



REVIEW

# Global, Regional and National Trends in the Burden of Neonatal Respiratory Failure and essentials of its diagnosis and management from 1992 to 2022: a scoping review

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## Abstract

Neonatal respiratory failure (NRF) is an emergency which has not been examined extensively. We critically synthesized the contemporary in-hospital prevalence, mortality rate, predictors, aetiologies, diagnosis and management of NRF to better formulate measures to curb its burden. We searched MEDLINE and Google Scholar from 01/01/1992 to 31/12/2022 for relevant publications. We identified 237 papers from 58 high-income and low-and middle-income countries (LMICs). NRF prevalence ranged from 0.64 to 88.4% with some heterogeneity. The prevalence was highest in Africa, the Middle East and Asia. Globally as well as in Asia and the Americas, respiratory distress syndrome (RDS) was the leading aetiology of NRF. Neonatal sepsis was first aetiology in Africa, whereas in both Europe and the Middle East it was transient tachypnoea of the newborn. Independent predictors of NRF were prematurity, male gender, ethnicity, low/high birth weight, young/advanced maternal age, primiparity/multiparity, maternal smoking, pregestational/gestational diabetes mellitus, infectious anamneses, antepartum haemorrhage, gestational hypertensive disorders, multiple pregnancy, caesarean delivery, antenatal drugs, foetal distress, Apgar score, meconium-stained amniotic fluid and poor pregnancy follow-up. The NRF-related in-hospital mortality rate was 0.21–57.3%, highest in Africa, Asia and the Middle East. This death toll was primarily due to RDS globally and in all regions. Clinical evaluation using the Silverman-Anderson score was widely used and reliable. Initial resuscitation followed by specific management was the common clinical practice.

**Conclusion:** NRF has a high burden globally, driven by RDS, especially in LMICs where more aggressive treatment and innovations, preferably subsidized, are warranted to curb its alarming burden.

## What is Known:

- Neonatal respiratory failure is a frequent emergency associated with a significant morbidity and mortality, yet there is no comprehensive research paper summarizing its global burden.
- Neonatal respiratory failure needs prompt diagnosis and treatment geared at improving neonatal survival.

## What is New:

- Neonatal respiratory failure has an alarmingly high global burden largely attributed to Respiratory distress syndrome. Low resource settings are disproportionately affected by the burden of neonatal respiratory failure.
- Independent predictors of neonatal respiratory failure are several but can be classified into foetal, maternal and obstetrical factors. An illustrative pedagogical algorithm is provided to facilitate diagnosis and management of neonatal respiratory failure by healthcare providers.

Communicated by Daniele De Luca.

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