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State of Nevada Department of Health and Human Services

Title V Maternal and Child Health (MCH) Block Grant:

Data Updates

Division of Public and Behavioral Health

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Helping people. It's who we are and what we do.





Overview

During November's meeting, the following topic was presented:

- Examine the relationship between maternal periodontal disease and pregnancy outcomes. Research indicates inflammatory mediators from periodontal disease may pose a threat to the fetal-placental unit, resulting in adverse outcomes such as preterm birth and low birth weight¹
- Maternal periodontal disease as identified using Medicaid data and the relationship to preterm birth and low birth weight is inconclusive for Nevada





Overview

To examine the impact of dental health on pregnancy outcomes in more detail, Pregnancy Risk Assessment Monitoring Surveillance (PRAMS) data were analyzed.

- PRAMS is a joint pregnancy surveillance study between the Nevada Division of Public and Behavioral Health and the CDC which has been collecting data since 2017
- The PRAMS project randomly selects women in Nevada from birth certificates 2-3 months after birth to participate in a survey either by mail or telephone
- Data are collected on maternal attitudes and experiences before, during, and shortly after pregnancy.
- PRAMS has 6 questions related to dental health





Overview

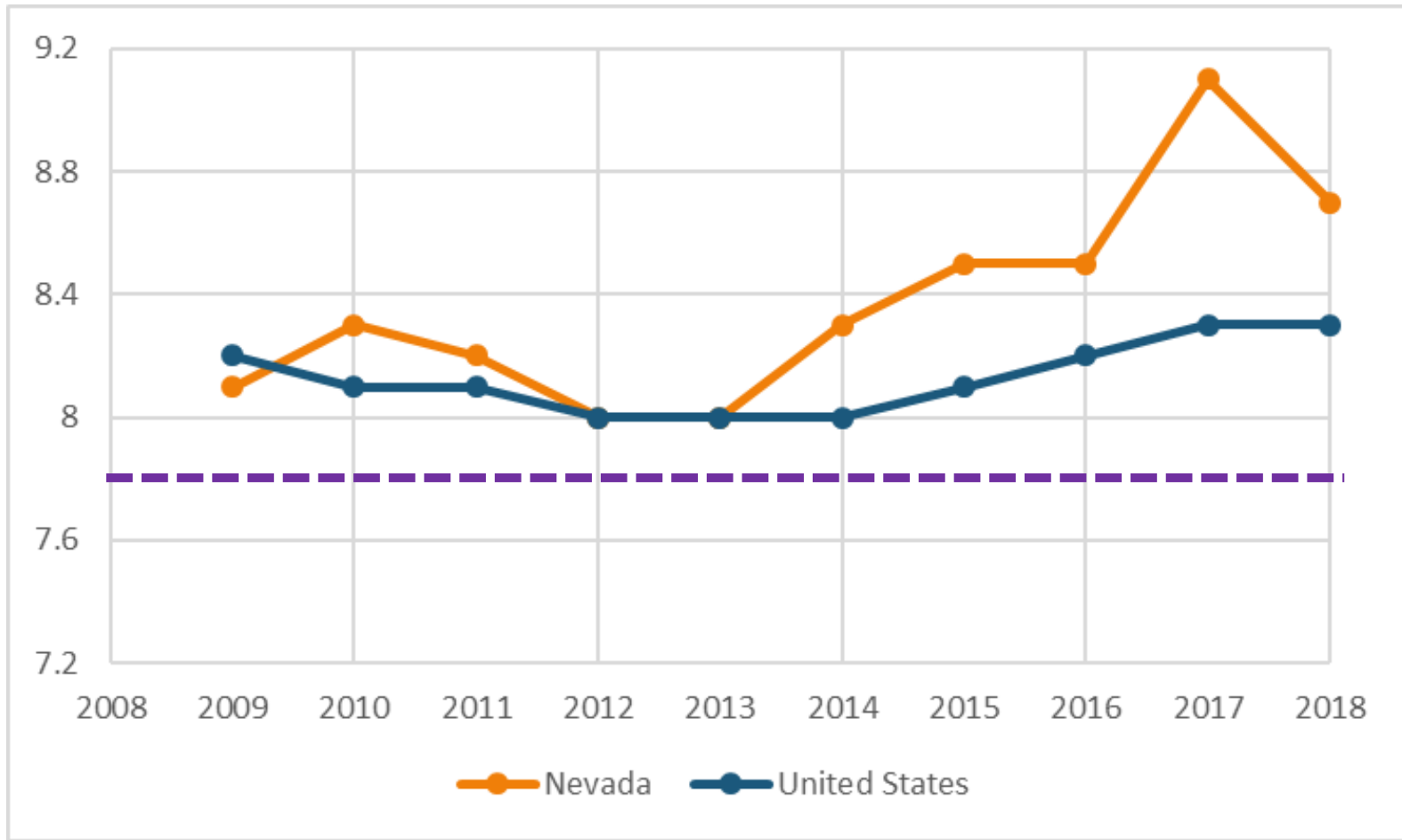
Examine the relationship between self-reported dental health factors from the PRAMS survey and birth outcomes such as low birth weight and preterm birth

2017 Nevada PRAMS data had a response rate of 41% and 2018 data had a response rate of 39%, which is under the Centers for Disease Control and Prevention (CDC) required response rate threshold of 55% to publish data. Interpret data with caution due to the response rate.





NOM 4: Percent Of Low Birth Weight Deliveries (<2,500 Grams)



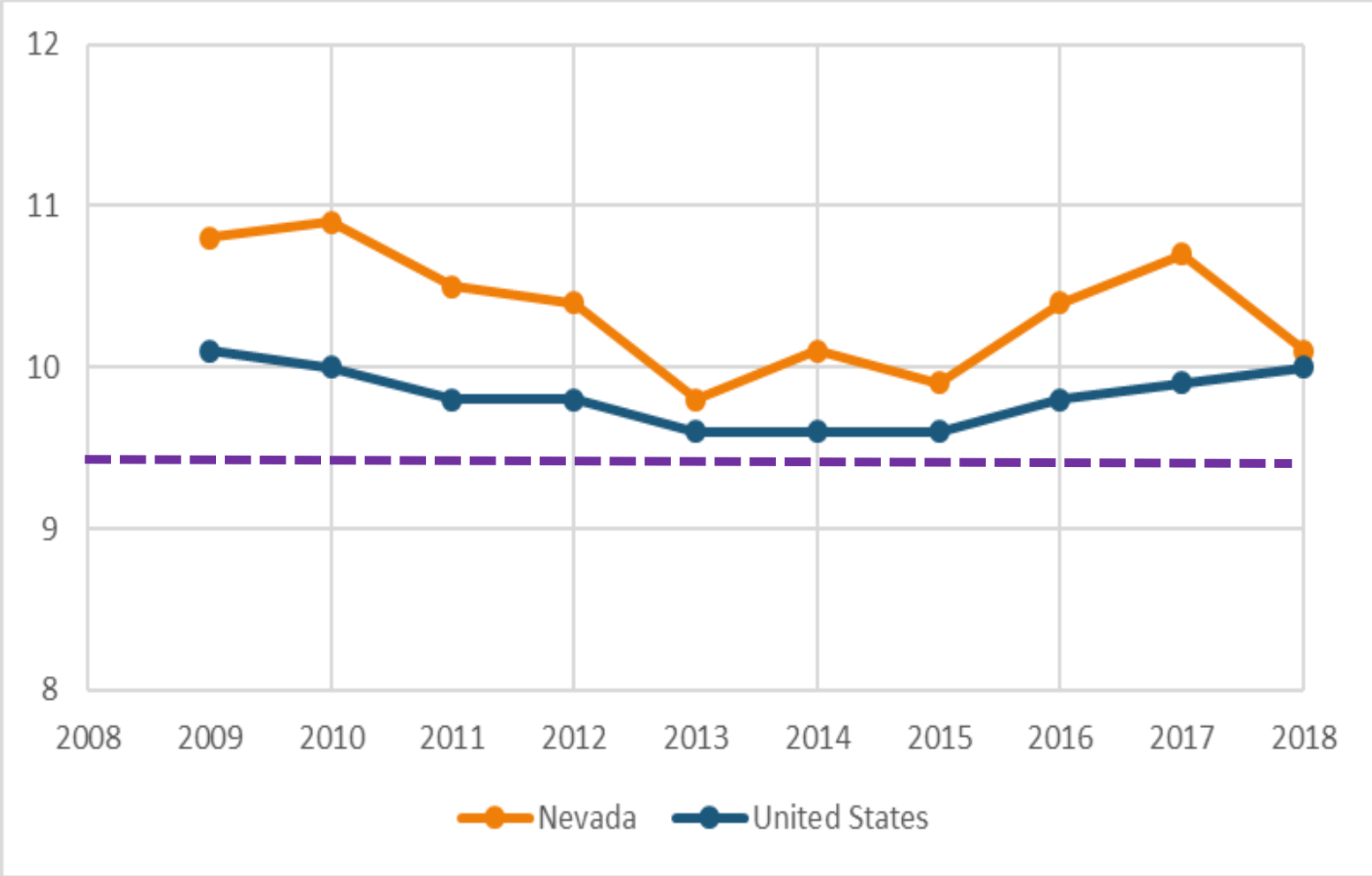
Healthy People 2020 Objective



Data Source: National Vital Statistics System (NVSS)



NOM 5: Percent Of Preterm Births (<37 Weeks Gestation)



Healthy People 2020 Objective



Data Source: National Vital Statistics System (NVSS)



Question 1: During *your most recent* pregnancy, did you have your teeth cleaned by a dentist or dental hygienist?

2017	Percent
Yes	36.82%
No	62.78%

n=497

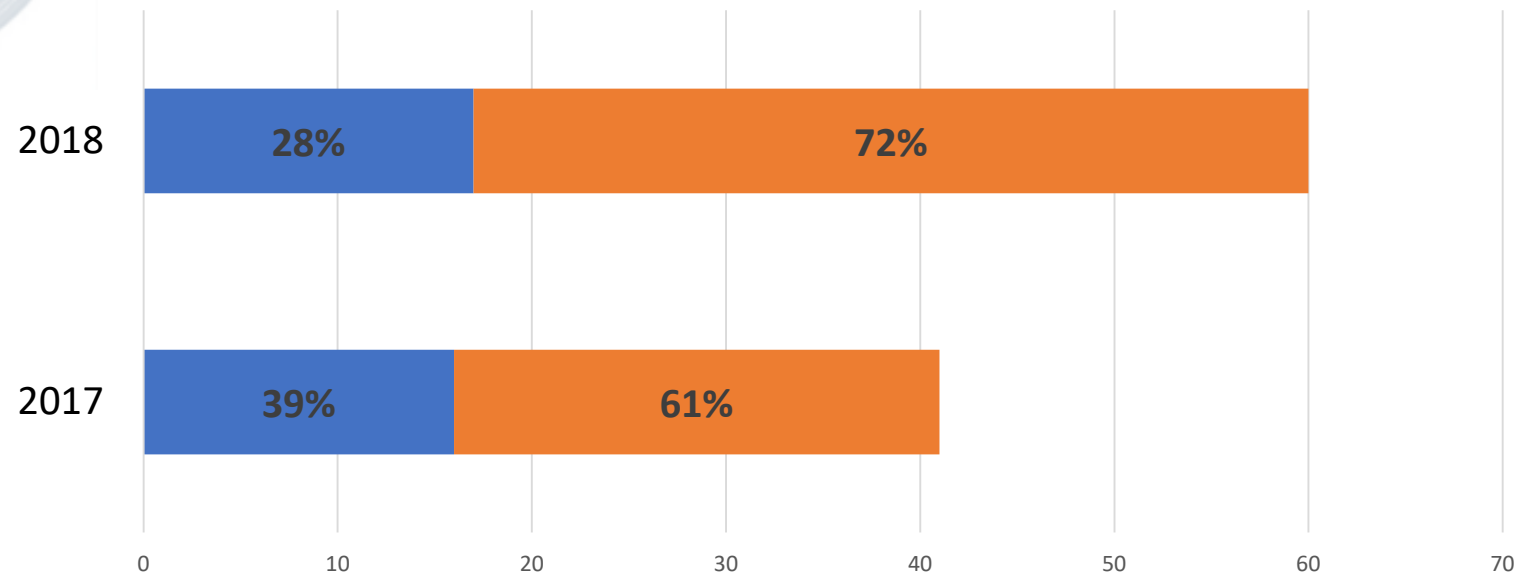
2018	Percent
Yes	35.78%
No	62.89%

n=830





PRAMS Low Birth Weight Deliveries (<2,500 Grams) by Teeth Cleaning During Pregnancy



	2017	2018
Teeth Cleaned	16	17
Teeth Not Cleaned	25	43

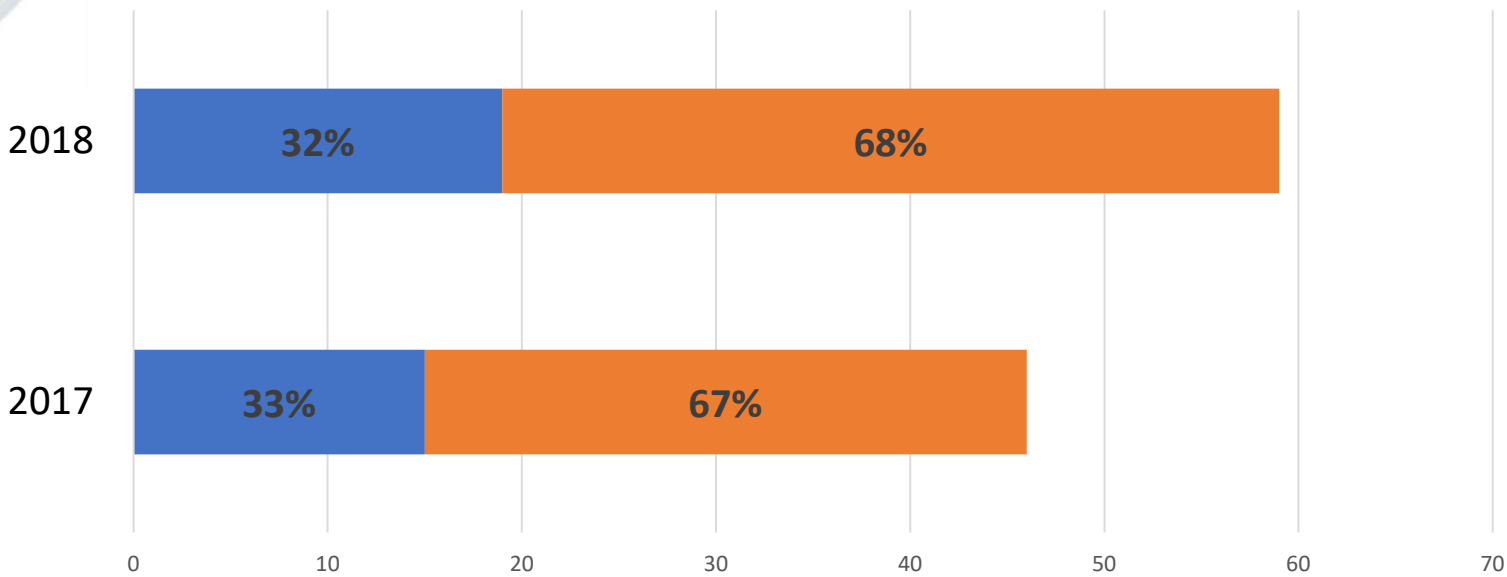
■ Teeth Cleaned ■ Teeth Not Cleaned

For normal birth weight deliveries in both 2017 and 2018, **37%** reported receiving a teeth cleaning during pregnancy.





PRAMS Preterm Births (<37 weeks) by Teeth Cleaning During Pregnancy



	2017	2018
Teeth Cleaned	15	19
Teeth Not Cleaned	31	40

■ Teeth Cleaned ■ Teeth Not Cleaned

For normal term deliveries in both 2017 and 2018, **37%** reported receiving a teeth cleaning during pregnancy.





Question 2: This question is about other care of your teeth *during your most recent pregnancy.*

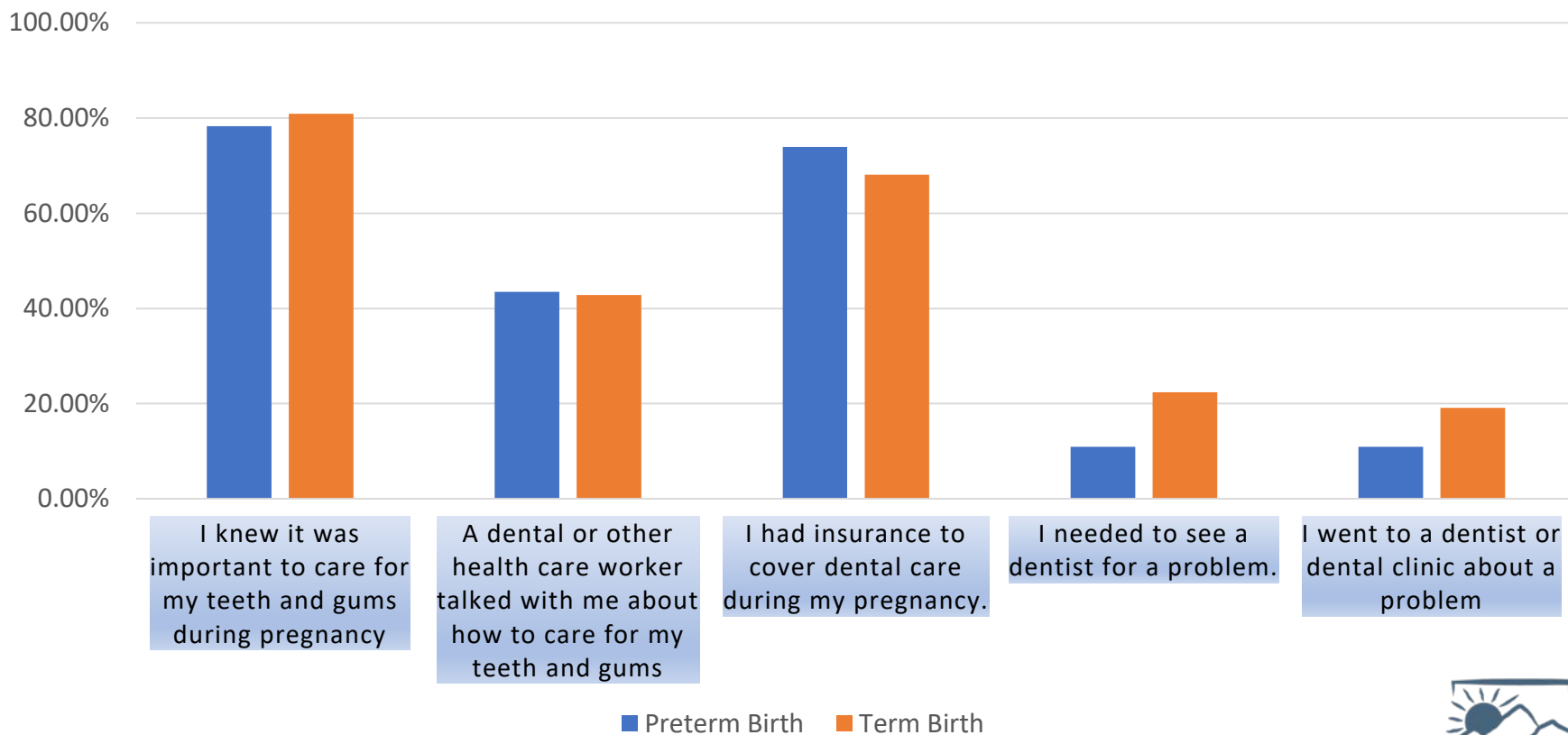
Percent Answering “Yes”

Dental Health Topics	2017	2018
I knew it was important to care for my teeth and gums during my pregnancy	80.7%	81.9%
A dental or other health care worker talked with me about how to care for my teeth and gums	42.9%	43.5%
I had insurance to cover dental care during my pregnancy.	68.6%	69.3%
I needed to see a dentist for a problem.	21.3%	17.7%
I went to a dentist or dental clinic about a problem	18.3%	12.8%



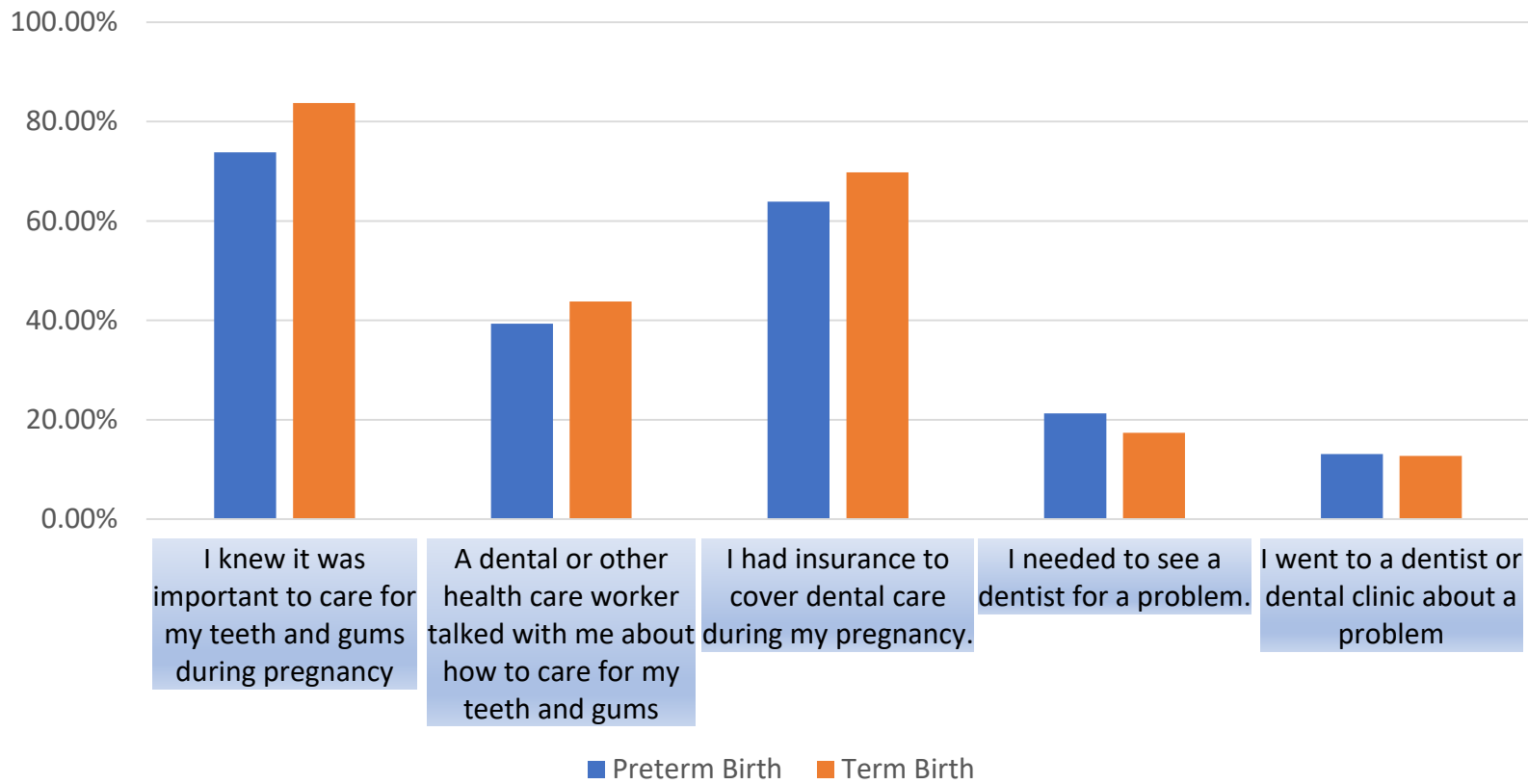


PRAMS 2017 Percent Answering “Yes” to Dental Health Topics by Preterm Birth



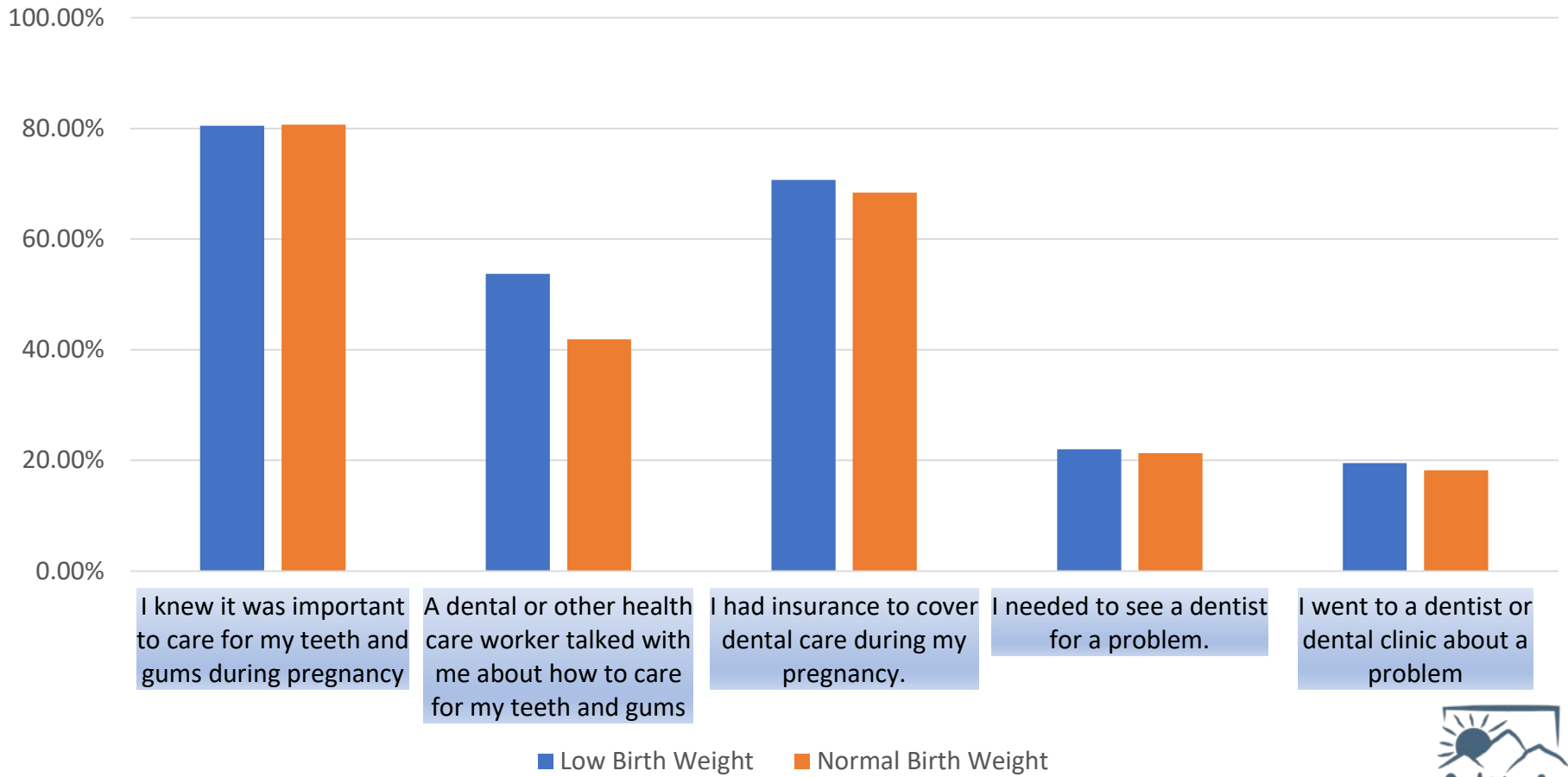


PRAMS 2018 Percent Answering “Yes” to Dental Health Topics by Preterm Birth



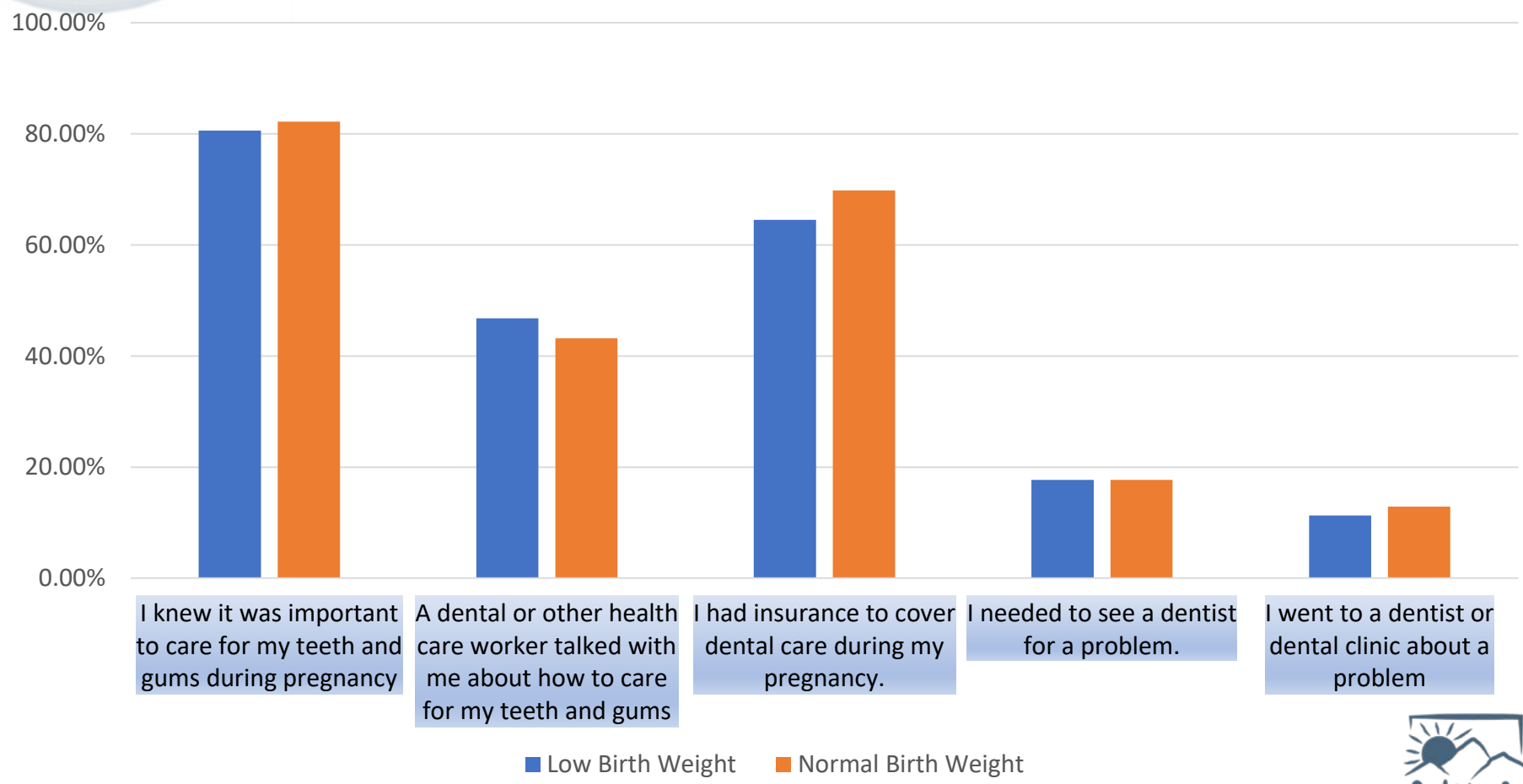


PRAMS 2017 Percent Answering “Yes” to Dental Health Topics by Low Birth Weight





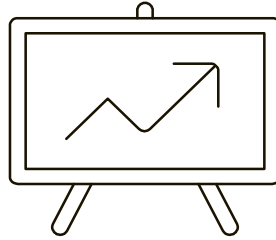
PRAMS 2018 Percent Answering “Yes” to Dental Health Topics by Low Birth Weight





Conclusions

- The majority of PRAMS respondents did not have a teeth cleaning during pregnancy, and slight differences were apparent between preterm birth and normal term, and low birth weight and normal birth weight.
- Dental health topic trends indicate the majority of PRAMS respondents did not have a health care worker talk to them about how to care for their teeth and gums.
- PRAMS will continue to collect data to monitor trends over time. 2019 data will be available around March 2021.



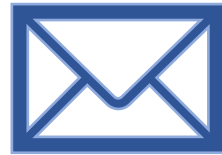
Questions?

Contact Information

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Acronyms

- HP 2020- Healthy People 2020
- MCH-Maternal and Child Health
- NOM-National Outcome Measure
- NVSS- National Vital Statistics System