REPORT OF THE BOARD OF TRUSTEES

	Subject:	Safe and Effective Overdose Reversal Medications in Educational Settings
	Presented by:	Willie Underwood, III, MD, MSc, MPH, Chair
	Referred to:	Reference Committee B
1 2	INTRODUCTIO	N
2 3 4 5 6	(HOD), Resoluti	ual Meeting of the American Medical Association (AMA) House of Delegates on 217 entitled, "Increase Access to Safe and Effective Overdose Reversal Educational Settings," was adopted. This resolution called on the AMA to:
7 8 9 10 11 12 13 14	 Encourage states, communities, and educational settings, to adopt legislative and regulatory policies that allow schools to make safe and effective overdose reversal medications naloxone readily accessible to staff and teachers to prevent opioid overdose deaths in educational settings; Encourage states, communities, and educational settings to remove barriers to students carrying safe and effective overdose reversal medications; and Study and report back on issues regarding student access to safe and effective overdose reversal medications. 	
15 16 17 18 19 20 21	Safe and Effective third resolve of t	ed the resolution, which has been codified at Policy H-95.908, "Increase Access to ve Overdose Reversal Medications in Educational Settings." In response to the he HOD action, this report provides background information, a discussion on in schools and other educational settings, relevant AMA advocacy initiatives, and
21 22 23	BACKGROUNI)
24 25 26 27 28 29 30 31	More than 2,200 adolescents (ages 10-19) died of a drug-related overdose between July 2019- December 2021, with nearly 84 percent of these deaths involving illicitly manufactured fentanyl. An opioid of any type was involved in more than 91 percent of deaths, according to the Centers for Disease Control and Prevention (CDC). ¹ Naloxone was administered only 30 percent of the time, according to the CDC. ² Unintentional drug overdose deaths among young people (ages 15-19) continued to remain high in 2022, according to the National Institute on Drug Abuse (NIDA). ³ Two-thirds of those who died did not have any history of prior opioid use. ⁴	
32 33 34 35 36 37	and other hospita 1990s through ha intramuscular inj with a product an	eated in the 1960s and subsequently began being used in emergency departments al settings. ⁵ Naloxone distribution in the community became more prevalent in the arm reduction organizations. ⁶ Naloxone is most commonly administered via fection or intranasal spray, and user preference may vary depending on familiarity and how to use it. ⁷ With respect to availability in schools and other educational al spray formulation is most commonly cited in school educational resources and

1 guidelines. It is important to emphasize, however, that the AMA does not endorse any specific

2 brand or generic formulation of naloxone or other U.S. Food and Drug Administration (FDA)-

3 approved opioid overdose reversal agents. While it is beyond the scope of this report to review the

- 4 several decades of life-saving benefits of naloxone, it is notable that AMA policy supports
- 5 continued development of and access to additional medications to reverse opioid-related overdoses.
- 6 7

Access to naloxone in the community has increased considerably in the past decade. From

8 2012-2017, naloxone prescriptions dispensed in the United States grew from 1,061 prescriptions to

9 nearly 270,000 prescriptions.⁸ Naloxone prescriptions dispensed increased to nearly 1.7 million

10 prescriptions in 2022. Based on our strong policy, the AMA continues to urge all physicians to

prescribe naloxone or other overdose reversal medications to patients at risk of overdose—and to friends and family of those who might be in a position to save a life from overdose. The AMA also

13 continues to encourage physicians and physician offices to educate patients about the availability of

14 naloxone and other overdose reversal agents available over the counter, from pharmacists via a

15 standing order, or reversal agents that may be available through public health agencies. The

16 National Association of Counties details multiple strategies and examples to increase state- and

17 community-level distribution of naloxone.⁹

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In addition to physicians' increasing efforts in prescribing naloxone, the AMA also recognizes the
 longstanding role that harm reduction organizations have played in saving lives from overdose.

Harm reduction and other community-based organizations distributed more than 3.7 million doses of naloxone between 2017–2020.¹⁰ From August 2021 to July 2023, national harm reduction

organization, Remedy Alliance For The People, sent 1,639,542 doses of generic injectable

naloxone to 196 harm reduction projects in 44 US states, DC, and Puerto Rico, of which

25 206,371 doses were provided at no-cost to 138 under-resourced harm reduction projects.¹¹

26 Naloxone has saved hundreds of thousands of lives in the United States, and the Board of Trustees

continues to strongly support all efforts to increase access to naloxone and other opioid overdosereversal agents.

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30 DISCUSSION

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Increasing access to naloxone was one of the first recommendations of the AMA Substance Use and Pain Care Task Force (Task Force),¹² which was first convened in 2014 and remains a vital part of ensuring that organized medicine communicates emerging issues and policies to improve outcomes and save lives. The Task Force's work, including providing input on and development of AMA model state legislation¹³ to increase access to naloxone, has been part of every state now having broad naloxone access laws.¹⁴

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AMA model legislation also includes broad authority and immunities for high schools, universities, and other educational settings to possess, distribute and administer naloxone to teachers, staff, and students. As a result of AMA and other organizations' advocacy, approximately 30 states authorize educational settings to administer naloxone, and it varies by state regarding whether that includes elementary schools, high schools, or schools of higher education.¹⁵

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45 Multiple school districts and universities already provide naloxone and overdose prevention and 46 education opportunities. While the total number continues to grow, representative examples can be

found in Southwest Virginia, where nearly all schools carry naloxone,¹⁶ and the state itself has

48 amended its laws to authorize the ability for schools and school employees to carry, administer, and

49 distribute naloxone.¹⁷ All schools in the Miami-Dade public school system carry naloxone,

50 although it is most commonly held by school public safety officials.¹⁸ One student remarked that

51 she carries naloxone in her purse because, "Our friends do not know that those pills are more than

likely to be fake [or] have enough fentanyl in it to kill you. And that is scary. I carry Narcan in my 1 2 school bag. If I am going to a party, I will put it in my purse. It is just a layer of protection. You 3 wear your seatbelt not because you are going get in a car accident. It is to keep yourself safe." 4 5 Additional examples of schools, universities and other educational settings carrying naloxone: 6 7 University of Pennsylvania Perelman School of Medicine-medical students are taught • 8 how to recognize signs of overdose and administer naloxone on their first day of medical 9 school.19 University of Southern California—a group of pharmacy students found that once they 10 • started a naloxone education and distribution program, demand outpaced expectations.²⁰ 11 12 Vanderbilt University-makes naloxone and other harm reduction supplies available for • 13 individuals as well as at public locations throughout campus.²¹ 14 Akron (Ohio) School District—voted to approve naloxone availability in schools in 2017.²² • Columbia (NY) University-students who carry naloxone have saved lives from overdose 15 in the community²³ and in schools. Naloxone education events have occurred since 2018 16 and resulted in "more than 2,500 students, faculty, staff and community members on how 17 18 to recognize an overdose and administer treatment."24 19 University of South Carolina-naloxone is accessible at the university fitness center, • school pharmacy and other locations.²⁵ 20 21 Montana—authorizing naloxone distribution and use in schools has been one part of the • 22 state's naloxone efforts, which distributed more than 26,000 naloxone kits to first 23 responders, law enforcement, schools, and others.²⁶ 24 • Texas—schools now are required to carry naloxone, which has been administered multiple times to save the life of a young person, according to news reports.²⁷ 25 26 27 This short list above of high schools, universities, and other settings is a very brief snapshot showcasing the fact that school districts recognize the value of having naloxone in educational 28 29 settings. Given the rapid adoption of efforts to increase access to naloxone in school-based settings, 30 data on the total number of educational settings with naloxone is not currently available. The Board 31 of Trustees strongly encourages these trends to continue. 32 33 The Board of Trustees also wants to continue to dispel myths about naloxone. The Board is aware 34 of ongoing myths that naloxone may increase risky drug use behaviors. Much like debunked and dangerous myths of how use of seatbelts encourages risky driving; that the presence of fire 35 36 hydrants encourages arson; or "that HPV vaccination increases promiscuity or increases risky sexual behavior,"²⁸ the presence and availability of naloxone has consistently been found to not 37 38 increase use of drugs or increase risk of overdose. For example, a 2023 study found that "Naloxone 39 access laws and pharmacy naloxone distribution were more consistently associated with decreases rather than increases in lifetime heroin and [injection drug use] among adolescents."²⁹ The study 40 authors make clear that "Our findings therefore do not support concerns that naloxone access 41 42 promotes high-risk adolescent substance use behaviors." A smaller study of heroin users found "no 43 evidence of compensatory drug use following naloxone/overdose training."³⁰ And a report from 2010 looking at multiple myths cited multiple studies disproving the link between naloxone 44 availability and increased drug use.³¹ The Board of Trustees further emphasizes that while the 45 46 Board does not support illicit drug use, it unequivocally supports efforts to save lives from 47 unintentional drug-related overdose, including dispelling myths and supporting widespread 48 availability of naloxone and other opioid overdose reversal agents. The limitations of naloxone, 49 however, should be recognized. NIDA advises that "People with physical dependence on opioids 50 may have withdrawal symptoms within minutes after they are given naloxone. Withdrawal

1 symptoms might include headaches, changes in blood pressure, rapid heart rate, sweating, nausea,

2 vomiting, and tremors."³² NIDA aptly points out, however, that "The risk of death for someone

3 overdosing on opioids is worse than the risk of having a bad reaction to naloxone." The Board of

- 4 Trustees agrees that death is a greater harm than withdrawal symptoms.
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6 As noted in the 2023 AMA Overdose Epidemic Report, overdose and death related to illicitly 7 manufactured fentanyl, methamphetamine and cocaine increase; and xylazine and other toxic 8 synthetic adulterants present new challenges. Naloxone does not reverse an overdose related to 9 methamphetamine, cocaine or other toxic substances. Naloxone also does not work to counteract 10 overdose related to alcohol, benzodiazepines or xylazine, which may increase the sedative effects 11 of opioids, making the antagonist effects of naloxone appear not as rapid or sustaining.³³ 12 Polysubstance use, moreover, may be intentional or unintentional as illicit substances may contain multiple toxic adulterants, including illicitly manufactured fentanyl.³⁴ The CDC, SAMHSA, NIDA 13 and many other leading public health organizations, including the AMA, continue to counsel that in 14 15 addition to immediately calling 911, it is still advised to administer naloxone because it is likely an 16 opioid is present, and naloxone will not harm an individual. The Board of Trustees agrees and 17 further points out that if an individual's overdose is related to multiple substances, administering naloxone could help reduce respiratory depression. Again, the benefits of naloxone outweigh the 18 19 limitations. 20

The presence of fentanyl in the nation's illicit drug supply also has raised the question of whether additional doses of naloxone are necessary, greater dose strengths, or different opioid overdose reversal medication (OORM) work more effectively than another. According to SAMHSA, the evidence shows that:

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- Giving more than one dose of naloxone and using higher dose products may not be necessary when responding to a known fentanyl overdose.
- An overdose may appear to need additional doses if other sedating drugs are present in the person's body, such as alcohol, benzodiazepines, or xylazine; however, rapidly giving
 more naloxone or using a stronger, more concentrated OORM will not necessarily speed up the reversal process.

33 In fact, SAMHSA reports that "Multiple studies have found that despite the presence of fentanyl, more doses were not associated with improved outcomes."35 The Board of Trustees further 34 35 emphasizes that there are multiple OORM that have been approved by the FDA. The AMA does not take a position on which OORM is more effective than another and—for the purposes of this 36 37 report—encourages states, communities, and educational settings, to adopt legislative and 38 regulatory policies that allow schools to make safe and effective overdose reversal medications 39 such as naloxone readily accessible to staff and teachers to prevent opioid overdose deaths in 40 educational settings. The Board of Trustees further encourages states, communities, and 41 educational settings to remove barriers to students carrying safe and effective overdose reversal 42 medications. The Board of Trustees wants to make clear that even when naloxone or other OORM saves a life from overdose, it is essential to seek immediate medical attention. 43

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45 AMA POLICY

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47 The two most relevant AMA policies covering the areas of this report are (1) "Increasing

- 48 Availability of Naloxone and Other Safe and Effective Overdose Reversal Medications"
- 49 (Policy H-95.932); and (2) "Prevention of Drug-Related Overdose" (Policy D-95.987).
- 50 Adoption of H-95.932 has helped the AMA to support a broad array of naloxone access initiatives
- 51 for nearly a decade. As identified in H-95.932, these initiatives include:

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2	legislative, regulatory, and national advocacy efforts to increase access to		
3	affordable naloxone and other safe and effective overdose reversal medications,		
4	including but not limited to collaborative practice agreements with pharmacists and		
5	standing orders for pharmacies and, where permitted by law, community-based		
6	organizations, law enforcement agencies, correctional settings, schools, and other		
7	locations that do not restrict the route of administration for naloxone and other safe		
8	and effective overdose reversal medications delivery.		
9			
10	Moreover, in accordance with AMA policy, specifically "Increasing Availability of Naloxone and		
11	Other Safe and Effective Overdose Reversal Medications" (Policy H-95.932), AMA advocacy has		
12	helped states enact broad liability protections "for physicians and other healthcare professionals		
13	and others who are authorized to prescribe, dispense and/or administer naloxone and other safe and		
14	effective overdose reversal medications pursuant to state law." As part of our advocacy to support		
15	broad access, in accordance with AMA policy entitled, "Increasing Availability of Naloxone and Other Safe and Effective Overdees Payersel Mediactions" (Policy II 05 022). AMA continues "to		
16	Other Safe and Effective Overdose Reversal Medications" (Policy H-95.932), AMA continues "to		
17 18	encourage individuals who are authorized to administer naloxone and other safe and effective		
18 19	overdose reversal medications to receive appropriate education to enable them to do so effectively."		
20	enecuvely.		
20	As noted briefly above, existing AMA policy entitled, "Increasing Availability of Naloxone and		
22	Other Safe and Effective Overdose Reversal Medications" (Policy H-95.932), also allows for broad		
23	support for "the widespread implementation of easily accessible naloxone and other safe and		
24	effective overdose reversal medications rescue stations," as well as "access to and use		
25	of naloxone and other safe and effective overdose reversal medications in all public spaces		
26	regardless of whether the individual holds a prescription." This includes public schools and other		
27	educational settings.		
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29	Given the broad nature of our existing AMA policy, which is amply reflected in the positive		
30	developments to implement these policies throughout the United States, the Board of Trustees		
31	concludes that AMA policy is sufficient and that additional new policy is not necessary. This report		
32	also accomplishes the task set to the Board of Trustees to study and report back on issues regarding		
33	student access to safe and effective overdose reversal medications.		
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35	RECOMMENDATIONS		
36 37	The Board of Trustees recommends that the following be adopted, and that the remainder of the		
38	report be filed:		
39	report de med.		
40	1. Existing American Medical Association (AMA) policy entitled, "Increasing Availability of		
41	Naloxone and Other Safe and Effective Overdose Reversal Medications" (Policy H-		
42	95.932), be reaffirmed, and (Reaffirm HOD Policy)		
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44	2. The third resolve of Policy H-95.908, "Increase Access to Safe and Effective Overdose		
45	Reversal Medications in Educational Settings" be rescinded and that the policy be updated		
46	as noted. (Modify Current HOD Policy)		
47	1. Our AMA will encourage states, communities, and educational settings to adopt		
48	legislative and regulatory policies that allow schools to make safe and effective overdose		
49 50	reversal medications readily accessible to staff and teachers to prevent opioid overdose		
50	deaths in educational settings.		

2. Our AMA will encourage states, communities, and educational settings to remove
 barriers to students carrying safe and effective overdose reversal medications.
 3. Our AMA will study and report back on issues regarding student access to safe and
 effective overdose reversal medications.

Fiscal Note: Less than \$500.

REFERENCES

¹ Tanz LJ, Dinwiddie AT, Mattson CL, O'Donnell J, Davis NL. Drug Overdose Deaths Among Persons Aged 10–19 Years — United States, July 2019–December 2021. MMWR Morb Mortal Wkly Rep 2022;71:1576–1582. DOI: <u>http://dx.doi.org/10.15585/mmwr.mm7150a2</u>

² Tanz LJ, Dinwiddie AT, Mattson CL, O'Donnell J, Davis NL. Drug Overdose Deaths Among Persons Aged 10–19 Years — United States, July 2019–December 2021. MMWR Morb Mortal Wkly Rep 2022;71:1576–1582. DOI: http://dx.doi.org/10.15585/mmwr.mm7150a2

³ Unintentional Drug Overdose Death Rates Among US Youth Aged 15-19. National Institute on Drug Use. December 13, 2023. Available at <u>https://nida.nih.gov/research-topics/trends-</u>

statistics/infographics/unintentional-drug-overdose-death-rates-among-us-youth-aged-15-19

⁴ Tanz LJ, Dinwiddie AT, Mattson CL, O'Donnell J, Davis NL. Drug Overdose Deaths Among Persons Aged 10–19 Years — United States, July 2019–December 2021. MMWR Morb Mortal Wkly Rep 2022;71:1576–1582. DOI: http://dx.doi.org/10.15585/mmwr.mm7150a2

⁵ Campbell ND. Naloxone as a technology of solidarity: history of opioid overdose prevention. CMAJ. 2019 Aug 26;191(34):E945-E946. doi: 10.1503/cmaj.190257. PMID: 31451527; PMCID: PMC6710079. Available at https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6710079/

⁶ The history of naloxone access in the United States. Remedy Alliance for the People. <u>https://remedyallianceftp.org/pages/history</u>

⁷ Marks, K.R., Oyler, D.R., Strickland, J.C. *et al.* Bystander preference for naloxone products: a field experiment. *Harm Reduct J* **20**, 171 (2023). <u>https://doi.org/10.1186/s12954-023-00904-9</u>.

⁸ IQVIA Xponent limited to retail pharmacy dispensed prescriptions. Denition: USC 78312 Opioid Reversal Agents (naloxone). State-by-state data available at <u>https://end-overdose-epidemic.org/wp-content/uploads/2023/11/AMA-2023-overdose-report-IQVIA-data-naloxone-FINAL.pdf</u>

⁹ Naloxone to Reverse Opioid Overdose. National Association of Counties. July 17, 2023. Available at https://www.naco.org/resource/osc-naloxone

¹⁰ "Recommendations for Federal Partners and Health Departments Navigating Naloxone Supply." NASTAD. July 2021. Available at <u>https://nastad.org/resources/recommendations-federal-partners-and-health-departments-navigating-naloxone-supply</u>

¹¹ Alliance For The People, R., Wheeler, E., Doe Simkins, M., & Dasgupta, N. (2023). Remedy Alliance For The People Annual Report 2023. <u>https://doi.org/10.17615/ymxe-6x08</u>

¹² The first set of recommendations were issued in 2015 and revised at several intervals. See, for example, the 2017 update here: <u>https://end-overdose-epidemic.org/wp-content/uploads/2020/06/AMA-Task-Force-to-Reduce-Opioid-Abuse-Overview-updated-June-2017.pdf</u>

¹³ The AMA Board of Trustees first approved model state legislation recommend by the AMA Council on Legislation in 2013. The model bill has been amended multiple times since then to strengthen access to naloxone and other forms of opioid-overdose reversal agents. In addition to the protections for school personnel, the model bill provides for liability protections to health care professionals prescribing naloxone as well as authorizing third-party prescriptions and standing orders to allow persons without a prescription to obtain naloxone from a pharmacy. It also includes broad Good Samaritan protections that provide extensive protections for civil and criminal penalties, including parole violations. Medical societies interested in broadening their state laws should contact the AMA Advocacy Resource Center.

¹⁴ Legal Interventions to Reduce Overdose Mortality: Naloxone Access Laws. The Network for Public Health Law. As of August 1, 2023. Available at <u>https://www.networkforphl.org/wp-content/uploads/2023/11/Naloxone-Access-Laws-50-State-Survey-2023.pdf</u>

¹⁵ See, for a general discussion of examples of state laws, "States Split on Whether to Stock Overdose Drugs in Schools." Governing. KFF Health News. Oct. 6, 2023. Available at

https://www.governing.com/health/states-split-on-whether-to-stock-overdose-drugs-in-schools

¹⁶ 'List of Southwest Virginia schools that carry Narcan/Naloxone.' WDBJ. February 15, 2024. Available at <u>https://www.wdbj7.com/2024/02/15/list-southwest-virginia-schools-that-carry-narcannaloxone/</u>.
 ¹⁷ See, § 54.1-3408. Professional use by practitioners.

https://law.lis.virginia.gov/vacode/title54.1/chapter34/section54.1-3408/

¹⁸ "All Miami-Dade public schools now stock overdose reversal drugs." WLRN. November 3, 2023. Available at <u>https://www.wlrn.org/education/2023-11-03/miami-schools-naloxone-narcan-overdose-reversal-drugs</u> ¹⁹ "Narcan bootcamp, then the white coat." University of Penn Medicine News. December 8, 2023. <u>https://www.pennmedicine.org/news/publications-and-special-projects/penn-medicine-magazine/fall-winter-</u>2023/first-year-medical-students-learn-lifesaving-skills-on-day-one

²⁰ Brown M, Tran C, Dadiomov D. Lowering barriers to naloxone access through a student-led harm reduction program. J Am Pharm Assoc (2003). 2023 Jan-Feb;63(1):349-355. doi: 10.1016/j.japh.2022.10.030. Epub 2022 Nov 4. PMID: 36443177.

²¹ Vanderbilt Recovery Support provides resources for campus community. October 11, 2023. <u>https://news.vanderbilt.edu/2023/10/11/vanderbilt-recovery-support-provides-resources-for-campus-community/</u>

²² Naloxone in Schools Policy Brief. Ohio Department of Health. September 30, 2020. Available at <u>https://takecharge.ohio.gov/static/healthcare-professionals-toolkit/naloxone-resource-information/naloxone-in-schools_policy-brief.pdf</u>

²³ Opioid Avengers: Columbia Students Save Four Lives With Naloxone. Carla Cantor. Columbia News. February 21, 2020. Available at <u>https://news.columbia.edu/news/opioid-overdose-students-save-lives-naloxone</u>

²⁴ Opioid Avengers: Columbia Students Save Four Lives With Naloxone. Carla Cantor. Columbia News. February 21, 2020. Available at <u>https://news.columbia.edu/news/opioid-overdose-students-save-lives-naloxone</u>

²⁵ "USC offers Narcan at fitness center, makes emergency resource more accessible." The Daily Gamecock. September 4, 2023. Available at <u>https://www.dailygamecock.com/article/2023/09/usc-offers-narcan-at-fitness-center-makes-emergency-resource-more-accessible-news-bassett</u>

²⁶ Opioid Education and Naloxone Distribution Program. Montana Department of Public Health and Human Services. June 20, 2023. <u>https://content.govdelivery.com/accounts/MTDPHHS/bulletins/360ffbf</u>

²⁷ "Texas now requires your kid's school to have Narcan: Here's how it works." November 9, 2023. <u>https://www.click2houston.com/news/local/2023/11/09/texas-now-requires-your-kids-school-to-have-narcan-heres-how-it-works/</u>

²⁸ Taumberger N, Joura EA, Arbyn M, Kyrgiou M, Sehouli J, Gultekin M. Myths and fake messages about human papillomavirus (HPV) vaccination: answers from the ESGO Prevention Committee. Int J Gynecol Cancer. 2022 Jul 12;32(10):1316–20. doi: 10.1136/ijgc-2022-003685. Epub ahead of print. PMID: 35820716; PMCID: PMC9554067.

²⁹ Emilie Bruzelius, Magdalena Cerdá, Corey S. Davis, Victoria Jent, Katherine Wheeler-Martin, Christine M. Mauro, Stephen Crystal, Katherine M. Keyes, Hillary Samples, Deborah S. Hasin, Silvia S. Martins, Naloxone expansion is not associated with increases in adolescent heroin use and injection drug use: Evidence from 44 US states, International Journal of Drug Policy, Volume 114, 2023, 103980, ISSN 0955-3959, <u>https://doi.org/10.1016/j.drugpo.2023.103980</u>.

https://www.sciencedirect.com/science/article/pii/S0955395923000294

³⁰ Jones JD, Campbell A, Metz VE, Comer SD. No evidence of compensatory drug use risk behavior among heroin users after receiving take-home naloxone. Addict Behav. 2017 Aug;71:104-106. doi:

10.1016/j.addbeh.2017.03.008. Epub 2017 Mar 9. PMID: 28325710; PMCID: PMC5449215.

³¹ Bazazi AR, Zaller ND, Fu JJ, Rich JD. Preventing opiate overdose deaths: examining objections to takehome naloxone. J Health Care Poor Underserved. 2010 Nov;21(4):1108-13. doi: 10.1353/hpu.2010.0935. PMID: 21099064; PMCID: PMC3008773.

³² NIDA. 2022, January 11. Naloxone DrugFacts. Retrieved from

https://nida.nih.gov/publications/drugfacts/naloxone on March 14, 2024.

³³ Substance Abuse and Mental Health Services Administration. SAMHSA Overdose Prevention and Response Toolkit. Publication No. PEP23-03-00-001. Rockville, MD: Substance Abuse and Mental Health Services Administration, 2023. Available at <u>https://store.samhsa.gov/sites/default/files/overdose-prevention-response-kit-pep23-03-00-001.pdf</u>

³⁴ Polysubstance Use Facts. National Center for Injury Control and Prevention, Division of Drug Overdose Prevention. U.S. Centers for Disease Control and Prevention. Page last reviewed February 23, 2022. Available at <u>https://www.cdc.gov/stopoverdose/polysubstance-use/index.html</u>

³⁵ Substance Abuse and Mental Health Services Administration. SAMHSA Overdose Prevention and Response Toolkit. Publication No. PEP23-03-00-001. Rockville, MD: Substance Abuse and Mental Health Services Administration, 2023. Available at <u>https://store.samhsa.gov/sites/default/files/overdose-prevention-response-kit-pep23-03-00-001.pdf</u>