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# Neonatal Abstinence Syndrome

## Syndrome de sevrage néonatal : évaluation de l'acupuncture

### 1. Systematic Reviews and Meta-Analysis

#### 1.1. Jackson 2019

Jackson HJ, Lopez C, Miller S , Engelhardt B. A Scoping Review of Acupuncture as a Potential Intervention for Neonatal Abstinence Syndrome. *Medical Acupuncture*. 2019;31(2):69-84. [197692].

<b>Objective</b>	Neonatal abstinence syndrome (NAS) has risen drastically over the past decade. Infants with NAS experience extreme discomfort and developmental delays when going into withdrawal. Management includes multiple supportive and nonpharmacologic therapies as first-line treatments in an effort to reduce or prevent the need for medication management. Acupuncture has demonstrated efficacy in adults experiencing withdrawal from addictions, as well as for treating many other conditions in pediatric patients who have similar symptoms to withdrawal. The purpose of this review is to evaluate the safety and efficacy of acupuncture for neonates in withdrawal.
<b>Materials and methods</b>	This review was guided by the Arksey and O'Malley methodological framework, and analysis was performed based on a social ecological model. The PRISMA [Preferred Reporting Items for Systematic Reviews and Meta-Analyses] statement was used to organize selected publications, and a flow chart was created to display the search process. PubMed, EMBASE, Cumulative Index to Nursing and Allied Health Literature, and the Cochrane Databases were searched for relevant publications.
<b>Results</b>	Acupuncture appears to be safe and effective for reducing withdrawal symptoms in infants, and, thus, should be considered as an additional nonpharmacologic treatment option for NAS.

Jackson HJ, López C, Miller S, Englehardt B. Neonatal Abstinence Syndrome: An Integrative Review of Neonatal Acupuncture to Inform a Protocol for Adjunctive Treatment. *Adv Neonatal Care*. 2019;19(3):165-178. [198062].

<b>Background</b>	The current opioid epidemic in the United States has given rise to a growing incidence of neonatal abstinence syndrome (NAS). Treatments for this condition optimize nonpharmacologic therapies in an effort to improve withdrawal symptoms and reduce or eliminate the need for opioid medications, thereby reducing hospital length of stay and improving healthy neonatal outcomes. PURPOSE: The purpose of this review was to evaluate the current evidence for neonatal acupuncture treatments and identify essential characteristics that must be included in a treatment protocol for NAS.
<b>Methods</b>	METHODS/SEARCH STRATEGY: An integrative review was conducted under the guidance of the Whittmore and Knafl methodology and near-term infant conceptual framework. An evaluation of the quality and levels of evidence was also included.

<b>Findings/Results</b>	A total of <b>10 studies</b> were identified in this review. Four of these studies were randomized controlled trials, and utilized acupuncture in the neonatal population to evaluate impact on pain, NAS, and weight gain.
<b>Implications for practice</b>	This review provided the essential elements for the development of a complementary acupuncture treatment protocol for the management of NAS.
<b>Implications for research</b>	Future research should include the identified essential characteristics in high-quality, blinded, randomized controlled trials to assess the treatment effect of acupuncture on neonates experiencing withdrawal symptoms.

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