

Methods for Determination of Optimal Positive End Expiratory Pressure: a protocol for a scoping review

Supplemental Material

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Supplemental Table #1 – Search Strategy for MEDLINE

#	Query
1	end-expiratory pressure*.tw,kf,sh.
2	(positive adj5 expiratory pressure*).tw,kf,sh.
3	(positive adj2 endexpiratory pressure*).tw,kf,sh.
4	PEEP*.tw,kf.
5	(open lung adj3 (ventilat* or strateg* or approach*).tw,kf.
6	or/1-5
7	Respiratory Mechanics/
8	((high* or low* or optim* or individual* or increment* or decrement*) adj5 (strateg* or applic* or approach* or level* or trial* or titrat*).tw,kf.
9	((curve or curves or pressure or pressures) adj5 (driv* or stress* or PEEP* or oxygenat* or esophag*).tw,kf,sh.
10	((oxygenation or ventilation) adj3 (index or indexes or indices)).tw,kf.
11	ventilatory parameter*.tw,kf.
12	((high* or low* or optim* or individual* or increment* or decrement* or restricted or liberal or algorithm* or level or levels or chang*) adj3 (PEEP* or positive end expiratory pressure* or positive endexpiratory pressure*).tw,kf.
13	or/7-12
14	exp Respiration, Artificial/ or Ventilators, Mechanical/
15	((artificial* or mechanical*) adj3 (ventilat* or respirat*).tw,kf.
16	Intubation, Intratracheal/
17	(IMV or intubat*).tw,kf.
18	or/14-17
19	6 and 13 and 18
20	exp Child/ not (exp Adult/ and exp Child/)
21	exp Infant/ not (exp Adult/ and exp Infant/)
22	exp Animals/ not (exp Animals/ and Humans/)
23	or/20-22
24	19 not 23

Supplemental Table #2 – Search Strategy for EMBASE

#	Query
1	positive end expiratory pressure ventilation/
2	end-expiratory pressure*.tw,kf.
3	((positive adj5 end expiratory pressure*).tw,kf.
4	((positive adj2 endexpiratory pressure*).tw,kf.
5	PEEP*.tw,kf.
6	open lung ventilation/
7	((open lung adj3 (ventilat* or strateg* or approach*)).tw,kf.
8	or/1-7
9	breathing mechanics/
10	((high* or low* or optim* or individual* or increment* or decrement*) adj5 (strateg* or applic* or approach* or trial* or titrat* or level*)).tw,kf.
11	((curve or curves or pressure or pressures) adj5 (driv* or stress* or PEEP* or oxygenat* or esophag*)).tw,kf.
12	((oxygenation or ventilation) adj3 (index or indexes or indices)).tw,kf.
13	ventilatory parameter*.tw,kf.
14	((high* or low* or optim* or individual* or increment* or decrement* or restricted or liberal or algorithm* or level or levels or chang*) adj3 (PEEP* or positive end expiratory pressure* or positive endexpiratory pressure*)).tw,kf.
15	or/9-14
16	exp artificial ventilation/ or mechanical ventilator/
17	((artificial* or mechanical*) adj3 (ventilat* or respirat*)).tw,kf.
18	endotracheal intubation/
19	(IMV or intubat*).tw,kf.
20	or/16-19
21	8 and 15 and 20
22	exp child/ not ((exp adult/ or exp aged/) and exp child/)
23	exp infant/ not ((exp adult/ or exp aged/) and exp infant/)
24	exp animals/ not (exp animals/ and humans/)
25	22 or 23 or 24
26	21 not 25

Supplemental Table #3 – Search Strategy for CENTRAL

#	Query
1	end-expiratory pressure*.tw,hw,sh.
2	(positive adj5 end expiratory pressure*).tw,hw,sh.
3	(positive adj2 endexpiratory pressure*).tw,hw,sh.
4	(open lung adj3 (ventilat* or strateg* or approach*).tw,hw,sh.
5	PEEP*.tw,hw,sh.
6	(open lung adj3 (ventilat* or strateg* or approach*).tw,hw,sh.
7	or/2-6
8	respiratory mechanics.tw,hw,sh.
9	((high* or low* optim* or best or individual* or increment* or decrement* or open lung) adj5 (strateg* or applic* or approach* or setting* or trial* or titrat* or level*).tw,hw,sh.
10	((curve or curves or pressure or pressures) adj5 (driv* or stress* or PEEP* or oxygenat* or esophag*).tw,hw,sh.
11	((oxygenation or ventilation) adj3 (index or indexes or indices).tw,hw,sh.
12	ventilatory parameter*.tw,hw,sh.
13	((high* or low* optim* or best or individual* or increment* or decrement* or open lung) adj3 (PEEP* or positive end expiratory pressure* or positive endexpiratory pressure*).tw,hw,sh.
14	or/8-13
15	((artificial* or mechanical*) adj3 (ventilat* or respirat*).tw,hw,sh.
16	(IMV or intubat*).tw,hw,sh.
17	15 or 16
18	7 and 14 and 17
19	exp child/ not (exp adult/ and exp child/)
20	exp infant/ not (exp adult/ and exp infant/)
21	exp animals/ not (exp animals/ and humans/)
22	or/19-21
23	18 not 22

Supplemental Table #4 – Search Strategy for Scopus

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(TITLE-ABS-KEY (end-expiratory-pressure* OR (positive W/5 expiratory-
pressure*) OR (positive W/2 endexpiratory-pressure*) OR peep* OR (open-
lung W/3 (ventilat* OR strateg* OR approach*)))) AND ((TITLE-ABS-
KEY (respiratory-mechanics OR ventilatory-parameter*) OR TITLE-ABS-
KEY(((high* OR low* OR optim* OR individual* OR increment* OR decrement*)
W/5 (strateg* OR applic* OR approach* OR level* OR trial* OR titrat*))) OR TTTL
E-ABS-
KEY(((curve OR curves OR pressure OR pressures) W/5 (driv* OR stress* OR pee
p* OR oxygenat* OR esophag*)) .) OR TITLE-ABS-
KEY(((oxygenation OR ventilation) W/3 (index OR indexes OR indices))) OR TIT
LE-ABS-
KEY(((high* OR low* OR optim* OR individual* OR increment* OR decrement* O
R restricted OR liberal OR algorithm* OR level OR levels OR chang*) W/3 (peep* O
R positive-end-expiratory-pressure* OR positive-endexpiratory-
pressure*)))) AND ((TITLE-ABS-
KEY(((artificial* OR mechanical*) W/3 (ventilat* OR respirat*))) OR TITLE-ABS-
KEY((imv OR intubat*))) AND (EXCLUDE (SRCTYPE, "k") OR EXCLUDE (S
RCTYPE, "Undefined")) AND (LIMIT-TO (DOCTYPE, "ar") OR LIMIT-
TO (DOCTYPE, "re") OR LIMIT-TO (DOCTYPE, "cp")) AND (LIMIT-
TO (SUBJAREA, "MEDI") OR EXCLUDE (SUBJAREA, "AGRI") OR EXCLUDE (SUBJ
AREA, "ARTS") OR EXCLUDE (SUBJAREA, "CENG") OR EXCLUDE (SUBJ
AREA, "CHEM") OR EXCLUDE (SUBJAREA, "COMP") OR EXCLUDE (SUBJAR
EA, "DECI") OR EXCLUDE (SUBJAREA, "DENT") OR EXCLUDE (SUBJAREA,
"EART") OR EXCLUDE (SUBJAREA, "ENGI") OR EXCLUDE (SUBJAREA, "IMM
U") OR EXCLUDE (SUBJAREA, "SOCI") OR EXCLUDE (SUBJAREA, "PSYC") O
R EXCLUDE (SUBJAREA, "ENVI") OR EXCLUDE (SUBJAREA, "VETE") OR EX
CLUDE (SUBJAREA, "MATE") OR EXCLUDE (SUBJAREA, "PHYS"))

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Supplemental Table #5 – Search Strategy for Web of Science

1.	end-expiratory pressure* OR (positive NEAR/5 expiratory pressure*) OR (positive NEAR/2 endexpiratory pressure*) OR PEEP* OR (open lung NEAR/3 (ventilat* or strateg* or approach*)) (Topic)
2.	TS=(((high* or low* or optim* or individual* or increment* or decrement*) NEAR/5 (strateg* or applic* or approach* or level* or trial* or titrat*))) OR TS=(((curve or curves or pressure or pressures) NEAR/5 (driv* or stress* or PEEP* or oxygenat* or esophag*))) OR TS=(((oxygenation or ventilation) NEAR/3 (index or indexes or indices))) OR TS=(ventilatory-parameter*) OR TS=(((high* or low* or optim* or individual* or increment* or decrement* or restricted or liberal or algorithm* or level or levels or chang*) NEAR/3 (PEEP* or positive-end-expiratory-pressure* or positive-endexpiratory-pressure*)))
3.	((artificial* or mechanical*) NEAR/3 (ventilat* or respirat*)) (Topic) or (IMV or intubat*) (Topic)
4.	#1 AND #2 AND #3