

Perinatal Quality Collaborative of North Carolina



Provide the facilitation, support and education necessary to deliver optimal care for infants with neonatal abstinence syndrome (NAS) in the hospital and for the first six months of the newborn period. Aim: • Create a multidisciplinary hospital and community-based team focused on providing a standardized approach to the identification, evaluation, treatment, discharge and follow up of the NAS infant. / • Hospitals will standardize the non-pharmacologic and pharmacologic care of the NAS infant using practices based either on Eat Sleep and Console (ESC) or the modified Finnegan scoring system. / • Hospitals will increase partnership with families or guardians in the care of NAS infants. Every infant with NAS will have the opportunity to participate in a Safe Plan of Care. At discharge NAS infants will be referred directly by the hospital based medical team to a community based medical team that will be responsible for ongoing newborn acute and routine care, and support for families or guardians.

Secondary Aim	Primary Drivers	Secondary Drivers
1 Proper Identification	<p>1.1 Each nursery has a protocol that defines indications and procedures for screening for infants at risk for withdrawal</p> <p>1.2 Each nursery develops criteria for toxicology testing and referral of infant to CHild Welfare for a Plan of Safe Care</p>	<p>1.1.1 Identification of eligible infants for toxicology testing</p> <p>1.1.2 Type of toxicology testing</p> <p>1.1.3 Process for communicating results to mother or caregiver</p> <p>1.1.5 Criteria for Referral to Social Work and CMARC</p> <p>1.1.6 Criteria for CPS referral</p> <p>1.2.1 Toxicology testing should be completed on all the following infants:</p> <ul style="list-style-type: none"> • Known maternal history for substance use(inclusive of alcohol) • Positive maternal drug screen • And the following criteria: <ul style="list-style-type: none"> o No/late prenatal care (<4 visits or after 16 weeks) o Symptomatic infants o Unexplained abruption <p>1.2.2 A Plan of Safe Care referral to Child Welfare should be made for infants</p> <ul style="list-style-type: none"> • Affected by Substance Abuse: <ol style="list-style-type: none"> 1. Positive urine, meconium or cord segment drug screen with confirmatory testing in the context of other clinical concerns as identified by current evaluation and management standards. <i>Or</i> 2. The infant's mother has had a medical evaluation, including history and physical, or behavioral health assessment indicative of an active substance use disorder, during the pregnancy or at time of birth. • Affected by Withdrawal Symptoms: <ul style="list-style-type: none"> o The infant manifests clinically relevant drug or alcohol withdrawal. • Affected by Fetal Alcohol Spectrum Disorder(s) (FASD)

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<p>1 Proper Identification (cont)</p>	<p>1.3 Each nursery communicates activities to families</p> <p>1.4 Each nursery identifies potential barriers to discharge on admission</p>	<p>1.3.1 Each nursery develops appropriate education to ensure staff competency and family understanding of NAS identification</p> <p>1.4.1 Each nursery identifies:</p> <ul style="list-style-type: none"> • PCP as early as possible after admission • Resources needed to support discharge of infant with mother/caregiver • As early as possible whether a report beyond referral for a POSC needs to be made to Child Welfare regarding infant safety or risk for neglect, whether CPS referral will be needed- differentiate between a notification to Child Welfare due to meeting criteria in 1.2.2 or report to Child Welfare due to concern about infant being at risk for abuse or neglect prior to or upon discharge. See Title I of Child Abuse Prevention and Treatment Act; Public Law No: 114-198, The Comprehensive Addiction and Recovery Act of 2016
<p>2. Proper Evaluation</p>	<p>2.1 Each nursery develops a plan for transitioning to NAS management based on Eat Sleep Console (ESC) Methodology</p> <p>2.2 Each nursery recognizes the importance of consistency with caregivers</p>	<p>2.1.1 Nurseries consider continuing Finnegan scoring as transition to ESC as a proven method to gain support from staff for the transition</p> <p>2.1.2 Each nursery develops protocols to support staff in executing key elements of ESC</p> <p>2.1.3 Nurseries develop standardized protocols for primary medication use when pharmacologic treatment indicated</p> <p>2.2.1 Each nursery prioritizes NAS infants for primary nursing</p>

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2. Proper Evaluation (cont)	2.3 Each nursery communicates goals of ESC and its activities to families	2.3.1 Emphasize importance of mother as the treatment for signs and symptoms of NAS 2.3.2 Employ standardized materials that educate families regarding ESC method 2.3.3 Daily contact from care team with parent or guardian
3. Proper Treatment	2.4 Each nursery communicates activities to families	2.4.1 Daily contact at bedside or by phone with parent or guardian 2.4.2 Employ standardized materials that educate families regarding scoring for Finnegan or ESC method 2.4.3 Develop programs to allow family/guardian to participate in Finnegan scoring or decision to administer medication for ESC.
3. Proper Treatment	3.1 All nurseries employ non-pharmacologic treatment techniques prior to initiation of pharmacologic treatment	3.1.1 Non-pharmacologic supportive measures started immediately after identification 3.1.2 Minimizing environmental stimuli including low noise, low light, limiting visitors, cluster care 3.1.3 Consider best location for hospitalization (Private room?) 3.1.4 Swaddling 3.1.5 Encourage Maternal Presence 3.1.6 Encourage Skin to Skin 3.1.7 Encourage Kangaroo Care 3.1.8 Lactation Support 3.1.9 Breastfeeding and the provision of expressed human milk should be encouraged if not contraindicated for other reasons

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<p>3. Proper Treatment (cont)</p>	<p>3.2 Each nursery develops and adheres to a center defined standardized ESC plan for as needed pharmacologic treatment of the infants with withdrawal necessitating pharmacologic treatment</p> <p>3.3 Each nursery educates staff and parents on proper treatment</p> <p>4.1 Each nursery has a standardized minimum length of stay for all infants at risk for opioid withdrawal.</p>	<p>3.2.1 Consider mother's substance exposure in selecting pharmacologic therapies 3.2.2 Hospitals identify standard first line medication: Morphine, Methadone or Clonidine. 3.2.3 Pharmacologic intervention initially on PRN basis as indicated by ESC protocol. 3.2.4 Obtain pharmacy consultation when considering a need for regular narcotic dosing for withdrawal</p> <p>3.3.1 Develop standardized materials that educate families regarding ESC methodology</p> <p>4.1.1 At risk is defined as including known antenatal drug exposure, a positive drug test or clinical signs or symptoms 4.1.2 Adhere to AAP length of stay standard of 4-7 days for all at risk infants for opioids</p>
<p>4. Proper Discharge</p>	<p>4.2 Each nursery adheres to a standardized plan for the discharge of infants and family/caregiver</p> <p>4.2 Each nursery adheres to a standardized plan for the discharge of infants and family/caregiver</p>	<p>4.2.1 Each center develops stability triggers for notification of proper organizations, family and PCP of pending discharge. 4.2.2 Each center includes infant and family/caregiver criteria for discharge to include but not limited to:</p> <ul style="list-style-type: none"> • Identified caregiver • Medically stable with adequate weight nutrition • Clearance from all hospital or outside agencies (social work, CPS etc.) • Home situation reviewed • PCP identified and verbally updated with handoff

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<p>4. Proper Discharge (cont)</p>	<p>4.3 Each nursery develops appropriate education to ensure staff competency and family understanding of discharge</p>	<ul style="list-style-type: none"> • Follow-up appointments made or caregiver notified of needed follow-up appointments • Outpatient resources identified • Determine if outpatient meds/treatment (i.e. methadone) available in community pharmacy • Caretaker demonstrates normal infant care • Caretaker demonstrates ability to adequately feed infant • Caregiver demonstrates non-pharmacologic treatments • Caregiver provides return demonstration of medication administration <ul style="list-style-type: none"> • If caregiver is in recovery for opioid use disorder, have visiting nurse administer • Caregiver recognizes symptoms of withdrawal • Caregiver is educated as to when to notify PCP if concerned • CMARC referral <p>4.3.1 Develop standardized materials that educate staff and families regarding discharge</p> <p>4.3.2 Education for families on NAS discharge includes:</p> <ul style="list-style-type: none"> • Normal infant care • Feeding infant • Safe sleep practices • Non-pharmacologic treatments • Medication administration if applicable • Symptoms of withdrawal • When to notify PCP if concerned
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cloudi Infant Action Plan