**Supplementary material 1**

**SEARCH STRATEGY**

## PubMed search strategy for systematic literature review

("paediatrics"[All Fields] OR "pediatrics"[MeSH Terms] OR "pediatrics"[All Fields] OR "paediatric"[All Fields] OR "pediatric"[All Fields] OR ("child"[MeSH Terms] OR "child"[All Fields] OR "children"[All Fields] OR "child s"[All Fields] OR "children s"[All Fields] OR "childrens"[All Fields] OR "childs"[All Fields]) OR ("adolescences"[All Fields] OR "adolescency"[All Fields] OR "adolescent"[MeSH Terms] OR "adolescent"[All Fields] OR "adolescence"[All Fields] OR "adolescents"[All Fields] OR "adolescent s"[All Fields]) OR ("infant, newborn"[MeSH Terms] OR ("infant"[All Fields] AND "newborn"[All Fields]) OR "newborn infant"[All Fields] OR "baby"[All Fields] OR "infant"[MeSH Terms] OR "infant"[All Fields]) OR ("child"[MeSH Terms] OR "child"[All Fields] OR "children"[All Fields] OR "child s"[All Fields] OR "children s"[All Fields] OR "childrens"[All Fields] OR "childs"[All Fields]) OR ("infant, newborn"[MeSH Terms] OR ("infant"[All Fields] AND "newborn"[All Fields]) OR "newborn infant"[All Fields] OR "neonatal"[All Fields] OR "neonate"[All Fields] OR "neonates"[All Fields] OR "neonatality"[All Fields] OR "neonatals"[All Fields] OR "neonate s"[All Fields]) OR ("infant"[MeSH Terms] OR "infant"[All Fields] OR "infants"[All Fields] OR "infant s"[All Fields]) OR ("infant, newborn"[MeSH Terms] OR ("infant"[All Fields] AND "newborn"[All Fields]) OR "newborn infant"[All Fields] OR "newborn"[All Fields] OR "newborns"[All Fields] OR "newborn s"[All Fields])) AND ("NIV"[All Fields] OR "non-invasive ventilation"[All Fields] OR "non-invasive ventilation"[All Fields] OR "CPAP"[All Fields] OR "continuous positive pressure"[All Fields] OR ("continuous positive airway pressure"[MeSH Terms] OR ("continuous"[All Fields] AND "positive"[All Fields] AND "airway"[All Fields] AND "pressure"[All Fields]) OR "continuous positive airway pressure"[All Fields] OR "bipap"[All Fields]) OR "Bilevel positive airway pressure"[All Fields] OR "BPAP"[All Fields] OR "non-invasive positive pressure ventilation"[All Fields] OR "non-invasive positive pressure ventilation"[All Fields] OR "NPPV"[All Fields]) AND (("randomized controlled trial"[Publication Type] OR "controlled clinical trial"[Publication Type] OR "randomized"[Title/Abstract] OR "placebo"[Title/Abstract] OR "drug therapy"[MeSH Subheading] OR "randomly"[Title/Abstract] OR "trial"[Title/Abstract] OR "groups"[Title/Abstract]) NOT ("animals"[MeSH Terms] NOT "humans"[MeSH Terms]))

## EMBASE search strategy for systematic literature review

('pediatric patient'/exp OR 'pediatric patient' OR 'child'/exp OR 'child' OR 'children' OR 'infant'/exp OR 'infant') AND ('noninvasive ventilation'/exp OR 'continuous positive airway pressure'/exp OR 'bilevel positive airway pressure'/exp OR 'noninvasive positive pressure ventilation'/exp) AND ('randomized controlled trial'/exp OR 'controlled trial, randomized' OR 'randomised controlled study' OR 'randomised controlled trial' OR 'randomized controlled study' OR 'randomized controlled trial' OR 'trial, randomized controlled')