

**Supplementary material I Full search terms**

#	Web of Science search terms	Results
# 11	#9 NOT #10 <i>Timespan=1993-2018 Search language=English</i>	985
# 10	TS = (vaccin*) <i>Timespan=1993-2018 Search language=English</i>	341,458
# 9	#8 NOT #6 <i>Timespan=1993-2018 Search language=English</i>	999
# 8	#5 AND #4 AND #3 AND #1 <i>Timespan=1993-2018 Search language=English</i>	1,370
# 7	TS = (access OR care or path) <i>Timespan=1993-2018 Search language=English</i>	2,870,066
# 6	TS = (smok* OR environ* OR viral OR virus) <i>Timespan=1993-2018 Search language=English</i>	5,011,281
# 5	TS = (exacer* OR worse*) <i>Timespan=1993-2018 Search language=English</i>	323,336
# 4	TS = (model OR path* OR provi* OR access OR integr*) <i>Timespan=1993-2018 Search language=English</i>	18,625,989
# 3	TS =(re\$admission OR re\$admit* OR admit* OR admission OR discharge OR transfer) <i>Timespan=1993-2018 Search language=English</i>	2,067,948
# 2	TS = (pathway OR specialist OR direct) <i>Timespan=1993-2018 Search language=English</i>	3,361,512
#1	TI = (COPD or COAD or (chronic obstructive airways disease) or (chronic obstructive pulmonary disease) OR (chronic bronchitis) or emphysema) <i>Timespan=1993-2018 Search language=English</i>	51,326

#	EMBASE/ EBSCO search terms	Results
#1	TI ( (COPD or COAD or (chronic obstructive airways disease) or (chronic obstructive pulmonary disease) OR (chronic bronchitis) or emphysema ) AND AB ( (re\$admission OR re\$admit* OR admit* OR admission OR discharge OR transfer) ) AND AB ( (model OR path* OR provi* OR access OR integr*) ) AND AB ( (exacer* OR worse*) ) NOT AB ( (smok* OR environ* OR viral OR virus) )	111

#	Pubmed search terms	Results
<a href="#">#15</a>	Search (COPD)[Title/Abstract] OR (COAD)[Title/Abstract] OR (chronic obstructive pulmonary disease)[Title/Abstract] OR (emphysema)[Title/Abstract] OR (chronic bronchitis)[Title/Abstract]	<a href="#">1</a>
<a href="#">#14</a>	Search (((((((COPD) OR (COAD) OR (chronic obstructive pulmonary disease) OR (emphysema) OR (chronic bronchitis))) AND ((exacer*[Title/Abstract]) OR worse*[Title/Abstract])) AND (((model[Title/Abstract]) OR path*[Title/Abstract]) OR provi*[Title/Abstract]) OR access[Title/Abstract]) OR integr*[Title/Abstract])) AND (((re\$adm*[Title/Abstract]) OR adm*[Title/Abstract]) OR discharge[Title/Abstract]) OR transfer[Title/Abstract])) NOT ((smok*) OR (environ*) OR (viral) OR (virus) OR (vacc*))	<a href="#">588</a>
<a href="#">#13</a>	Search (((((COPD) OR (COAD) OR (chronic obstructive pulmonary disease) OR (emphysema) OR (chronic bronchitis))) AND ((exacer*[Title/Abstract]) OR worse*[Title/Abstract])) AND (((model[Title/Abstract]) OR path*[Title/Abstract]) OR provi*[Title/Abstract]) OR access[Title/Abstract]) OR integr*[Title/Abstract])) AND (((re\$adm*[Title/Abstract]) OR adm*[Title/Abstract]) OR discharge[Title/Abstract]) OR transfer[Title/Abstract])	<a href="#">772</a>
<a href="#">#12</a>	Search ((COPD)[Title] OR (COAD)[Title] OR (chronic obstructive pulmonary disease)[Title] OR (emphysema)[Title] OR (chronic bronchitis)[Title])	<a href="#">34</a>
<a href="#">#11</a>	Search (COPD) OR (COAD) OR (chronic obstructive pulmonary disease) OR (emphysema) OR (chronic bronchitis)	<a href="#">101959</a>
<a href="#">#10</a>	Search (((((COPD)[Title] OR COAD)[Title] OR chronic obstructive pulmonary disease)[Title] OR emphysema)[Title] OR chronic bronchitis)[Title])	<a href="#">34</a>
<a href="#">#9</a>	Search (((((((COPD[Title]) OR COAD[Title]) OR chronic obstructive pulmonary disease[Title]) OR emphysema[Title]) AND chronic bronchitis[Title])) AND (((re\$adm*[Title/Abstract]) OR adm*[Title/Abstract]) OR discharge[Title/Abstract]) OR transfer[Title/Abstract])) AND (((model[Title/Abstract]) OR path*[Title/Abstract]) OR provi*[Title/Abstract]) OR access[Title/Abstract]) OR integr*[Title/Abstract])) AND ((exacer*[Title/Abstract]) OR worse*[Title/Abstract])	<a href="#">2</a>
<a href="#">#8</a>	Search (((smok*[Title/Abstract]) OR environ*[Title/Abstract]) OR viral[Title/Abstract]) OR virus[Title/Abstract]	<a href="#">1784255</a>
<a href="#">#7</a>	Search (exacer*[Title/Abstract]) OR worse*[Title/Abstract]	<a href="#">259092</a>
<a href="#">#6</a>	Search (((model[Title/Abstract]) OR path*[Title/Abstract]) OR provi*[Title/Abstract]) OR access[Title/Abstract]) OR integr*[Title/Abstract]	<a href="#">4761017</a>

<a href="#">#5</a>	Search (((re\$adm*[Title/Abstract]) OR adm*[Title/Abstract]) OR discharge[Title/Abstract]) OR transfer[Title/Abstract]	<a href="#">1870796</a>
<a href="#">#4</a>	Search (((COPD[Title] OR COAD[Title]) OR chronic obstructive pulmonary disease[Title]) OR emphysema[Title]) AND chronic bronchitis[Title]	<a href="#">586</a>
<a href="#">#3</a>	Search ((COPD[Title] OR COAD[Title] OR (chronic obstructive airways disease)[Title] OR (chronic obstructive pulmonary disease)[Title] OR (chronic bronchitis)[Title] OR emphysema)[Title])	<a href="#">31</a>
<a href="#">#2</a>	Search ((((((COPD[Title] OR COAD[Title] OR (chronic obstructive airways disease)[Title] OR (chronic obstructive pulmonary disease)[Title] OR (chronic bronchitis)[Title] OR emphysema)[Title])) AND ((re\$admission[Title/Abstract] OR re\$admit*[Title/Abstract] OR admit*[Title/Abstract] OR admission[Title/Abstract] OR discharge[Title/Abstract] OR transfer)[Title/Abstract])) AND ((model[Title/Abstract] OR path*[Title/Abstract] OR provi*[Title/Abstract] OR access[Title/Abstract] OR integr*[Title/Abstract])) AND ((exacer*[Title/Abstract] OR worse*[Title/Abstract])) NOT ((smok*[Title/Abstract] OR environ*[Title/Abstract] OR viral[Title/Abstract] OR virus)[Title/Abstract]) Schema: all	<a href="#">0</a>
<a href="#">#1</a>	Search ((((((COPD[Title] OR COAD[Title] OR (chronic obstructive airways disease)[Title] OR (chronic obstructive pulmonary disease)[Title] OR (chronic bronchitis)[Title] OR emphysema)[Title])) AND ((re\$admission[Title/Abstract] OR re\$admit*[Title/Abstract] OR admit*[Title/Abstract] OR admission[Title/Abstract] OR discharge[Title/Abstract] OR transfer)[Title/Abstract])) AND ((model[Title/Abstract] OR path*[Title/Abstract] OR provi*[Title/Abstract] OR access[Title/Abstract] OR integr*[Title/Abstract])) AND ((exacer*[Title/Abstract] OR worse*[Title/Abstract])) NOT ((smok*[Title/Abstract] OR environ*[Title/Abstract] OR viral[Title/Abstract] OR virus)[Title/Abstract])	<a href="#">0</a>