

2021 Neonatal Abstinence Syndrome/Neonatal Opioids Withdrawal Syndrome (NAS/NOWS) Measures



Vision: Improvements in service delivery for identifying and managing infants with NAS/NOWS. Improvements in perinatal measures related to identification and management of infants with NAS/NOWS.

Key Definitions

- **Neonatal Abstinence Syndrome/Neonatal Opioid Withdrawal Syndrome:** A postnatal opioid withdrawal syndrome that can occur in newborns whose mothers were addicted to or treated with opioids while pregnant.
- **Infant at risk for NAS/NOWS:** Any infant, ≥ 35 weeks 0/7 days gestational age, whose mother has positive history of opioid use during pregnancy or positive screen or positive biological testing for opioids. When capturing for denominators this includes those infants who go on to have NAS/NOWS.
- **Infant with NAS/NOWS:** Any infant, ≥ 35 weeks 0/7 days gestational age with any of the following;
 - If using Eat, Sleep, Console (ESC), 2 consecutive “no’s”.
 - If using the Finnegan Neonatal Abstinence Scoring System, any infant with 2 consecutive scores ≥ 12 or 3 scores ≥ 8 .
 - If using the Lipsitz Neonatal Drug Withdrawal Scoring System, 2 consecutive scores ≥ 4 .
 - Documented diagnosis of NAS/NOWS. (P96.1 “Neonatal withdrawal **symptoms** from maternal use of drugs of addiction”. Considerations when using this code include it not specific to opioid withdrawal unless otherwise used within hospital).
- **Length of hospitalization:** The length of time in days between admission to the hospital and discharge from the hospital.
- **Infant transferred/transported for higher level of care:** Any infant ≥ 35 weeks 0/7 days gestational age, with NAS/NOWS requiring transport to a different facility providing a higher level of neonatal care due to NAS/NOWS. (e.g. infant has respiratory issues due to withdrawal from opioids, capacity to treat babies with NAS is exceeded, etc).

Measure	Frequency	Numerator	Denominator	Data Source and Life QI tips
Outcome Measures				
Measure 1: Percent of infants identified at risk for NAS/NOWS managed using comprehensive care algorithm (p chart)	Monthly	Number of infants identified at risk for NAS/NOWS who were managed using comprehensive care algorithm.	Total number of infants at risk for NAS/NOWS Exclusion criteria: Babies receiving iatrogenic treatment Special considerations: Add a note for patients who leave AMA, but still include them in the denominator	<ul style="list-style-type: none"> • Local electronic health record; enter into Life QI® • If you have 0 babies who meet the criteria for ‘at-risk’ for NAS/NOWS do NOT enter any data for that month into Life QI.

<p>Measure 2: Percent of infants at risk for NAS/NOWS receiving any of their own mother’s milk* within 24 hours prior to discharge</p> <p><i>*Not donor milk</i> (p chart)</p>	<p>Monthly</p>	<p>Number of infants identified at risk for NAS/NOWS who receive any of their own mother’s milk* within 24 hours prior to discharge.</p> <p><i>*Not donor milk</i></p>	<p>Total number of infants at risk for NAS/NOWS</p> <p>Exclusion criteria:</p> <ul style="list-style-type: none"> • Surrogacy/adoptive infants/infants going to foster care
<p>Measure 3: Mean length of hospitalization, in days, for infants with NAS/NOWS who receive pharmacological treatments.</p> <p>(XBAR/S)</p>	<p>Monthly</p>	<p>XBAR/S Chart Count - the number of infants with NAS/NOWS who receive pharmacological treatments. Mean - mean length of stay for all infants with NAS/NOWS who receive pharmacological treatments. Standard Deviation - standard deviation of the length of stay for all infants with NAS/NOWS who receive pharmacological treatments.</p> <p>These three data points will added into Life QI in the Xbar/ SBar chart for this measure</p> <p>Exclusion criteria: if infant requires transfer to NICU for medical issues unrelated to NAS/NOWs.</p>	<ul style="list-style-type: none"> • Local electronic health record; enter into Life QI® • If you have a count of one, enter 0 for standard deviation • If you have 0 babies with NAS/NOWS do NOT enter any data for that month into Life QI.
<p>Measure 4: Mean length of hospitalization, in days, for infants with NAS/NOWS who exclusively receive non-pharmacological treatments.</p> <p>(XBAR/S)</p>	<p>Monthly</p>	<p>XBAR/S Chart Count - the number of infants with NAS/NOWS that month who exclusively receive non-pharmacological treatments. Mean - mean length of stay for all infants with NAS/NOWS that month who exclusively receive non-pharmacological treatments. Standard Deviation - standard deviation of the length of stay for all infants with NAS/NOWS that month who exclusively receive non pharmacological treatments.</p> <p>These three data points are added into Life QI in the Xbar/ SBar chart for this measure</p> <p>Exclusion criteria: if infant requires transfer to NICU for medical issues unrelated to NAS/NOWs.</p>	<ul style="list-style-type: none"> • Local electronic health record; enter into Life QI® • If you have a count of one, enter 0 for standard deviation • If you have 0 babies with NAS/NOWS do NOT enter any data for that month into Life QI.

Process Measures				
Measure	Frequency	Numerator	Denominator	Data Source and Life QI tips
Measure 5: Safe discharge/follow up planning	Monthly*	Hospital has implemented standardized procedures for safe discharge/follow up planning. Yes=1, No=0		<ul style="list-style-type: none"> *once you enter yes (1) you no longer need to enter data for this measures
Measure 6: Pharmacologic care	Monthly*	Hospital has implemented standardized procedures for pharmacologic care. Hospital follows their own standardized medication protocol. Yes=1, No=0		<ul style="list-style-type: none"> *once you enter yes (1) you no longer need to enter data for this measures
Measure 7: Non-pharmacological care	Monthly*	Hospital has implemented standardized procedures for non-pharmacological care, including ESC (this will include a checklist of non-pharmacological strategies) Yes=1, No=0		<ul style="list-style-type: none"> *once you enter yes (1) you no longer need to enter data for this measures
Measure 8: Infant assessment tool	Monthly*	Hospital has implemented use of a standardized tool for assessing infants identified at risk for NAS/NOWS. Yes=1, No=0		<ul style="list-style-type: none"> *once you enter yes (1) you no longer need to enter data for this measures
Measure 9: Percent of infants at risk for NAS/NOWS discharged with safe care plan*** (p chart)	Monthly	Number of infants at risk for NAS/NOWS discharged with safe care plan*** ***includes follow up for infant (medical, developmental, etc.) and resources for mother as outlined in discharge checklist.	Total number of infants at risk for NAS/NOWS	<ul style="list-style-type: none"> Local electronic health record; enter into Life QI® If you have 0 babies who meet the criteria for 'at-risk' for NAS/NOWS do NOT enter any data for that month into Life QI

<p>Measure 10: Percent of infants with NAS/NOWS transferred to hospital with higher level of care due to NAS/NOWS (p chart)</p>	<p>Monthly</p>	<p>Total number of infants with NAS/NOWS who are transferred out to hospital with higher level of care due to NAS/NOWS</p>	<p>Total number of infants with NAS/NOWS</p>	<ul style="list-style-type: none"> • Local electronic health record; enter into Life QI® • If you have 0 babies with NAS/NOWS do NOT enter any data for that month into Life QI.
<p>Measure 11: Percent of infants with NAS/NOWS. (p chart)</p>	<p>Monthly</p>	<p>Total number of infants with NAS/NOWS in the month</p>	<p>Total number of infants delivered in the month</p>	<ul style="list-style-type: none"> • Local electronic health record; enter into Life QI® • If you have 0 babies delivered do NOT enter any data for that month into Life QI.
<p>Measure 12: Mean number of pharmacological dosage for infants with NAS/NOWS. (XBAR/S)</p>	<p>Monthly</p>	<p>XBAR/S Chart Count - the number of infants with NAS/NOWS that month Mean - mean of the number of dosages for all infants with NAS/NOWS that month Standard Deviation - standard deviation of the number of dosages for all infants with NAS/NOWs that month These three data points will added into Life QI in the Xbar/ SBar chart for this measure</p>		<ul style="list-style-type: none"> • Local electronic health record; enter into Life QI® • If you have a count of one, enter 0 for standard deviation • If you have 0 babies with NAS/NOWS do NOT enter any data for that month into Life QI.
<p>Measure 13: Percent of infants at risk for NAS/NOWS managed using non-pharmacological methods (including the Eat, Sleep, Console tool). (p chart)</p>	<p>Monthly</p>	<p>Number of infants at risk for NAS/NOWS managed using non-pharmacological methods (including the Eat, Sleep, Console tool).</p>	<p>Total number of infants at risk for NAS/NOWS</p>	<ul style="list-style-type: none"> • Local electronic health record; enter into Life QI® <p>If you have 0 babies who meet the criteria for 'at-risk' for NAS/NOWS do NOT enter any data for that month into Life QI</p>

Balancing Measures			
Measure	Frequency	Numerator/ Denominator	Data Source and Life QI tips
<p>Measure 14: Mean satisfaction of providers caring for infants at risk for NAS/NOWS. (Providers include all care team members)</p> <p>(XBAR/S)</p>	Biannual (June and October)	<p>Count - the number of providers caring for infants at risk for NAS/NOWS that month completing the survey. Mean - mean of the satisfaction scores for all providers of infants at risk for NAS/NOWS that month Standard Deviation - standard deviation of the satisfaction scores for all providers of infants at risk of NAS/NOWs that month</p> <p>These three data points will added into Life QI in the Xbar/ SBar chart for this measure</p>	<ul style="list-style-type: none"> Team will include the one satisfaction question into current satisfaction tools used by system. “I am satisfied with the care we provide for patients with NAS/NOWS and their families.” Strongly agree-4 Agree -3 Disagree -2 Strongly disagree -1
<p>Measure 15: Mean satisfaction of care for families of infants at risk for NAS/NOWS.</p> <p>(XBAR/S)</p>	Quarterly	<p>Count - the number of families with infants at risk of NAS/NOWS completing the survey. Mean - mean of the satisfaction scores for all families of infants at risk for NAS/NOWS that month Standard Deviation - standard deviation of the satisfaction scores for all families infants at risk for NAS/NOWs that month</p> <p>These three data points will added into Life QI in the Xbar/ SBar chart for this measure</p>	<ul style="list-style-type: none"> Team will include the one satisfaction question into current satisfaction tools used by system. “I am satisfied with the care my baby received in the hospital.” Strongly agree-4 Agree -3 Disagree -2 Strongly disagree -1