



# UNEXPECTED DEATH: ALASKA NATIVE AND AMERICAN INDIAN INFANTS

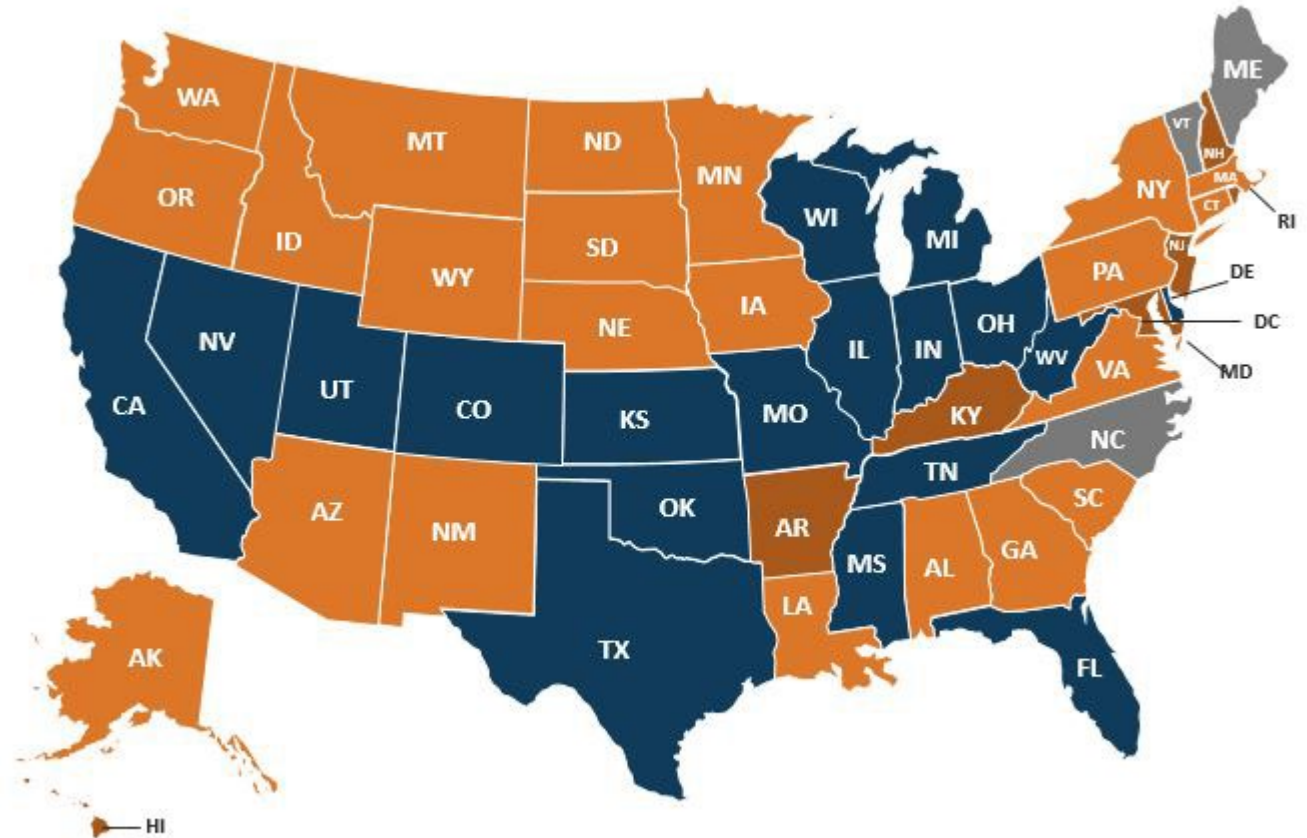
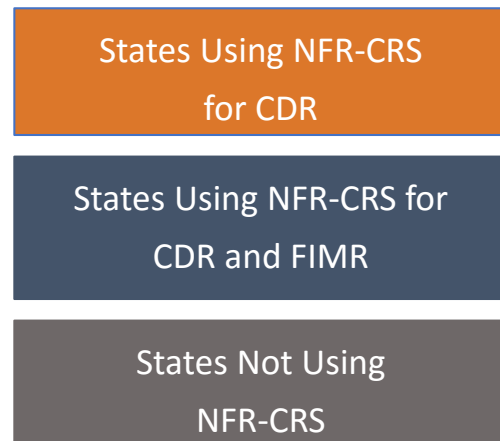
Telling Each Story to Save Lives Nationally

# NFR-CRS Utilization

There are currently 47 states using NFR-CRS

- 47 use NFR-CRS for CDR
- 18 use NFR-CRS for FIMR

Each state uses NFR-CRS differently. Some have comprehensive reviews whereas others may only use NFR-CRS in one jurisdiction.



# Examples of Journal Articles and Reports

Using NFR-CRS Data



## Explaining Sudden Unexpected Infant Deaths, 2011 - 2017

Sharyn E. Parks, PhD, MPH; Alexa B. Erck Lambert, MPH; Fern R. Hauck, MD, MS; Carri R. Cottengim, MA; Meghan Faulkner, MA; Carrie K. Shapiro-Mendoza, PhD, MPH  
<https://publications.aap.org/pediatrics/article/147/5/e202003587/3/180831/Explaining-Sudden-Unexpected-Infant-Deaths-2011>



## Sleep Related Infant Suffocation Deaths Attributable to Soft Bedding, Overlay, Wedging.

Erck Lambert AB, Parks SE, Cottengim C, Faulkner M, Hauck FR, Shapiro-Mendoza CK. Pediatrics. 2019 May;143(5):e20183408. doi: 10.1542/peds.2018-3408. PMID: 31010907; PMCID: PMC6637427.

<https://pubmed.ncbi.nlm.nih.gov/31010907/>



## NFR-CRS DATA FINDINGS

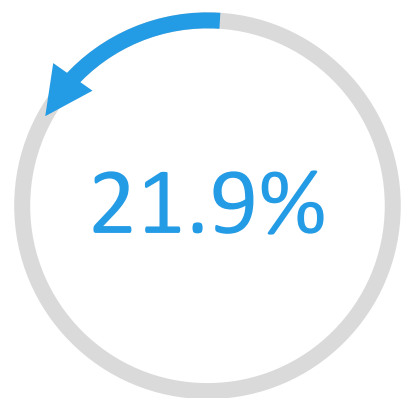
# AI/AN Unexpected Infant Deaths

- 28,110 infant deaths entered in NFR-CRS between 2005-2018 and available for research
- 866 infants had a race of AI/AN selected
- Missing and unknown varies and are excluded in the following data

# Factors Present in Unexpected AI/AN Infant Deaths

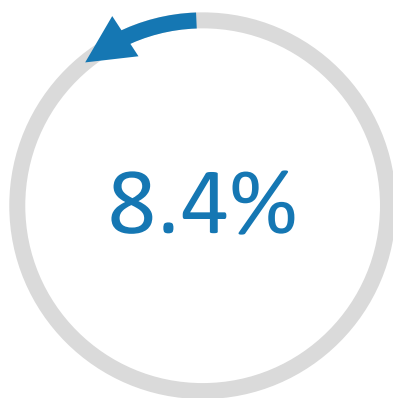
Data from NFR-CRS Researcher Data Set, Accessed June 2022

N= AI/AN infants = 866; All other races = 28,110



## HX MALTREATMENT

21.9% of AI/AN infants had a history of maltreatment compared to 12.2% of all other races



## OVERHEATING

8.4% of AI/AN infants had overheating indicated compared to 4.2% of all other races



## BREASTFED

70.9% of AI/AN infants were ever breastfed compared to 57.1% of all other races



## LOW BIRTHWEIGHT

16.3% of AI/AN infants were born weighing less than 2500 grams compared to 21.9% of all other races

# Smoke Exposure

Data from NFR-CRS Researcher Data Set, Accessed June 2022

N= AI/AN infants = 866; All other races = 28,110



## DURING PREGNANCY

49.3% of AI/AN infants were exposed to smoke at any time during pregnancy compared to 48.8% all infants



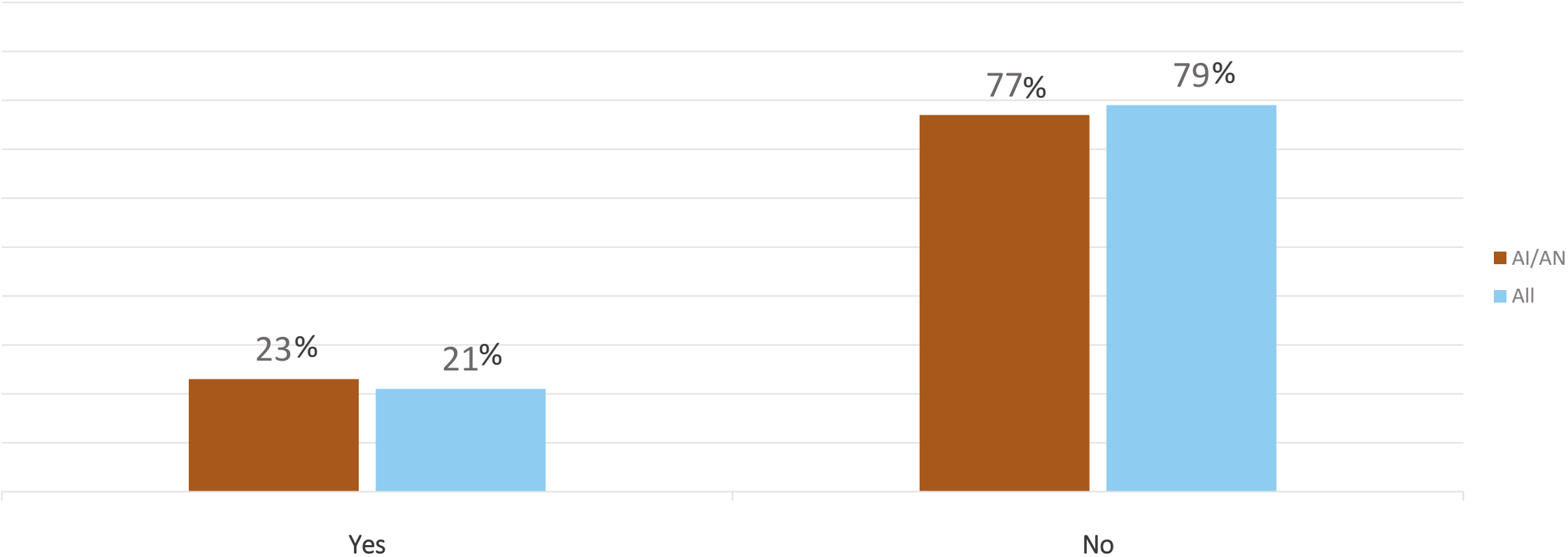
## AFTER DELIVERY

60.3% of AI/AN infants were exposed to smoke after delivery compared to 49.8% all infants

# Infant Placed in New Sleep Environment

Data from NFR-CRS Researcher Data Set, Accessed June 2022

N= AI/AN infants = 866; All other races = 28,110



# Room and Surface Sharing

Data from NFR-CRS Researcher Data Set, Accessed June 2022

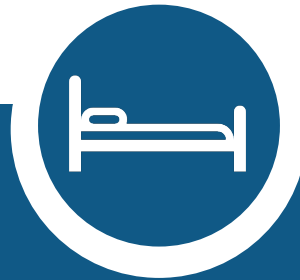
N= AI/AN infants = 866; All other races = 28,110



## ROOM SHARING



77.7% of AI/AN infants were room sharing at the time of their death (71.4% all other races)



## SURFACE SHARING



69.3% of AI/AN infants were sleeping on a shared surface (65.4% all other races)



## ROOM SHARING W/O SURFACE SHARING



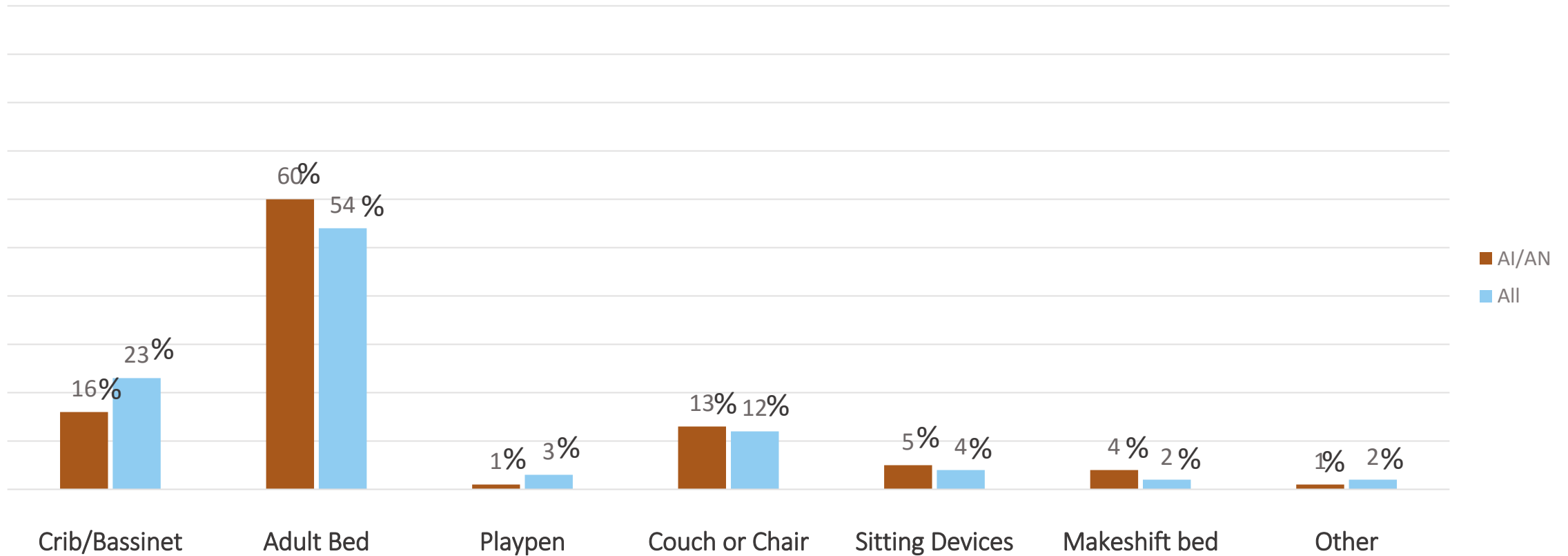
14.9% of AI/AN infants were room sharing without surface sharing (16.4% all other races)



# Sleep Surface (Placed to Sleep)

Data from NFR-CRS Researcher Data Set, Accessed June 2022

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Data quality could be improved through consistent access to records needed for fatality review and funding to support data collection and entry.



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