Addressing Neonatal Abstinence Syndrome

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Debra Waldron, MD, MPH, FAAP Senior Vice President, American Academy of Pediatrics



TOOLS AND RESOURCES FOR HIT

- AAP approach
- Bright Futures
- CHILD Registry

NEONATAL ABSTINENCE SYNDROME*

- Drug withdrawal syndrome experienced by some infants exposed to opioids
 - irritability; feeding difficulties; temp instability
- Increasing prevalence
 - tripled 1.5 to 6/1000 (2001-2016)
 - W. Virginia 33/1000 (2013)
- Short term and Long term effects
 - neurodevelopmental

*cdc.gov



AMERICAN ACADEMY OF PEDIATRICS

Mission to attain optimal physical, mental, and social health and well-being for all infants, children, adolescents and young adults (whole child approach)

Principles:

- All children have, and all pediatricians, provide a medical home
- All systems of care maintain health equity
- Profession of pediatrics is sustained, maintained, and improved



AAP COMPETENCIES











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POLICY / CLINICAL GUIDANCE

- A Public Health Response to Opioid Use in Pregnancy (2017)
- Medication-Assisted Treatment of Adolescents With Opioid Use Disorders (2016)
- Families Affected by Parental Substance Use (2016)
- Neonatal Drug Withdrawal (2012, Reaffirmed 2016)
- Neonatal Abstinence Syndrome (under development)

EDUCATION

- Online Courses
 - Acute Pain Management: Changes and Challenges
 - Chronic Pain and the Opioid Crisis
 - Research-Based Clinical Strategies to Prevent and Address Adolescent Substance Use and Prescription Medication Misuse—Being Part of the Solution
- Providers' Clinical Support System—Opioid Therapies Recorded Webinars
 - Unraveling the Mystery of Acute and Chronic Pain in the Child & Adolescent (2015)
 - Co-Occurring Psychiatric Illness and Substance Use in Youth (2016)
 - Rational Pain Management in Children With Chronic Medical Conditions (2016)
 - Demystifying Buprenorphine Prescribing for Youth With Opioid Use Disorders (2017)
 - Understanding Neonatal Abstinence Syndrome for the General Pediatrician (2017)

DEDICATED TO THE HEALTH OF ALL CHILDREN

EQIPP: Substance Use - Screening, Brief Intervention,
 Referral to Treatment

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ADVOCACY

- Promote healthy children
- Support secure families
- Build strong communities
- Ensure US is a leading nation for children

BLUEPRINT FOR CHILDREN

www.aap.org/blueprint

ADDRESSING THE OPIOID EPIDEMIC

Joint Principles organizations representing medical professionals (AAP, AAFP, ACOG, ACP, AOA, APA)

- research on prevention and treatment
- public health approach (childhood stress)
- maternal-child health impact
- address stigma
- comprehensive pain management



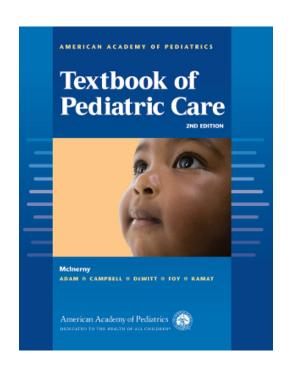
NATIONAL CENTER ON

Early Childhood Health and Wellness

- Provide training and support to early care and education teams
- Resources for home visitors and the homebased option of Head Start.



CLINICAL RESOURCES





What is neonatal abstinence syndrome (NAS)?

Neonatal abstinence syndrome (NAS) is a drug withdrawal syndrome that some infants experience after birth and that generally follows exposure to an opioid. Opioids are a broad class of drugs that can be licit (eg, Vicodin) or illicit (eg, beroin). The severity can vary based on a myriad of factors, including type of opioid, other exposures, and genetics. The syndrome is characterized by tremors, high-pitched cry, loose stools, vomiting, poor feeding, uncoordinated suck, sleep disturbance, seizures, and irritability. Mild clinical signs, such as irritability, may persist for several months. Long-term consequences such as learning difficulties may also occur; however, the severity of such consequences remains an area of debate in the medical literature.

How common is it?

The Substance Abuse Mental Health Services Administration reported that in 2016, more than 20,000 pregnant women reported using heroin or misusing pain relievers in the past month. A May 2015 study in the New England Journal of Medicine reported that from 2004 through 2013,

What adaptations may be needed?

Medications

Medications are sometimes used to treat withdrawal symptoms during the acute phase, after birth, but are seldom continued by the time the infant is in out-of-home care.

Dietary Considerations

No dietary adaptations are usually needed; however, during the acute phase of NAS, infants may have increased suck but poor coordination of swallow and may require high-calorie feedings. Breastfeeding is allowed if the mother is in treatment without relapse.

Physical Environment and Other Considerations Avoid overstimulation. A quiet, soothing atmosphere might be beneficial.

What should be considered an emergency?

No emergencies are associated with infants who have had NAS, unless they are not identified during the birth hospitalization and withdrawal occurs at home.

What types of training or policies are advised



IMPROVING OUTCOMES RELATED TO OPIOID MISUSE: STRATEGIES ADDRESSING CLINICAL CARE FOR WOMEN AND INFANTS

Year 1 Activities

- Partnership building
- Environmental scan to assess current practices
- Promotion of available education/training activities
- Dissemination of evidence-based public health science related to the prevention, intervention, and treatment







BRIGHT FUTURES

American Academy of Pediatrics Bright Futures
National Resource Center
brightfutures.aap.org

American Academy of Pediatrics

Bright Futures Guidelines, 4th Edition

- Healthy Development
- Family Support
- Mental Health and Emotional Well-Being
- Nutritional Health
- Physical Activity
- Healthy Weight
- Promoting Lifelong Health for Families and Communities

- Oral Health
- Healthy Sexuality
- Safety and Injury Prevention
- Promoting Healthy and Safe Use of Social Media
- Children and Youth with
 Special Health Care Needs

Principles, strategies and tools

- theory-based, evidence-driven, and systems-oriented, improve the health and well-being of all children through
- culturally appropriate interventions
- current and emerging health promotion needs at the family, clinical practice, community, health system and policy levels.



Components of a Bright Futures Visit

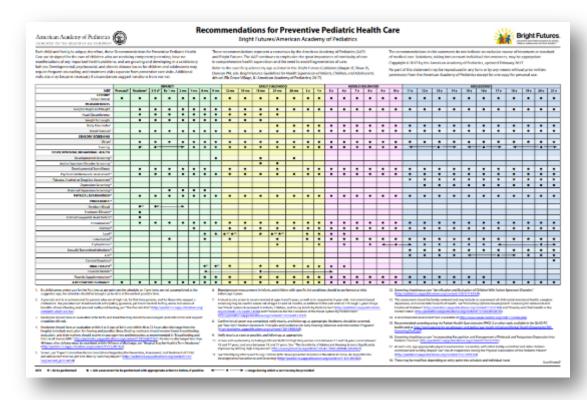
- *****History
- **Surveillance**
- *****Review of Systems
- Observation of Interaction
- Physical examination
- **Screening**
- **❖**Immunizations
- **❖** Anticipatory guidance

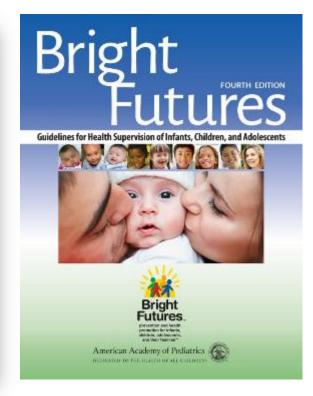
Prenatal/ Newborn	15 Months
3-5 Days	18 Months
1 Month	2 Years
2 Months	2½ Years
4 Months	3 Years
6 Months	4 Years
9 Months	5 Years
12 Months	Annually until 21 years of age





The Periodicity Schedule and the Bright Futures Guidelines





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The Periodicity Schedule tells you what to do in well-child visits, while the *Bright Futures Guidelines* tell you how to do it—and how to do it well.

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Bright Futures Tool and Resource Kit, 2nd Edition

Core Forms

Key documents for each Bright Futures visit:

- Previsit Questionnaire
- Visit Documentation Form
- Bright Futures Parent-Patient Handouts

Supporting Materials

- Screening and Assessment Tools
 - Medical Screening Reference Tables
 - Commonly Used Screening Instruments and Tools
- Additional forms that accompany the Visit Documentation Form
 - Initial History Questionnaire
 - Medication Record
 - Problem List
 - Problem Visit
- Supplementary AAP Education Handouts

Core Tools: Integrated Format

EXAMPLE Tools



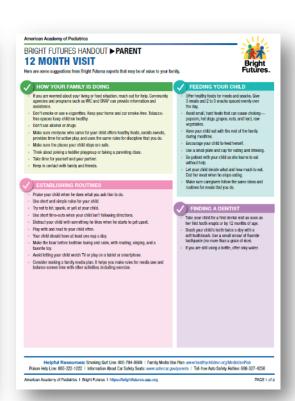


 Surveillance tool allows healthcare professional to gather pertinent information without using valuable time asking questions



DocumentationForm

 To document all pertinent information and fulfill quality measures



Parent/PatientEducational Handout

 Provides parental education for all of the Bright Future Priorities at each visit





Office-Based Systems Components

- Preventive services prompting system
- System
 - immunizations and well child visits
 - track referrals
 - identify children exposed to opioids
- Link families to community resources
- Strength-based approach/shared decisionmaking strategy



Bright Futures Previsit Questionnaire

Examples of how patient and family are doing...

- □ Parental/youth concerns and questions for this visit
- □ Surveillance of patient/family strengths
- □Surveillance of major changes in family
- ■Medical risk assessment (unique for each age/visit) such as:
 - TB, Lead, Anemia, STIs, Cholesterol
 - Vision and Hearing
- □ Oral health risk assessment
 - Dental home/fluoride H₂O

- ■Developmental surveillance for young children
- ☐ Strengths/developmental surveillance for school aged children & adolescents
- Expanded anticipatory guidance questions such as:
 - Social Determinants of Health
 - Caring for infant/child/adolescent
 - Patient's emotional well-being
 - Safety

This surveillance tool also alerts the patient/family that they will be universally screened for topics based on their age/stage (eg, child development, autism, depression, etc.).

PATIENT NAME:		DATE:
	Please nitrit	

12 MONTH VISIT

RISK ASSESSMENT

Hearing	Do you have concerns about how your child hears?	O No	O Yes	O Unsure
nearing	Do you have concerns about how your child speaks?	ONo	O Yes	O Unsure
Lead	Does your child live in or visit a home or child care facility with an identified lead hazard or a home built before 1960 that is in poor repair or that was renovated in the past 6 months?	O No	O Yes	O Unsure
Oral health	Does your child's primary water source contain fluoride?	O Yes	O No	O Unsure
Tuberculosis	Was your child or any household member born in, or has he or she traveled to, a country where tuberculosis is common (this includes countries in Africa, Asia, Latin America, and Eastern Europe)?	O No	O Yes	O Unsure
Tuberculosis	Has your child had close contact with a person who has tuberculosis disease or who has had a positive tuberculosis test result?	O No	O Yes	O Unsure
	Is your child infected with HIV?	O No	O Yes	O Unsure
	Do you have concerns about how your child sees?	O No	O Yes	O Unsure
Vision	Do your child's eyes appear unusual or seem to cross?	O No	O Yes	O Unsure
VISION	Do your child's eyelids droop or does one eyelid tend to close?	O No	O Yes	O Unsure
	Have your child's eyes ever been injured?	O No	O Yes	O Unsure

ANTICIPATORY GUIDANCE

How are things going for you, your child, and your family?
YOUR FAMILY'S HEALTH AND WELL-BEING

Living Situation and Food Security			N
Do you have enough heat, hot water, electricity, and working appliances in your home?	O Yes	O No	
Do you have problems with bugs, rodents, peeling paint or plaster, mold, or dampness?	O No	O Yes	4
Within the past 12 months, were you ever worried whether your food would run out before you got money to buy more?	O No	O Yes	
Within the past 12 months, did the food you bought not last, and you did not have money to get more?	O No	O Yes	
Alcohol and Drugs			
Does anyone in your household drink beer, wine, or liquor?	O No	O Yes	
Do you or other family members use marijuana, cocaine, pain pills, narcotics, or other controlled substances?	O No	O Yes	
Social Connections With Family, Friends, Child Care, Home Visitation Program Staff, and Others			
Do , u have child care or an adult you trust to care for your child?	O Yes	∪ No	
Have you 'ed about your thoughts on feeding, sleeping, discipline, and media use with your caregiver?	res	O No	
Do you participate in tivities outside your home? These may be social, religious, volunteer, or recreational program, s.	O Yes	O No	

CARING FOR YOUR CHILD

If your child is upset, do you help distract him using another activity, book, or toy?	O Yes	O No
Do you use time-outs as a way to manage your child's behavior?		O No
Do you have any questions about what to do when you become angry or frustrated with your child?	O No	O Yes
Does your family regularly make time for reading, playing, and talking together?	O Yes	O No
Do you eat together as a family?	O Yes	O No
Do you have regular mealtimes and snack times?	O Yes	O No
Do you help your child feel comfortable around new people and new situations?	O Yes	O No
Do you have regular nap time and bedtime routines for your child, such as reading books and brushing teeth?	O Yes	O No

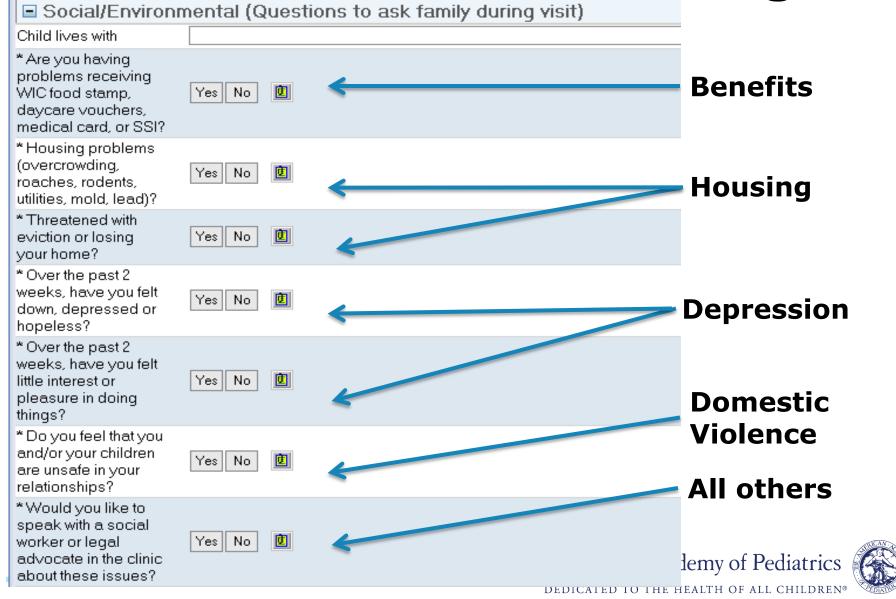
Social Determinants of Health questions

Responses in the righthand column highlight the "let's talk about this" issues—the health topics and concerns that require focused discussion.





EHR: Social History Screening



CHILD Registry

Child Health Improvement through Longitudinal Data



ASPIRATION FOR THE CHILD REGISTRY

Collect, store, & analyze data for US children

- Health
- Disease (acute and chronic)
- Wellness
- Behavior
- Development



CHILD REGISTRY

- Facilitate data-driven improvements in child health care, outcomes, and well-being
 - Inform evidence based guideline development and implementation
 - · Research and benchmarking
 - · Demonstrate quality of care
 - Support care coordination
- HIPAA compliant data collection from EHRs and other systems
- Exploring inclusion of patient reported outcomes to complete information on the whole child

<u>Ultimate goal</u>

Positively influence trajectory of children to become healthy adults

