e-Table 1. Me	thodological	Quality of Ir	ncluded Stu	dies
Study	Adequate Sequence generation	Allocation Concealment	Blinding	Jadad Score
Soffer 1985 Carter 1986	Unclear Unclear	Unclear	No-high risk No-high risk	2
Bower 1988	Unclear Unclear	Unclear	No-high risk	2
Braun 1992 McDonald 1995	Unclear	Unclear Unclear	No-high risk Yes-low risk	4
Roberts 1996	Yes-low risk Yes-low risk	Yes-low risk Yes-low risk	No-high risk Unclear	3 2
Rooyackers 1997 Tiep 1997	No-high risk	No-high risk	No-high risk	1
Cuvelier 2002 Eaton 2002	Unclear Unclear	Unclear	No-high risk Yes-low risk	2
Tiep 2002	No-high risk	No-high risk	No-high risk	1
Emtner 2003 Chatila 2004	Yes-low risk No-high risk	Unclear No-high risk	Yes-low risk No-high risk	5
Fuhrman 2004	Unclear	Unclear	No-high risk	2
Nonoyama 2007 Janaudis-Ferreira 2009	Unclear Yes-low risk	Unclear Unclear	Yes-low risk Unclear	3
Strickland 2009 Palwai 2010	Unclear	Unclear	No-high risk Yes-low risk	2
Moore 2011	Yes-low risk	Yes-low risk	Yes-low risk	5
Casaburi 2012 Dyer 2012	Yes-low risk Yes-low risk	Yes-low risk Yes-low risk	No-high risk No-high risk	3
Marti 2013	Yes-low risk	Yes-low risk	Unclear	2
Ringbaek 2013	Yes-low risk	Yes-low risk	Unclear	3
Supplementary Method 1 Search Strategy – Clinical and Device Efficacy 1. chronic obstructive pulmonary disease/ 2. copd.mp. 3. smoking-related lung disease\$.mp. 4. lung emphysema/ 5. exp bronchitis/ 6. (chronic respiratory adj (disease or disorder)).mp. [mp=title, abstract, subject headings, heading				
word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 7. (chronic obstructive lung adj (disease or disorder)).mp. (mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]				
8. (chronic obstructive pulmonary adj (disease or disorder)).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]				
(chronic obstructive airway adj (disease or disorder)).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]				
10. (chronic obstructive respiratory adj (disease or disorder)).mp. (mpetitle, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]				
11. chronic ventilat	ory failure.mp.			
12. 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11				
13. oxygen therapy	/			
14. exp ambulatory	care/			
15. 13 and 14				
16. ((ambulat\$ or portable or supplemental or O2) adj2 (oxygen or therap\$)).mp. [mp=title, abstract,				
subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 17. 15 or 16				
18. 12 and 17				
Supplementary Method 2				
Search Strategy Cost effectiveness				
1 chronic obstructive lung disease/ (67861)				
2 copd.mp. (37001) 3 smoking-related lung disease\$.mp. (97)				
4 lung emphysema/ (14765)				
5 exp bronchitis/ (45660)				
6 (chronic respiratory adj (disease or disorder)).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name,				
keyword] (1569) 7 (chronic obstructive pulmonary adj (disease or disorder)).mp. (mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] (34872)				
8 (chronic obstructive lung adj (disease or disorder)).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] (68620)				
9 (chronic obstructive airway adj (disease or disorder)).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] (337)				
10 (chronic obstructive respiratory adj (disease or disorder)).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] [106)				
11 chronic ventilatory failure.mp. (92)				
12 or/1-11 (130339)			
13 oxygen therapy/ (19975)				
14 exp ambulatory care/ (38150)				
15 13 and 14 (123)				
	ortable or supplement	ntal or O2) adi2 (c	gen or thorone)\	nn (9268)
16 ((ambulat\$ or portable or supplemental or O2) adj2 (oxygen or therap\$)).mp. (9268) 17 15 or 16 (9324)				
18 12 and 17 (932)				

18 12 and 17 (932) 19 cost benefit analysis/ (65629) 20 cost effectiveness analysis/ (90660)