



## CFAO GRADUATE STUDENT POSTERBOARD ABSTRACTS

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### Impact of breastfeeding on pediatric sleep breathing disorders: A Systematic Review

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**AIM:**

To methodically synthesize the available literature concerning the impact of breastfeeding on sleep disordered breathing in young children.

**METHODS:**

**Eligibility criteria:** Prospective and retrospective cohorts, case-controls, cross-sectional studies and clinical trials that evaluated the association between infant's feeding methods and pediatric sleep disordered breathing were included. No restrictions were applied regarding language, year of publication, sex, or ethnicity. We excluded studies that included patients with severe craniofacial anomalies, genetic syndromes, and/or neuromuscular diseases.

**Information Sources:** A systematic search of five electronic databases (Embase, Medline via OVID, Web of Science, LILACS and SCOPUS) was carried. All searches were inclusive until May 11, 2016.

**Risk of bias Assessment:** The Newcastle-Ottawa Scale was used for quality assessment.

**RESULTS:**

**Included studies:** From the 70 articles initially retrieved and reviewed only 10 studies fulfilled the criteria to be finally included in this review.

**Synthesis of results:** While seven of the selected studies reported a positive significant association between breastfeeding and sleep breathing disorders, the remaining three studies did not show any association.

**DISCUSSION:**

**Strengths and Limitations of evidence:** The main methodological limitation was related to data collection on infant feeding methods. All of the identified studies used a validated questionnaire to investigate if children were breastfed. However, some of them were retrospective and did not specify duration and/or exclusivity.

**CONCLUSION:**

The cumulative evidence is non-conclusive that exclusive breastfeeding is associated with decreased sleep breathing disorders in children.

**OTHER: Registration:** "PROSPERO registration: CRD42016036250"