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The Impact of the SARS-CoV-2 Pandemic on OUD in Indian Country

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Disclosures

There are no relevant financial relationships with ACCME-defined commercial interests for anyone who was in control of the content of this activity.

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Objectives

- Impact of pandemic on addiction epidemic
- Impact of SARS-CoV-2 pandemic on OUD in Indian Country
- Epidemiology
- Tribal responses opioid epidemic



Pandemic

- Pandemic + unemployment + decreased personal and community supports
 - Social isolation and neglect lack of purpose
- Increases in PTSD, depression and chronic anxiety
- Substance use and/or comorbidities may increase risk for infection or severity of illness once infected
 - Increased cardiopulmonary disease among persons with SUD
- Social and psychological impact of pandemic and social isolation may drive substance use
 - Primary and secondary trauma
- Pandemic may reduce availability of treatment for SUD



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Pandemic and trauma

- Anxiety vs. panic
- Numbing and compassion fatigue
 - Survivor guilt
- Multiplicative trauma
 - SARS-CoV-2
 - Economic upheaval
 - Social isolation
 - Domestic violence
 - + historical and other trauma
- Moral injury unable to practice culture

UCSF 2020; CSTS 2020; Mock 2020

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Epidemiology

- 1.3% of COVID infections have been AI/AN
 - ▶ 3.3% of all COVID cases in ages 0-17 have been AI/AN
 - Mississippi Band of Choctaw Indians 500/100,000
 - ▶ Ho-Chunk Nation 800/100,000
 - Navajo Nation 1100/100,000
 - Pueblo of San Felipe 1400/100,000
 - Pueblo of Zia 3300/100,000
 - Lack of complete plumbing
 - Highest hospitalization rate: 167/100,000 vs. 34/100,000 for Whites
- AI/AN with highest substance OD deaths per 100,000
 - ► 2.9/100,000 in 1999 → 13.9 in 2016
 - Highest increase in overdose-related deaths at 519%





Project Different Los Angeles Regrated Subtance Abase Program

US Opioid overdose deaths - AI/AN



USDA, 2020

Zoom

- +

-



US Opioid overdose deaths - NHOPI

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USDA, 2020



CA Opioid overdose deaths - AI/AN

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USDA, 2020

Mental Illness and Substance Use Disorders Triba ΜΑΤ California Indian Country among AI/AN Adults (>18 y.o.) PAST YEAR, 2018 NSD Among AI/ANs with a substance use disorder: 1 IN 11 (9.1% or 15,000) struggled with illicit drugs and alcohol 10.8% 5.3% 22.1% (162,000)(79,000) (333,000) People aged 18 People 18+ had People aged 18 or older had a BOTH an SUD and or older had a substance use a mental illness mental illness disorder (SUD)

n 2018, **416,000** AI/AN adults had a mental and/or substance use disorder.



PAST YEAR, 2018 NSDUH, AI/AN 12+



Prescription Pain Reliever Misuse and Heroin Use among AI/ANs

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PAST YEAR, 2015-2018 NSDUH, AI/AN 12+



PAST YEAR, 2018 NSDUH, AI/AN 12+ SUBTYPE USERS Overall US population 16% 12+ 11.5% 42K 14% 14.1% 12% 10% 8% 6% 4% 2% * * * * * * * 0% Hydrocodone Oxycodone Codeine Tramadol Buprenorphine Morphine Methadone Fentanyl

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* Estimate not shown due to low precision.

Note: This table shows misuse among users. For example, 14.1 percent of AI/AN hydrocodone past year users have misused hydrocodone in the past year.



No differences between prior year estimates and the 2018 estimates are statistically significant at the .05 level.

PAST YEAR, 2015-2018 NSDUH, AI/AN 12+



* Estimate not shown due to low precision.

No differences between prior year estimates and the 2018 estimates are statistically significant at the .05 level.

PAST YEAR, 2015-2018 NSDUH, AI/AN 12+



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No differences between prior year estimates and the 2018 estimates are statistically significant at the .05 level.



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Osborne, Baum & Brown, 2013

Boarding school era		Relocation and reservation "termination" policies	Indian adoption era	Current issues
(1880s- 1950s)	(1950s-1960s)	(1950s-1978)	Today	
Great grandparent	Grandparent	Parent	Adult child	Child

A unified response to the opioid crisis in California Indian Country Tribal MAT roject

University of California Los Integrated Substance Abuse Pro

Myhr 2011

A FRAMEWORK FOR UNDERSTANDING THE SOCIAL DETERMINANTS OF HEALTH AND INDIGENOUS PEOPLE



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Tribal responses to OUD

Availability of MAT and OAT

- Tribal ECHO for SUD
- SAMHSA waivers for telehealth for new patients treated with buprenorphine
 - ▶ No waiver for initial physical exam for methadone
- Promotion of culture and value systems
 - Cultural affirmation and humility
 - Tribal courts and peacemaking
- Harm reduction services
- Working from strength-based, client-centered model



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References

- Al-Hasani R, Bruchas MR. Molecular Mechanisms of Opioid Receptor-Dependent Signaling and Behavior. Anesthesiology. 2011;115(6):1363-1381. doi:10.1097/ALN.0b013e318238bba6.
- Alim TN, Lawson WB, Feder A, et al. Resilience to Meet the Challenge of Addiction: Psychobiology and Clinical Considerations. *Alcohol Research : Current Reviews*. 2012;34(4):506-515.
- Brennan GM, Hyde LW, Baskin-Sommers AR. Antisocial pathways associated with substance use disorders: characterizing etiological underpinnings and implications for treatment. Curr Op Behav Sci. 2017;13:124-129.
- Center for Study of Traumatic Stress. Mental health and behavioral guidelines for preparedness and response to coronavirus and other emerging infectious outbreaks. Bethesda, MD: 2020. Available at: https://www.cstsonline.org/assets/media/documents/CSTS_FS_Mental_Health_Behavioral_Guidelines_Response_to_Coronavirus_Outbreak.pdf. Accessed June 5, 2020.
- Herman-Stahl M, Spencer DL, Duncan, JE. The implications of cultural orientation for substance abuse in American Indians. 2002;11(1):46-66.
- Lijffijt M, Hu, K, Swann AC. Stress modulates illness-course of substance use disorders: a translational review. Front Psychiatry. 2014. https://doi.org/10.3389/fpsyt.2014.00083.
- Manning V, Verdejo-Garcia A, Lubman DI. Neurocognitive impairment in addiction and opportunities for intervention. Curr Op Behav Sci. 2017;13:40-45.
- Mehendale1 AW, Goldman MP, Cizerle K, Parvin TL (2016) The Problem of Outcomes in Addiction Treatments, the Inconvenient Truths. J Add Pre Med 1(1): 102.

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- Memim.com. Ventral tegmental area. Available at: <u>http://memim.com/ventral-tegmental-area.html</u>. Accessed February 9, 2020
- Mock J. Psychological trauma is the next crisis for coronavirus health workers. Sci Am. 2020;322(6):36-37. doi:10.1038/scientificamerican0620-36.
- Myrha LL. It runs in the family: intergenerational transmission of historical trauma among urban American Indians and Alaska Natives in culturally specific sobriety programs. Am Indian Alaska Native Health Res 2011;18(2):17-40.
- National Institutes of Health. National Institute on Drug Abuse. The neurobiology of drug addiction. Available at: <u>https://www.drugabuse.gov/publications/teaching-packets/neurobiology-drug-addiction/section-iii-action-heroin-morphine</u>. Accessed February 14, 2017.
- NIDA (2016). Misuse of Prescription Drugs. Retrieved February 14, 2017, from <u>https://www.drugabuse.gov/publications/research-reports/misuse-prescription-drugs</u>
- Northwest Portland Area Indian Health Board. Tribal Opioid Response National Strategic Agenda. Portland, OR: 2020. Available at: <u>http://www.npaihb.org/wp-</u> content/uploads/2020/03/NPAIHB_TOR_Agenda_Booklet_FINAL.pdf. Accessed June 4, 2020.
- Ornell F, Moura HF, Scherer JN, Pechansky F, Kessler FHP, von Diemen L. The COVID-19 pandemic and its impact on substance use: Implications for prevention and treatment [published online ahead of print, 2020 May 13]. *Psychiatry Res.* 2020;289:113096. doi:10.1016/j.psychres.2020.113096
- Pahng AR, McGinn MA, Paulsen RI, Edwards S. The prefrontal cortex as a critical gate of negative affect and motivation in alcohol use disorder. Curr Op Behav Sci. 2017;13: 139-143. <u>http://dx.doi.org/10.1016/j.cobeha.2016.11.00.</u>
- Parkhurst ND, Burke A, Montiel A... Ritchey J. The opioid epidemic in Indian Country. Inter Tribal Council of Arizona Tribal Epidemiology Center. October 2018. Available at: <u>https://itcaonline.com/wpcontent/uploads/2018/10/ITCA-TEC-Opioid-Report-2018.pdf</u>. Accessed June 4, 2020.



Sadhasivam S, Chidambaran V. Pharmacogenomics of opioids and perioperative pain management. Pharmacogenomics. 2012;13(15):1719-1740.

<u>Sederer LJ. What past disasters tell us about COVID-19 and substance abuse. *Medscape Family Medicine*.</u> <u>May 18, 2020. Available at:https://www.medscape.com/viewarticle/930594</u>. Accessed June 4, 2020.

Tipps RT, Buzzard GT, McDougall JA. The Opioid Epidemic in Indian Country. *J Law Med Ethics*. 2018;46(2):422-436. doi:10.1177/1073110518782950

University of California San Francisco. Emotional well-being and coping during COVID-19. 2020. Avaiable at: https://psychiatry.ucsf.edu/coronavirus/coping. Accessed June 5, 2020.

US Department of Agriculture. Opioid misuse tool. 2020 Available at: <u>https://opioidmisusetool.norc.org</u> Accessed June 5, 2020.

Volkow ND. Collision of the COVID-19 and addiction epidemics. *Annals Intern Med.* 2020 Apr 2;M20-1212. doi: 10.7326/M20-1212.