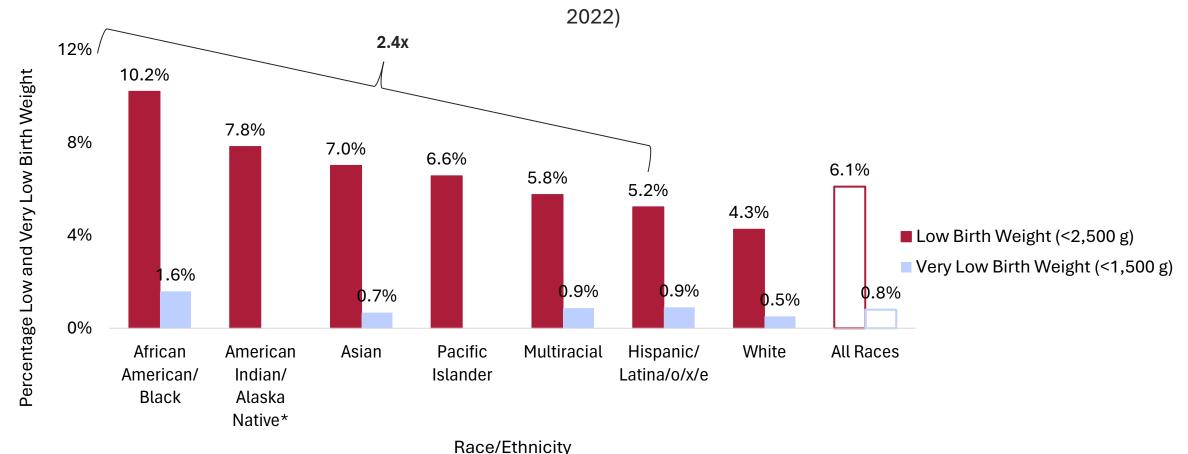


Race/Ethnicity



Inequities in low birth weight

Alameda County Low Birth Weight and Very Low Birth Weight Births, by Race/Ethnicity (2020-

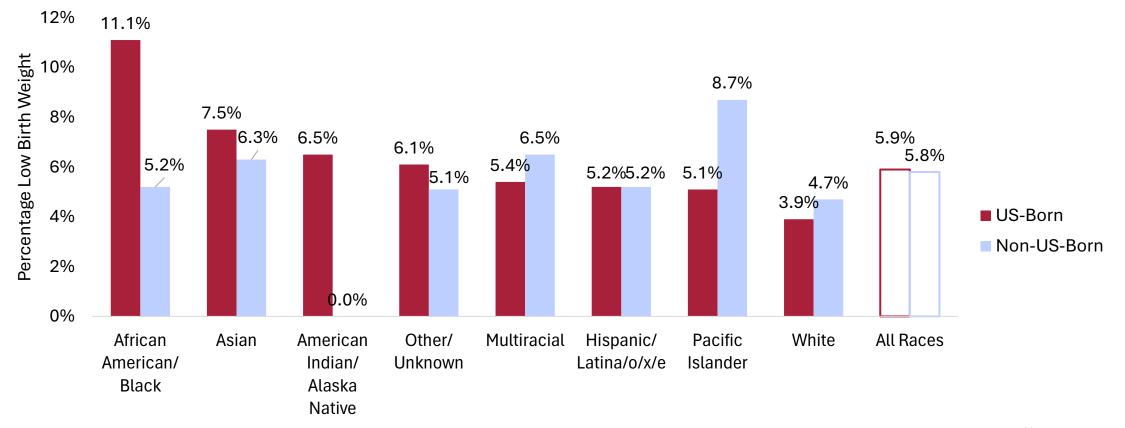


*Rare Event and Small Population



Inequities in low birthweight births

Alameda County Low Birthweight Births for US-Born and Non-US-Born Women and People Giving Birth, by Race/Ethnicity (2021-2022)



Alameda County Breastfeeding and Infant Sleep

Structural Drivers of Breastfeeding and Infant Care Practices

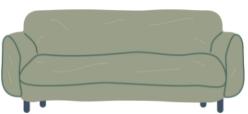


No Guaranteed Paid Family Leave

Time with Baby
Pumping Accommodations at Work



Black/African American and Hispanic/Latino/a/x/e women and people giving birth report higher rates of houselessness



Prenatal and Postpartum Care

Lactation Support/Coaching
Infant Care Education





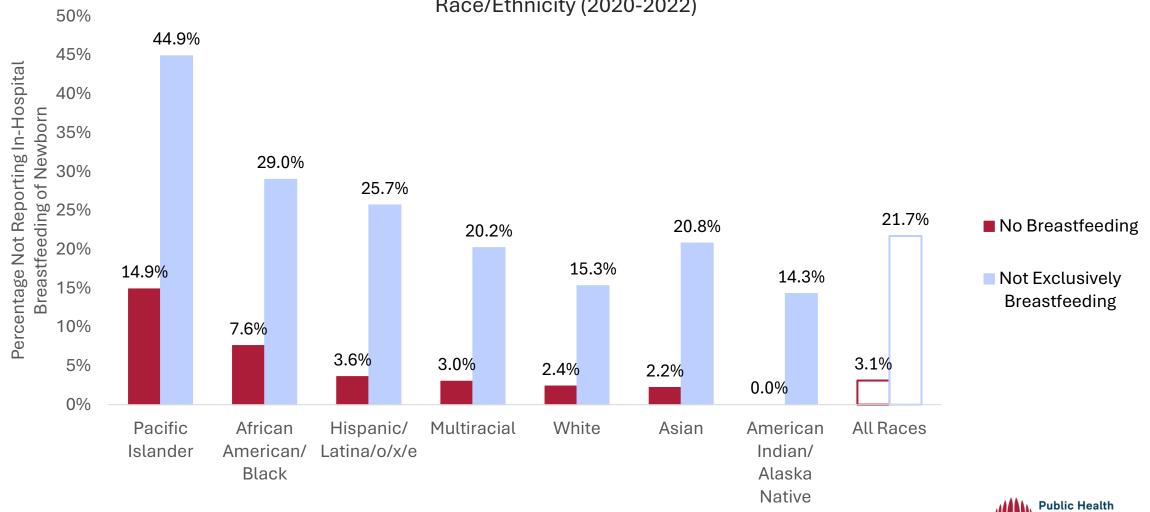


Due to structural racism and differences in socioeconomic position, some women and people giving birth have more time and resources to spend on lactation supports, supplies, and infant care education



Inequities in-hospital breastfeeding initiation

Alameda County Percentage of Women and Pregnant People Not Breastfeeding In Hospital, by Race/Ethnicity (2020-2022)

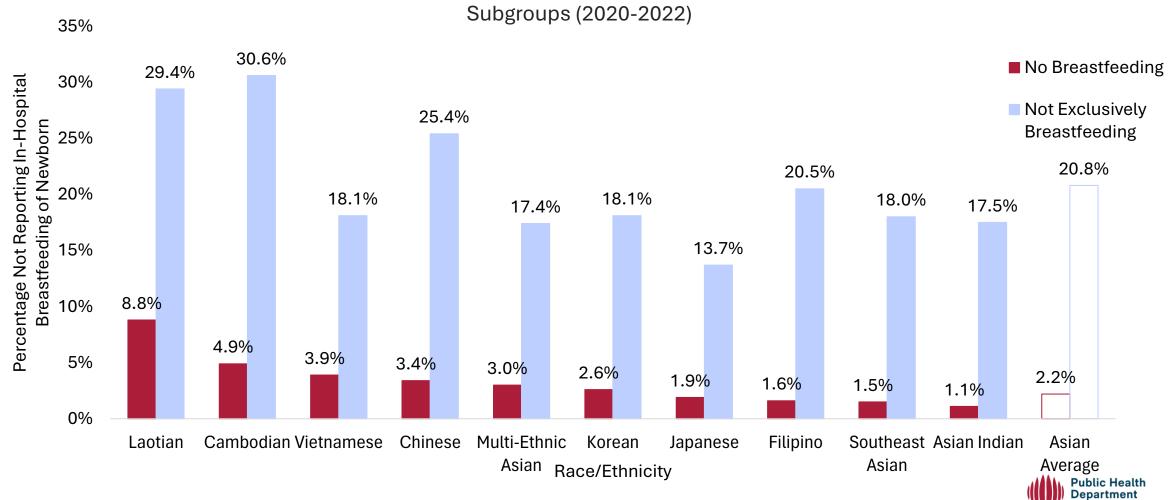


Race/Ethnicity



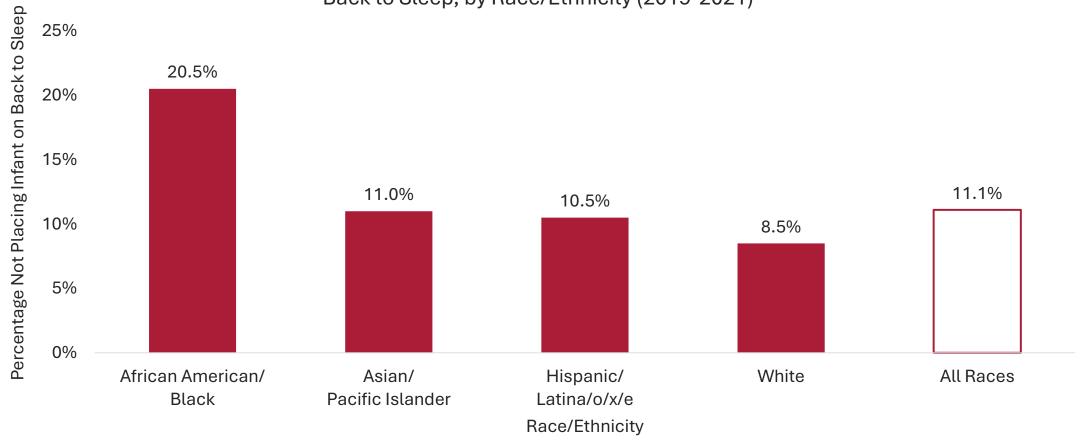
Inequities in breastfeeding initiation within Asian subgroups

Alameda County Percentage of Women and Pregnant People Not Breastfeeding In Hospital, Asian Subgroups (2020-2022)



Approximately 1 in 10 families did not place infant on back to sleep

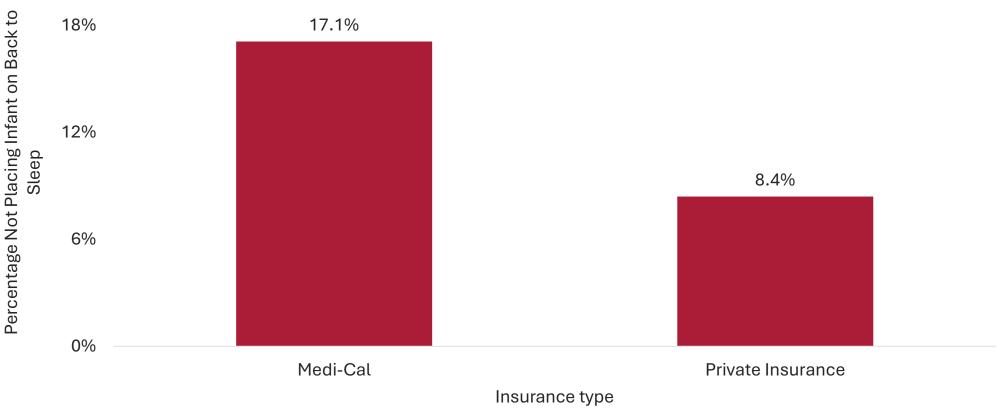
Alameda County Percentage of Women and Pregnant People who Did not Place Infant on Back to Sleep, by Race/Ethnicity (2019-2021)





Medi-Cal covered families had higher percentage not placing infant on back to sleep

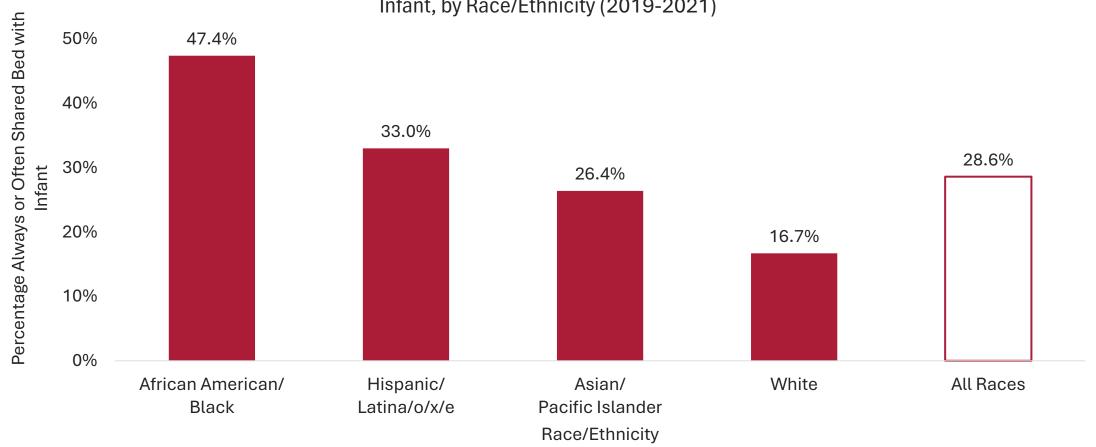
Alameda County Percentage of Women and Pregnant People Not Placing Infant on Back to Sleep by Insurance Type, Alameda County (2019-2021)





Inequities in bed sharing

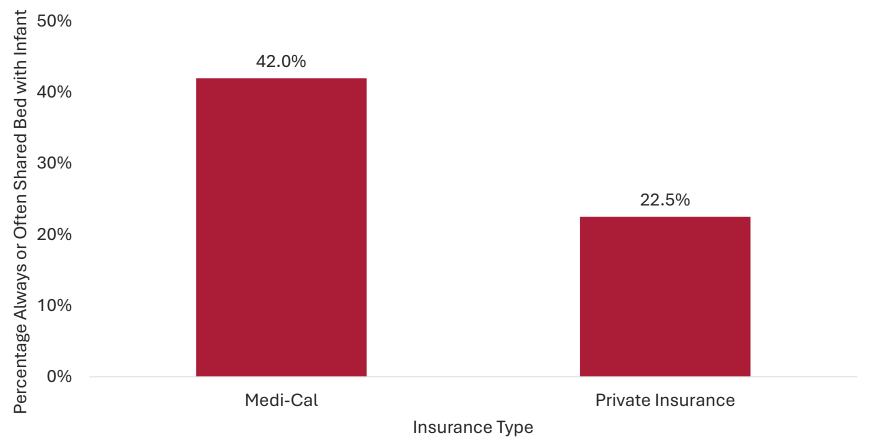
Alameda County Percentage of Women and Pregnant People who Always or Often Shared Bed with Infant, by Race/Ethnicity (2019-2021)





Inequities in bed sharing by insurance type

Alameda County Percentage of Women and Pregnant People who Always or Often Shared Bed with Infant, by Insurance Type (2019-2021)

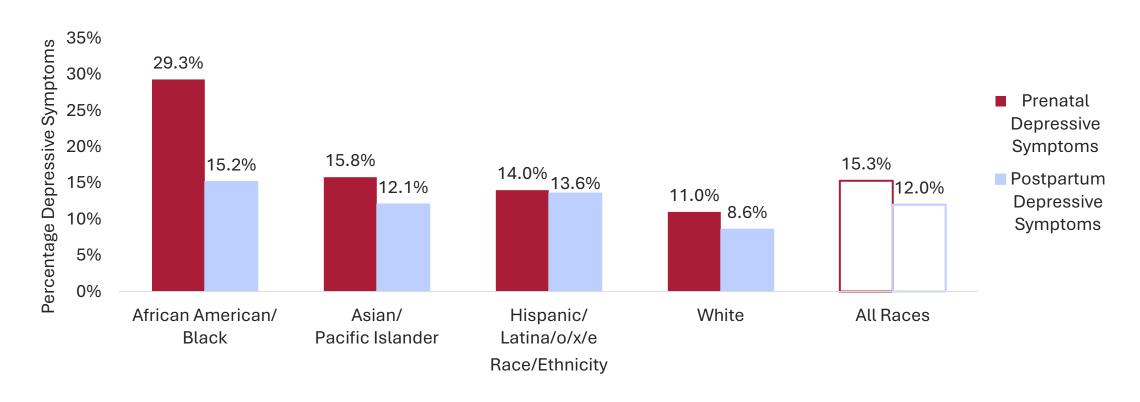




Alameda County Perinatal Mental Health

Inequities in depressive symptoms

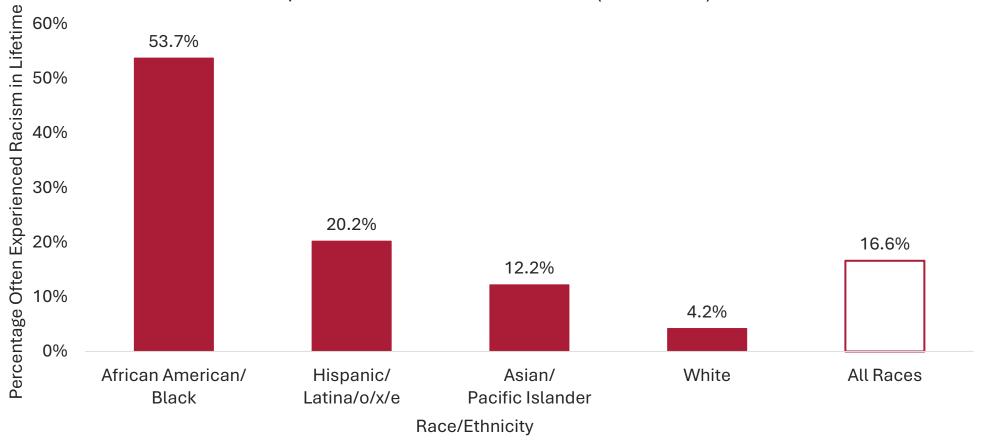
Alameda County Percentage of Women and Pregnant People who Experienced Depressive Symptoms During or After Pregnancy (2019-2021)





Experiencing racism

Alameda County Percentage of Women and Pregnant People who Often Experienced Racism over Lifetime (2019-2021)

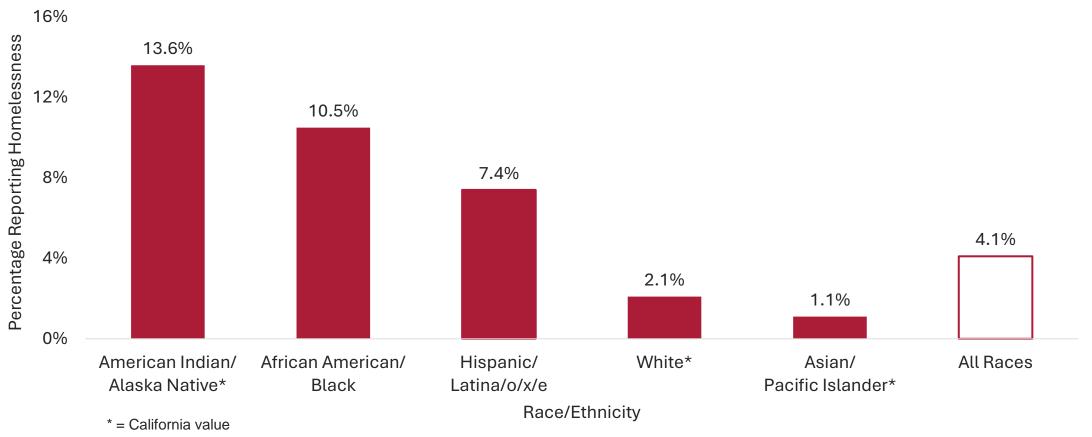




Alameda County
Perinatal Economic
Hardships and
Healthcare Utilization

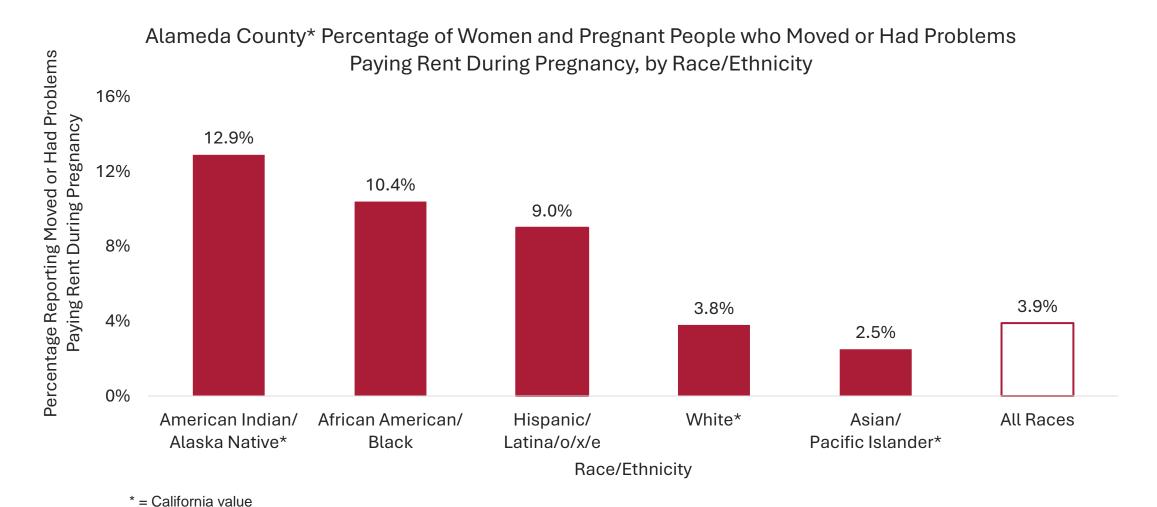
Inequities in homelessness or not have a place to sleep during pregnancy

Alameda County* Percentage of Women and Pregnant People who were Homeless or Did Not Have a Place to Sleep During Pregnancy (2019-2021)





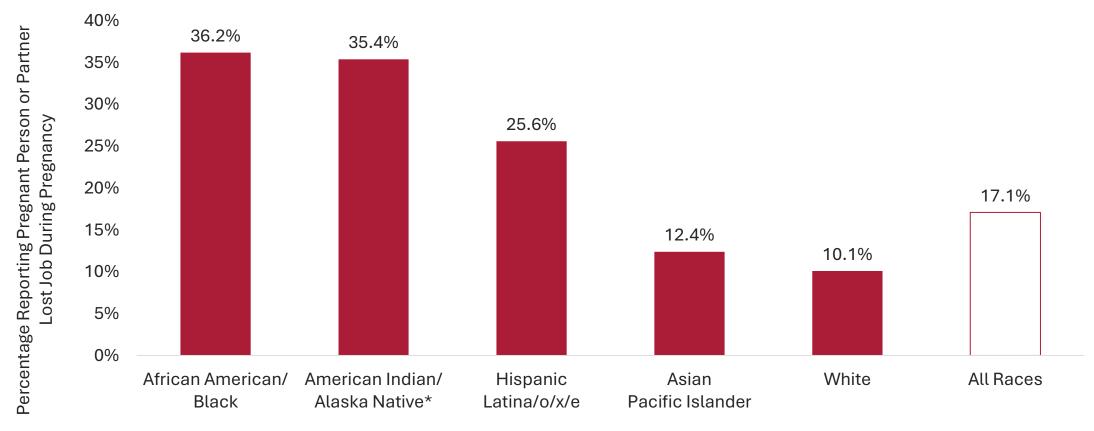
Inequities in housing insecurity





Inequities in pregnant people or their partners experiencing job loss

Alameda County* Percentage Reporting Pregnant Person or Partner Lost Job During Pregnancy, by Race/Ethnicity (2019-2021)

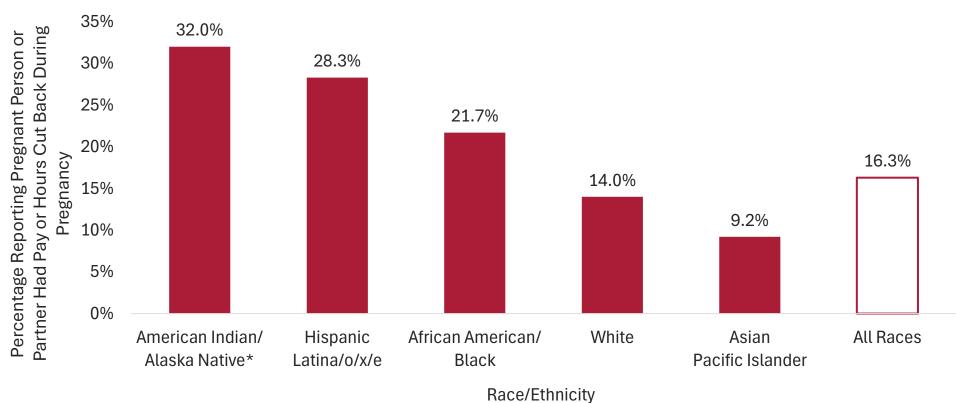


* = California value Race/Ethnicity

Public Health
Department
Alameda County Health

Inequities in Pregnant Person or Partner Had Pay or Hours Cut Back

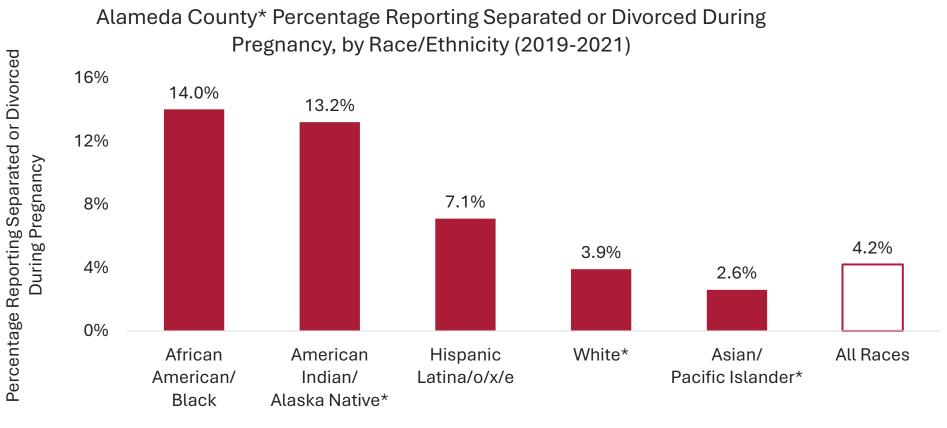
Alameda County* Percentage Reporting Pregnant Person or Partner Had Pay or Hours Cut Back During Pregnancy, by Race/Ethnicity (2019-2021)



^{* =} California value



Inequities in becoming separated or divorced during pregnancy



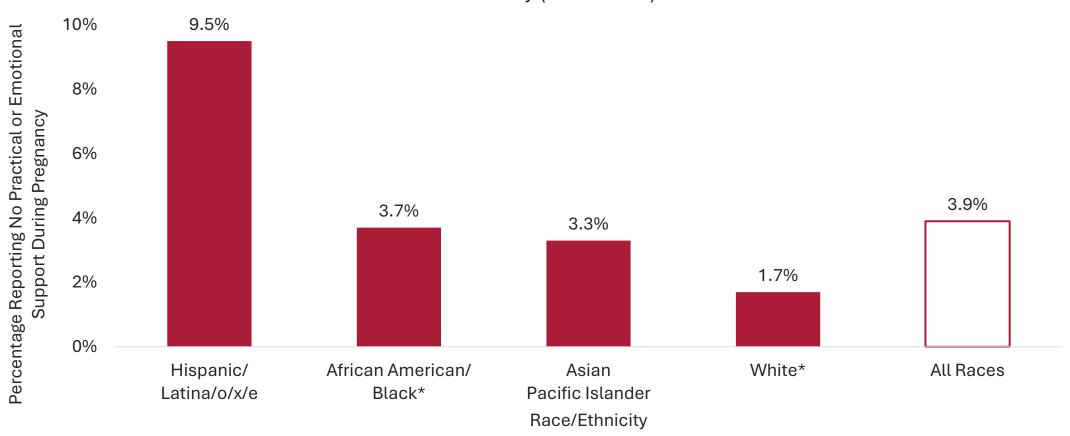
Race/Ethnicity



^{* =} California value

Inequities in practical or emotional support

Alameda County* Percentage Reporting Lacking Practical or Emotional Support by Race/Ethnicity (2019-2021)

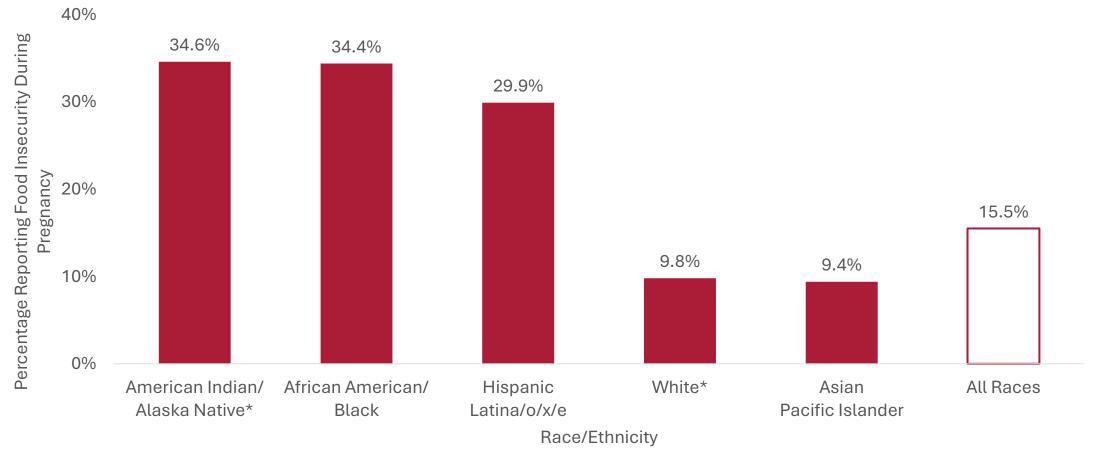


^{* =} California value



Inequities in food insecurity during pregnancy, 2019-2021

Alameda County* Percentage Reporting Food Insecurity by Race/Ethnicity (2019-2021)

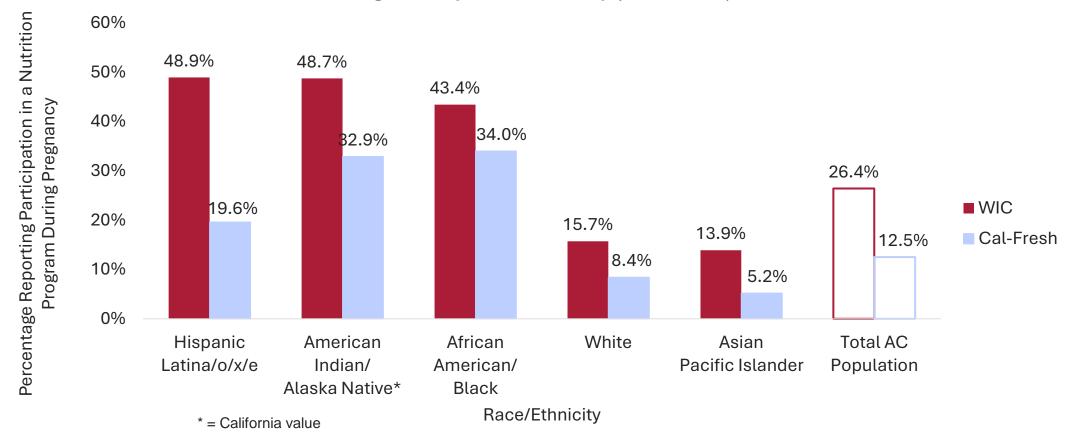


^{* =} California value



Racial and ethnic differences in participation in nutrition programs during pregnancy

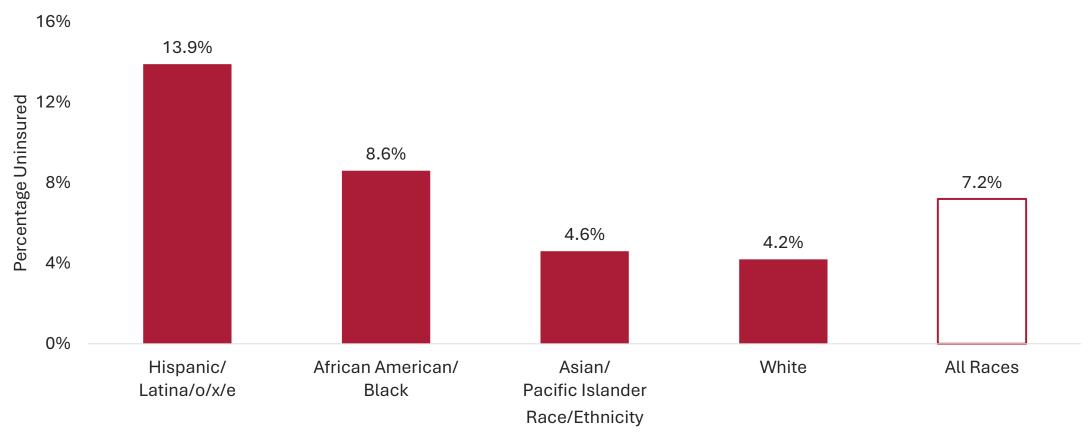
Alameda County Percentage of Women and Pregnant People Supported by Nutrition Programs, by Race/Ethnicity (2019-2021)





Inequities in being uninsured prior to pregnancy

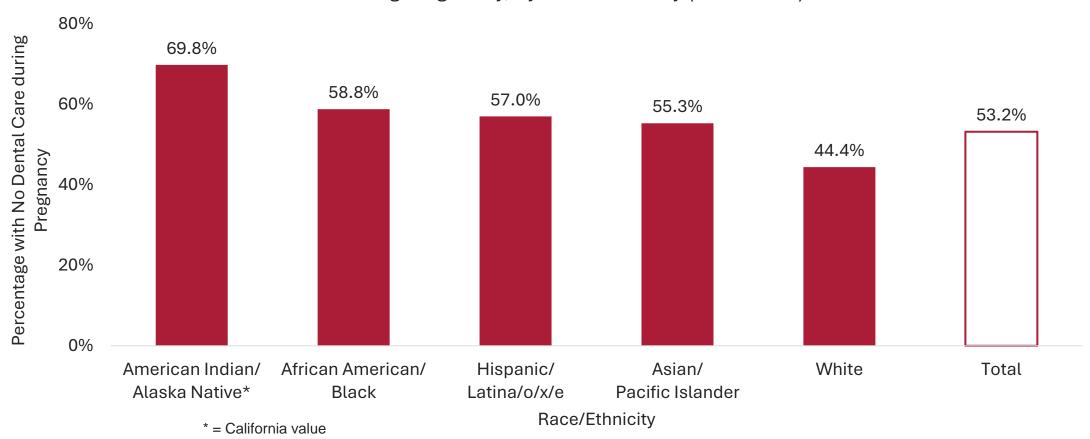
Alameda County Percentage of Women and Pregnant People who were Uninsured Pre-Pregnancy, by Race/Ethnicity (2019-2021)





Inequities in receiving dental care during pregnancy, 2019-2021

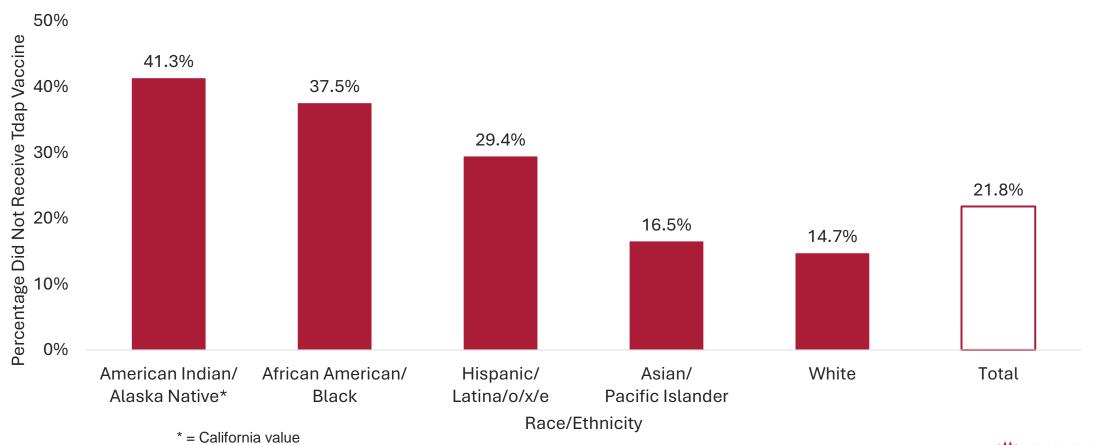
Alameda County* Percentage of Women and Pregnant People who Did Not Receive Dental Care During Pregnancy, by Race/Ethnicity (2019-2021)





Inequities in Tdap vaccine during pregnancy

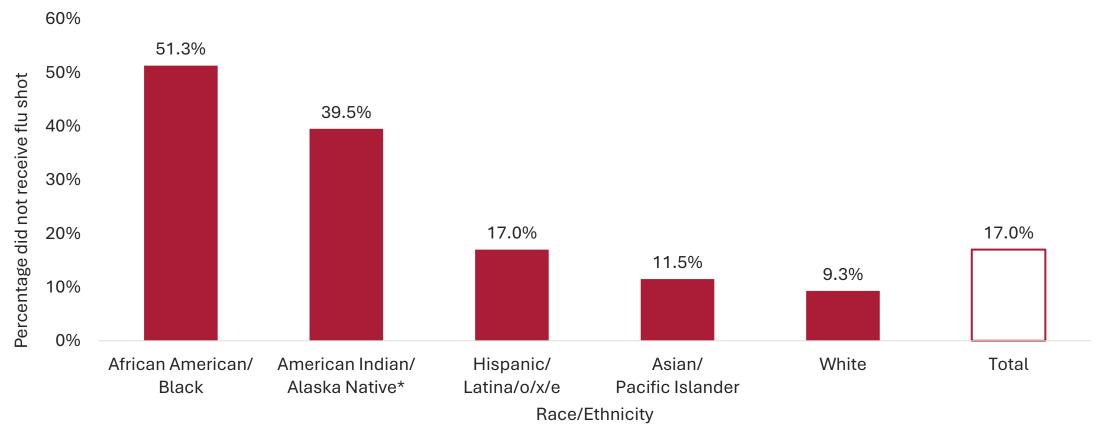
Alameda County Percentage of Women and Pregnant People who Did not Receive Tdap Vaccine During Pregnancy, by Race/Ethnicity (2019-2021)





Inequities in receiving flu shot during pregnancy

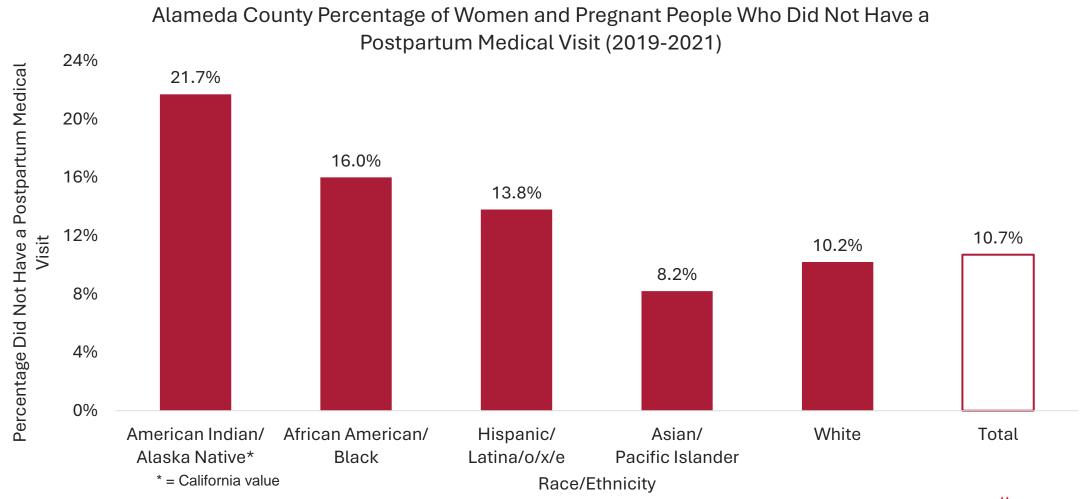
Alameda County Percentage of Women and Pregnant People who Did Not Receive Flu Shot During Pregnancy, by Race/Ethnicity (2019-2021)



^{* =} California value

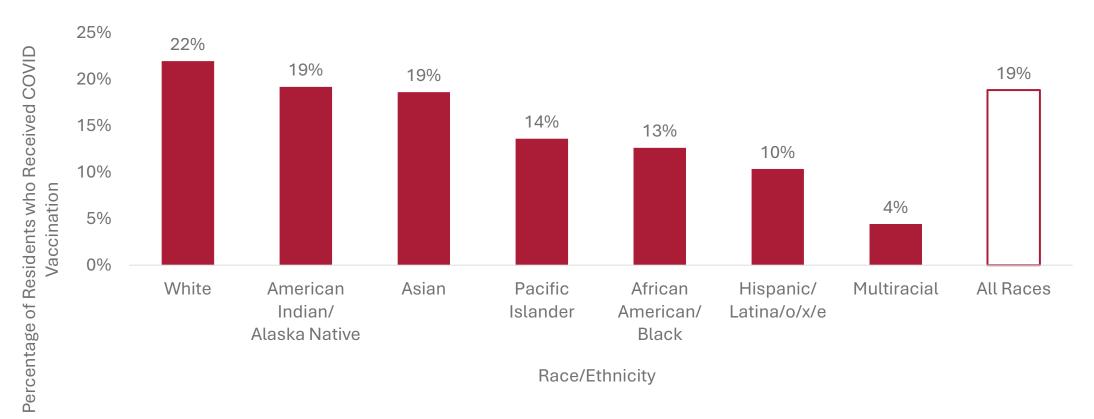


Inequities in postpartum medical visit



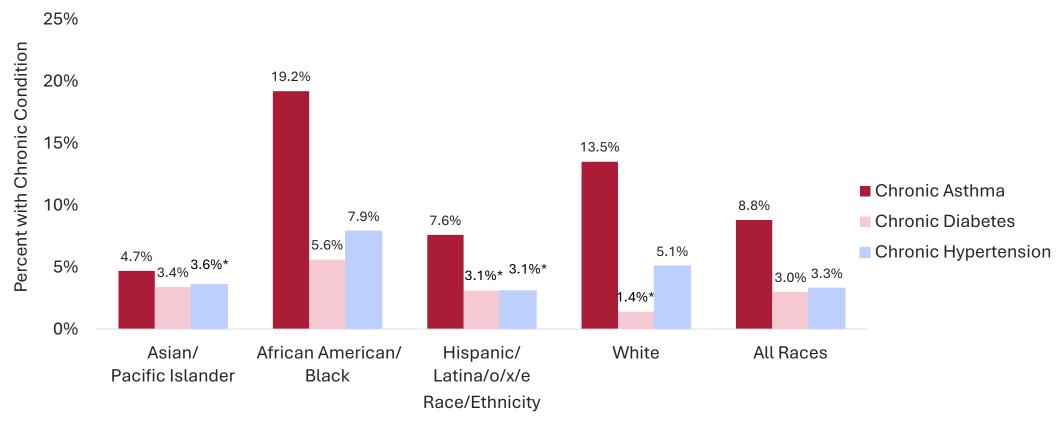
COVID-19 Vaccination Status

Alameda County Percentage of Residents Who Received COVID Vaccination, by Race/Ethnicity (2023)



Inequities in health before pregnancy

Alameda County* Percentage of Women and Pregnant People with Pre-pregnancy Chronic Conditions, by Race/Ethnicity (2019-2021)





Population Health Data Sources



Databases



California Comprehensive Birth File - CCBF (Birth Certificates) California Comprehensive Death File - CCDF (Death Certificates)

California Fetal Death File (Fetal Death Records) California Birth Cohort File (Linked Birth and Death Records)

California Hospital Data Files – HCAI (Emergency Department Visits and Hospitalizations)



Surveys



California Maternal and Infant Health Assessment - MIHA (Statewide Survey of Postpartum Women)

US American Community Survey (National Survey of US Households)

California Health Interview Survey - CHIS (Statewide Survey of CA Households)



Strengths & Limitations of Population Health Data

Strengths

- Birth and Death Databases most complete and accurate count of all births and deaths in AC.
- Hospital data best for medical diagnoses and procedures for childbirth, newborns and mothers' outcomes.
- □ Surveys best for population health status, behaviors, actions, utilization and social determinants.
- Population data identifies health inequities and measures trends.
- □ Population data allows for comparing within/across groups and meeting goals/objectives (HP2030, county rankings).

Limitations

- Lag time between when data collected and available.
- Underreporting data elements in birth and death databases (Medi-Cal births).
- Inconsistent definitions across data sources (race/ethnicity).
- Surveys capture small proportion (sample) of entire population at a single point in time.
- Selection, response and recall bias in surveys.
- Respondents may be hesitant to report status, behaviors, hardships (stigma).
- No information on birth experiences or quality of care in population data.



Additional Resources

Elaine Bautista,

MPCAH Epidemiologist,

Alameda County Public Health Department

Contact by phone at 510-268-2335 or by email:

elaine.bautista@acgov.org

Misha Taherbhai,

MPCAH Continous Quality Improvement Manager

Alameda County Public Health Department

Contact by phone at 510-667-4432 or by email:

misha.taherbhai@acgov.org

For Additional Maternal, Paternal, Child, Adolescent Health Indicators Go To:



