

Supplemental Information

SUPPLEMENTAL TABLE 4 Database Search Strategy

Database	Search
PubMed (January 3, 2015)	(odynophagia OR "anesthetic complications" OR aspiration OR "airway compromise" OR "atlantoaxial dislocation" OR bacteremia OR infection OR bleeding OR death OR dehydration OR distress OR edema OR "Eustachian tube injury" OR fever OR hemorrhage OR hemorrhage OR hypoxia OR infection OR "mandible dislocation" OR "nasopharyngeal insufficiency" OR nausea OR otalgia OR otitis OR pain OR pneumonia OR complications OR "psychological trauma" OR "pulmonary edema" OR "pulmonary embolism" OR "refusal to feed" OR "respiratory compromise" OR "respiratory problems" OR "tongue base edema" OR vomiting OR emesis OR "lethal outcome") AND (obstructive sleep apnea[MeSH Terms] OR "OSA" or "sleep apnea" or "sleep apnoea" or "sleep disordered breathing" or "SDB") AND ("T&A" or "AT" or adenoidectomy or tonsillectomy or tonsillotomy or "tonsil surgery" or adenotonsillectomy) AND Search (children OR child OR childhood OR pediatric OR pediatric OR adolescents OR "young patient")
Cochrane (January 3, 2015)	(children or child or childhood or pediatric or pediatric or adolescent or adolescents or "young patient") AND ("T&A" or "AT" or adenoidectomy or tonsillectomy or tonsillotomy or "tonsil surgery" or adenotonsillectomy) AND ("OSA" or "sleep apnea" or "sleep apnoea" or "sleep disordered breathing" or "SDB") AND ((odynophagia or "anesthetic complications" or aspiration or "airway compromise" or "atlantoaxial dislocation" or bacteremia or infection or bleeding or death or dehydration or distress or edema or "Eustachian tube injury" or fever or hemorrhage or hemorrhage or hypoxia or infection or "mandible dislocation" or "nasopharyngeal insufficiency") OR nausea or otalgia or otitis or pain or pneumonia or complications or "psychological trauma" or "pulmonary edema" or "pulmonary embolism" or "refusal to feed" or "respiratory compromise" or "respiratory problems" or "tongue base edema" or vomiting or emesis or "lethal outcome"))
Embase (1974–January 3, 2015)	(children or child or childhood or pediatric or pediatric or adolescent or adolescents or "young patient") AND ("T&A" or "AT" or adenoidectomy or tonsillectomy or tonsillotomy or "tonsil surgery" or adenotonsillectomy) AND ("OSA" or "sleep apnea" or "sleep apnoea" or "sleep disordered breathing" or "SDB") AND ((odynophagia or "anesthetic complications" or aspiration or "airway compromise" or "atlantoaxial dislocation" or bacteremia or infection or bleeding or death or dehydration or distress or edema or "Eustachian tube injury" or fever or hemorrhage or hemorrhage or hypoxia or infection or "mandible dislocation" or "nasopharyngeal insufficiency") OR nausea or otalgia or otitis or pain or pneumonia or complications or "psychological trauma" or "pulmonary edema" or "pulmonary embolism" or "refusal to feed" or "respiratory compromise" or "respiratory problems" or "tongue base edema" or vomiting or emesis or "lethal outcome"))
Medline (1948–January 3, 2015)	(children or child or childhood or pediatric or pediatric or adolescent or adolescents or "young patient") AND ("T&A" or "AT" or adenoidectomy or tonsillectomy or tonsillotomy or "tonsil surgery" or adenotonsillectomy) AND ("OSA" or "sleep apnea" or "sleep apnoea" or "sleep disordered breathing" or "SDB") AND ((odynophagia or "anesthetic complications" or aspiration or "airway compromise" or "atlantoaxial dislocation" or bacteremia or infection or bleeding or death or dehydration or distress or edema or "Eustachian tube injury" or fever or hemorrhage or hemorrhage or hypoxia or infection or "mandible dislocation" or "nasopharyngeal insufficiency") OR nausea or otalgia or otitis or pain or pneumonia or complications or "psychological trauma" or "pulmonary edema" or "pulmonary embolism" or "refusal to feed" or "respiratory compromise" or "respiratory problems" or "tongue base edema" or vomiting or emesis or "lethal outcome"))
Web of Science (January 3, 2015)	(odynophagia OR "anesthetic complications" OR aspiration OR "airway compromise" OR "atlantoaxial dislocation" OR bacteremia OR infection OR bleeding OR death OR dehydration OR distress OR edema OR "Eustachian tube injury" OR fever OR hemorrhage OR hemorrhage OR hypoxia OR infection OR "mandible dislocation" OR "nasopharyngeal insufficiency" OR nausea OR otalgia OR otitis OR pain OR pneumonia OR complications OR "psychological trauma" OR "pulmonary edema" OR "pulmonary embolism" OR "refusal to feed" OR "respiratory compromise" OR "respiratory problems" OR "tongue base edema" OR vomiting OR emesis OR "lethal outcome") AND TOPIC: ("OSA" or "sleep apnea" or "sleep apnoea" or "sleep disordered breathing" or "SDB") AND TOPIC: ("T&A" or "AT" or adenoidectomy or tonsillectomy or tonsillotomy or "tonsil surgery" or adenotonsillectomy) AND TOPIC: (children OR child OR childhood OR pediatric OR pediatric OR adolescent OR adolescents OR "young patient")
LILACS (January 3, 2015)	Criança or crianças or niños or niño or infancia or adolescente [Words] and "cirugía de adenóide" or cirurgia de amígdala" or adenoidectomia or amigdalectomía or amigdalotomía or "cirugía de las amígdalas" [Words] and "apneia do sono" or distúrbios respiratórios do sono" or "apnea del sueño" [Words]
Google Scholar (January 3, 2015)	With all of the words: children With the exact phrase: sleep apnea With at least 1 of the words: adenoidectomy, tonsillectomy, tonsil surgery, adenotonsillectomy Where my words occurs: anywhere in the article 60 most relevant hits

SUPPLEMENTAL TABLE 5 Excluded Articles With Reasons for Exclusion ($n = 79$)

Source	Final Check Reason for Exclusion
Achar et al ¹	5
de Alcantara et al ²	1
Al-Mazrou et al ³	1
Bahamonde et al ⁴	1
Beriat ⁵	1
Beriat ⁶	1
Bhattacharjee et al ⁷	1
Carr et al ⁸	1
Chaidas et al ⁹	1
Chang et al ¹⁰	1
Chang et al ¹¹	1
Chimona et al ¹²	1
Coticchia et al ¹³	1
Datta et al ¹⁴	1
Deak et al ¹⁵	1
Densert et al ¹⁶	1
Fida and Sendi ¹⁷	1
Friedman et al ¹⁸	1
Gerber et al ¹⁹	1
Grindle et al ²⁰	1
Hack ²¹	1
Hanss et al ²²	4
Horwood et al ²³	1
Howells et al ²⁴	5
Hultcrantz et al ²⁵	1
Hultcrantz and Ericsson ²⁶	1
Hultcrantz et al ²⁷	1
Ilgen ²⁸	1
Jones et al ²⁹	5
Kalra et al ³⁰	1
Kamal et al ³¹	2
Kemal ³²	1
Koltai ³³	1
Konstantinopoulou et al ³⁴	5
Koomson et al ³⁵	1
Lee et al ³⁶	4
Liang et al ³⁷	4
McColley et al ³⁸	4
McCormick et al ³⁹	4
Van der Meulen ⁴⁰	1
Mitchell and Kelly ⁴¹	4
Mixson et al ⁴²	1
Moriniere et al ⁴³	1
Paramasivan et al ⁴⁴	1
Peng et al ⁴⁵	1
Perkins et al ⁴⁶	4
Postma ⁴⁷	1
Prokopakis et al ⁴⁸	3
Pruegsanusak et al ⁴⁹	1
Rodman et al ⁵⁰	4
Rothschild et al ⁵¹	4
Ryu et al ⁵²	1
Schroeder et al ⁵³	4
Sdralis and Berkowitz ⁵⁴	3
Segal et al ⁵⁵	1
Seth et al ⁵⁶	1
Shine et al ⁵⁷	1
Skilbeck et al ⁵⁸	1
Skoulakis et al ⁵⁹	1

SUPPLEMENTAL TABLE 5 Continued

Source	Final Check Reason for Exclusion
Slovik et al ⁶⁰	4
Solares et al ⁶¹	3
Sonsuwan et al ⁶²	4
Sorin et al ⁶³	5
Statham et al ⁶⁴	4
Subramanyam et al ⁶⁵	1
Tauman et al ⁶⁶	1
Theilhaber et al ⁶⁷	4
Thomas et al ⁶⁸	4
Thongyam et al ⁶⁹	4
Thottam et al ⁷⁰	1
Tom et al ⁷¹	4
Truy et al ⁷²	4
Tweedie et al ⁷³	1
Werle et al ⁷⁴	4
Wilson et al ⁷⁵	4
Wilson et al ⁷⁶	1
Windfuhr et al ⁷⁷	3
Yilmaz et al ⁷⁸	4
Youshani et al ⁷⁹	4

1 indicates studies with different target condition; 2, studies in adults; 3, reviews, letters, conference abstracts, editorials, case-series studies; 4, studies which the sample included subjects previously diagnosed with genetic syndromic patients, coagulation disorders, or cerebral palsy; 5, studies that did not reveal specifically the 3 first weeks follow-up.

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SUPPLEMENTAL MATERIAL: RISK OF BIAS ASSESSED BY META-ANALYSIS OF STATISTICS ASSESSMENT AND REVIEW INSTRUMENT CRITICAL APPRAISAL TOOLS. RISK OF BIAS WAS CATEGORIZED AS HIGH WHEN THE STUDY REACHES UP TO 49% SCORE “YES,” MODERATE WHEN THE STUDY REACHED 50% TO 69% SCORE “YES,” AND LOW WHEN THE STUDY REACHED MORE THAN 70% SCORE “YES.”

SUPPLEMENTAL TABLE 6 Experimental Studies

Question	Answer		
	Nixon et al ²³	Riaz et al ¹³	Sanders et al ¹²
1. Was the assignment to treatment groups random?	N	N	N
2. Were participants blinded to treatment allocation?	NA	NA	NA
3. Was allocation to treatment groups concealed from the allocator?	Y	U	Y
4. Were the outcomes of people who withdrew described and included in the analysis?	NA	U	Y
5. Were those assessing outcomes blind to the treatment allocation?	U	U	N
6. Were the control and treatment groups comparable at entry?	Y	Y	Y
7. Were groups treated identically other than for the named interventions?	N	Y	Y
8. Were outcomes measured in the same way for all groups?	Y	Y	Y
9. Were outcomes measured in a reliable way?	Y	Y	Y
10. Was appropriate statistical analysis used?	Y	Y	Y
% Yes/risk	50/moderate	50/moderate	70/low

N, no; NA, not applicable; U, unclear; Y, yes.

SUPPLEMENTAL TABLE 7 Observational Studies

Question	Answer										
	Ahmad et al ²⁶	Baguley et al ³²	Brown ²⁴	Del-Rio Camacho et al ¹⁶	Hadden et al ²⁸	Hamada et al ³⁸	Lalakea et al ²²	Ma et al ³³	Muninnobpamasa et al ²⁹	Onotai and Lilly-Tariah ³¹	Perkins et al ¹⁵
1. Was the study based on a random or pseudorandom sample?	N	N	N	N	Y	N	Y	N	N	N	N
2. Were the criteria for inclusion in the sample clearly defined?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
3. Were confounding factors identified and strategies to deal with them stated?	Y	U	Y	Y	Y	Y	Y	Y	Y	U	N
4. Were outcomes assessed by using objective criteria?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
5. If comparisons are being made, was there sufficient description of the groups?	NA	NA	Y	NA	Y	Y	NA	Y	NA	NA	Y
6. Was the follow-up carried out over a sufficient time period?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
7. Were the outcomes of people who withdrew described and included in the analysis?	NA	NA	Y	NA	NA	NA	Y	N	NA	NA	Y
8. Were the outcomes measured in a reliable way?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
9. Was an appropriate statistical analysis used?	N	Y	Y	Y	Y	Y	N	Y	N	N	Y
% Yes/risk	55.55/moderate	55.55/moderate	88.88/low	66.66/moderate	88.88/low	77.77/low	77.77/low	77.77/low	55.55/moderate	44.44/high	77.77/low

N, no; NA, not applicable; U, unclear; Y, yes.

Rakover et al ³⁶	Ruboyianes ¹⁹	Shakeel et al ³⁹	Shott et al ³⁵	Spencer and Jones ³⁰	Vlastos et al ²⁷	Wang et al ²⁵	Wong et al ³⁷	Ye et al ³⁴
N	N	N	N	N	N	N	N	N
Y	Y	Y	Y	Y	Y	U	U	Y
N	U	Y	N	N	Y	U	N	Y
Y	Y	Y	Y	Y	Y	Y	Y	Y
NA	NA	Y	NA	NA	Y	NA	NA	NA
Y	Y	Y	Y	Y	Y	Y	Y	Y
NA	NA	NA	NA	Y	N	NA	NA	NA
Y	Y	Y	Y	Y	Y	U	U	Y
N	N	Y	N	N	Y	N	N	Y
44.44 /high	44.44/high	77.77/low	44.44/high	55.55/moderate	77.77/low	22.22/high	22.22/high	66.66/moderate