

NEONATAL ABSTINENCE SYNDROME



Neonatal abstinence syndrome (NAS) is a multisystemic disorder resulting from chronic in-utero exposure to certain prescription or illicit drugs and their abrupt cessation at birth.

Causes

NAS can result from a wide variety of substances consumed during pregnancy, including:

- Opioids
 - Heroin
 - Morphine
 - Fentanyl
 - Hydrocodone
 - Oxycodone
 - Methadone
 - Buprenorphine
- Benzodiazepines
- Amphetamines
- Cocaine
- Nicotine
- Antidepressants
 - SSRIs
 - SNRIs

Signs and symptoms

Onset, duration, and severity of symptoms vary greatly depending on the substance(s) involved and patterns of prenatal use.



- Hyperirritability
- Seizures
- Sleep deprivation and fragmentation
 - Tachypnea
- Hypertension
- Tachycardia
- Diarrhea
- · Excessive weight loss
- Vomiting



- suckingPoor or excessive feeding
- Yawning
- Sweating
- Hyperthermia
- Hypertonia
- Tremors

Non-pharmacological management

A non-pharmacologic approach is first-line in treatment of NAS:

- Keep the parent-infant dyad together through rooming-in.
- Educate and involve parents in all aspect of infant care.
- Encourage breastfeeding unless there is an absolute contraindication. Facilitate access to human donor milk, as needed.
- Increase frequency of feeding and/or supplement with calorie-dense formula to meet increased energy requirement.
- Facilitate frequent skin-to-skin contact, kangaroo care.
- Reduce stimuli: Cluster care, dim lights, reduce noise.
- Vertical rocking, side-lying C position, and swaddling may reduce irritability and hypertonicity.
- Individualize interventions to infant's symptoms/response.

Pharmacological management

Treatment is aimed at improving withdrawal signs in the short-term and weaning as soon as NAS signs and symptoms are well controlled.

There is no consensus regarding preferred agent, regimen, or weaning protocol.

Ongoing care

Close interdisciplinary follow-up is necessary after discharge to meet the complex health needs of the parent-infant dyad and connect them to community resources.

