

*online appendix material due to page limits

Table 1. Characteristics of ACEs activities in OD2A by jurisdiction

Jurisdiction	Description of ACEs-related activities	ACEs prevention strategy	SEM level	OD2A strategy	Populations of focus	Implementing sector	NAS-related activities
STATES							
Alabama	- Providing peer navigation and warm handoff for parenting women with infants with NAS in neonatal unit	Intervene to lessen harms	Individual	Linkages to Care	Disproportionately affected populations	CBO Government Healthcare	NAS (1)
Alaska	- Increasing awareness of ACEs prevention and resiliency building for public safety - TIC training for public health, healthcare, and community partners	Promote social norms (2)	Community (2)	Public Safety Partnerships Innovative Prevention	First responders Health workers	CBO Government Healthcare	
Arizona	- Increasing TIC capacity in schools - Conducting outreach to increase corollary services in schools so children with trauma can be connected to appropriate services and support - Improving rural organizations' linkage to care capacity	Promote social norms (3)	Community (3)	Linkages to Care (3)	Educators PWUD Public safety	Education Government Healthcare	
Colorado	- Addressing barriers to accessing food assistance and childcare programs	Strengthen economic supports	Community	Innovative Prevention	CBO staff Government staff	Government	

Florida	- Assessing and identifying ACEs risk using a TIC approach through partnerships between public safety, first responders, schools, and community partners	Promote social norms	Community	Public Safety Partnerships	Public safety	Government	
Indiana	- Implementing a school-based ACEs program that provides coaching with mental health supports to youth	Intervene to lessen harms	Individual	State-Local Integration	Children ages 5–18	Education Government	
Kansas	- Enrolling infants with NAS and their families in enhanced home visitation pilot program	Ensure strong start	Relationship	Innovative Prevention	Caregivers/families Pregnant/parenting women with SUD Substance-exposed infants	Government Healthcare	NAS (1)
Kentucky	- Training hospital staff on SBIRT and other screening tools for pregnant women with SUD - Updating protocols for infants with NAS in neonatal unit - Using TIC and school-based programming to address ACEs risk and protective factors among middle-school aged children - Addressing the burden of NAS and maternal mortality through healthcare provider education	Connect youth to caring adults Intervene to lessen harms (2) Promote social norms	Community (4)	State-Local Integration Provider-Health Systems Support (3)	Children ages 5–18 Health workers Justice-involved populations Pregnant/parenting women with SUD Substance-exposed infants	Government Healthcare	NAS (3)

Louisiana	<ul style="list-style-type: none"> - Increasing naloxone administration and other SUD interventions for justice-involved populations through trainings for drug courts - Improving home visitation programs and parenting programs for low-income pregnant women and families through improved screening and linkages to care 	<p>Ensure strong start</p> <p>Intervene to lessen harms</p>	Community (2)	<p>State-Local Integration</p> <p>Empowering</p> <p>Safer Choices</p>	<p>Caregivers/families</p> <p>Health workers</p> <p>Justice-involved populations</p> <p>Pregnant/parenting women with SUD</p>	Government	NAS (1)
Maryland	<ul style="list-style-type: none"> - Increasing linkages to care for infants with NAS, parenting women with SUD, and women with SUD by engaging community partners - Developing training curriculum on trauma-informed services for general public 	<p>Intervene to lessen harms</p> <p>Promote social norms</p>	Community (2)	<p>Linkages to Care (2)</p>	<p>Disproportionately affected populations</p> <p>PWUD</p>	<p>CBO</p> <p>Government</p>	NAS (1)
Mississippi	<ul style="list-style-type: none"> - Utilizing syndromic surveillance to coordinate care for parenting women with SUD - Providing care for parenting women with SUD through case management and community partnership development - Providing peer navigation and referrals to treatment for parenting women with 	<p>Intervene to lessen harms (4)</p> <p>Promote social norms</p>	Community (5)	<p>Innovative Surveillance</p> <p>Linkages to Care</p> <p>Provider-Health Systems Support (2)</p> <p>Empowering</p> <p>Safer Choices</p>	<p>Health workers</p> <p>Pregnant/parenting women with SUD</p> <p>Substance-exposed infants</p>	<p>CBO</p> <p>Government</p>	NAS (4)

	<p>infants with NAS and those with SUD/ODU</p> <ul style="list-style-type: none"> - Training clinicians on SBIRT and MOUD for pregnant women, and care of infants with NAS - Increasing awareness of the risks of pregnant women with SUD through communications campaign 						
Missouri	<ul style="list-style-type: none"> - Training birthing hospital staff on diagnosis and treatment of NAS - Providing resources to healthcare providers to improve care for pregnant women at risk of or with infants with NAS 	<p>Intervene to lessen harms (2)</p>	<p>Community (2)</p>	<p>Innovative Surveillance (2)</p>	<p>General population Health workers</p>	<p>Government</p>	<p>NAS (2)</p>
Nevada	<ul style="list-style-type: none"> - Educating communities on ACEs and SBIRT and on health risk behavior tools 	<p>Promote social norms</p>	<p>Community</p>	<p>Empowering Safer Choices</p>	<p>General population</p>	<p>CBO</p>	
New Hampshire	<ul style="list-style-type: none"> - Supporting full-time caregivers of children affected by parental SU through case management - Providing referrals to services to caregivers of children affected by parental SU - Providing families separated by parental SUD with education and 	<p>Intervene to lessen harms (2)</p> <p>Teach skills</p>	<p>Relationship (2)</p> <p>Community</p>	<p>State-Local Integration (3)</p>	<p>Caregivers and parents Children ages 0–4 Children ages 5–18 Justice-involved populations PWUD</p>	<p>CBO Government Public safety</p>	

	linkages to care through family resource programs						
New Jersey	<ul style="list-style-type: none"> - Implementing TIC among first responders and healthcare workers - Promoting TIC in harm reduction settings - Developing state-level guidelines for NAS screening 	<p>Promote social norms (2)</p> <p>Intervene to lessen harms</p>	<p>Community Societal (2)</p>	<p>Provider-Health Systems Support Empowering Safer Choices (2)</p>	<p>Health workers</p> <p>Pregnant/parenting women with SUD</p> <p>Substance-exposed infants</p>	<p>CBO</p> <p>Education</p> <p>Government</p>	NAS (1)
New Mexico	<ul style="list-style-type: none"> - Developing education materials for NAS prevention, treatment and care for pregnant women with SUD - Develop resources to support referrals and linkage to care for pregnant women 	<p>Intervene to lessen harms (2)</p>	<p>Community (2)</p>	<p>Innovative Prevention</p>	<p>Pregnant/parenting women with SUD</p>	<p>Government</p>	NAS (2)
New York	<ul style="list-style-type: none"> - Addressing opioid use among pregnant and postpartum women through implementation guides for local health departments - Providing education and support on MOUD, harm reduction, and buprenorphine waiver trainings to providers who work with pregnant and parenting women with SUD 	<p>Intervene to lessen harms (2)</p>	<p>Community (2)</p>	<p>State-Local Integration Provider-Health Systems Support</p>	<p>Government staff</p> <p>PWUD</p>	<p>CBO</p> <p>Government</p>	NAS (2)

Oklahoma	- Training first responders on trauma-informed approaches, ACEs, and local treatment resources	Intervene to lessen harms	Community	Public Safety Partnerships	First responders	Government	
Rhode Island	- Updating ED protocols for MOUD services to include adolescent and pregnant women	Intervene to lessen harms	Community	Linkages to Care	Children ages 5–18 Pregnant/parenting women with SUD	Healthcare	NAS (1)
South Carolina	- Implementing skills-based programs to improve family relationships and social skills to reduce ACEs risk	Teach skills	Relationship	State-Local Integration	Caregivers/families Children ages 5–18	CBO Government	
Utah	- Providing resources and education on safer choices for women - Providing obstetric care sessions for women, including pregnant women, with OUD through telehealth services - Providing linkages to care through treatment options for high-risk parenting women with SUD - Providing linkages to care through referrals for infants with NAS	Promote social norms Intervene to lessen harms (3)	Individual (3) Community	Innovative Surveillance (3) Provider-Health Systems Support	Pregnant/parenting women with SUD Substance-exposed infants	Government Healthcare	NAS (4)
Vermont	- Training both hospital and birthing staff on NAS, PoSC, and referral protocols for women with SUD, pregnant and/or parenting women with SUD, and infants with NAS	Connect youth to caring adults Intervene to lessen harms (2)	Community (3)	Linkages to Care Provider-Health Systems Support Empowering Safer Choices	Caregivers/ families Health workers Pregnant/parenting women with SUD PWUD Substance-exposed infants	CBO Government Healthcare	NAS (1)

	<ul style="list-style-type: none"> - Implementing family screening and linkages to care for substance use through pediatric offices - Implementing school-based programs to educate youth on SUD prevention 						
Virginia	<ul style="list-style-type: none"> - Training public safety and regional staff on incorporating ACEs, TIC, and NAS into prevention and response efforts 	Promote social norms	Community	Public Safety Partnerships	Government staff Public safety	Government	NAS (1)
West Virginia	<ul style="list-style-type: none"> - Developing protocols for rapid response teams for addressing patient care impaired by public safety interactions with their provider, including identification and treatment of ACEs - Evaluating the effectiveness of implementing <i>Handle with Care</i> program through school and public safety partnerships 	Intervene to lessen harms (2)	Community (2)	Public Safety Partnerships (2)	Children ages 5–18 Health workers Public safety	Government	
Wisconsin	<ul style="list-style-type: none"> - Training providers and home visitors on care coordination, referrals, and monitoring of pregnant or parenting women with SUD 	Intervene to lessen harms (2) Promote social norms	Community (3)	State-Local Integration Linkages to Care Public Safety Partnerships	CBO staff Disproportionately affected populations First responders Governmental staff Health workers	CBO Government Healthcare Public safety	NAS (1)

	<ul style="list-style-type: none"> - Training first responders, medical providers, and other health workers on TIC - Increasing preparedness and improving response efforts among state and local partners through TIC 						
COUNTIES and CITIES							
Clark County, NV	<ul style="list-style-type: none"> - Increasing tracking of peer services use by pregnant women with SUD in treatment - Increasing linkages to care for high ACEs risk families - Educating first responders and public safety on risks of ACEs - Providing ACEs-focused training for harm reduction and overdose response team - Training for linkage coordinators on ACEs, overdose, and TIC - Supporting outreach for families and friends of those with SUD/OD - Identifying providers for parenting program offerings 	<p>Intervene to lessen harms (2)</p> <p>Promote social norms (3)</p> <p>Teach skills (2)</p>	<p>Individual Relationship (2)</p> <p>Community (4)</p>	<p>Innovative Surveillance</p> <p>Linkages to Care (2)</p> <p>Public Safety Partnerships</p> <p>Empowering Safer Choices (3)</p>	<p>Caregivers/families</p> <p>CBO staff</p> <p>First responders</p> <p>Health workers</p> <p>Government staff</p> <p>Pregnant/parenting women with SUD</p> <p>Public safety</p>	<p>Government</p> <p>Healthcare</p>	<p>NAS (2)</p>

Cuyahoga County, OH	- Training public safety officials on new programs, partnerships, and challenges for ACEs	Promote social norms	Community	Public Safety Partnerships	Public safety	Government	
Duval County, FL	- Training school nurses in SBIRT and TIC - Implementing PoSC and tracking linkages to care through case management for infants with NAS, parenting women, and families - Training first responders on TIC, SBIRT, identifying ACEs risk, and available resources	Promote social norms Intervene to lessen harms (2)	Individual (2) Community	Innovative Surveillance Provider-Health Systems Support Public Safety Partnerships	First responders Health workers Public safety	Education Government	NAS (1)
Hamilton County, OH	- Training school staff and administrators, first responders, school resource officers, community health partners, and various service agencies to identify and develop interventions for youth affected by trauma - Training hospital employees on TIC, naloxone administration, and community linkages to care - Training public safety officials, first responders, and school staff on SUD, ACEs, TIC, available resources, and <i>Handle with Care</i> program	Promote social norms (2) Intervene to lessen harms	Community	Provider-Health Systems Support Public Safety Partnerships (2)	Children ages 5–18 Educators First responders Public safety	Government	

<p>Maricopa County, AZ</p>	<ul style="list-style-type: none"> - Implementing a taskforce for NAS prevention with state and community partner input - Developing protocols to improve health outcomes for pregnant and parenting women with SUD and their partners - Planning for care coordination for pregnant and parenting women with SUD - Training taskforce members on the use of prenatal family care plans - Educating taskforce members on NAS-related topics and implementation of the CHARM model - Informing statewide initiatives for NAS through meetings with partners - Training healthcare providers and community health centers on linkages to care, OUD screening, prescribing guidelines, and ACEs 	<p>Intervene to lessen harms (6)</p> <p>Promote social norms</p>	<p>Community (7)</p>	<p>State-Local Integration (6)</p> <p>Provider-Health Systems Support</p>	<p>Caregivers/families</p> <p>Health workers</p> <p>Pregnant/parenting women with SUD</p> <p>Substance-exposed infants</p>	<p>CBO</p> <p>Government</p> <p>Healthcare</p>	<p>NAS (6)</p>
<p>Palm Beach County, FL</p>	<ul style="list-style-type: none"> - Providing skills-based education for drug abuse prevention to youth and parents in schools and community-based settings 	<p>Teach skills</p>	<p>Community</p>	<p>State-Local Integration</p>	<p>Children ages 5–18</p>	<p>Government</p>	

City of Philadelphia, PA	- Providing linkages to care for infants with NAS, parenting women, and women at risk for SUD	Intervene to lessen harms	Community	Linkages to Care	Pregnant/parenting women with SUD	CBO	NAS (1)
Riverside County, CA	- Training first responders to implement TIC	Promote social norms	Community	Empowering Safer Choices	First responders	CBO Government	
TERRITORIES							
Puerto Rico	<ul style="list-style-type: none"> - Evaluating evidence-based practices for both NAS and OUD prevention among pregnant women - Educating health workers and the public to increase awareness of OUD, NAS, and fatal and nonfatal overdoses - Implementing interventions for infants with NAS through provider education, referrals, and access to treatment for pregnant women, referrals for chronic pain patients in EDs, and collaboration with MCH agencies - Increasing awareness among public on NAS and risk of opioid use in pregnancy - Developing implementation guides for referrals and linkages to care 	Promote social norms (5) Intervene to lessen harms (3)	Community (8)	State-Local Integration (3) Linkages to Care (4) Provider-Health Systems Support	Caregivers/families CBO staff Disproportionately affected populations General population Government staff Health workers Pregnant/parenting women with SUD Substance-exposed infants	CBO Education Government Healthcare Public safety	NAS (8)

	<ul style="list-style-type: none"> - Developing education materials for healthcare providers on alternative pain management alternatives for pregnant women - Developing and disseminating protocols to coordinate joint prevention efforts at the state and local level and strengthen agencies' response to NAS - Establishing protocols and policies for the ED to guide referrals and linkages to care for patients with OUD, including collaboration for newborn care 						
<i>TOTAL: 34 states implementing ACEs-related activities</i>	<i>84 ACEs-related activities</i>						<i>44 NAS-related activities</i>

List of Abbreviations: ACEs = Adverse Childhood Experiences; CBO = Community-based organization; CHARM = Children and Recovering Mothers; ED = Emergency Department; MCH = Maternal and Child Health; MOUD = Medication for Opioid Use Disorder; NAS = Neonatal Abstinence Syndrome; NOWS = Neonatal Opioid Withdrawal Syndrome; OD2A = Overdose Data to Action; OUD = Opioid Use Disorder; PWUD = Persons who use drugs; PoSC = Plans of Safe Care; SBIRT = Screening, Brief Intervention, and Referral to Treatment; SEM = Social Ecological Model; SU = Substance use; SUD = Substance use disorder; TIC = Trauma-informed care

