

Indoor air quality at home

Search strategies

NICE guideline

May 2019

*Commissioned by the National Institute
for Health and Care Excellence*

Disclaimer

The recommendations in this guideline represent the view of NICE, arrived at after careful consideration of the evidence available. When exercising their judgement, professionals are expected to take this guideline fully into account, alongside the individual needs, preferences and values of their patients or service users. The recommendations in this guideline are not mandatory and the guideline does not override the responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient, in consultation with the patient and, where appropriate, their carer or guardian.

Local commissioners and providers have a responsibility to enable the guideline to be applied when individual health professionals and their patients or service users wish to use it. They should do so in the context of local and national priorities for funding and developing services, and in light of their duties to have due regard to the need to eliminate unlawful discrimination, to advance equality of opportunity and to reduce health inequalities. Nothing in this guideline should be interpreted in a way that would be inconsistent with compliance with those duties.

NICE guidelines cover health and care in England. Decisions on how they apply in other UK countries are made by ministers in the [Welsh Government](#), [Scottish Government](#), and [Northern Ireland Executive](#). All NICE guidance is subject to regular review and may be updated or withdrawn.

Copyright

© NICE [2019]. All rights reserved. Subject to [Notice of rights](#).

Indoor air quality at home
Search Strategies

Indoor air quality search history

Contents:

1. RQ1 and RQ2: What individual or building factors are associated with increased exposure to poor indoor air quality at home? / What signs and symptoms should prompt healthcare professionals to consider exposure to poor indoor air quality at home in people presenting to health services?
2. RQ3.1: What are the effective material and structural interventions to prevent or reduce the health impacts of poor indoor air quality at home?
3. RQ3.2: What are the effective occupant behaviour interventions to reduce or prevent the health impacts of poor indoor air quality at home?
4. RQ3.3: How can ventilation in homes be designed or used to prevent or reduce the health impacts of poor indoor air quality whilst maintaining adequate energy and thermal performance?
5. RQ4: What are the effective strategies for raising awareness of the risks of poor indoor air quality at home?
6. Cost effectiveness search
7. Re-runs

1RQ1 and RQ2

RQ1 What individual or building factors are associated with increased exposure to poor indoor air quality at home?

RQ2 What signs and symptoms should prompt healthcare professionals to consider exposure to poor indoor air quality at home in people presenting to health services?

1.1 Broad search

An overall broad search was necessary because not all relevant literature could be captured by using a core set of search terms for pollutants / domestic settings.

The broad search and RQ1/RQ2 search were created as two individual sets, with the broad search results removed from the RQ1/RQ2 results for ease of sifting.

Flowchart

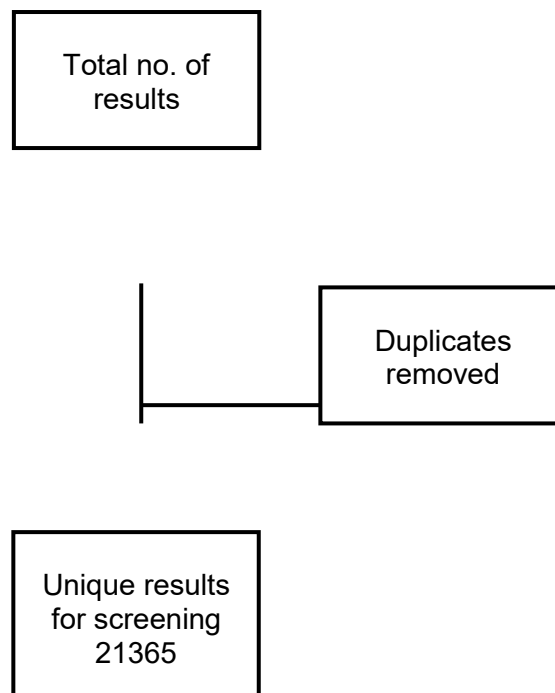


Table of results - broad search

Database name	Date searched	Database Platform	Database segment or version	No. of results
Medline	06/03/18	OVID	Ovid MEDLINE(R) <1946 to Present with Daily Update>, Ovid MEDLINE(R) Epub Ahead of Print <March 02, 2018>, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations <March 02, 2018>	11002
Embase	07/03/18	OVID	Embase 1974 to 2018 March 06	10731
Health Management Information Consortium (HMIC)	07/03/18	OVID	HMIC Health Management Information Consortium 1979 to January 2018	493
Social Policy & Practice (SPP)	07/03/18	OVID	Social Policy and Practice 201801	1116
CDSR	07/03/18	Wiley	Cochrane Database of Systematic Reviews : Issue 3 of 12, March 2018	69
CENTRAL	07/03/18	Wiley	Cochrane Central Register of Controlled Trials : Issue 2 of 12, February 2018	2064
DARE	07/03/18	Wiley	Database of Abstracts of Reviews of Effect : Issue 2 of 4, April 2015	4
Greenfile	07/03/18	Ebsco	Greenfile	4150
Scoping				499
Total: 19126 (excluding medline results)				

Database strategies: Broad search

Database name: Medline

Strategy
1 (indoor adj (environment or environments or exposure)).ti. (553)
2 ((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)).ti. (4121)

Indoor air quality at home
Search Strategies

- 3 ("indoor air pollut*" or "indoor air quality").ab. (2251)
- 4 (indoor adj (climate or climates)).ti,ab. (179)
- 5 *Air Pollution, Indoor/ (9077)
- 6 or/1-5 (12246)
- 7 indoor air.jn. (1181)
- 8 Air Pollution, Indoor/ (11759)
- 9 or/7-8 (12115)
- 10 randomized controlled trial.pt. (454849)
- 11 randomized controlled trial/ (454849)
- 12 controlled clinical trial.pt. (92204)
- 13 random allocation/ (93424)
- 14 Placebos/ (33812)
- 15 clinical trial, phase ii/ or clinical trial, phase iii/ (41304)
- 16 or/10-15 (646405)
- 17 Observational Study as Topic/ (2738)
- 18 Observational Study/ (44432)
- 19 Epidemiologic Studies/ (7613)
- 20 exp Case-Control Studies/ (899030)
- 21 exp Cohort Studies/ (1715280)
- 22 Cross-Sectional Studies/ (258380)
- 23 Controlled Before-After Studies/ (305)
- 24 Historically Controlled Study/ (131)
- 25 Interrupted Time Series Analysis/ (384)
- 26 Comparative Study.pt. (1791199)
- 27 case control\$.tw. (109100)
- 28 case series.tw. (57953)
- 29 (cohort adj (study or studies)).tw. (150125)
- 30 cohort analy\$.tw. (6040)
- 31 (follow up adj (study or studies)).tw. (44590)
- 32 (observational adj (study or studies)).tw. (78778)
- 33 longitudinal.tw. (200251)
- 34 prospective.tw. (480096)
- 35 retrospective.tw. (416387)
- 36 cross sectional.tw. (270334)

Indoor air quality at home
Search Strategies

37	or/17-36 (4098034)
38	Meta-Analysis.pt. (85374)
39	Meta-Analysis as Topic/ (16024)
40	Review.pt. (2349777)
41	exp Review Literature as Topic/ (9696)
42	(metaanaly* or metanaly* or (meta adj3 analy*)).tw. (124866)
43	(review* or overview*).ti. (422588)
44	(systematic* adj5 (review* or overview*)).tw. (128899)
45	((quantitative* or qualitative*) adj5 (review* or overview*)).tw. (8277)
46	((studies or trial*) adj2 (review* or overview*)).tw. (39143)
47	(integrat* adj3 (research or review* or literature)).tw. (9744)
48	(pool* adj2 (analy* or data)).tw. (24175)
49	(handsearch* or (hand adj3 search*)).tw. (8069)
50	(manual* adj3 search*).tw. (5113)
51	or/38-50 (2621886)
52	16 or 37 or 51 (6825183)
53	9 and 52 (3710)
54	6 or 53 (13149)
55	limit 54 to english language (11819)
56	limit 55 to yr="1970 -Current" (11772)
57	limit 56 to (case reports or clinical conference or comment or editorial or interview or letter or news or newspaper article) (770)
58	56 not 57 (11002)

Database name: Embase

Strategy	
1	(indoor adj (environment or environments or exposure)).ti. (762)
2	((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)).ti. (5847)
3	("indoor air pollut*" or "indoor air quality").ab. (3137)
4	(indoor adj (climate or climates)).ti,ab. (241)
5	*indoor air pollution/ (8102)

Indoor air quality at home
Search Strategies

- 6 or/1-5 (13961)
- 7 indoor air.jn. (924)
- 8 indoor air pollution/ (12313)
- 9 or/7-8 (12553)
- 10 exp Clinical Trial/ (1299522)
- 11 Randomization/ (77230)
- 12 Placebo/ (320521)
- 13 Double Blind Procedure/ (146997)
- 14 Single Blind Procedure/ (30559)
- 15 Crossover Procedure/ (54549)
- 16 ((random\$ or control\$ or clinical\$) adj3 (trial\$ or stud\$)).tw. (1435375)
- 17 (random\$ adj3 allocat\$).tw. (37228)
- 18 placebo\$.tw. (269533)
- 19 ((singl\$ or doubl\$ or trebl\$ or tripl\$) adj (blind\$ or mask\$)).tw. (210365)
- 20 (crossover\$ or (cross adj over\$)).tw. (92606)
- 21 or/10-20 (2458188)
- 22 Clinical study/ (154286)
- 23 Case control study/ (122494)
- 24 Family study/ (25461)
- 25 Longitudinal study/ (108988)
- 26 Retrospective study/ (617104)
- 27 comparative study/ (773427)
- 28 Prospective study/ (427662)
- 29 Randomized controlled trials/ (140348)
- 30 28 not 29 (423327)
- 31 Cohort analysis/ (348202)
- 32 cohort analy\$.tw. (9283)
- 33 (Cohort adj (study or studies)).tw. (213012)
- 34 (Case control\$ adj (study or studies)).tw. (113200)
- 35 (follow up adj (study or studies)).tw. (57234)
- 36 (observational adj (study or studies)).tw. (120736)
- 37 (epidemiologic\$ adj (study or studies)).tw. (95311)
- 38 (cross sectional adj (study or studies)).tw. (156164)
- 39 case series.tw. (77797)

Indoor air quality at home
Search Strategies

40	prospective.tw. (699716)
41	retrospective.tw. (665347)
42	or/22-27,30-41 (3218949)
43	Systematic Review/ (160654)
44	Meta Analysis/ (139750)
45	Review/ (2280090)
46	Review.pt. (2339205)
47	(metaanaly\$ or metanaly\$ or (meta adj3 analy\$)).tw. (163294)
48	(review\$ or overview\$).ti. (491941)
49	(systematic\$ adj5 (review\$ or overview\$)).tw. (158531)
50	((quantitative\$ or qualitative\$) adj5 (review\$ or overview\$)).tw. (9775)
51	((studies or trial\$) adj2 (review\$ or overview\$)).tw. (46868)
52	(integrat\$ adj3 (research or review\$ or literature)).tw. (11027)
53	(pool\$ adj2 (analy\$ or data)).tw. (35686)
54	(handsearch\$ or (hand adj3 search\$)).tw. (9941)
55	(manual\$ adj3 search\$).tw. (6222)
56	or/43-55 (2877372)
57	21 or 42 or 56 (7243008)
58	9 and 57 (3128)
59	6 or 58 (15063)
60	limit 59 to english language (12706)
61	limit 60 to (conference abstract or conference paper or conference proceeding or "conference review" or editorial or letter or note) (1975)
62	60 not 61 (10731)

Database name: HMIC

Strategy	
1	(indoor adj (environment or environments or exposure)).ti,ab,sh. (34)
2	((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)).ti,ab,sh. (473)
3	("indoor air pollut*" or "indoor air quality").ti,ab,sh. (80)
4	(indoor adj (climate or climates)).ti,ab,sh. (5)
5	or/1-4 (493)

Database name: Social Policy & Practice

Strategy	
1	(indoor adj (environment or environments or exposure)).ti,ab,sh. (34)
2	((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)).ti,ab,sh. (1093)
3	("indoor air pollut*" or "indoor air quality").ti,ab,sh. (106)
4	(indoor adj (climate or climates)).ti,ab,sh. (0)
5	or/1-4 (1116)

Database name: Cochrane CDSR

Strategy	
#1	(indoor next (environment or environments or exposure)):ti,ab 45
#2	((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)):ti,ab 2033
#3	("indoor air pollut*" or "indoor air quality"):ti,ab 81
#4	(indoor next (climate or climates)):ti,ab 9
#5	[mh "Air Pollution, Indoor"] 185
#6	{or #1-#5} in Cochrane Reviews (Reviews and Protocols) 69

Database name: Cochrane CENTRAL

Strategy	
#1	(indoor next (environment or environments or exposure)):ti,ab 45
#2	((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)):ti,ab 2033
#3	("indoor air pollut*" or "indoor air quality"):ti,ab 81
#4	(indoor next (climate or climates)):ti,ab 9
#5	[mh "Air Pollution, Indoor"] 185
#6	{or #1-#5} in Trials 2064

Database name: Cochrane DARE

Strategy		
#1	(indoor next (environment or environments or exposure)):ti,ab	45
#2	((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)):ti,ab	2033
#3	("indoor air pollut*" or "indoor air quality"):ti,ab	81
#4	(indoor next (climate or climates)):ti,ab	9
#5	[mh "Air Pollution, Indoor"]	185
#6	{or #1-#5} in Other Reviews	4

Database name: Greenfile

Strategy	
S1	TI ((indoor N1 (environment or environments or exposure)) 418
S2	TI ((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)) 1,998
S3	AB ("indoor air pollut*" or "indoor air quality") 1,686
S4	TI (indoor N1 (climate or climates)) OR AB (indoor N1 (climate or climates)) 129
S5	DE "INDOOR air pollution 1,492
S6	S1 OR S2 OR S3 OR S4 OR S5 4,150

1.2 RQ1 and RQ2

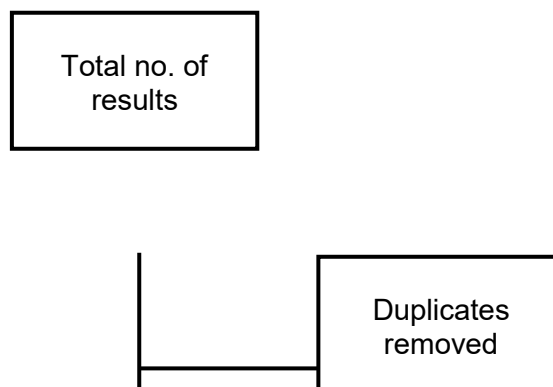
Where possible the broad search strategy terms were added beneath the RQ1 RQ2 search terms, and the broad search results were removed by using 'not'.

The search results from RQ1 and RQ2 for the following databases/sources were also used for RQ3.1 and RQ3.2, as they consist of a core set (pollutants and domestic settings). Where possible the broad search terms were also subtracted from searches.

- HMIC
- SPP
- CDSR
- Central
- HTA
- NHS EED
- Greenfile
- Web of Science
- Google
- Google Scholar
- OpenGrey

Flowchart

Total set



Unique results
for screening

17692

Table of results

Database name	Date searched	Database Platform	Database segment or version	No. of results
Medline	30/03/18	OVID	Ovid MEDLINE(R) <1946 to Present with Daily Update>; Ovid MEDLINE(R) Epub Ahead of Print <March 30, 2018>; Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations <March 30, 2018>	9513
Embase	30/03/18	OVID	Embase 1974 to 2018 Week 14	11,585
Health Management Information Consortium (HMIC)	30/3/18	OVID	HMIC Health Management Information Consortium 1979 to January 2018	359
Social Policy & Practice (SPP)	29/03/18	OVID	Social Policy and Practice 201801	1130
CDSR	3/4/18	Wiley	Cochrane Database of Systematic Reviews : Issue 4 of 12, April 2018	37
CENTRAL	3/4/18	Wiley	Cochrane Central Register of Controlled Trials : Issue 3 of 12, March 2018	1708
DARE	3/4/18	Wiley	Database of Abstracts of Reviews of Effect : Issue 2 of 4, April 2015	12
HTA	3/4/18	Wiley	Health Technology Assessment Database : Issue 4 of 4, October 2016	3

NHS EED	3/4/18	Wiley	NHS Economic Evaluation Database : Issue 2 of 4, April 2015	3
Greenfile	29/3/18	Ebsco	Greenfile	594
WoS	5/4/18			479
Google	5/4/18			21
Google Scholar	5/4/18			20
OpenGrey	3/4/18			1
Total: 25465				

Database strategies

Strategy
<p>Database: Ovid MEDLINE(R) <1946 to Present with Daily Update> Search Strategy: 30 March 18</p> <p>-----</p> <ol style="list-style-type: none"> 1 *air pollution/ (19363) 2 limit 1 to yr="1970 - 1991" (4269) 3 *air pollutants/ (32567) 4 *Air Pollution, Indoor/ae (1983) 5 ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti. (44599) 6 *carbon dioxide/ or *carbon monoxide/ or *nitrogen oxides/ or *nitrogen dioxide/ or *ozone/ (54153) 7 ("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti. (4506) 8 ((fine or ultrafine) adj (particulat* or particle*)).ti. (1734) 9 "PM 2.5".ti. (173) 10 "PM2.5".ti. (1304) 11 "PM(2.5)".ti. (173) 12 "PM 10".ti. (92) 13 "PM10".ti. (718) 14 "PM(10)".ti. (92) 15 *particulate matter/ or *coal ash/ or *smoke/ or *soot/ (15012)

- 16 ((coal or fly or fuel) adj3 (ash or ashes)).ti. (1634)
- 17 soot.ti. (370)
- 18 *Volatile Organic Compounds/ (4669)
- 19 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti. (2586)
- 20 *Benzene Derivatives/ or *Benzene/ (9191)
- 21 *Naphthalenes/ or *tetrachloroethylene/ or *trichloroethylene/ or *formaldehyde/ (23115)
- 22 (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti. (16518)
- 23 *polyvinyl chloride/ or "polyvinyl chloride*".ti. (1678)
- 24 *halogenated diphenyl ethers/ (2305)
- 25 ("flame retard*" or "fire resist*" or "diphenyl ether*" or "PBDE").ti. (3295)
- 26 *Flame Retardants/ (2271)
- 27 *Plasticizers/ (1375)
- 28 (plasticiser* or plasticizer*).ti. (735)
- 29 *dibutyl phthalate/ or *diethylhexyl phthalate/ or (phthalate* or pthalate* or phtalate*).ti. (4439)
- 30 *Styrene/ or styrene*.ti. (2432)
- 31 *polycyclic aromatic hydrocarbons/ or *benzopyrenes/ (12437)
- 32 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*).ti. (7096)
- 33 *antiperspirants/ or *talc/ or *deodorants/ or *perfume/ (3044)
- 34 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti. (1325)
- 35 (limonene or pinene or carene).ti. (808)
- 36 *Odorants/ (8519)
- 37 "air freshener*".ti. (25)
- 38 (candle or candles).ti. (203)
- 39 *aerosols/ae (339)
- 40 *toluene/ or toluene.ti. (5187)
- 41 *solvents/ or solvent*.ti. (21695)
- 42 40 or 41 (26414)
- 43 substance-related disorders/ or inhalant abuse/ (88421)
- 44 ("glue sniff*" or "glue-sniff*" or "solvent abuse*" or "solvent-abuse*").ti,ab. (376)
- 45 43 or 44 (88475)

Indoor air quality at home
Search Strategies

- 46 42 not 45 (25716)
- 47 or/2-39 (188293)
- 48 46 or 47 (211308)
- 49 *Bacteria/ or *fungi/ or *stachybotrys/ or *air microbiology/ (110955)
- 50 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti. (229130)
- 51 *spores/ or *spores, bacterial/ or *spores, fungal/ (7614)
- 52 *Endotoxins/ (15951)
- 53 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti. (15413)
- 54 "moisture damage*".ti. (42)
- 55 *humidity/ (3658)
- 56 or/49-55 (313649)
- 57 (dust or dusty or dustmite*).ti. or *dust/ (15619)
- 58 exp *Pyroglyphidae/ (1253)
- 59 (Dermatophagoid* or pyroglyphid*).ti. (1096)
- 60 (Cimex adj (lectularius or hemipterus)).ti. (212)
- 61 *bedbugs/ or (bedbug* or "bed bug").ti. (578)
- 62 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti. (429)
- 63 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people*)).ti. (158)
- 64 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti. (399)
- 65 ((avian or bird*) adj3 feather*).ti. (150)
- 66 *dander/ or dander.ti. (154)
- 67 or/57-66 (18459)
- 68 *heating/ or *cooking/ (7291)
- 69 *fossil fuels/ or *coal/ or *natural gas/ or *wood/ (9780)
- 70 *butanes/ or *propane/ or (butane or propane).ti. (2186)
- 71 ("lpg" or "liquid petroleum").ti. not "lipophosphoglycan".ti,ab. (63)
- 72 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or burner* or boiler* or furnace* or appliance*)).ti. (842)
- 73 or/68-72 (19654)
- 74 *paint/ (1928)
- 75 *adhesives/ (3759)

- 76 exp *lead poisoning/ (9632)
- 77 *Dichloromethane/ or *Methylene Chloride/ (650)
- 78 (dichloromethane or "methylene chloride").ti. (645)
- 79 exp *household products/ (17297)
- 80 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*").ti. (758)
- 81 **Floors and Floorcoverings"/ (1087)
- 82 **Interior Design and Furnishings"/ (2583)
- 83 or/74-82 (37190)
- 84 48 or 56 or 67 or 73 or 83 (584763)
- 85 housing/ (15790)
- 86 exp Residential Facilities/ (48505)
- 87 exp Nursing Homes/ (36164)
- 88 Housing for the Elderly/ (1556)
- 89 Public Housing/ (1231)
- 90 (indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab. (438846)
- 91 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*").ti,ab. (517)
- 92 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters).ti,ab. (10486)
- 93 flats.ti,ab. (777)
- 94 (garage* and (integral or integrated or attach*)).ti,ab. (42)
- 95 (caravan* or "mobile home*").ti,ab. (183)
- 96 (boat or boats).ti. (562)
- 97 or/85-96 (472232)
- 98 (bedroom* or "bed room*").ti,ab. (1866)
- 99 (dormitory or dormitories).ti,ab. (459)
- 100 ("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab. (880)
- 101 (hall or halls or hallway* or stairwell*).ti,ab. (5125)
- 102 (kitchen* or "dining room*" or dining-room* or diningroom*).ti,ab. (3747)
- 103 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab. (1129)
- 104 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti,ab. (76)

Indoor air quality at home
Search Strategies

- 105 "utility room*".ti,ab. (17)
- 106 or/98-105 (12377)
- 107 97 or 106 (480773)
- 108 Housing, Animal/ (10186)
- 109 Livestock/ or cattle/ or exp goats/ or exp sheep/ or swine/ or sus scrofa/ or swine, miniature/ (625445)
- 110 (pig or pigs or goat or goats or sheep or cow or cows).ti,ab. (326189)
- 111 or/108-110 (755160)
- 112 107 not 111 (459943)
- 113 84 and 112 (24401)
- 114 air pollution/ (26272)
- 115 limit 114 to yr="1970 - 1991" (6547)
- 116 air pollutants/ (39207)
- 117 Air Pollution, Indoor/ae (3145)
- 118 ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti,ab. (133789)
- 119 carbon dioxide/ or carbon monoxide/ or nitrogen oxides/ or nitrogen dioxide/ or ozone/ (118212)
- 120 ("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti,ab. (16120)
- 121 ((fine or ultrafine) adj (particulat* or particle*)).ti,ab. (6181)
- 122 "PM 2.5".ti,ab. (1534)
- 123 "PM2.5".ti,ab. (4956)
- 124 "PM(2.5)".ti,ab. (1534)
- 125 "PM 10".ti,ab. (1536)
- 126 "PM10".ti,ab. (3705)
- 127 "PM(10)".ti,ab. (1536)
- 128 particulate matter/ or coal ash/ or smoke/ or soot/ (21709)
- 129 ((coal or fly or fuel) adj3 (ash or ashes)).ti,ab. (2968)
- 130 soot.ti,ab. (1327)
- 131 Volatile Organic Compounds/ (6645)
- 132 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti,ab. (7263)
- 133 Benzene Derivatives/ or Benzene/ (14553)
- 134 Naphthalenes/ or tetrachloroethylene/ or trichloroethylene/ or formaldehyde/ (43870)

- 135 (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti,ab. (51005)
- 136 polyvinyl chloride/ or "polyvinyl chloride*".ti,ab. (4521)
- 137 halogenated diphenyl ethers/ (3422)
- 138 ("flame retard*" or "fire resist*" or "diphenyl ether*" or "PBDE").ti,ab. (6133)
- 139 Flame Retardants/ (2931)
- 140 Plasticizers/ (2289)
- 141 (plasticiser* or plasticizer*).ti,ab. (3263)
- 142 dibutyl phthalate/ or diethylhexyl phthalate/ or (phthalate* or pthalate* or phtalate*).ti,ab. (7594)
- 143 Styrene/ or styrene*.ti,ab. (6965)
- 144 polycyclic aromatic hydrocarbons/ or benzopyrenes/ (17217)
- 145 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*).ti,ab. (17033)
- 146 antiperspirants/ or talc/ or deodorants/ or perfume/ (4285)
- 147 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab. (2846)
- 148 (limonene or pinene or carene).ti,ab. (4123)
- 149 Odorants/ (16188)
- 150 "air freshener*".ti,ab. (93)
- 151 (candle or candles).ti,ab. (694)
- 152 aerosols/ae (684)
- 153 toluene/ or toluene.ti,ab. (15330)
- 154 solvents/ or solvent*.ti,ab. (123035)
- 155 153 or 154 (134950)
- 156 substance-related disorders/ or inhalant abuse/ (88421)
- 157 ("glue sniff*" or "glue-sniff*" or "solvent abuse*" or "solvent-abuse*").ti,ab. (376)
- 158 156 or 157 (88475)
- 159 155 not 158 (133806)
- 160 or/115-152 (403065)
- 161 159 or 160 (520314)
- 162 Bacteria/ or fungi/ or stachybotrys/ or air microbiology/ (163985)
- 163 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti,ab. (734473)
- 164 spores/ or spores, bacterial/ or spores, fungal/ (26288)
- 165 Endotoxins/ (24593)

- 166 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti,ab. (83431)
- 167 "moisture damage*".ti,ab. (119)
- 168 humidity/ (14968)
- 169 or/162-168 (893115)
- 170 (dust or dusty or dustmite*).ti,ab. or dust/ (35778)
- 171 exp Pyroglyphidae/ (2462)
- 172 (Dermatophagoid* or pyroglyphid*).ti,ab. (3724)
- 173 (Cimex adj (lectularius or hemipterus)).ti,ab. (342)
- 174 bedbugs/ or (bedbug * or "bed bug").ti,ab. (692)
- 175 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti,ab. (2090)
- 176 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people*)).ti,ab. (6138)
- 177 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti,ab. (1576)
- 178 ((avian or bird*) adj3 feather*).ti,ab. (538)
- 179 dander/ or dander.ti,ab. (862)
- 180 or/170-179 (48799)
- 181 heating/ or cooking/ (15142)
- 182 fossil fuels/ or coal/ or natural gas/ or wood/ (16870)
- 183 butanes/ or propane/ or (butane or propane).ti,ab. (6910)
- 184 ((lpg or "liquid petroleum") not "lipophosphoglycan").ti,ab. (649)
- 185 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or burner* or boiler* or furnace* or appliance*)).ti,ab. (4812)
- 186 or/181-185 (42237)
- 187 paint/ (3290)
- 188 adhesives/ (6009)
- 189 exp lead poisoning/ (11500)
- 190 Dichloromethane/ or Methylene Chloride/ (1824)
- 191 (dichloromethane or "methylene chloride").ti,ab. (7913)
- 192 exp household products/ (40045)
- 193 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering").ti,ab. (2566)
- 194 "Floors and Floorcoverings"/ (1908)
- 195 "Interior Design and Furnishings"/ (4340)

Indoor air quality at home
Search Strategies

- 196 or/187-195 (76449)
- 197 161 or 169 or 180 or 186 or 196 (1500090)
- 198 *housing/ (7820)
- 199 exp *Residential Facilities/ (33532)
- 200 exp *Nursing Homes/ (25346)
- 201 *Housing for the Elderly/ (1118)
- 202 *Public Housing/ (789)
- 203 (indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti. (128570)
- 204 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*").ti. (185)
- 205 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters).ti. (2953)
- 206 flats.ti. (167)
- 207 (garage* and (integral or integrated or attach*)).ti. (8)
- 208 (caravan* or "mobile home*").ti. (58)
- 209 (boat or boats).ti. (562)
- 210 or/198-209 (150909)
- 211 (bedroom* or "bed room*").ti. (151)
- 212 (dormitory or dormitories).ti. (92)
- 213 ("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti. (92)
- 214 (hall or halls or hallway* or stairwell*).ti. (1463)
- 215 (kitchen* or "dining room*" or dining-room* or diningroom*).ti. (1060)
- 216 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti. (143)
- 217 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti. (20)
- 218 "utility room*".ti. (4)
- 219 or/211-218 (3014)
- 220 210 or 219 (153630)
- 221 Housing, Animal/ (10186)
- 222 Livestock/ or cattle/ or exp goats/ or exp sheep/ or swine/ or sus scrofa/ or swine, miniature/ (625445)
- 223 (pig or pigs or goat or goats or sheep or cow or cows).ti,ab. (326189)
- 224 or/221-223 (755160)

- 225 220 not 224 (147880)
- 226 197 and 225 (15060)
- 227 113 or 226 (28599)
- 228 limit 227 to english language (25707)
- 229 limit 228 to yr="1970 -Current" (25369)
- 230 limit 229 to (case reports or clinical conference or comment or editorial or interview or letter or news or newspaper article) (1128)
- 231 229 not 230 (24241)
- 232 maternal exposure/ (7431)
- 233 fetal development/ (6713)
- 234 pregnancy outcome/ (44637)
- 235 premature birth/ (10662)
- 236 Birth Weight/ (36749)
- 237 Infant, Low Birth Weight/ (17085)
- 238 abortion, spontaneous/ (18539)
- 239 Fetal Death/ (23850)
- 240 stillbirth/ (3931)
- 241 Perinatal Mortality/ (1773)
- 242 prenatal exposure delayed effects/ (25367)
- 243 allergens/ (37571)
- 244 (allergen* or allergic* or aeroallergen*).ti,ab. (118347)
- 245 (atopy or atopic).ti,ab. (35383)
- 246 hypersensitivity/ or exp hypersensitivity, immediate/ (246640)
- 247 respiratory hypersensitivity/ (9223)
- 248 conjunctivitis, allergic/ or conjunctivitis/ or conjunctivitis.ti,ab. (14134)
- 249 retinal hemorrhage/ (4946)
- 250 (eye* adj3 (red* or inflam* or itch* or water*)).ti,ab. (6933)
- 251 alveolitis, extrinsic allergic/ or alveolitis.ti,ab. (5783)
- 252 "Hypersensitivity pneumonitis".ti,ab. (2009)
- 253 rhinitis, allergic/ or rhinitis, allergic, perennial/ (9153)
- 254 rhinitis/ or rhinitis.ti,ab. (28832)
- 255 (rhinoconjunctivitis or rhino-conjunctivitis or "rhino conjunctivitis").ti,ab. (1965)
- 256 eosinophilic esophagitis/ (1119)
- 257 ((eosinophilic or allergic) adj1 (esophagitis or oesophagitis)).ti,ab. (1710)

- 258 urticaria/ or urticaria.ti,ab. (15032)
- 259 eczema/ or eczema*.ti,ab. (19422)
- 260 dermatitis, atopic/ or dermatitis, contact/ or dermatitis, allergic contact/ (41789)
- 261 dermatitis/ or dermatitis.ti,ab. (51374)
- 262 (skin adj3 (rash or rashes)).ti,ab. (5167)
- 263 exanthema/ or exanthem*.ti,ab. (8859)
- 264 Psoriasis/ or (psoriasis or psoriatic).ti,ab. (41668)
- 265 inhalation exposure/ (8142)
- 266 Respiratory Tract Diseases/ or Respiratory Tract Infections/ (56033)
- 267 ((acute or chronic or upper or lower) adj1 respiratory).ti,ab. (59422)
- 268 bronchitis/ or exp bronchiolitis/ (27653)
- 269 (bronchiolit* or bronchit* or wheez*).ti,ab. (37654)
- 270 Bronchoconstriction/ or (bronchoconstriction* or "bronchial spasm").ti,ab. (8893)
- 271 (short* adj3 breath*).ti,ab. (5998)
- 272 dyspnea/ or dyspnea.ti,ab. (38639)
- 273 cough/ or cough*.ti,ab. (42558)
- 274 (phlegm or sputum or mucus).ti,ab. (47108)
- 275 (catarrh or catarrhal).ti,ab. (1666)
- 276 ((nasal or sinus) adj3 congest*).ti,ab. (1829)
- 277 ((runny or stuffy or blocked) adj3 nose*).ti,ab. (771)
- 278 sneezing/ or sneeze*.ti,ab. (1242)
- 279 ((nose or nasal) adj3 (bleed or bleeding)).ti,ab. (852)
- 280 epistaxis/ or epistaxis.ti,ab. (6739)
- 281 pharyngitis/ or nasopharyngitis/ (7847)
- 282 (pharyngitis or nasopharyngitis or "sore throat").ti,ab. (8804)
- 283 sinusitis/ or sinusitis.ti,ab. (21931)
- 284 Respiratory Syncytial Virus Infections/ (6007)
- 285 "respiratory syncytial virus".ti,ab. (10820)
- 286 ((lung or pulmonary or respiratory or chest) adj2 (inflamm* or infect*).ti,ab. (64452)
- 287 Asthma/ or asthma*.ti,ab. (149614)
- 288 Pulmonary Disease, Chronic Obstructive/ (32181)
- 289 ("COPD" or "chronic obstructive pulmonary").ti,ab. (45292)
- 290 aspergillosis/ (12003)
- 291 aspergillosis.ti,ab. (10589)

- 292 aspergillosis, allergic bronchopulmonary/ (1677)
- 293 pulmonary aspergillosis/ (930)
- 294 Myocardial Infarction/ (156702)
- 295 ("myocardial infarc*" or "heart attack*").ti,ab. (164029)
- 296 chest pain*.ti,ab. (25714)
- 297 Stroke/ (82236)
- 298 Ischemic attack, transient/ (19307)
- 299 (transient adj (ischaemic or ischemic)).ti,ab. (11605)
- 300 ((ischemic or ischaemic) adj heart).ti,ab. (32310)
- 301 heart diseases/ or arrhythmias, cardiac/ (121144)
- 302 (arrhythmia* or dysrhythmia*).ti,ab. (72494)
- 303 tachycardia/ or (tachycardi* or tachyarrhythmi*).ti,ab. (63237)
- 304 (irregular* adj3 (heartbeat* or "heart-beat*" or "heart beat*")).ti,ab. (127)
- 305 (heart adj3 (fast or palpitation*)).ti,ab. (488)
- 306 Heart Failure/ or "heart failure".ti,ab. (159345)
- 307 Myocarditis/ or myocarditis.ti,ab. (17306)
- 308 (inflam* adj3 (myocard* or heart)).ti,ab. (3395)
- 309 Myocardial Ischemia/ or "myocardial ischem*".ti,ab. (52127)
- 310 Atherosclerosis/ or atherosclero*.ti,ab. (127631)
- 311 angioedema/ or angioedema.ti,ab. (6743)
- 312 Neurotoxicity Syndromes/ or neurotoxic*.ti,ab. (43451)
- 313 neurological.ti,ab. (162255)
- 314 musculoskeletal diseases/ (11102)
- 315 myalgia/ or myalgia.ti,ab. (6211)
- 316 ((muscle or muscular) adj pain*).ti,ab. (3478)
- 317 headache/ or headache*.ti,ab. (73292)
- 318 dizziness/ or (dizzy or dizziness).ti,ab. (16024)
- 319 fatigue/ or (tiredness or fatigue*).ti,ab. (78887)
- 320 (drowsy or drowsiness or letharg*).ti,ab. (11302)
- 321 vision disorders/ (25309)
- 322 ((vision or visual or sight) adj1 (disturb* or disorder*)).ti,ab. (4935)
- 323 Hearing Loss/ or (hearing adj1 (loss or disturb*)).ti,ab. (42556)
- 324 ((poor or reduced or impaired) adj concentration).ti,ab. (1133)
- 325 confusion/ (4478)

- 326 Cognitive Dysfunction/ (7863)
- 327 nausea/ or vomiting/ (27995)
- 328 (nausea or vomit* or emesis).ti,ab. (74223)
- 329 sick building syndrome/ or ("sick building syndrome" or "sick house syndrome").ti,ab. (796)
- 330 chronic disease/ (246810)
- 331 Disease susceptibility/ (27178)
- 332 Symptom Assessment/ or (symptom* or manifestation*).ti,ab. (1014841)
- 333 or/232-332 (3078777)
- 334 Primary Health Care/ (66990)
- 335 community health nursing/ or home health nursing/ or parish nursing/ or home nursing/ (27465)
- 336 community health workers/ or nurses/ or nurse practitioners/ or nurses, community health/ or nurses, public health/ (57442)
- 337 ("health visitor*" or (social adj2 worker*)).ti,ab. (10355)
- 338 ((nurs* or matron* or healthcare assistant* or health care assistant* or practitioner*) adj4 (communit* or neighbour* or neighborhood* or home* or hous* or domicil* or district* or famil* or parish* or outreach* or visit*)).ti,ab. (55170)
- 339 (outreach adj4 (staff* or worker*)).ti,ab. (625)
- 340 or/334-339 (198065)
- 341 (serum adj3 (cholinesterase* or acetylcholinesterase* or pseudocholinesterase*)).ti,ab. (1837)
- 342 exp spirometry/ or spirometr*.ti,ab. (29291)
- 343 Forced Expiratory Volume/ (23334)
- 344 (fvc or fev or fev1 or fev2 or fev3).ti,ab. (27855)
- 345 exp diagnostic techniques, respiratory system/ or exp respiratory function tests/ or exp lung volume measurements/ (268459)
- 346 or/341-345 (278921)
- 347 (sensitiv: or diagnos:).mp. or di.fs. (4553134)
- 348 346 or 347 (4743822)
- 349 333 or 340 or 348 (6867257)
- 350 231 and 349 (10014)
- 351 risk:.mp. or exp cohort studies/ or between group:.tw. (3272652)
- 352 231 and 351 (6816)
- 353 350 or 352 (13095)
- 354 (indoor adj (environment or environments or exposure)).ti. (481)

Indoor air quality at home
Search Strategies

- 355 ((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)).ti. (3654)
- 356 ("indoor air pollut*" or "indoor air quality").ab. (1993)
- 357 (indoor adj (climate or climates)).ti,ab. (166)
- 358 *Air Pollution, Indoor/ (9093)
- 359 or/354-358 (11578)
- 360 indoor air.jn. (1053)
- 361 Air Pollution, Indoor/ (11775)
- 362 or/360-361 (12024)
- 363 randomized controlled trial.pt. (456338)
- 364 randomized controlled trial/ (456338)
- 365 controlled clinical trial.pt. (92257)
- 366 random allocation/ (93627)
- 367 Placebos/ (33832)
- 368 clinical trial, phase ii/ or clinical trial, phase iii/ (41454)
- 369 or/363-368 (648203)
- 370 Observational Study as Topic/ (2812)
- 371 Observational Study/ (45299)
- 372 Epidemiologic Studies/ (7641)
- 373 exp Case-Control Studies/ (904344)
- 374 exp Cohort Studies/ (1723417)
- 375 Cross-Sectional Studies/ (260504)
- 376 Controlled Before-After Studies/ (312)
- 377 Historically Controlled Study/ (133)
- 378 Interrupted Time Series Analysis/ (394)
- 379 Comparative Study.pt. (1793260)
- 380 case control\$.tw. (96700)
- 381 case series.tw. (47565)
- 382 (cohort adj (study or studies)).tw. (127383)
- 383 cohort analy\$.tw. (5210)
- 384 (follow up adj (study or studies)).tw. (41421)
- 385 (observational adj (study or studies)).tw. (64975)
- 386 longitudinal.tw. (170383)

Indoor air quality at home
Search Strategies

- 387 prospective.tw. (425241)
- 388 retrospective.tw. (356581)
- 389 cross sectional.tw. (223773)
- 390 or/370-389 (3897039)
- 391 Meta-Analysis.pt. (86293)
- 392 Meta-Analysis as Topic/ (16082)
- 393 Review.pt. (2227696)
- 394 exp Review Literature as Topic/ (9752)
- 395 (metaanaly* or metanaly* or (meta adj3 analy*)).tw. (101840)
- 396 (review* or overview*).ti. (349813)
- 397 (systematic* adj5 (review* or overview*)).tw. (100484)
- 398 ((quantitative* or qualitative*) adj5 (review* or overview*)).tw. (6593)
- 399 ((studies or trial*) adj2 (review* or overview*)).tw. (33044)
- 400 (integrat* adj3 (research or review* or literature)).tw. (7860)
- 401 (pool* adj2 (analy* or data)).tw. (20737)
- 402 (handsearch* or (hand adj3 search*)).tw. (7056)
- 403 (manual* adj3 search*).tw. (4300)
- 404 or/391-403 (2424626)
- 405 369 or 390 or 404 (6444286)
- 406 362 and 405 (3700)
- 407 359 or 406 (12471)
- 408 limit 407 to english language (11146)
- 409 limit 408 to yr="1970 -Current" (11106)
- 410 limit 409 to (case reports or clinical conference or comment or editorial or interview or letter or news or newspaper article) (753)
- 411 409 not 410 (10353)
- 412 limit 411 to ed=20180306-20180331 (38)
- 413 411 not 412 (10315)
- 414 353 not 413 (9513)

Database name: Embase

Strategy	
1	*air pollution/ (40006)
2	limit 1 to yr="1970 - 1991" (11859)
3	*air pollutant/ (14149)
4	indoor air pollution/ae [Adverse Drug Reaction] (1860)
5	("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti. (65516)
6	*carbon dioxide/ or *carbon monoxide/ or *nitrogen oxide/ or *nitrogen dioxide/ or *ozone/ (66849)
7	("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti. (7738)
8	((fine or ultrafine) adj (particulat* or particle*)).ti. (3029)
9	"PM 2.5".ti. (112)
10	"PM2.5".ti. (2687)
11	"PM(2.5)".ti. (112)
12	"PM 10".ti. (68)
13	"PM10".ti. (1610)
14	"PM(10)".ti. (68)
15	*particulate matter/ or *fly ash/ or *smoke/ or *soot/ (21233)
16	((coal or fly or fuel) adj3 (ash or ashes)).ti. (3059)
17	soot.ti. (1222)
18	*volatile organic compound/ (6945)
19	(VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti. (4679)
20	*benzene/ or *benzene derivative/ (13666)
21	*naphthalene/ or *tetrachloroethylene/ or *trichloroethylene/ or *formaldehyde/ (20700)
22	(benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti. (23028)
23	*polyvinylchloride/ or "polyvinyl chloride*".ti. (3099)
24	*diphenyl ether derivative/ (942)
25	("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE").ti. (4066)
26	*flame retardant/ (2011)

- 27 *plasticizer/ (1381)
- 28 (plasticiser* or plasticizer*).ti. (1048)
- 29 *phthalic acid dibutyl ester/ or *phthalic acid bis(2 ethylhexyl) ester"/ or (phthalate* or phthalate* or phthalate*).ti. (6117)
- 30 *styrene/ or styrene*.ti. (4531)
- 31 *polycyclic aromatic hydrocarbon/ or *benzo[a]pyrene derivative"/ (16615)
- 32 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*).ti. (9968)
- 33 *antiperspirant agent/ or *talc/ or *deodorant agent/ or *perfume/ (2957)
- 34 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti. (1749)
- 35 (limonene or pinene or carene).ti. (1317)
- 36 *fragrance/ (1669)
- 37 "air freshener*".ti. (30)
- 38 (candle or candles).ti. (308)
- 39 *aerosol/ae [Adverse Drug Reaction] (171)
- 40 *toluene/ or toluene.ti. (7555)
- 41 *solvent/ or solvent*.ti. (31374)
- 42 40 or 41 (38266)
- 43 *drug dependence/ or *inhalant abuse/ or *substance abuse/ (45968)
- 44 ("glue sniff*" or "glue-sniff*" or "solvent abuse*" or "solvent-abuse*").ti,ab. (504)
- 45 43 or 44 (46371)
- 46 42 not 45 (37779)
- 47 or/2-39 (228647)
- 48 46 or 47 (262264)
- 49 *bacterium/ or *fungus/ or *Stachybotrys/ or *microbiology/ (116047)
- 50 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti. (290130)
- 51 *bacterial spore/ or *fungus spore/ (6400)
- 52 *endotoxin/ (18701)
- 53 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti. (21647)
- 54 "moisture damage*".ti. (58)

- 55 *humidity/ (3789)
56 or/49-55 (401430)
57 (dust or dusty or dustmite*).ti. or *dust/ (21287)
58 exp *Pyroglyphidae/ (3025)
59 (Dermatophagoid* or pyroglyphid*).ti. (1429)
60 (Cimex adj (lectularius or hemipterus)).ti. (244)
61 *Cimex/ or (bedbug* or "bed bug").ti. (595)
62 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti. (468)
63 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people*)).ti. (190)
64 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti. (461)
65 ((avian or bird*) adj3 feather*).ti. (188)
66 *dander/ or dander.ti. (248)
67 or/57-66 (24930)
68 *heating/ or *cooking/ (8014)
69 *fossil fuel/ or *coal/ or *natural gas/ or *wood/ (11191)
70 *butane/ or *propane/ or (butane or propane).ti. (2888)
71 ("lpg" or "liquid petroleum").ti. not "lipophosphoglycan".ti,ab. (130)
72 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or burner* or boiler* or furnace* or appliance*)).ti. (1454)
73 or/68-72 (23071)
74 *paint/ (2129)
75 *adhesive agent/ (3717)
76 exp *lead poisoning/ (9391)
77 *dichloromethane/ (1557)
78 (dichloromethane or "methylene chloride").ti. (1065)
79 exp *domestic chemical/ (4553)
80 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering").ti. (959)
81 *building/ or *building material/ (4383)
82 *furniture/ (2167)
83 or/74-82 (28626)

- 84 48 or 56 or 67 or 73 or 83 (722484)
- 85 housing/ (20855)
- 86 exp residential home/ (6720)
- 87 exp nursing home/ (49206)
- 88 home for the aged/ (11588)
- 89 (indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab. (649129)
- 90 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*").ti,ab. (826)
- 91 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters).ti,ab. (14533)
- 92 flats.ti,ab. (1199)
- 93 (garage* and (integral or integrated or attach*)).ti,ab. (74)
- 94 (caravan* or "mobile home*").ti,ab. (266)
- 95 (boat or boats).ti. (750)
- 96 or/85-95 (687881)
- 97 (bedroom* or "bed room*").ti,ab. (2911)
- 98 (dormitory or dormitories).ti,ab. (726)
- 99 ("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab. (1317)
- 100 (hall or halls or hallway* or stairwell*).ti,ab. (8229)
- 101 (kitchen* or "dining room*" or dining-room* or diningroom*).ti,ab. (5639)
- 102 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab. (1959)
- 103 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti,ab. (138)
- 104 "utility room*").ti,ab. (31)
- 105 or/97-104 (19515)
- 106 96 or 105 (701488)
- 107 animal housing/ (8920)
- 108 livestock/ or bovine/ or pig/ or minipig/ (52189)
- 109 exp goat/ or exp sheep/ (129727)
- 110 (pig or pigs or goat or goats or sheep or cow or cows).ti,ab. (381731)

- 111 or/107-110 (469985)
- 112 106 not 111 (681227)
- 113 84 and 112 (32044)
- 114 air pollution/ (59848)
- 115 limit 114 to yr="1970 - 1991" (13845)
- 116 air pollutant/ (28445)
- 117 indoor air pollution/ae [Adverse Drug Reaction] (1860)
- 118 ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti,ab. (219604)
- 119 carbon monoxide/ or carbon dioxide/ or nitrogen oxide/ or nitrogen dioxide/ or ozone/ (158825)
- 120 ("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti,ab. (27257)
- 121 ((fine or ultrafine) adj (particulat* or particle*)).ti,ab. (10980)
- 122 "PM 2.5".ti,ab. (1137)
- 123 "PM2.5".ti,ab. (10522)
- 124 "PM(2.5)".ti,ab. (1137)
- 125 "PM 10".ti,ab. (1135)
- 126 "PM10".ti,ab. (8250)
- 127 "PM(10)".ti,ab. (1135)
- 128 particulate matter/ or fly ash/ or smoke/ or soot/ (52383)
- 129 ((coal or fly or fuel) adj3 (ash or ashes)).ti,ab. (5712)
- 130 soot.ti,ab. (3536)
- 131 volatile organic compound/ (14440)
- 132 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti,ab. (13368)
- 133 benzene/ or benzene derivative/ (32906)
- 134 naphthalene/ or tetrachloroethylene/ or trichloroethylene/ or formaldehyde/ (68704)
- 135 (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti,ab. (77647)
- 136 polyvinylchloride/ or "polyvinyl chloride*".ti,ab. (8902)
- 137 diphenyl ether derivative/ (1611)
- 138 ("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE").ti,ab. (7846)

- 139 flame retardant/ (3514)
- 140 plasticizer/ (4313)
- 141 (plasticiser* or plasticizer*).ti,ab. (5308)
- 142 phthalic acid dibutyl ester/ or "phthalic acid bis(2 ethylhexyl) ester"/ or (phthalate* or pthalate* or phtalate*).ti,ab. (12149)
- 143 styrene/ or styrene*.ti,ab. (13305)
- 144 polycyclic aromatic hydrocarbon/ or "benzo[a]pyrene derivative"/ (28967)
- 145 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*).ti,ab. (23879)
- 146 antiperspirant agent/ or talc/ or deodorant agent/ or perfume/ (7370)
- 147 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab. (4548)
- 148 (limonene or pinene or carene).ti,ab. (7560)
- 149 fragrance/ (4310)
- 150 "air freshener*".ti,ab. (164)
- 151 (candle or candles).ti,ab. (1100)
- 152 aerosol/ae [Adverse Drug Reaction] (303)
- 153 toluene/ or toluene.ti,ab. (27720)
- 154 solvent/ or solvent*.ti,ab. (179749)
- 155 153 or 154 (201189)
- 156 drug dependence/ or inhalant abuse/ or substance abuse/ (93383)
- 157 ("glue sniff*" or "glue-sniff*" or "solvent abuse*" or "solvent-abuse*").ti,ab. (504)
- 158 156 or 157 (93767)
- 159 155 not 158 (200176)
- 160 or/115-152 (585421)
- 161 159 or 160 (756764)
- 162 bacterium/ or fungus/ or Stachybotrys/ or microbiology/ (437888)
- 163 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti,ab. (971529)
- 164 bacterial spore/ or fungus spore/ (21502)
- 165 endotoxin/ (35911)
- 166 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti,ab. (127398)

- 167 "moisture damage*".ti,ab. (164)
- 168 humidity/ (29150)
- 169 or/162-168 (1371047)
- 170 (dust or dusty or dustmite*).ti,ab. or dust/ (53562)
- 171 exp Pyroglyphidae/ (10236)
- 172 (Dermatophagoid* or pyroglyphid*).ti,ab. (5461)
- 173 (Cimex adj (lectularius or hemipterus)).ti,ab. (393)
- 174 Cimex/ or (bedbug* or "bed bug*").ti,ab. (843)
- 175 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti,ab. (2430)
- 176 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people*)).ti,ab. (8968)
- 177 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti,ab. (2161)
- 178 ((avian or bird*) adj3 feather*).ti,ab. (678)
- 179 dander/ or dander.ti,ab. (1969)
- 180 or/170-179 (72963)
- 181 heating/ or cooking/ (40004)
- 182 fossil fuel/ or coal/ or natural gas/ or wood/ (25552)
- 183 butanes/ or propane/ or (butane or propane).ti,ab. (11776)
- 184 ((lpg or "liquid petroleum") not "lipophosphoglycan").ti,ab. (1079)
- 185 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or burner* or boiler* or furnace* or appliance*)).ti,ab. (8690)
- 186 or/181-185 (82430)
- 187 paint/ (5229)
- 188 adhesive agent/ (11093)
- 189 exp lead poisoning/ (12293)
- 190 dichloromethane/ (11163)
- 191 (dichloromethane or "methylene chloride").ti,ab. (14114)
- 192 exp domestic chemical/ (17390)
- 193 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*").ti,ab. (3694)
- 194 building/ or building material/ (11430)

- 195 furniture/ (4376)
- 196 or/187-195 (80779)
- 197 161 or 169 or 180 or 186 or 196 (2233647)
- 198 *housing/ (7678)
- 199 exp *residential home/ (2719)
- 200 exp *nursing home/ (24314)
- 201 *home for the aged/ (5970)
- 202 (indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti. (166338)
- 203 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*").ti. (307)
- 204 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters).ti. (3794)
- 205 flats.ti. (236)
- 206 (garage* and (integral or integrated or attach*)).ti. (10)
- 207 (caravan* or "mobile home*").ti. (70)
- 208 (boat or boats).ti. (750)
- 209 or/198-208 (186212)
- 210 (bedroom* or "bed room*").ti. (228)
- 211 (dormitory or dormitories).ti. (123)
- 212 ("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti. (124)
- 213 (hall or halls or hallway* or stairwell*).ti. (1972)
- 214 (kitchen* or "dining room*" or dining-room* or diningroom*).ti. (1298)
- 215 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti. (199)
- 216 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti. (30)
- 217 "utility room*").ti. (4)
- 218 or/210-217 (3965)
- 219 209 or 218 (189834)
- 220 animal housing/ (8920)
- 221 livestock/ or bovine/ or pig/ or minipig/ (52189)
- 222 exp goat/ or exp sheep/ (129727)

- 223 (pig or pigs or goat or goats or sheep or cow or cows).ti,ab. (381731)
- 224 or/220-223 (469985)
- 225 219 not 224 (184772)
- 226 197 and 225 (22674)
- 227 113 or 226 (40755)
- 228 limit 227 to english language (36229)
- 229 limit 228 to yr="1970 -Current" (35899)
- 230 limit 229 to (conference abstract or conference paper or "conference review" or editorial or letter) (5458)
- 231 229 not 230 (30441)
- 232 maternal exposure/ (1110)
- 233 fetus development/ (17120)
- 234 pregnancy outcome/ (47640)
- 235 prematurity/ (92775)
- 236 birth weight/ (62639)
- 237 low birth weight/ (31742)
- 238 spontaneous abortion/ (37476)
- 239 fetus death/ (23724)
- 240 stillbirth/ (14640)
- 241 perinatal mortality/ (11956)
- 242 prenatal exposure/ (21392)
- 243 allergen/ (51346)
- 244 (allergen* or allergic* or aeroallergen*).ti,ab. (181819)
- 245 (atopy or atopic).ti,ab. (58026)
- 246 exp immediate type hypersensitivity/ or hypersensitivity/ (354949)
- 247 respiratory tract allergy/ (9906)
- 248 allergic conjunctivitis/ or conjunctivitis/ or conjunctivitis.ti,ab. (24759)
- 249 retina hemorrhage/ (7449)
- 250 (eye* adj3 (red* or inflam* or itch* or water*)).ti,ab. (10233)
- 251 lung alveolitis/ or alveolitis.ti,ab. (5956)
- 252 "Hypersensitivity pneumonitis".ti,ab. (3208)
- 253 perennial rhinitis/ or allergic rhinitis/ (29153)

- 254 rhinitis/ or rhinitis.ti,ab. (45118)
- 255 (rhinoconjunctivitis or rhino-conjunctivitis or "rhino conjunctivitis").ti,ab. (3929)
- 256 eosinophilic esophagitis/ (4786)
- 257 ((eosinophilic or allergic) adj1 (esophagitis or oesophagitis)).ti,ab. (4337)
- 258 urticaria/ or urticaria.ti,ab. (39476)
- 259 eczema/ or eczema*.ti,ab. (35494)
- 260 atopic dermatitis/ or contact dermatitis/ or skin allergy/ (69948)
- 261 dermatitis/ or dermatitis.ti,ab. (85042)
- 262 (skin adj3 (rash or rashes)).ti,ab. (10188)
- 263 rash/ or exanthem*.ti,ab. (87900)
- 264 psoriasis/ or (psoriasis or psoriatic).ti,ab. (75987)
- 265 exposure/ (170228)
- 266 respiratory tract disease/ or respiratory tract infection/ (107858)
- 267 ((acute or chronic or upper or lower) adj1 respiratory).ti,ab. (89124)
- 268 bronchitis/ or exp bronchiolitis/ (47001)
- 269 (bronchiolit* or bronchit* or wheez*).ti,ab. (57663)
- 270 bronchoconstriction/ or (bronchoconstriction* or "bronchial spasm").ti,ab. (9988)
- 271 (short* adj3 breath*).ti,ab. (15074)
- 272 dyspnea/ or dyspnea.ti,ab. (151041)
- 273 coughing/ or cough*.ti,ab. (112683)
- 274 (phlegm or sputum or mucus).ti,ab. (72328)
- 275 (catarrh or catarrhal).ti,ab. (1928)
- 276 ((nasal or sinus) adj3 congest*).ti,ab. (3461)
- 277 ((runny or stuffy or blocked) adj3 nose*).ti,ab. (1367)
- 278 sneezing/ or sneeze*.ti,ab. (5945)
- 279 ((nose or nasal) adj3 (bleed or bleeding)).ti,ab. (1481)
- 280 epistaxis/ or epistaxis.ti,ab. (20536)
- 281 pharyngitis/ or rhinopharyngitis/ (24738)
- 282 (pharyngitis or nasopharyngitis or "sore throat").ti,ab. (14836)
- 283 sinusitis/ or sinusitis.ti,ab. (31079)
- 284 respiratory syncytial virus infection/ (3794)

- 285 "respiratory syncytial virus".ti,ab. (14148)
- 286 ((lung or pulmonary or respiratory or chest) adj2 (inflamm* or infect*)).ti,ab. (103747)
- 287 asthma/ or asthma*.ti,ab. (254942)
- 288 chronic obstructive lung disease/ (107869)
- 289 ("COPD" or "chronic obstructive pulmonary").ti,ab. (89634)
- 290 aspergillosis/ (14583)
- 291 aspergillosis.ti,ab. (15611)
- 292 allergic bronchopulmonary aspergillosis/ (1337)
- 293 lung aspergillosis/ (6256)
- 294 heart infarction/ (254206)
- 295 ("myocardial infarc*" or "heart attack*").ti,ab. (254112)
- 296 chest pain*.ti,ab. (48764)
- 297 cerebrovascular accident/ (161776)
- 298 transient ischemic attack/ (33620)
- 299 (transient adj (ischaemic or ischemic)).ti,ab. (19530)
- 300 ((ischemic or ischaemic) adj heart).ti,ab. (48982)
- 301 heart disease/ or heart arrhythmia/ (214959)
- 302 (arrhythmia* or dysrhythmia*).ti,ab. (115141)
- 303 tachycardia/ or (tachycardi* or tachyarrhythmi*).ti,ab. (125010)
- 304 (irregular* adj3 (heartbeat* or "heart-beat*" or "heart beat*")).ti,ab. (232)
- 305 (heart adj3 (fast or palpitation*)).ti,ab. (881)
- 306 heart failure/ or "heart failure".ti,ab. (295463)
- 307 myocarditis/ or myocarditis.ti,ab. (26443)
- 308 (inflam* adj3 (myocard* or heart)).ti,ab. (6135)
- 309 heart muscle ischemia/ or "myocardial ischem*".ti,ab. (98903)
- 310 atherosclerosis/ or atherosclero*.ti,ab. (226740)
- 311 angioneurotic edema/ or angioedema.ti,ab. (19318)
- 312 "toxicity and intoxication"/ or neurotoxic*.ti,ab. (58778)
- 313 neurological.ti,ab. (274433)
- 314 musculoskeletal disease/ (24528)
- 315 myalgia/ or myalgia.ti,ab. (47495)

- 316 ((muscle or muscular) adj pain*).ti,ab. (5676)
- 317 headache/ or headache*.ti,ab. (225842)
- 318 dizziness/ or (dizzy or dizziness).ti,ab. (74060)
- 319 fatigue/ or (tiredness or fatigue*).ti,ab. (214450)
- 320 (drowsy or drowsiness or letharg*).ti,ab. (19427)
- 321 visual disorder/ (27814)
- 322 ((vision or visual or sight) adj1 (disturb* or disorder*)).ti,ab. (8142)
- 323 hearing impairment/ or (hearing adj1 (loss or disturb*)).ti,ab. (86240)
- 324 ((poor or reduced or impaired) adj concentration).ti,ab. (1808)
- 325 confusion/ (26908)
- 326 cognitive defect/ (139468)
- 327 nausea/ or vomiting/ (262097)
- 328 (nausea or vomit* or emesis).ti,ab. (136900)
- 329 sick building syndrome/ or ("sick building syndrome" or "sick house syndrome").ti,ab. (1184)
- 330 chronic disease/ (178309)
- 331 disease predisposition/ (84244)
- 332 symptom assessment/ or (symptom* or manifestation*).ti,ab. (1654845)
- 333 or/232-332 (5215777)
- 334 primary health care/ (57750)
- 335 community health nursing/ or parish nursing/ or home care/ (77479)
- 336 health auxiliary/ or nurse/ or nurse practitioner/ (130277)
- 337 ("health visitor*" or (social adj2 worker*)).ti,ab. (16263)
- 338 ((nurs* or matron* or healthcare assistant* or health care assistant* or practitioner*) adj4 (communit* or neighbour* or neighborhood* or home* or hous* or domicil* or district* or famil* or parish* or outreach* or visit*)).ti,ab. (73513)
- 339 (outreach adj4 (staff* or worker*)).ti,ab. (850)
- 340 or/334-339 (319022)
- 341 (serum adj3 (cholinesterase* or acetylcholinesterase* or pseudocholinesterase*)).ti,ab. (2087)
- 342 exp spirometry/ or spirometr*.ti,ab. (46167)
- 343 forced expiratory volume/ (56588)
- 344 (fvc or fev or fev1 or fev2 or fev3).ti,ab. (56805)

- 345 exp lung function test/ or exp lung volume/ (236314)
346 or/341-345 (257510)
347 (sensitiv: or diagnos:).mp. or di.fs. (7079663)
348 346 or 347 (7251894)
349 333 or 340 or 348 (10761193)
350 231 and 349 (11398)
351 risk:.mp. or exp cohort studies/ or between group:.tw. (3580254)
352 231 and 351 (6371)
353 350 or 352 (14582)
354 (indoor adj (environment or environments or exposure)).ti. (770)
355 ((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)).ti. (5895)
356 ("indoor air pollut*" or "indoor air quality").ab. (3158)
357 (indoor adj (climate or climates)).ti,ab. (241)
358 *indoor air pollution/ (8121)
359 or/354-358 (14030)
360 indoor air.jn. (924)
361 indoor air pollution/ (12353)
362 360 or 361 (12593)
363 exp Clinical Trial/ (1309554)
364 Randomization/ (77459)
365 Placebo/ (322563)
366 Double Blind Procedure/ (148169)
367 Single Blind Procedure/ (30856)
368 Crossover Procedure/ (54934)
369 ((random\$ or control\$ or clinical\$) adj3 (trial\$ or stud\$)).tw. (1448157)
370 (random\$ adj3 allocat\$).tw. (37499)
371 placebo\$.tw. (271466)
372 ((singl\$ or doubl\$ or trebl\$ or tripl\$) adj (blind\$ or mask\$)).tw. (211682)
373 (crossover\$ or (cross adj over\$)).tw. (93166)
374 or/363-373 (2477895)
375 Clinical study/ (154139)

- 376 Case control study/ (123825)
- 377 Family study/ (25427)
- 378 Longitudinal study/ (110393)
- 379 Retrospective study/ (629968)
- 380 comparative study/ (778272)
- 381 Prospective study/ (436283)
- 382 Randomized controlled trials/ (142666)
- 383 381 not 382 (431864)
- 384 Cohort analysis/ (357989)
- 385 cohort analy\$.tw. (9427)
- 386 (Cohort adj (study or studies)).tw. (216329)
- 387 (Case control\$ adj (study or studies)).tw. (114302)
- 388 (follow up adj (study or studies)).tw. (57635)
- 389 (observational adj (study or studies)).tw. (122468)
- 390 (epidemiologic\$ adj (study or studies)).tw. (96031)
- 391 (cross sectional adj (study or studies)).tw. (158281)
- 392 case series.tw. (78737)
- 393 prospective.tw. (706992)
- 394 retrospective.tw. (673797)
- 395 or/375-380,383-394 (3254920)
- 396 Systematic Review/ (163666)
- 397 Meta Analysis/ (141531)
- 398 Review/ (2291732)
- 399 Review.pt. (2352531)
- 400 (metaanaly\$ or metanaly\$ or (meta adj3 analy\$)).tw. (165864)
- 401 (review\$ or overview\$).ti. (496699)
- 402 (systematic\$ adj5 (review\$ or overview\$)).tw. (161216)
- 403 ((quantitative\$ or qualitative\$) adj5 (review\$ or overview\$)).tw. (9906)
- 404 ((studies or trial\$) adj2 (review\$ or overview\$)).tw. (47445)
- 405 (integrat\$ adj3 (research or review\$ or literature)).tw. (11166)
- 406 (pool\$ adj2 (analy\$ or data)).tw. (36130)
- 407 (handsearch\$ or (hand adj3 search\$)).tw. (10016)

408	(manual\$ adj3 search\$.tw. (6281)
409	or/396-408 (2895652)
410	nonhuman/ not human/ (4121857)
411	409 not 410 (2748440)
412	374 or 395 or 411 (7162862)
413	362 and 412 (3128)
414	359 or 413 (15137)
415	limit 414 to english language (12775)
416	limit 415 to yr="1970 -Current" (12723)
417	limit 416 to (conference abstract or conference paper or "conference review" or editorial or letter) (1667)
418	416 not 417 (11056)
419	limit 418 to dc=20180306-20180403 (40)
420	418 not 419 (11016)
421	353 not 420 (11561)
422	419 or 421 (11585)

Database name: HMIC

The search for HMIC is a core search set of pollutants and domestic settings, minus the broad set.

Strategy	
Database: HMIC Health Management Information Consortium <1979 to January 2018>	
Search Strategy: Indoor air quality Core HMIC 20180329 not BS	

1	air pollution/ or air quality/ (634)
2	("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti,ab. (503)
3	carbon dioxide/ or carbon monoxide/ or nitrogen oxides/ or nitrogen dioxide/ or ozone/ (216)
4	("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti,ab. (134)

- 5 ((fine or ultrafine) adj (particulat* or particle*)),ti,ab,sh. (43)
- 6 ("PM 2.5" or "PM2.5" or "PM(2.5)").ti,ab. (47)
- 7 ("PM 10" or "PM10" or "PM(10)").ti,ab. (42)
- 8 particulate matter/ or coal ash/ or smoke/ or soot/ (30)
- 9 ((coal or fly or fuel) adj3 (ash or ashes)).ti,ab. (7)
- 10 soot.ti,ab. (13)
- 11 Volatile Organic Compounds/ (0)
- 12 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti,ab,sh. (21)
- 13 Benzene Derivatives/ or Benzene/ (77)
- 14 Naphthalenes/ or tetrachloroethylene/ or trichloroethylene/ or formaldehyde/ (196)
- 15 (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti,ab. (350)
- 16 polyvinyl chloride/ or "polyvinyl chloride*".ti,ab. (56)
- 17 ("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE").ti,ab. (46)
- 18 flame retardants/ (10)
- 19 (plasticiser* or plasticizer*).ti,ab. (8)
- 20 (phthalate* or pthalate* or phtalate*).ti,ab,sh. (29)
- 21 Styrene/ or styrene*.ti,ab. (60)
- 22 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzoapyrene* or benzoapyrene*).ti,ab. (64)
- 23 antiperspirants/ or talc/ or deodorants/ or perfume/ (23)
- 24 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab. (29)
- 25 (limonene or pinene or carene).ti,ab. (3)
- 26 (odorant* or odourant*).ti,ab. (0)
- 27 "air freshener*".ti,ab. (3)
- 28 (candle or candles).ti,ab. (6)
- 29 aerosols/ (35)
- 30 toluene/ or toluene.ti,ab. (111)
- 31 solvents/ or solvent.ti,ab. (398)
- 32 or/1-31 (2251)
- 33 Bacteria/ or fungi/ or stachybotrys/ or air microbiology/ (248)
- 34 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti,ab. (1027)
- 35 spores/ or spores, bacterial/ or spores, fungal/ (15)

- 36 Endotoxins/ (22)
- 37 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti,ab. (401)
- 38 "moisture damage*".ti,ab. (0)
- 39 humidity/ (4)
- 40 or/33-39 (1523)
- 41 (dust or dusty or dustmite* or pyroglyphid* or dermatophagoid*).ti,ab,sh. (726)
- 42 (Cimex adj (lectularius or hemipterus)).ti,ab. (2)
- 43 (bedbug* or "bed bug").ti,ab,sh. (8)
- 44 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti,ab. (6)
- 45 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people*)).ti,ab. (3)
- 46 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti,ab. (0)
- 47 ((avian or bird*) adj3 feather*).ti,ab. (2)
- 48 dander.ti,ab,sh. (1)
- 49 or/41-48 (745)
- 50 heating/ or cooking/ (85)
- 51 fossil fuels/ or coal/ or natural gas/ or wood/ (98)
- 52 (butane or propane).ti,ab,sh. (8)
- 53 ("lpg" or "liquid petroleum") not "lipophosphoglycan").ti,ab. (13)
- 54 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or burner* or boiler* or furnace* or appliance*)).ti,ab. (169)
- 55 or/50-54 (360)
- 56 paint.ti,ab,sh. (95)
- 57 adhesives.ti,ab,sh. (33)
- 58 "lead poisoning".ti,ab,sh. (31)
- 59 (dichloromethane or "methylene chloride").ti,ab,sh. (29)
- 60 household products.ti,ab,sh. (6)
- 61 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering").ti,ab,sh. (81)
- 62 exp flooring/ (61)
- 63 exp furnishings/ (60)
- 64 or/56-63 (342)
- 65 32 or 40 or 49 or 55 or 64 (4867)

- 66 residential accommodation/ or accommodation/ or bed & breakfast accommodation/
or care homes/ (1747)
- 67 exp nursing homes/ or care homes/ or residential care/ (6402)
- 68 exp sheltered housing/ (337)
- 69 exp public housing/ (134)
- 70 (indoor* or home or homes or house or houses or housing or household* or
residential or residence* or dwelling* or domicil* or domestic or accommodation or
habitation or lodging*).ti,ab,sh. (33949)
- 71 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi
stor*").ti,ab,sh. (58)
- 72 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter
or shelters).ti,ab,sh. (2965)
- 73 exp High rise flats/ (5)
- 74 "flats".ti,ab,sh. (105)
- 75 garage.mp. (19)
- 76 (caravan* or "mobile home*").ti,ab,sh. (43)
- 77 (boat or boats).ti,ab,sh. (40)
- 78 or/66-77 (35824)
- 79 (bedroom* or "bed room*").ti,ab,sh. (129)
- 80 (dormitory or dormitories).ti,ab,sh. (9)
- 81 ("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom*
or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living
room*" or "living-room*" or lounge).ti,ab,sh. (49)
- 82 (hall or halls or hallway* or stairwell*).ti,ab,sh. (310)
- 83 (kitchen* or "dining room*" or dining-room* or diningroom*).ti,ab,sh. (296)
- 84 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab,sh. (103)
- 85 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash
room*").ti,ab,sh. (9)
- 86 "utility room*".ti,ab,sh. (1)
- 87 or/79-86 (844)
- 88 78 or 87 (36376)
- 89 88 and 65 (563)
- 90 (indoor adj (environment or environments or exposure)).ti,ab,sh. (34)
- 91 ((indoor* or home or homes or house or houses or housing or household or
residential or residence* or dwelling* or domicil* or domestic or accommodation or
habitation or lodging*) and (air* or aero* or pollut*)).ti,ab,sh. (473)
- 92 ("indoor air pollut*" or "indoor air quality").ti,ab,sh. (80)
- 93 (indoor adj (climate or climates)).ti,ab,sh. (5)

Indoor air quality at home
Search Strategies

94 or/90-93 (493)

95 89 not 94 (359)

Database name: Social Policy & Practice

The search for SPP is a core search set of pollutants and domestic settings, minus the broad set.

Strategy
Database: Social Policy and Practice <201801>
Search Strategy: Indoor air quality Core SPP 20180328

1 air pollution.ti,ab,sh. (1015)
2 air pollutants.ti,ab,sh. (74)
3 ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti,ab,sh. (574)
4 ("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti,ab,sh. (182)
5 ((fine or ultrafine) adj (particulat* or particle*)).ti,ab,sh. (28)
6 ("PM 2.5" or "PM2.5" or "PM(2.5)").ti,ab,sh. (54)
7 ("PM 10" or "PM10" or "PM(10)").ti,ab,sh. (88)
8 ((coal or fly or fuel) adj3 (ash or ashes)).ti,ab. (3)
9 (smoke or soot).ti,ab,sh. (338)
10 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti,ab,sh. (57)
11 (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti,ab,sh. (59)
12 "polyvinyl chloride*".ti,ab,sh. (5)
13 ("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE").ti,ab,sh. (9)
14 (plasticiser* or plasticizer*).ti,ab,sh. (2)
15 (phthalate* or pthalate* or phtalate*).ti,ab,sh. (15)
16 styrene.ti,ab,sh. (0)
17 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*).ti,ab,sh. (21)
18 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab,sh. (2)
19 (limonene or pinene or carene).ti,ab,sh. (0)
20 (odorant* or odourant*).ti,ab,sh. (0)
21 "air freshener*".ti,ab,sh. (1)
22 (candle or candles).ti,ab,sh. (22)
23 aerosols.ti,ab,sh. (10)

- 24 toluene.ti,ab,sh. (8)
- 25 (solvent or solvents).ti,ab,sh. (98)
- 26 or/1-25 (1818)
- 27 (stachybotrys or "air microbiology").ti,ab,sh. (0)
- 28 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti,ab,sh. (99)
- 29 endotoxin*.ti,ab,sh. (11)
- 30 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti,ab,sh. (418)
- 31 "moisture damage*".ti,ab,sh. (0)
- 32 or/27-31 (508)
- 33 (dust or dusty or dustmite* or pyroglyphid* or dermatophagoid*).ti,ab,sh. (111)
- 34 (Cimex adj (lectularius or hemipterus)).ti,ab. (0)
- 35 (bedbug* or "bed bug").ti,ab,sh. (1)
- 36 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti,ab. (15)
- 37 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people*)).ti,ab. (0)
- 38 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti,ab. (2)
- 39 ((avian or bird*) adj3 feather*).ti,ab. (7)
- 40 dander.ti,ab,sh. (0)
- 41 or/33-40 (135)
- 42 (heating or cooking).sh. (520)
- 43 (fossil fuels or coal or natural gas or wood).sh. (75)
- 44 (butane or propane).ti,ab,sh. (6)
- 45 (("lpg" or "liquid petroleum") not "lipophosphoglycan").ti,ab. (8)
- 46 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or burner* or boiler* or furnace* or appliance*)).ti,ab. (94)
- 47 or/42-46 (672)
- 48 paint.ti,ab,sh. (67)
- 49 adhesives.ti,ab,sh. (0)
- 50 "lead poisoning".ti,ab,sh. (19)
- 51 (dichloromethane or "methylene chloride").ti,ab,sh. (1)
- 52 household products.ti,ab,sh. (6)
- 53 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering").ti,ab,sh. (59)

- 54 floor*.sh. (268)
- 55 furnishings.ti,ab,sh. (36)
- 56 or/48-55 (446)
- 57 26 or 32 or 41 or 47 or 56 (3284)
- 58 (indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab,sh. (92757)
- 59 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*").ti,ab,sh. (456)
- 60 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters).ti,ab,sh. (11045)
- 61 "flats".ti,ab,sh. (849)
- 62 (garage* and (integral or integrated or attach*)).ti,ab. (2)
- 63 (caravan* or "mobile home*").ti,ab,sh. (199)
- 64 (boat or boats).ti,ab,sh. (59)
- 65 or/58-64 (94595)
- 66 (bedroom* or "bed room*").ti,ab,sh. (258)
- 67 (dormitory or dormitories).ti,ab,sh. (8)
- 68 ("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab,sh. (47)
- 69 (hall or halls or hallway* or stairwell*).ti,ab,sh. (376)
- 70 (kitchen* or "dining room*" or dining-room* or diningroom*).ti,ab,sh. (228)
- 71 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab,sh. (110)
- 72 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti,ab,sh. (3)
- 73 "utility room*".ti,ab,sh. (0)
- 74 or/66-73 (909)
- 75 65 or 74 (94906)
- 76 57 and 75 (1557)
- 77 (indoor adj (environment or environments or exposure)).ti,ab,sh. (34)
- 78 ((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)).ti,ab,sh. (1093)
- 79 ("indoor air pollut*" or "indoor air quality").ti,ab,sh. (106)
- 80 (indoor adj (climate or climates)).ti,ab,sh. (0)
- 81 or/77-80 (1116)

Indoor air quality at home
Search Strategies

82 76 not 81 (1130)

Database name: Cochrane CDSR; Central; DARE; HTA; NHS EED

The search for Cochrane CDSR, Central, DARE, HTA, and NHS EED is a core search set of pollutants and domestic settings, minus the broad set.

Strategy		
#1	[mh ^"air pollution"]	81
#2	[mh ^"air pollutants"]	229
#3	[mh ^"Air Pollution, Indoor"/AE]	79
#4	("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2):ti,ab	7132
#5	[mh ^"carbon dioxide"]	2703
#6	[mh ^"carbon monoxide"]	460
#7	[mh ^"nitrogen oxides"]	20
#8	[mh ^"nitrogen dioxide"]	65
#9	[mh ^ozone]	282
#10	("particulate matter*" or "particulate emission*" or particulates or "pm emission*"):ti,ab	245
#11	((fine or ultrafine) near (particulat* or particle*)):ti,ab	244
#12	("PM 2.5" or "PM2.5" or "PM(2.5)") :ti,ab	100
#13	("PM 10" or "PM10" or "PM(10)") :ti,ab	63
#14	[mh ^"particulate matter"]	110
#15	[mh ^"coal ash"]	0
#16	[mh ^smoke]	95
#17	[mh ^soot]	3
#18	((coal or fly or fuel) near/3 (ash or ashes)):ti,ab	3
#19	soot:ti,ab	3
#20	[mh ^"Volatile Organic Compounds"]	42
#21	(VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*"):ti,ab	127
#22	[mh ^"Benzene Derivatives"]	39
#23	[mh ^Benzene]	7
#24	[mh ^Naphthalenes]	690
#25	[mh ^tetrachloroethylene]	12
#26	[mh ^trichloroethylene]	30

#27	[mh ^formaldehyde]	133
#28	(benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*):ti,ab	310
#29	[mh ^"polyvinyl chloride"]	52
#30	"polyvinyl chloride":ti,ab	99
#31	[mh ^"halogenated diphenyl ethers"]	4
#32	("flame retard*" or "fire resist*" or "diphenyl ether*" or "PBDE"):ti,ab	11
#33	[mh ^"Flame Retardants"]	3
#34	[mh ^Plasticizers]	15
#35	(plasticiser* or plasticizer*):ti,ab	34
#36	[mh ^"dibutyl phthalate"]	3
#37	[mh ^"diethylhexyl phthalate"]	10
#38	(phthalate* or pthalate* or phtalate*):ti,ab	63
#39	[mh ^Styrene]	3
#40	styrene*:ti,ab	28
#41	[mh ^"polycyclic aromatic hydrocarbons"]	16
#42	[mh benzopyrenes]	10
#43	("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*):ti,ab	65
#44	[mh ^antiperspirants]	7
#45	[mh ^talc]	61
#46	[mh ^deodorants]	10
#47	[mh ^perfume]	29
#48	(anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*):ti,ab	208
#49	(limonene or pinene or carene):ti,ab	45
#50	[mh ^Odorants]	235
#51	"air freshener":ti,ab	5
#52	(candle or candles):ti,ab	32
#53	[mh ^aerosols/AE]	25
#54	[mh ^toluene]	47
#55	toluene:ti,ab	77

Indoor air quality at home
Search Strategies

#56	[mh ^solvents]	245
#57	solvent*:ti,ab	637
#58	{or #1-#57}	11983
#59	[mh ^Bacteria]	1578
#60	[mh ^fungi]	122
#61	[mh ^stachybotrys]	0
#62	[mh ^"air microbiology"]	70
#63	(biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*):ti,ab	17494
#64	[mh ^spores]	1
#65	[mh ^"spores, bacterial"]	13
#66	[mh ^"spores, fungal"]	9
#67	[mh ^Endotoxins]	354
#68	(mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation):ti,ab	2544
#69	"moisture damage*":ti,ab	6
#70	[mh ^humidity]	532
#71	{or #59-#70}	21031
#72	[mh ^dust]	289
#73	(dust or dusty or dustmite* or pyroglyphid* or dermatophagoid*):ti,ab	1668
#74	[mh Pyroglyphidae]	228
#75	(Cimex near (lectularius or hemipterus)):ti,ab	1
#76	[mh ^bedbugs]	2
#77	(bedbug* or "bed bug*"):ti,ab	5
#78	((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*):ti,ab	18
#79	((((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) near/5 (human* or people*)):ti,ab	0
#80	((cat* or dog* or animal* or pet or pets) near/3 (hair or hairs or fur)):ti,ab	24
#81	((avian or bird*) near/3 feather*):ti,ab	3
#82	[mh ^dander]	1
#83	dander:ti,ab	109

Indoor air quality at home
Search Strategies

#84	{or #72-#83}	1849
#85	[mh ^heating]	156
#86	[mh ^cooking]	243
#87	[mh "fossil fuels"]	41
#88	[mh ^coal]	4
#89	[mh ^"natural gas"]	0
#90	[mh ^wood]	49
#91	[mh ^butanes]	3
#92	[mh ^propane]	13
#93	(butane or propane):ti,ab	19
#94	((("lpg" or "liquid petroleum") not "lipophosphoglycan")):ti,ab	35
#95	((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) near/5 (cook* or heat* or stove* or burner* or boiler* or furnace* or appliance*)):ti,ab	294
#96	{or #85-#95}	786
#97	[mh ^paint]	54
#98	[mh ^adhesives]	261
#99	[mh "lead poisoning"]	27
#100	[mh ^Dichloromethane]	7
#101	[mh ^"Methylene Chloride"]	7
#102	(dichloromethane or "methylene chloride"):ti,ab	40
#103	[mh "household products"]	654
#104	(carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*"):ti,ab	111
#105	[mh ^"Floors and Floorcoverings"]	51
#106	[mh ^"Interior Design and Furnishings"]	87
#107	{or #97-#106}	1262
#108	#58 or #71 or #84 or #96 or #107	35870
#109	[mh ^housing]	283
#110	[mh "Residential Facilities"]	1778
#111	[mh "Nursing Homes"]	1368
#112	[mh ^"Housing for the Elderly"]	42
#113	[mh ^"Public Housing"]	61

#114	(indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*):ti,ab	36433
#115	(towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*"):ti,ab	17
#116	(apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters):ti,ab	662
#117	"flats":ti,ab	5
#118	(garage* and (integral or integrated or attach*)):ti,ab	1
#119	(caravan* or "mobile home*"):ti,ab	2
#120	(boat or boats):ti,ab	38
#121	{or #109-#120}	37089
#122	(bedroom* or "bed room*"):ti,ab	170
#123	(dormitory or dormitories):ti,ab	81
#124	("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge):ti,ab	75
#125	(hall or halls or hallway* or stairwell*):ti,ab	270
#126	(kitchen* or "dining room*" or dining-room* or diningroom*):ti,ab	171
#127	("bath room*" or bathroom* or "shower room*" or "shower-room*"):ti,ab	67
#128	(cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*"):ti,ab	1
#129	"utility room*":ti,ab	0
#130	{or #122-#129}	763
#131	#121 or #130	37589
#132	#108 and #131	2358
#133	(indoor next (environment or environments or exposure)):ti,ab	45
#134	((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)):ti,ab	2047
#135	("indoor air pollut*" or "indoor air quality"):ti,ab	82
#136	(indoor next (climate or climates)):ti,ab	9
#137	[mh "Air Pollution, Indoor"]	187
#138	{or #133-#137}	2166
#139	#132 and #138	591

#140 #132 not #138 1763

(1763 is the number downloaded, including NHS EED and HTA)

Database name: Greenfile

Strategy
S16 (S9 and S15) not (S6) Search modes - Boolean/Phrase (594)
S15 (S10 or S11 or S12 or S13 or S14) Search modes - Boolean/Phrase (59972)
S14 signs and symptoms Search modes - Boolean/Phrase (235)
S13 diagnosis Search modes - Boolean/Phrase Interface (2010)
S12 aetiology Search modes - Boolean/Phrase (684)
S11 risk Search modes - Boolean/Phrase (57949)
S10 risk factors Search modes - Boolean/Phrase (4245)
S9 (S7 or S8) Search modes - Boolean/Phrase (3671)
S8 indoor air quality Search modes - Boolean/Phrase (2395)
S7 indoor air pollution Search modes - Boolean/Phrase (1981)
S6 (S1 OR S2 OR S3 OR S4 OR S5) Search modes - Boolean/Phrase (31502)
S5 work environment Search modes - Boolean/Phrase (1443)
S4 factory Search modes - Boolean/Phrase (11098)
S3 office environment Search modes - Boolean/Phrase (132)
S2 office Search modes - Boolean/Phrase (18524)
S1 radon Search modes - Boolean/Phrase (952)

Database name: OpenGrey

Strategy
keyword:(INDOOR AIR QUALITY) OR keyword:(INDOOR AIR POLLUTION) = 70
limit to eng lang = 26
Manually filtered:
<ul style="list-style-type: none">• Not actually in English = 17• Thesis = 8• Report = 1 (downloaded from Scholar as an EN import)

Indoor air quality at home
Search Strategies

Website name: Google

- *Protocol: Google and Google scholar (with appropriate limits and looking specifically for reports or evaluations of interventions related to indoor air quality)*

Strategy
Exact word or phrase: indoor air Any of these words: quality pollution None of these words: radon factory office Terms appearing: title of page Language: English Strategy run: 20180405 First 50 results recorded 19 results downloaded plus two created manually.

Website name: Google Scholar

- *Protocol: Google and Google scholar (with appropriate limits and looking specifically for reports or evaluations of interventions related to indoor air quality)*

Strategy
Exact word or phrase: indoor air Any of these words: quality pollution None of these words: radon factory office Terms appearing: title of page Articles dated between: 1970-2018 Strategy run: 20180406 First 50 results recorded 20 results downloaded.

Website name: Web of Science

Strategy

46 479 #45 AND #42

Indoor air quality at home
Search Strategies

# 45	742,047	#44 OR #43
# 44	1,205	((TI=("signs and symptoms")) AND LANGUAGE: (English))
# 43	740,899	((TI=("risk factors" OR risk OR aetiology OR diagnosis))) AND LANGUAGE: (English)
# 42	13,856	(#41 AND #36) AND LANGUAGE: (English)
# 41	266,028	(#40 OR #39) AND LANGUAGE: (English)
# 40	24,585	((TI=(bedroom* or "bed room*" OR dormitory or dormitories OR "drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge OR hall or halls or hallway* or stairwell* OR kitchen* or "dining room*" or dining-room* or Diningroom* OR "bath room*" or bathroom* or "shower room*" or "shower-room*" OR cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*" OR "utility room*")) AND LANGUAGE: (English))
# 39	242,114	#38 OR #37
# 38	13,606	((TI=(towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*" or apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters or "flats" or garage or caravan* or "mobile home*" or boat or boats))) AND LANGUAGE: (English))
# 37	230,987	((TI=(indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*))) AND LANGUAGE: (English))
# 36	975,717	#35 OR #34 OR #30 OR #22 OR #17
# 35	43,042	((TI=(paint or adhesive or "lead poisoning*" or dichloromethane or "methylene chloride" or "household product" or carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*" or furnishing))) AND LANGUAGE: (English))
# 34	22,555	#33 OR #32 OR #31
# 33	12,318	((TI=((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) AND (cook* or heat* or stove* or burner* or boiler* or furnace* or appliance*))) AND LANGUAGE: (English))
# 32	978	((TI(("lpg" or "liquid petroleum") not "lipophosphoglycan")) AND LANGUAGE: (English))
# 31	9,288	((TI=(butane or propane))) AND LANGUAGE: (English))
# 30	41,564	#29 OR #28 OR #27 OR #26 OR #25 OR #24 OR #23
# 29	122	((TI=dander)) AND LANGUAGE: (English))

Indoor air quality at home
Search Strategies

- # 28 679 ((TI=((avian or bird* AND feather*))) AND LANGUAGE: (English))
- # 27 854 ((TI=((cat* or dog* or animal* or pet or pets) AND (hair or hairs or fur)))) AND LANGUAGE: (English)
- # 26 5,400 ((TI=((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (infest* or transmit* or transmission or spread*))) AND LANGUAGE: (English))
- # 25 476 ((TI=(bedbug* or "bed bug*"))) AND LANGUAGE: (English)
- # 24 218 ((TI=(Cimex AND (lectularius or hemipterus)))) AND LANGUAGE: (English)
- # 23 34,010 ((TI=(dust or dusty or dustmite* or pyroglyphid* or dermatophagoid*))) AND LANGUAGE: (English)
- # 22 384,125 #21 OR #20 OR #19 OR #18
- # 21 10,618 ((TI= ("moisture damage*" or humidity))) AND LANGUAGE: (English)
- # 20 86,746 ((TI=(mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation))) AND LANGUAGE: (English)
- # 19 12,480 ((TI=Endotoxin*)) AND LANGUAGE: (English)
- # 18 286,881 ((TI=("biological agent*" or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*))) AND LANGUAGE: (English)
- # 17 498,260 #16 OR #15 OR #14 OR #13 OR #12 OR #11 OR #10 OR #9 OR #8 OR #7 OR #6 OR #5 OR #4 OR #3 OR #2 OR #1
- # 16 78,442 ((TI=(toluene OR solvent*))) AND LANGUAGE: (English)
- # 15 39,227 ((TI=(limonene or pinene or carene OR odorant* or odourant* OR "air freshener*" OR candle or candles OR aerosol*))) AND LANGUAGE: (English)
- # 14 2,473 ((TI=(anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant* or perfume*))) AND LANGUAGE: (English)
- # 13 38,166 ((TI=(plasticiser* or plasticizer* OR phthalate* or pthalate* or phtalate* OR Styrene* OR "polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*))) AND LANGUAGE: (English)
- # 12 9,616 ((TI=("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE*"))) AND LANGUAGE: (English)
- # 11 1,145 ((TI=("polyvinyl chloride*"))) AND LANGUAGE: (English)
- # 10 45,217 ((TI= (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*))) AND LANGUAGE: (English)

Indoor air quality at home
Search Strategies

- | | | |
|-----|---------|--|
| # 9 | 8,955 | ((TI= (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*")) AND LANGUAGE: (English)) |
| # 8 | 10,272 | ((TI= ((coal or fly or fuel) AND (ash or ashes)))) AND LANGUAGE: (English) |
| # 7 | 72,418 | ((TI=(smoke or soot))) AND LANGUAGE: (English) |
| # 6 | 80,307 | ((TI=("particulate matter" or "coal ash" or smoke or soot))) AND LANGUAGE: (English) |
| # 5 | 5,734 | ((TI= ("PM 2.5" or "PM2.5" or "PM(2.5)" or "PM 10" or "PM10" or "PM(10)")) AND LANGUAGE: (English)) |
| # 4 | 7,590 | ((TI= ((fine or ultrafine) AND (particulat* or particle*)))) AND LANGUAGE: (English) |
| # 3 | 22,041 | ((TI= ("particulate matter*" or "particulate emission*" or particulates or "pm emission*")) AND LANGUAGE: (English)) |
| # 2 | 157,920 | ((TI= ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2)) AND LANGUAGE: (English)) |
| # 1 | 17,570 | ((TI=("AIR QUALITY" OR "AIR POLLUTION")) AND LANGUAGE: (English)) |

2RQ3.1

RQ3.1 What are the effective material and structural interventions to prevent or reduce the health impacts of poor indoor air quality at home?

Flowchart

Total set

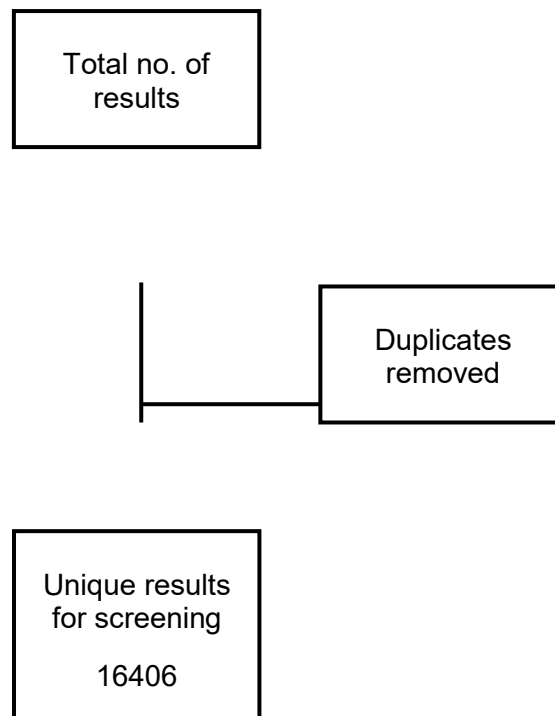


Table of results: RQ3.1

Database name	Date searched	Database Platform	Database segment or version	No. of results
Medline	19 May 18	OVID	Database: Ovid MEDLINE(R) <1946 to Present with Daily Update>	10460
Embase	21 May 18	OVID	Embase <1974 to 2018 May 18>	14576

Indoor air quality at home
Search Strategies

Health Management Information Consortium (HMIC)	29/03/18	OVID	HMIC Health Management Information Consortium 1979 to January 2018	359
Social Policy & Practice (SPP)	29/03/18	OVID	Social Policy and Practice 201801	1130
CDSR	3/4/18	Wiley	Cochrane Database of Systematic Reviews : Issue 4 of 12, April 2018	37
CENTRAL	3/4/18	Wiley	Cochrane Central Register of Controlled Trials : Issue 3 of 12, March 2018	1708
DARE	3/4/18	Wiley	Database of Abstracts of Reviews of Effect : Issue 2 of 4, April 2015	12
HTA	3/4/18	Wiley	Health Technology Assessment Database : Issue 4 of 4, October 2016	3
NHS EED	3/4/18	Wiley	NHS Economic Evaluation Database : Issue 2 of 4, April 2015	3
Greenfile	29/3/18	Ebsco	Greenfile	594
WoS	5/4/18			479
Google	5/4/18			21
Google Scholar	5/4/18			20
OpenGrey	3/4/18			1
Total: 29403				

NB the results from Cochrane, HMIC, SPP, Greenfile, WoS, Google, and Google Scholar were all downloaded from the RQ1/RQ2 search as they were a 'core set' search. This is reflected in the search dates.

Database strategies: RQ3.1

Database name: Medline

Strategy
Database: Ovid MEDLINE(R) <1946 to Present with Daily Update>

1 air pollution/ (26579)
2 limit 1 to yr="1970 - 1991" (6547)
3 air pollutants/ (39655)
4 Air Pollution, Indoor/ae (3183)
5 ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti,ab. (134924)
6 carbon dioxide/ or carbon monoxide/ or nitrogen oxides/ or nitrogen dioxide/ or ozone/ (118754)
7 ("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti,ab. (16386)
8 ((fine or ultrafine) adj (particulat* or particle*)).ti,ab. (6308)
9 "PM 2.5".ti,ab. (1539)
10 "PM2.5".ti,ab. (5178)
11 "PM(2.5)".ti,ab. (1539)
12 "PM 10".ti,ab. (1540)
13 "PM10".ti,ab. (3803)
14 "PM(10)".ti,ab. (1540)
15 particulate matter/ or coal ash/ or smoke/ or soot/ (22120)
16 ((coal or fly or fuel) adj3 (ash or ashes)).ti,ab. (2979)
17 soot.ti,ab. (1335)
18 Volatile Organic Compounds/ (6783)
19 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti,ab. (7369)

- 20 Benzene Derivatives/ or Benzene/ (14605)
- 21 Naphthalenes/ or tetrachloroethylene/ or trichloroethylene/ or formaldehyde/ (44055)
- 22 (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti,ab. (51256)
- 23 polyvinyl chloride/ or "polyvinyl chloride".ti,ab. (4538)
- 24 halogenated diphenyl ethers/ (3490)
- 25 ("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE").ti,ab. (6246)
- 26 Flame Retardants/ (3003)
- 27 Plasticizers/ (2314)
- 28 (plasticiser* or plasticizer*).ti,ab. (3307)
- 29 dibutyl phthalate/ or diethylhexyl phthalate/ or (phthalate* or pthalate* or phtalate*).ti,ab. (7713)
- 30 Styrene/ or styrene*.ti,ab. (7001)
- 31 polycyclic aromatic hydrocarbons/ or benzopyrenes/ (17335)
- 32 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*).ti,ab. (17179)
- 33 antiperspirants/ or talc/ or deodorants/ or perfume/ (4304)
- 34 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab. (2866)
- 35 (limonene or pinene or carene).ti,ab. (4163)
- 36 Odorants/ (16318)
- 37 "air freshener".ti,ab. (94)
- 38 (candle or candles).ti,ab. (698)
- 39 aerosols/ae (686)
- 40 toluene/ or toluene.ti,ab. (15391)
- 41 solvents/ or solvent*.ti,ab. (123907)
- 42 40 or 41 (135875)
- 43 substance-related disorders/ or inhalant abuse/ (89307)
- 44 ("glue sniff*" or "glue-sniff*" or "solvent abuse*" or "solvent-abuse*").ti,ab. (377)
- 45 43 or 44 (89362)
- 46 42 not 45 (134729)
- 47 or/2-39 (405866)

- 48 46 or 47 (523934)
- 49 Bacteria/ or fungi/ or stachybotrys/ or air microbiology/ (165370)
- 50 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti,ab. (742372)
- 51 spores/ or spores, bacterial/ or spores, fungal/ (26440)
- 52 Endotoxins/ (24656)
- 53 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti,ab. (84248)
- 54 "moisture damage*".ti,ab. (121)
- 55 humidity/ (15067)
- 56 or/49-55 (901970)
- 57 (dust or dusty or dustmite*).ti,ab. or dust/ (36002)
- 58 exp Pyroglyphidae/ (2488)
- 59 (Dermatophagoid* or pyroglyphid*).ti,ab. (3737)
- 60 (Cimex adj (lectularius or hemipterus)).ti,ab. (345)
- 61 bedbugs/ or (bedbug * or " bed bug*").ti,ab. (696)
- 62 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti,ab. (2110)
- 63 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people)).ti,ab. (6215)
- 64 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti,ab. (1590)
- 65 ((avian or bird*) adj3 feather*).ti,ab. (544)
- 66 dander/ or dander.ti,ab. (866)
- 67 or/57-66 (49149)
- 68 heating/ or cooking/ (15285)
- 69 fossil fuels/ or coal/ or natural gas/ or wood/ (16991)
- 70 butanes/ or propane/ or (butane or propane).ti,ab. (6951)
- 71 ((lpg or "liquid petroleum") not "lipophosphoglycan").ti,ab. (654)
- 72 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or burner* or boiler* or furnace*).ti,ab. (4595)
- 73 or/68-72 (42324)
- 74 paint/ (3303)
- 75 adhesives/ (6060)

- 76 exp lead poisoning/ (11530)
- 77 Dichloromethane/ or Methylene Chloride/ (1830)
- 78 (dichloromethane or "methylene chloride").ti,ab. (7942)
- 79 exp household products/ (40265)
- 80 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*").ti,ab. (2578)
- 81 "Floors and Floorcoverings"/ (1933)
- 82 "Interior Design and Furnishings"/ (4366)
- 83 or/74-82 (76848)
- 84 48 or 56 or 67 or 73 or 83 (1512744)
- 85 housing/ (15984)
- 86 exp Residential Facilities/ (48900)
- 87 exp Nursing Homes/ (36468)
- 88 Housing for the Elderly/ (1562)
- 89 Public Housing/ (1257)
- 90 (indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab. (445025)
- 91 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*").ti,ab. (528)
- 92 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters).ti,ab. (10657)
- 93 flats.ti,ab. (788)
- 94 (garage* and (integral or integrated or attach*)).ti,ab. (43)
- 95 (caravan* or "mobile home*").ti,ab. (183)
- 96 (boat or boats or houseboat*).ti. (573)
- 97 or/85-96 (478622)
- 98 (bedroom* or "bed room*").ti,ab. (1901)
- 99 (dormitory or dormitories).ti,ab. (465)
- 100 ("drawing room*" or drawingroom* or "drawing-room*" or front room*" or frontroom* or "front-room*" or sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab. (884)
- 101 (hall or halls or hallway* or stairwell*).ti,ab. (5177)
- 102 (kitchen* or "dining room*" or dining-room* or diningroom*).ti,ab. (3789)

- 103 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab. (1149)
- 104 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti,ab. (76)
- 105 "utility room*".ti,ab. (17)
- 106 or/98-105 (12529)
- 107 97 or 106 (487256)
- 108 Housing, Animal/ (10284)
- 109 Livestock/ or cattle/ or exp goats/ or exp sheep/ or swine/ or sus scrofa/ or swine, miniature/ (628421)
- 110 (pig or pigs or goat or goats or sheep or cow or cows).ti,ab. (327677)
- 111 or/108-110 (758480)
- 112 107 not 111 (466229)
- 113 84 and 112 (46754)
- 114 limit 113 to english language (42282)
- 115 limit 114 to yr="1970 -Current" (41917)
- 116 limit 115 to (case reports or clinical conference or comment or editorial or interview or letter or news or newspaper article) (1799)
- 117 115 not 116 (40118)
- 118 ventilation/ (5311)
- 119 (ventilation or ventilated or vent or vents or flue or flues).ti,ab. (115580)
- 120 118 or 119 (118276)
- 121 Respiration, Artificial/ or intermittent positive-pressure ventilation/ or Ventilators, Mechanical/ or Ventilators, Negative-Pressure/ or Ventilator Weaning/ or Noninvasive Ventilation/ (56058)
- 122 120 not 121 (85958)
- 123 hvac.ti,ab. (220)
- 124 air conditioning/ (2530)
- 125 air movements/ (3040)
- 126 (("air change" or "air exchange") and (rate or rates)).ti,ab. (531)
- 127 air brick*.ti,ab. (1)
- 128 humidifiers/ (52)
- 129 (dehumidif* or de-humidif*).ti,ab. (96)
- 130 (insulat* or draught*).ti,ab. (9315)

- 131 "Dew point*".ti,ab. (279)
- 132 (condensation or moisture).ti,ab. (44994)
- 133 exp Hygroscopic Agents/ or dessicant/ (1228)
- 134 (hygroscopic* or dessicant* or desiccant* or "silica gel*" or zeolite*).ti,ab. (13038)
- 135 ((vapour or vapor) adj3 permeab*).ti,ab. (640)
- 136 ((breather or breathable) adj3 membrane*).ti,ab. (2)
- 137 ((double* or single* or triple*) adj3 (glaz* or glass or window*)).ti,ab. (820)
- 138 (extract* adj fan*).ti,ab. (21)
- 139 micropore filters/ (2224)
- 140 air filters/ (216)
- 141 (air adj3 (filt* or purif* or micropor* or micro-por*)).ti,ab. (3436)
- 142 ((absorb* or absorp* or adsorb* or sorben*) and (air or filter or filtrat*)).ti,ab. (14410)
- 143 (air filt* and (cataly* or photocataly* or photo-cataly* or "photo cataly*")).ti,ab. (16)
- 144 (pco and cleaner*).ti,ab. (1)
- 145 "Thermal catalytic oxidation".ti,ab. (2)
- 146 ("ultraviolet germicidal irradiat*" or UVGI).ti,ab. (71)
- 147 air ionization/ (559)
- 148 (air adj3 ioni*).ti,ab. (432)
- 149 Oxidation-Reduction/ (174603)
- 150 "High efficiency particulate air".ti,ab. (261)
- 151 (HEPA adj5 filt*).ti,ab. (349)
- 152 ((particle* or particulate* or dust or dander) adj3 removal).ti,ab. (815)
- 153 (air adj (cleaner or cleaners or cleaning)).ti,ab. (239)
- 154 ((absorb* or absorp* or adsorb* or sorben* or sorption) and (air or filter or filtrat*)).ti,ab. (14941)
- 155 ((cook* or stove* or kitchen*) adj5 (fan or fans or extractor* or extraction or canopy* or filter* or hood or hoods or chimney* or island* or vapour or vapours or recirculat* or re-circulat*)).ti,ab. (507)
- 156 "Environmental Restoration and Remediation"/ (6678)
- 157 "Facility Design and Construction"/ (8859)
- 158 Environment design/ (5535)

- 159 (environment* adj3 (design or designed or restore or restored or restoration* or renew*)).ti,ab. (2141)
- 160 Construction Industry/ (1072)
- 161 construction materials/ (5613)
- 162 (construction adj1 (industry or industries or material*)).ti,ab. (1546)
- 163 (fabric or repair* or remediati* or structural or renovat* or retrofit* or furbish* or refurbish*).ti,ab. (732871)
- 164 ((building* or hous* or home or homes) adj3 (material* or construct* or retrofit* or renovat* or maintenance or maintain* or improve* or interven* or repair* or remediati* or furbish* or refurbish*)).ti,ab. (11764)
- 165 quality improvement/ (16887)
- 166 ((lime or plastic or plaster or acrylic or cement or mortar or "pebble dash*") adj3 (render* or cladding)).ti,ab. (33)
- 167 ((heating or heater or boiler* or burner* or furnace*) adj3 (replace* or renew* or update* or refit* or upgrade* or improve*)).ti,ab. (230)
- 168 ((energy or heating or temperature) adj3 (efficient* or efficienc* or conserv*)).ti,ab. (10802)
- 169 Building Codes/ (525)
- 170 building regulation*.ti,ab. (42)
- 171 Urban Renewal/ (1039)
- 172 (urban adj3 (regenerat* or renewal)).ti,ab. (127)
- 173 "Interior Design and Furnishings"/ (4366)
- 174 halogenated diphenyl ethers/ (3490)
- 175 ("flame retard*" or "fire resist*" or "diphenyl ether*" or "PBDE").ti,ab. (6246)
- 176 Flame Retardants/ (3003)
- 177 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*").ti,ab. (2578)
- 178 (curtain* or sofa or sofas or settee* or chair or chairs or upholstery or furniture or furnishings or mattress* or bedding or fabric or fabrics).ti,ab. (26921)
- 179 "stain resist*".ti,ab. (43)
- 180 anti-stain*.ti,ab. (8)
- 181 (teflon or scotchguard).ti,ab. (5090)
- 182 Fluorosurfactant*.ti,ab. (93)
- 183 (Fluorocarbon* or fluoropolymer* or perfluorooctan* or perfluorononanoic*).ti,ab. (4380)

- 184 (PFOS or PFOSA).ti,ab. (2110)
- 185 Fluorocarbon Polymers/ (1834)
- 186 Fluorocarbons/ (10057)
- 187 perfluorocarbon*.ti,ab. (2115)
- 188 polypropylene.ti,ab. (7087)
- 189 Polytetrafluoroethylene/ or polytetrafluoroethylene.ti,ab. (12820)
- 190 PTFE.ti,ab. (4262)
- 191 perfluorobutanesulfonic.ti,ab. (8)
- 192 PFBS.ti,ab. (188)
- 193 formaldehyde/ or formaldehyde*.ti,ab. (28609)
- 194 Quality of life/ (162415)
- 195 health status/ (73136)
- 196 Health status indicators/ (22377)
- 197 Activities of daily living/ (59068)
- 198 (quality adj3 (life or lives)).ti,ab. (196138)
- 199 (health adj1 (state or status)).ti,ab. (49910)
- 200 (wellbeing or "well being").ti,ab. (58828)
- 201 or/122-155 (351657)
- 202 or/156-172 (796667)
- 203 or/173-193 (104379)
- 204 or/194-200 (424760)
- 205 or/201-204 (1621836)
- 206 117 and 205 (10460)

Database name: Embase

Database: Embase <1974 to 2018 May 18>

- 1 air pollution/ (60233)
- 2 limit 1 to yr="1970 - 1991" (13846)
- 3 air pollutant/ (28631)
- 4 indoor air pollution/ae (1860)
- 5 ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti,ab. (221188)
- 6 carbon dioxide/ or carbon monoxide/ or nitrogen oxides/ or nitrogen dioxide/ or ozone/ (159905)
- 7 ("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti,ab. (27563)
- 8 ((fine or ultrafine) adj (particulat* or particle*)).ti,ab. (11134)
- 9 "PM 2.5".ti,ab. (1141)
- 10 "PM2.5".ti,ab. (10730)
- 11 "PM(2.5)".ti,ab. (1141)
- 12 "PM 10".ti,ab. (1144)
- 13 "PM10".ti,ab. (8341)
- 14 "PM(10)".ti,ab. (1144)
- 15 particulate matter/ or fly ash/ or smoke/ or soot/ (52979)
- 16 ((coal or fly or fuel) adj3 (ash or ashes)).ti,ab. (5747)
- 17 soot.ti,ab. (3555)
- 18 Volatile Organic Compound/ (14636)
- 19 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti,ab. (13531)
- 20 Benzene Derivative/ or Benzene/ (33088)
- 21 Naphthalene/ or tetrachloroethylene/ or trichloroethylene/ or formaldehyde/ (69396)
- 22 (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti,ab. (78083)
- 23 polyvinylchloride/ or "polyvinyl chloride*".ti,ab. (8945)
- 24 diphenyl ether derivative/ (1615)

- 25 ("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE").ti,ab. (7930)
- 26 Flame Retardant/ (3564)
- 27 Plasticizer/ (4351)
- 28 (plasticiser* or plasticizer*).ti,ab. (5374)
- 29 phthalic acid dibutyl ester/ or "phthalic acid bis(2 ethylhexyl) ester"/ or (phthalate* or pthalate* or phtalate*).ti,ab. (12267)
- 30 Styrene/ or styrene*.ti,ab. (13396)
- 31 polycyclic aromatic hydrocarbon/ or "benzo[a]pyrene derivative"/ (29173)
- 32 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*).ti,ab. (24055)
- 33 antiperspirant agent/ or talc/ or deodorant agent/ or perfume/ (7422)
- 34 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab. (4583)
- 35 (limonene or pinene or carene).ti,ab. (7631)
- 36 fragrance/ (4430)
- 37 "air freshener*".ti,ab. (164)
- 38 (candle or candles).ti,ab. (1106)
- 39 aerosol/ae (303)
- 40 toluene/ or toluene.ti,ab. (27860)
- 41 solvent/ or solvent*.ti,ab. (181136)
- 42 40 or 41 (202696)
- 43 drug dependence/ or inhalant abuse/ or substance abuse/ (94321)
- 44 ("glue sniff*" or "glue-sniff*" or "solvent abuse*" or "solvent-abuse*").ti,ab. (507)
- 45 43 or 44 (94706)
- 46 42 not 45 (201677)
- 47 or/2-39 (589720)
- 48 46 or 47 (762360)
- 49 bacterium/ or fungus/ or Stachybotrys/ or microbiology/ (439962)
- 50 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti,ab. (981740)
- 51 bacterial spore/ or fungus spore/ (21623)
- 52 Endotoxin/ (36042)

- 53 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti,ab. (128537)
- 54 "moisture damage*".ti,ab. (164)
- 55 humidity/ (29500)
- 56 or/49-55 (1383188)
- 57 (dust or dusty or dustmite*).ti,ab. or dust/ (53838)
- 58 exp Pyroglyphidae/ (10286)
- 59 (Dermatophagoid* or pyroglyphid*).ti,ab. (5476)
- 60 (Cimex adj (lectularius or hemipterus)).ti,ab. (395)
- 61 Cimex/ or (bedbug* or "bed bug*").ti,ab. (847)
- 62 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti,ab. (2445)
- 63 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people)).ti,ab. (9084)
- 64 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti,ab. (2180)
- 65 ((avian or bird*) adj3 feather*).ti,ab. (681)
- 66 dander/ or dander.ti,ab. (1979)
- 67 or/57-66 (73418)
- 68 heating/ or cooking/ (40377)
- 69 fossil fuel/ or coal/ or natural gas/ or wood/ (25749)
- 70 butane/ or propane/ or (butane or propane).ti,ab. (11843)
- 71 ((lpg or "liquid petroleum") not "lipophosphoglycan").ti,ab. (1089)
- 72 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or burner* or boiler* or furnace*)).ti,ab. (8358)
- 73 or/68-72 (82732)
- 74 paint/ (5257)
- 75 adhesive agent/ (11153)
- 76 exp lead poisoning/ (12328)
- 77 Dichloromethane/ (11250)
- 78 (dichloromethane or "methylene chloride").ti,ab. (14206)
- 79 exp domestic chemical/ (17484)
- 80 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*").ti,ab. (3718)

- 81 building/ or building material/ (11518)
- 82 furniture/ (4396)
- 83 or/74-82 (81237)
- 84 48 or 56 or 67 or 73 or 83 (2251614)
- 85 housing/ (21102)
- 86 exp residential home/ (6761)
- 87 exp Nursing Home/ (49570)
- 88 home for the aged/ (11644)
- 89 (indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab. (657361)
- 90 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor").ti,ab. (836)
- 91 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters).ti,ab. (14777)
- 92 flats.ti,ab. (1212)
- 93 (garage* and (integral or integrated or attach*)).ti,ab. (75)
- 94 (caravan* or "mobile home").ti,ab. (269)
- 95 (boat or boats or houseboat*).ti. (764)
- 96 or/85-95 (696341)
- 97 (bedroom* or "bed room").ti,ab. (2944)
- 98 (dormitory or dormitories).ti,ab. (733)
- 99 ("drawing room*" or drawingroom* or "drawing-room*" or front room*" or frontroom* or "front-room*" or sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab. (1324)
- 100 (hall or halls or hallway* or stairwell*).ti,ab. (8325)
- 101 (kitchen* or "dining room*" or dining-room* or diningroom*).ti,ab. (5689)
- 102 ("bath room*" or bathroom* or "shower room*" or "shower-room").ti,ab. (1989)
- 103 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room").ti,ab. (138)
- 104 "utility room".ti,ab. (32)
- 105 or/97-104 (19725)
- 106 96 or 105 (710089)
- 107 animal housing/ (8958)

- 108 livestock/ or bovine/ or pig/ or minipig/ (54248)
- 109 exp goat/ or exp sheep/ (130415)
- 110 (pig or pigs or goat or goats or sheep or cow or cows).ti,ab. (383903)
- 111 or/107-110 (473637)
- 112 106 not 111 (689629)
- 113 84 and 112 (78667)
- 114 limit 113 to english language (71052)
- 115 limit 114 to yr="1970 -Current" (70619)
- 116 limit 115 to (conference abstract or conference paper or "conference review" or editorial or letter) (14476)
- 117 115 not 116 (56143)
- 118 air conditioning/ (22887)
- 119 (ventilation or ventilated or vent or vents or flue or flues).ti,ab. (183856)
- 120 118 or 119 (189900)
- 121 artificial ventilation/ or high frequency ventilation/ or interactive ventilatory support/ or intermittent mandatory ventilation/ or intermittent positive pressure ventilation/ or inverse ratio ventilation/ or jet ventilation/ or liquid ventilation/ or negative pressure ventilation/ or noninvasive ventilation/ or one lung ventilation/ or positive end expiratory pressure/ or pressure support ventilation/ or therapeutic hyperventilation/ or ventilator weaning/ (161186)
- 122 120 not 121 (104838)
- 123 hvac.ti,ab. (414)
- 124 air/ (21321)
- 125 (("air change" or "air exchange") and (rate or rates)).ti,ab. (926)
- 126 air brick*.ti,ab. (1)
- 127 humidifier/ (3495)
- 128 (dehumidif* or de-humidif*).ti,ab. (210)
- 129 (insulat* or draught*).ti,ab. (15445)
- 130 "Dew point*".ti,ab. (455)
- 131 (condensation or moisture).ti,ab. (72321)
- 132 Hygroscopic Agent/ (54)
- 133 (hygroscopic* or dessicant* or desiccant* or "silica gel*" or zeolite*).ti,ab. (25703)
- 134 ((vapour or vapor) adj3 permeab*).ti,ab. (973)
- 135 ((breather or breathable) adj3 membrane*).ti,ab. (3)

- 136 ((double* or single* or triple*) adj3 (glaz* or glass or window*)).ti,ab. (1219)
- 137 (extract* adj fan*).ti,ab. (30)
- 138 micropore filter/ (1136)
- 139 air filter/ (620)
- 140 (air adj3 (filt* or purif* or micropor* or micro-por*)).ti,ab. (5728)
- 141 ((absorb* or absorp* or adsorb* or sorben*) and (air or filter or filtrat*)).ti,ab. (22697)
- 142 (air filt* and (cataly* or photocataly* or photo-cataly* or "photo cataly*").ti,ab. (24)
- 143 photocatalysis/ (8196)
- 144 (pco and cleaner*).ti,ab. (4)
- 145 "Thermal catalytic oxidation".ti,ab. (3)
- 146 ("ultraviolet germicidal irradiat*" or UVGI).ti,ab. (117)
- 147 (air adj3 ioni*).ti,ab. (587)
- 148 oxidation reduction reaction/ (90705)
- 149 "High efficiency particulate air".ti,ab. (358)
- 150 (HEPA adj5 filt*).ti,ab. (673)
- 151 ((particle* or particulate* or dust or dander) adj3 removal).ti,ab. (1706)
- 152 (air adj (cleaner or cleaners or cleaning)).ti,ab. (441)
- 153 ((absorb* or absorp* or adsorb* or sorben* or sorption) and (air or filter or filtrat*)).ti,ab. (23694)
- 154 ((cook* or stove* or kitchen*) adj5 (fan or fans or extractor* or extraction or canopy* or filter* or hood or hoods or chimney* or island* or vapour or vapours or recirculat* or re-circulat*)).ti,ab. (715)
- 155 ecosystem restoration/ (4816)
- 156 "construction work and architectural phenomena"/ (7964)
- 157 Environmental planning/ (9662)
- 158 (environment* adj3 (design or designed or restore or restored or restoration* or renew*)).ti,ab. (3826)
- 159 building industry/ (2943)
- 160 building material/ (5113)
- 161 (construction adj1 (industry or industries or material*)).ti,ab. (2581)
- 162 (fabric or repair* or remedi* or structural or renovat* or retrofit* or furbish* or refurbish*).ti,ab. (1002460)

- 163 ((building* or hous* or home or homes) adj3 (material* or construct* or retrofit* or renovat* or maintenance or maintain* or improve* or interven* or repair* or remediat* or furbish* or refurbish*)).ti,ab. (18730)
- 164 quality improvement/ (24813)
- 165 ((lime or plastic or plaster or acrylic or cement or mortar or "pebble dash") adj3 (render* or cladding)).ti,ab. (47)
- 166 ((heating or heater or boiler* or burner* or furnace*) adj3 (replace* or renew* or update* or refit* or upgrade* or improve*)).ti,ab. (392)
- 167 ((energy or heating or temperature) adj3 (efficient* or efficienc* or conserv*)).ti,ab. (16186)
- 168 building codes.ti,ab. (102)
- 169 building regulation*.ti,ab. (84)
- 170 city planning/ (2260)
- 171 (urban adj3 (regenerat* or renewal)).ti,ab. (153)
- 172 furniture/ (4396)
- 173 diphenyl ether derivative/ (1615)
- 174 ("flame retard*" or "fire resist*" or "diphenyl ether*" or "PBDE").ti,ab. (7930)
- 175 Flame Retardant/ (3564)
- 176 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*").ti,ab. (3718)
- 177 (curtain* or sofa or sofas or settee* or chair or chairs or upholstery or furniture or furnishings or mattress* or bedding or fabric or fabrics).ti,ab. (44252)
- 178 "stain resist*".ti,ab. (54)
- 179 anti-stain*.ti,ab. (10)
- 180 politef/ (18013)
- 181 (teflon or scotchguard).ti,ab. (7179)
- 182 Fluorosurfactant*.ti,ab. (129)
- 183 (Fluorocarbon* or fluoropolymer* or perfluorooctan* or perfluorononanoic*).ti,ab. (5864)
- 184 (PFOS or PFOSA).ti,ab. (2711)
- 185 Fluorocarbon/ (7872)
- 186 perfluorocarbon*.ti,ab. (2933)
- 187 polypropylene/ or polypropylene.ti,ab. (17534)
- 188 polytetrafluoroethylene.ti,ab. (8061)

Indoor air quality at home
Search Strategies

- 189 PTFE.ti,ab. (6674)
- 190 perfluorooctanesulfonic acid/ or perfluorobutanesulfonic.ti,ab. (2124)
- 191 PFBS.ti,ab. (234)
- 192 formaldehyde/ or formaldehyde*.ti,ab. (57553)
- 193 Quality of life/ (387652)
- 194 health status/ (113271)
- 195 daily life activity/ (76831)
- 196 (quality adj3 (life or lives)).ti,ab. (361874)
- 197 (health adj1 (state or status)).ti,ab. (71648)
- 198 (wellbeing or "well being").ti,ab. (91087)
- 199 or/122-154 (367785)
- 200 or/155-171 (1090162)
- 201 or/172-192 (171513)
- 202 or/193-198 (711666)
- 203 or/199-202 (2266218)
- 204 117 and 203 (14576)

Database name: HMIC

The search for HMIC is a core set of pollutants and domestic settings, minus the broad set.

Strategy
Database: HMIC Health Management Information Consortium <1979 to January 2018>

1 air pollution/ or air quality/ (634)
2 ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti,ab. (503)
3 carbon dioxide/ or carbon monoxide/ or nitrogen oxides/ or nitrogen dioxide/ or ozone/ (216)
4 ("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti,ab. (134)
5 ((fine or ultrafine) adj (particulat* or particle*)).ti,ab,sh. (43)
6 ("PM 2.5" or "PM2.5" or "PM(2.5)").ti,ab. (47)
7 ("PM 10" or "PM10" or "PM(10)").ti,ab. (42)
8 particulate matter/ or coal ash/ or smoke/ or soot/ (30)
9 ((coal or fly or fuel) adj3 (ash or ashes)).ti,ab. (7)
10 soot.ti,ab. (13)
11 Volatile Organic Compounds/ (0)
12 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti,ab,sh. (21)
13 Benzene Derivatives/ or Benzene/ (77)
14 Naphthalenes/ or tetrachloroethylene/ or trichloroethylene/ or formaldehyde/ (196)
15 (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti,ab. (350)
16 polyvinyl chloride/ or "polyvinyl chloride*".ti,ab. (56)
17 ("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE").ti,ab. (46)
18 flame retardants/ (10)
19 (plasticiser* or plasticizer*).ti,ab. (8)
20 (phthalate* or pthalate* or phtalate*).ti,ab,sh. (29)

- 21 Styrene/ or styrene*.ti,ab. (60)
- 22 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*).ti,ab. (64)
- 23 antiperspirants/ or talc/ or deodorants/ or perfume/ (23)
- 24 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab. (29)
- 25 (limonene or pinene or carene).ti,ab. (3)
- 26 (odorant* or odourant*).ti,ab. (0)
- 27 "air freshener*".ti,ab. (3)
- 28 (candle or candles).ti,ab. (6)
- 29 aerosols/ (35)
- 30 toluene/ or toluene.ti,ab. (111)
- 31 solvents/ or solvent.ti,ab. (398)
- 32 or/1-31 (2251)
- 33 Bacteria/ or fungi/ or stachybotrys/ or air microbiology/ (248)
- 34 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti,ab. (1027)
- 35 spores/ or spores, bacterial/ or spores, fungal/ (15)
- 36 Endotoxins/ (22)
- 37 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti,ab. (401)
- 38 "moisture damage*".ti,ab. (0)
- 39 humidity/ (4)
- 40 or/33-39 (1523)
- 41 (dust or dusty or dustmite* or pyroglyphid* or dermatophagoid*).ti,ab,sh. (726)
- 42 (Cimex adj (lectularius or hemipterus)).ti,ab. (2)
- 43 (bedbug* or "bed bug").ti,ab,sh. (8)
- 44 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti,ab. (6)
- 45 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people*)).ti,ab. (3)
- 46 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti,ab. (0)
- 47 ((avian or bird*) adj3 feather*).ti,ab. (2)
- 48 dander.ti,ab,sh. (1)

- 49 or/41-48 (745)
- 50 heating/ or cooking/ (85)
- 51 fossil fuels/ or coal/ or natural gas/ or wood/ (98)
- 52 (butane or propane).ti,ab,sh. (8)
- 53 (("lpg" or "liquid petroleum") not "lipophosphoglycan").ti,ab. (13)
- 54 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or burner* or boiler* or furnace* or appliance*)).ti,ab. (169)
- 55 or/50-54 (360)
- 56 paint.ti,ab,sh. (95)
- 57 adhesives.ti,ab,sh. (33)
- 58 "lead poisoning".ti,ab,sh. (31)
- 59 (dichloromethane or "methylene chloride").ti,ab,sh. (29)
- 60 household products.ti,ab,sh. (6)
- 61 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*").ti,ab,sh. (81)
- 62 exp flooring/ (61)
- 63 exp furnishings/ (60)
- 64 or/56-63 (342)
- 65 32 or 40 or 49 or 55 or 64 (4867)
- 66 residential accommodation/ or accommodation/ or bed & breakfast accommodation/ or care homes/ (1747)
- 67 exp nursing homes/ or care homes/ or residential care/ (6402)
- 68 exp sheltered housing/ (337)
- 69 exp public housing/ (134)
- 70 (indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab,sh. (33949)
- 71 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*").ti,ab,sh. (58)
- 72 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters).ti,ab,sh. (2965)
- 73 exp High rise flats/ (5)
- 74 "flats".ti,ab,sh. (105)
- 75 garage.mp. (19)

- 76 (caravan* or "mobile home*").ti,ab,sh. (43)
- 77 (boat or boats).ti,ab,sh. (40)
- 78 or/66-77 (35824)
- 79 (bedroom* or "bed room*").ti,ab,sh. (129)
- 80 (dormitory or dormitories).ti,ab,sh. (9)
- 81 ("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab,sh. (49)
- 82 (hall or halls or hallway* or stairwell*).ti,ab,sh. (310)
- 83 (kitchen* or "dining room*" or dining-room* or diningroom*).ti,ab,sh. (296)
- 84 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab,sh. (103)
- 85 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti,ab,sh. (9)
- 86 "utility room*".ti,ab,sh. (1)
- 87 or/79-86 (844)
- 88 78 or 87 (36376)
- 89 88 and 65 (563)
- 90 (indoor adj (environment or environments or exposure)).ti,ab,sh. (34)
- 91 ((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)).ti,ab,sh. (473)
- 92 ("indoor air pollut*" or "indoor air quality").ti,ab,sh. (80)
- 93 (indoor adj (climate or climates)).ti,ab,sh. (5)
- 94 or/90-93 (493)
- 95 89 not 94 (359)

Database name: Social Policy & Practice

The search for SPP is a core set of pollutants and domestic settings, minus the broad set.

Strategy	
Database: Social Policy and Practice <201801>	

1	air pollution.ti,ab,sh. (1015)
2	air pollutants.ti,ab,sh. (74)
3	("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti,ab,sh. (574)
4	("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti,ab,sh. (182)
5	((fine or ultrafine) adj (particulat* or particle*)).ti,ab,sh. (28)
6	("PM 2.5" or "PM2.5" or "PM(2.5)").ti,ab,sh. (54)
7	("PM 10" or "PM10" or "PM(10)").ti,ab,sh. (88)
8	((coal or fly or fuel) adj3 (ash or ashes)).ti,ab. (3)
9	(smoke or soot).ti,ab,sh. (338)
10	(VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti,ab,sh. (57)
11	(benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti,ab,sh. (59)
12	"polyvinyl chloride*".ti,ab,sh. (5)
13	("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE").ti,ab,sh. (9)
14	(plasticiser* or plasticizer*).ti,ab,sh. (2)
15	(phthalate* or pthalate* or phtalate*).ti,ab,sh. (15)
16	styrene.ti,ab,sh. (0)
17	("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzo[a]pyrene* or benzo[a]pyrene*).ti,ab,sh. (21)
18	(anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab,sh. (2)
19	(limonene or pinene or carene).ti,ab,sh. (0)
20	(odorant* or odourant*).ti,ab,sh. (0)
21	"air freshener*".ti,ab,sh. (1)

- 22 (candle or candles).ti,ab,sh. (22)
- 23 aerosols.ti,ab,sh. (10)
- 24 toluene.ti,ab,sh. (8)
- 25 (solvent or solvents).ti,ab,sh. (98)
- 26 or/1-25 (1818)
- 27 (stachybotrys or "air microbiology").ti,ab,sh. (0)
- 28 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti,ab,sh. (99)
- 29 endotoxin*.ti,ab,sh. (11)
- 30 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti,ab,sh. (418)
- 31 "moisture damage*".ti,ab,sh. (0)
- 32 or/27-31 (508)
- 33 (dust or dusty or dustmite* or pyroglyphid* or dermatophagoid*).ti,ab,sh. (111)
- 34 (Cimex adj (lectularius or hemipterus)).ti,ab. (0)
- 35 (bedbug* or "bed bug").ti,ab,sh. (1)
- 36 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti,ab. (15)
- 37 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people*)).ti,ab. (0)
- 38 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti,ab. (2)
- 39 ((avian or bird*) adj3 feather*).ti,ab. (7)
- 40 dander.ti,ab,sh. (0)
- 41 or/33-40 (135)
- 42 (heating or cooking).sh. (520)
- 43 (fossil fuels or coal or natural gas or wood).sh. (75)
- 44 (butane or propane).ti,ab,sh. (6)
- 45 (("lpg" or "liquid petroleum") not "lipophosphoglycan").ti,ab. (8)
- 46 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or burner* or boiler* or furnace* or appliance*)).ti,ab. (94)
- 47 or/42-46 (672)
- 48 paint.ti,ab,sh. (67)
- 49 adhesives.ti,ab,sh. (0)

- 50 "lead poisoning".ti,ab,sh. (19)
- 51 (dichloromethane or "methylene chloride").ti,ab,sh. (1)
- 52 household products.ti,ab,sh. (6)
- 53 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*").ti,ab,sh. (59)
- 54 floor*.sh. (268)
- 55 furnishings.ti,ab,sh. (36)
- 56 or/48-55 (446)
- 57 26 or 32 or 41 or 47 or 56 (3284)
- 58 (indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab,sh. (92757)
- 59 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*").ti,ab,sh. (456)
- 60 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters).ti,ab,sh. (11045)
- 61 "flats".ti,ab,sh. (849)
- 62 (garage* and (integral or integrated or attach*)).ti,ab. (2)
- 63 (caravan* or "mobile home*").ti,ab,sh. (199)
- 64 (boat or boats).ti,ab,sh. (59)
- 65 or/58-64 (94595)
- 66 (bedroom* or "bed room*").ti,ab,sh. (258)
- 67 (dormitory or dormitories).ti,ab,sh. (8)
- 68 ("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab,sh. (47)
- 69 (hall or halls or hallway* or stairwell*).ti,ab,sh. (376)
- 70 (kitchen* or "dining room*" or dining-room* or diningroom*).ti,ab,sh. (228)
- 71 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab,sh. (110)
- 72 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti,ab,sh. (3)
- 73 "utility room*".ti,ab,sh. (0)
- 74 or/66-73 (909)
- 75 65 or 74 (94906)

Indoor air quality at home
Search Strategies

- 76 57 and 75 (1557)
- 77 (indoor adj (environment or environments or exposure)).ti,ab,sh. (34)
- 78 ((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)).ti,ab,sh. (1093)
- 79 ("indoor air pollut*" or "indoor air quality").ti,ab,sh. (106)
- 80 (indoor adj (climate or climates)).ti,ab,sh. (0)
- 81 or/77-80 (1116)
- 82 76 not 81 (1130)

Database name: Cochrane (CDSR; Central; DARE; HTA; NHS EED)

The search below is a core set of pollutants and domestic settings, minus the broad set.

Strategy		
#1	[mh ^"air pollution"]	81
#2	[mh ^"air pollutants"]	229
#3	[mh ^"Air Pollution, Indoor"/AE]	79
#4	("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2):ti,ab	7132
#5	[mh ^"carbon dioxide"]	2703
#6	[mh ^"carbon monoxide"]	460
#7	[mh ^"nitrogen oxides"]	20
#8	[mh ^"nitrogen dioxide"]	65
#9	[mh ^ozone]	282
#10	("particulate matter*" or "particulate emission*" or particulates or "pm emission*"):ti,ab	245
#11	((fine or ultrafine) near (particulat* or particle*)):ti,ab	244
#12	("PM 2.5" or "PM2.5" or "PM(2.5)":ti,ab	100
#13	("PM 10" or "PM10" or "PM(10)":ti,ab	63
#14	[mh ^"particulate matter"]	110
#15	[mh ^"coal ash"]	0
#16	[mh ^smoke]	95
#17	[mh ^soot]	3
#18	((coal or fly or fuel) near/3 (ash or ashes)):ti,ab	3
#19	soot:ti,ab	3
#20	[mh ^"Volatile Organic Compounds"]	42
#21	(VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*"):ti,ab	127
#22	[mh ^"Benzene Derivatives"]	39
#23	[mh ^Benzene]	7
#24	[mh ^Naphthalenes]	690
#25	[mh ^tetrachloroethylene]	12

#26	[mh ^trichloroethylene]	30
#27	[mh ^formaldehyde]	133
#28	(benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*):ti,ab	310
#29	[mh ^"polyvinyl chloride"]	52
#30	"polyvinyl chloride*":ti,ab	99
#31	[mh ^"halogenated diphenyl ethers"]	4
#32	("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE"):ti,ab	11
#33	[mh ^"Flame Retardants"]	3
#34	[mh ^Plasticizers]	15
#35	(plasticiser* or plasticizer*):ti,ab	34
#36	[mh ^"dibutyl phthalate"]	3
#37	[mh ^"diethylhexyl phthalate"]	10
#38	(phthalate* or pthalate* or phtalate*):ti,ab	63
#39	[mh ^Styrene]	3
#40	styrene*:ti,ab	28
#41	[mh ^"polycyclic aromatic hydrocarbons"]	16
#42	[mh benzopyrenes]	10
#43	("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*):ti,ab	65
#44	[mh ^antiperspirants]	7
#45	[mh ^talc]	61
#46	[mh ^deodorants]	10
#47	[mh ^perfume]	29
#48	(anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*):ti,ab	208
#49	(limonene or pinene or carene):ti,ab	45
#50	[mh ^Odorants]	235
#51	"air freshener*":ti,ab	5
#52	(candle or candles):ti,ab	32
#53	[mh ^aerosols/AE]	25
#54	[mh ^toluene]	47

#55	toluene:ti,ab	77
#56	[mh ^solvents]	245
#57	solvent*:ti,ab	637
#58	{or #1-#57}	11983
#59	[mh ^Bacteria]	1578
#60	[mh ^fungi]	122
#61	[mh ^stachybotrys]	0
#62	[mh ^"air microbiology"]	70
#63	(biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*):ti,ab	17494
#64	[mh ^spores]	1
#65	[mh ^"spores, bacterial"]	13
#66	[mh ^"spores, fungal"]	9
#67	[mh ^Endotoxins]	354
#68	(mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation):ti,ab	2544
#69	"moisture damage*":ti,ab	6
#70	[mh ^humidity]	532
#71	{or #59-#70}	21031
#72	[mh ^dust]	289
#73	(dust or dusty or dustmite* or pyroglyphid* or dermatophagoid*):ti,ab	1668
#74	[mh Pyroglyphidae]	228
#75	(Cimex near (lectularius or hemipterus)):ti,ab	1
#76	[mh ^bedbugs]	2
#77	(bedbug* or "bed bug*"):ti,ab	5
#78	((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*):ti,ab	18
#79	((((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) near/5 (human* or people*)):ti,ab	0
#80	((cat* or dog* or animal* or pet or pets) near/3 (hair or hairs or fur)):ti,ab	24
#81	((avian or bird*) near/3 feather*):ti,ab	3
#82	[mh ^dander]	1

Indoor air quality at home
Search Strategies

#83	dander:ti,ab	109
#84	{or #72-#83}	1849
#85	[mh ^heating]	156
#86	[mh ^cooking]	243
#87	[mh "fossil fuels"]	41
#88	[mh ^coal]	4
#89	[mh ^"natural gas"]	0
#90	[mh ^wood]	49
#91	[mh ^butanes]	3
#92	[mh ^propane]	13
#93	(butane or propane):ti,ab	19
#94	((("lpg" or "liquid petroleum") not "lipophosphoglycan")):ti,ab	35
#95	((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) near/5 (cook* or heat* or stove* or burner* or boiler* or furnace* or appliance*)):ti,ab	294
#96	{or #85-#95}	786
#97	[mh ^paint]	54
#98	[mh ^adhesives]	261
#99	[mh "lead poisoning"]	27
#100	[mh ^Dichloromethane]	7
#101	[mh ^"Methylene Chloride"]	7
#102	(dichloromethane or "methylene chloride"):ti,ab	40
#103	[mh "household products"]	654
#104	(carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*"):ti,ab	111
#105	[mh ^"Floors and Floorcoverings"]	51
#106	[mh ^"Interior Design and Furnishings"]	87
#107	{or #97-#106}	1262
#108	#58 or #71 or #84 or #96 or #107	35870
#109	[mh ^housing]	283
#110	[mh "Residential Facilities"]	1778
#111	[mh "Nursing Homes"]	1368
#112	[mh ^"Housing for the Elderly"]	42

Indoor air quality at home
Search Strategies

#113	[mh ^"Public Housing"]	61
#114	(indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*):ti,ab	36433
#115	(towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*"):ti,ab	17
#116	(apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters):ti,ab	662
#117	"flats":ti,ab	5
#118	(garage* and (integral or integrated or attach*)):ti,ab	1
#119	(caravan* or "mobile home*"):ti,ab	2
#120	(boat or boats):ti,ab	38
#121	{or #109-#120}	37089
#122	(bedroom* or "bed room*"):ti,ab	170
#123	(dormitory or dormitories):ti,ab	81
#124	("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge):ti,ab	75
#125	(hall or halls or hallway* or stairwell*):ti,ab	270
#126	(kitchen* or "dining room*" or dining-room* or diningroom*):ti,ab	171
#127	("bath room*" or bathroom* or "shower room*" or "shower-room*"):ti,ab	67
#128	(cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*"):ti,ab	1
#129	"utility room*":ti,ab	0
#130	{or #122-#129}	763
#131	#121 or #130	37589
#132	#108 and #131	2358
#133	(indoor next (environment or environments or exposure)):ti,ab	45
#134	((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)):ti,ab	2047
#135	("indoor air pollut*" or "indoor air quality"):ti,ab	82
#136	(indoor next (climate or climates)):ti,ab	9
#137	[mh "Air Pollution, Indoor"]	187
#138	{or #133-#137}	2166

Indoor air quality at home
Search Strategies

#139	#132 and #138	591
------	---------------	-----

#140	#132 not #138	1763
------	---------------	------

(1763 is the number downloaded, including NHS EED and HTA)

Database name: Greenfile

This is a core search set

Strategy
S16 (S9 and S15) not (S6) Search modes - Boolean/Phrase (594)
S15 (S10 or S11 or S12 or S13 or S14) Search modes - Boolean/Phrase (59972)
S14 signs and symptoms Search modes - Boolean/Phrase (235)
S13 diagnosis Search modes - Boolean/Phrase Interface (2010)
S12 aetiology Search modes - Boolean/Phrase (684)
S11 risk Search modes - Boolean/Phrase (57949)
S10 risk factors Search modes - Boolean/Phrase (4245)
S9 (S7 or S8) Search modes - Boolean/Phrase (3671)
S8 indoor air quality Search modes - Boolean/Phrase (2395)
S7 indoor air pollution Search modes - Boolean/Phrase (1981)
S6 (S1 OR S2 OR S3 OR S4 OR S5) Search modes - Boolean/Phrase (31502)
S5 work environment Search modes - Boolean/Phrase (1443)
S4 factory Search modes - Boolean/Phrase (11098)
S3 office environment Search modes - Boolean/Phrase (132)
S2 office Search modes - Boolean/Phrase (18524)
S1 radon Search modes - Boolean/Phrase (952)

Database name: OpenGrey

This is a core search set

Strategy
keyword:(INDOOR AIR QUALITY) OR keyword:(INDOOR AIR POLLUTION) = 70 limit to eng lang = 26 Manually filtered: <ul style="list-style-type: none">• Not actually in English = 17

Indoor air quality at home
Search Strategies

- Thesis = 8
- Report = 1 (downloaded from Scholar as an EN import)

Website name: Google

This is a core set search

Protocol: Google and Google scholar (with appropriate limits and looking specifically for reports or evaluations of interventions related to indoor air quality)

Strategy
Exact word or phrase: indoor air
Any of these words: quality pollution
None of these words: radon factory office
Terms appearing: title of page
Language: English
Strategy run: 20180405
First 50 results recorded
19 results downloaded plus two created manually.

Website name: Google Scholar

This is a core set search

Protocol: Google and Google scholar (with appropriate limits and looking specifically for reports or evaluations of interventions related to indoor air quality)

Strategy
Exact word or phrase: indoor air
Any of these words: quality pollution
None of these words: radon factory office
Terms appearing: title of page
Articles dated between: 1970-2018
Strategy run: 20180406
First 50 results recorded

20 results downloaded.

Website name: Web of Science

This is a core set search

Strategy

- | | | |
|------|---------|--|
| # 46 | 479 | #45 AND #42 |
| # 45 | 742,047 | #44 OR #43 |
| # 44 | 1,205 | ((TI=("signs and symptoms"))) AND LANGUAGE: (English) |
| # 43 | 740,899 | ((TI=("risk factors" OR risk OR aetiology OR diagnosis))) AND LANGUAGE: (English) |
| # 42 | 13,856 | (#41 AND #36) AND LANGUAGE: (English) |
| # 41 | 266,028 | (#40 OR #39) AND LANGUAGE: (English) |
| # 40 | 24,585 | ((TI=(bedroom* or "bed room*" OR dormitory or dormitories OR "drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge OR hall or halls or hallway* or stairwell* OR kitchen* or "dining room*" or dining-room* or Diningroom* OR "bath room*" or bathroom* or "shower room*" or "shower-room*" OR cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*" OR "utility room*"))) AND LANGUAGE: (English) |
| # 39 | 242,114 | #38 OR #37 |
| # 38 | 13,606 | ((TI=(towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*" or apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters or "flats" or garage or caravan* or "mobile home*" or boat or boats)))) AND LANGUAGE: (English) |
| # 37 | 230,987 | ((TI=(indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*)))) AND LANGUAGE: (English) |
| # 36 | 975,717 | #35 OR #34 OR #30 OR #22 OR #17 |
| # 35 | 43,042 | ((TI=(paint or adhesive or "lead poisoning*" or dichloromethane or "methylene chloride" or "household product" or carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*" or furnishing))) AND LANGUAGE: (English) |
| # 34 | 22,555 | #33 OR #32 OR #31 |

Indoor air quality at home
Search Strategies

- # 33 12,318 ((TI=((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) AND (cook* or heat* or stove* or burner* or boiler* or furnace* or appliance*)))) AND LANGUAGE: (English)
- # 32 978 ((TI=("lpg" or "liquid petroleum") not "lipophosphoglycan")) AND LANGUAGE: (English)
- # 31 9,288 ((TI=(butane or propane))) AND LANGUAGE: (English)
- # 30 41,564 #29 OR #28 OR #27 OR #26 OR #25 OR #24 OR #23
- # 29 122 ((TI=dander)) AND LANGUAGE: (English)
- # 28 679 ((TI=((avian or bird*) AND feather*))) AND LANGUAGE: (English)
- # 27 854 ((TI=((cat* or dog* or animal* or pet or pets) AND (hair or hairs or fur)))) AND LANGUAGE: (English)
- # 26 5,400 ((TI=((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (infest* or transmit* or transmission or spread*)))) AND LANGUAGE: (English)
- # 25 476 ((TI=(bedbug* or "bed bug*"))) AND LANGUAGE: (English)
- # 24 218 ((TI=(Cimex AND (lectularius or hemipterus)))) AND LANGUAGE: (English)
- # 23 34,010 ((TI=(dust or dusty or dustmite* or pyroglyphid* or dermatophagoid*))) AND LANGUAGE: (English)
- # 22 384,125 #21 OR #20 OR #19 OR #18
- # 21 10,618 ((TI= ("moisture damage*" or humidity))) AND LANGUAGE: (English)
- # 20 86,746 ((TI=(mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation))) AND LANGUAGE: (English)
- # 19 12,480 ((TI=Endotoxin*)) AND LANGUAGE: (English)
- # 18 286,881 ((TI=("biological agent*" or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*))) AND LANGUAGE: (English)
- # 17 498,260 #16 OR #15 OR #14 OR #13 OR #12 OR #11 OR #10 OR #9 OR #8 OR #7 OR #6 OR #5 OR #4 OR #3 OR #2 OR #1
- # 16 78,442 ((TI=(toluene OR solvent*))) AND LANGUAGE: (English)
- # 15 39,227 ((TI=(limonene or pinene or carene OR odorant* or odourant* OR "air freshener*" OR candle or candles OR aerosol*))) AND LANGUAGE: (English)
- # 14 2,473 ((TI=(anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant* or perfume*))) AND LANGUAGE: (English)
- # 13 38,166 ((TI=(plasticiser* or plasticizer* OR phthalate* or phtalate* or phtalate* OR Styrene* OR "polycyclic aromatic hydrocarbon*" or "polynuclear aromatic

Indoor air quality at home
Search Strategies

- hydrocarbon*" or benzopyrene* or benzoapyrene*)) AND LANGUAGE: (English)
- # 12 9,616 ((TI=("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE")) AND LANGUAGE: (English)
- # 11 1,145 ((TI=("polyvinyl chloride")) AND LANGUAGE: (English)
- # 10 45,217 ((TI= (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*)) AND LANGUAGE: (English)
- # 9 8,955 ((TI= (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*")) AND LANGUAGE: (English)
- # 8 10,272 ((TI= ((coal or fly or fuel) AND (ash or ashes)))) AND LANGUAGE: (English)
- # 7 72,418 ((TI=(smoke or soot))) AND LANGUAGE: (English)
- # 6 80,307 ((TI=("particulate matter" or "coal ash" or smoke or soot))) AND LANGUAGE: (English)
- # 5 5,734 ((TI= ("PM 2.5" or "PM2.5" or "PM(2.5)" or "PM 10" or "PM10" or "PM(10)")) AND LANGUAGE: (English)
- # 4 7,590 ((TI= ((fine or ultrafine) AND (particulat* or particle*)))) AND LANGUAGE: (English)
- # 3 22,041 ((TI= ("particulate matter*" or "particulate emission*" or particulates or "pm emission*")) AND LANGUAGE: (English)
- # 2 157,920 ((TI= ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2))) AND LANGUAGE: (English)
- # 1 17,570 (((TI=("AIR QUALITY" OR "AIR POLLUTION")))) AND LANGUAGE: (English)

3RQ3.2

RQ3.2 What are the effective occupant behaviour interventions to reduce or prevent the health impacts of poor indoor air quality at home?

Flowchart

Total set

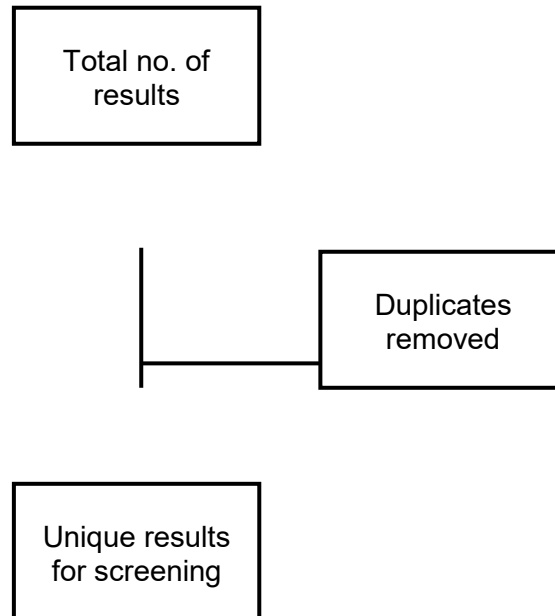


Table of results

Database name	Date searched	Database Platform	Database segment or version	No. of results
Medline	20180607	OVID	Ovid MEDLINE(R) <1946 to Present with Daily Update>	5350
Embase	20180608	OVID	Embase <1974 to 2018 June 07	4757

Indoor air quality at home
Search Strategies

Health Management Information Consortium (HMIC)	30/3/18	OVID	HMIC Health Management Information Consortium 1979 to January 2018	359
Social Policy & Practice (SPP)	29/03/18	OVID	Social Policy and Practice 201801	1130
CDSR	3/4/18	Wiley	Cochrane Database of Systematic Reviews : Issue 4 of 12, April 2018	37
CENTRAL	3/4/18	Wiley	Cochrane Central Register of Controlled Trials : Issue 3 of 12, March 2018	1708
DARE	3/4/18	Wiley	Database of Abstracts of Reviews of Effect : Issue 2 of 4, April 2015	12
HTA	3/4/18	Wiley	Health Technology Assessment Database : Issue 4 of 4, October 2016	3
NHS EED	3/4/18	Wiley	NHS Economic Evaluation Database : Issue 2 of 4, April 2015	3
Greenfile	29/3/18	Ebsco	Greenfile	594
WoS	5/4/18			479
Google	5/4/18			21
Google Scholar	5/4/18			20
OpenGrey	3/4/18			1
Total: 14474				

NB the results from Cochrane, HMIC, SPP, Greenfile, WoS, Google, and Google Scholar were all downloaded from the RQ1/RQ2 search as they were a 'core set' search. This is reflected in the search dates.

Database strategies

Database name: Medline

Strategy
Database: Ovid MEDLINE(R) <1946 to Present with Daily Update> -----
1 air pollution/ (26686)
2 limit 1 to yr="1970 - 1991" (6547)
3 air pollutants/ (39818)
4 Air Pollution, Indoor/ae (3189)
5 ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti,ab. (135346)
6 carbon dioxide/ or carbon monoxide/ or nitrogen oxides/ or nitrogen dioxide/ or ozone/ (118949)
7 ("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti,ab. (16463)
8 ((fine or ultrafine) adj (particulat* or particle*)).ti,ab. (6345)
9 "PM 2.5".ti,ab. (1542)
10 "PM2.5".ti,ab. (5232)
11 "PM(2.5)".ti,ab. (1542)
12 "PM 10".ti,ab. (1541)
13 "PM10".ti,ab. (3837)
14 "PM(10)".ti,ab. (1541)
15 particulate matter/ or coal ash/ or smoke/ or soot/ (22264)
16 ((coal or fly or fuel) adj3 (ash or ashes)).ti,ab. (2988)
17 soot.ti,ab. (1336)
18 Volatile Organic Compounds/ (6829)
19 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti,ab. (7410)
20 Benzene Derivatives/ or Benzene/ (14628)
21 Naphthalenes/ or tetrachloroethylene/ or trichloroethylene/ or formaldehyde/ (44114)

- 22 (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti,ab. (51361)
- 23 polyvinyl chloride/ or "polyvinyl chloride*".ti,ab. (4548)
- 24 halogenated diphenyl ethers/ (3519)
- 25 ("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE").ti,ab. (6288)
- 26 Flame Retardants/ (3024)
- 27 Plasticizers/ (2320)
- 28 (plasticiser* or plasticizer*).ti,ab. (3322)
- 29 dibutyl phthalate/ or diethylhexyl phthalate/ or (phthalate* or phtalate* or phtalate*).ti,ab. (7741)
- 30 Styrene/ or styrene*.ti,ab. (7019)
- 31 polycyclic aromatic hydrocarbons/ or benzopyrenes/ (17389)
- 32 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*).ti,ab. (17239)
- 33 antiperspirants/ or talc/ or deodorants/ or perfume/ (4312)
- 34 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab. (2874)
- 35 (limonene or pinene or carene).ti,ab. (4182)
- 36 Odorants/ (16354)
- 37 "air freshener*".ti,ab. (94)
- 38 (candle or candles).ti,ab. (701)
- 39 aerosols/ae (686)
- 40 toluene/ or toluene.ti,ab. (15420)
- 41 solvents/ or solvent*.ti,ab. (124211)
- 42 40 or 41 (136203)
- 43 substance-related disorders/ or inhalant abuse/ (89538)
- 44 ("glue sniff*" or "glue-sniff*" or "solvent abuse*" or "solvent-abuse*").ti,ab. (377)
- 45 43 or 44 (89593)
- 46 42 not 45 (135055)
- 47 or/2-39 (406899)
- 48 46 or 47 (525263)
- 49 Bacteria/ or fungi/ or stachybotrys/ or air microbiology/ (165874)
- 50 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti,ab. (745140)
- 51 spores/ or spores, bacterial/ or spores, fungal/ (26490)
- 52 Endotoxins/ (24674)

- 53 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti,ab. (84536)
- 54 "moisture damage*".ti,ab. (121)
- 55 humidity/ (15104)
- 56 or/49-55 (905044)
- 57 (dust or dusty or dustmite*).ti,ab. or dust/ (36066)
- 58 exp Pyroglyphidae/ (2497)
- 59 (Dermatophagoid* or pyroglyphid*).ti,ab. (3741)
- 60 (Cimex adj (lectularius or hemipterus)).ti,ab. (346)
- 61 bedbugs/ or (bedbug * or " bed bug").ti,ab. (697)
- 62 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti,ab. (2114)
- 63 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people)).ti,ab. (6232)
- 64 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti,ab. (1593)
- 65 ((avian or bird*) adj3 feather*).ti,ab. (546)
- 66 dander/ or dander.ti,ab. (866)
- 67 or/57-66 (49240)
- 68 heating/ or cooking/ (15324)
- 69 fossil fuels/ or coal/ or natural gas/ or wood/ (17078)
- 70 butanes/ or propane/ or (butane or propane).ti,ab. (6968)
- 71 ((lpg or "liquid petroleum") not "lipophosphoglycan").ti,ab. (655)
- 72 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or burner* or boiler* or furnace*)).ti,ab. (4614)
- 73 or/68-72 (42478)
- 74 paint/ (3303)
- 75 adhesives/ (6077)
- 76 exp lead poisoning/ (11535)
- 77 Dichloromethane/ or Methylene Chloride/ (1834)
- 78 (dichloromethane or "methylene chloride").ti,ab. (7961)
- 79 exp household products/ (40343)
- 80 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering").ti,ab. (2587)
- 81 "Floors and Floorcoverings"/ (1942)
- 82 "Interior Design and Furnishings"/ (4366)

- 83 or/74-82 (76983)
- 84 48 or 56 or 67 or 73 or 83 (1517238)
- 85 housing/ (16032)
- 86 exp Residential Facilities/ (49014)
- 87 exp Nursing Homes/ (36561)
- 88 Housing for the Elderly/ (1563)
- 89 Public Housing/ (1262)
- 90 (indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab. (446701)
- 91 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*").ti,ab. (529)
- 92 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters).ti,ab. (10701)
- 93 flats.ti,ab. (789)
- 94 (garage* and (integral or integrated or attach*)).ti,ab. (44)
- 95 (caravan* or "mobile home*").ti,ab. (185)
- 96 (boat or boats or houseboat*).ti. (573)
- 97 or/85-96 (480328)
- 98 (bedroom* or "bed room*").ti,ab. (1907)
- 99 (dormitory or dormitories).ti,ab. (467)
- 100 ("drawing room*" or drawingroom* or "drawing-room*" or front room*" or frontroom* or "front-room*" or sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab. (885)
- 101 (hall or halls or hallway* or stairwell*).ti,ab. (5189)
- 102 (kitchen* or "dining room*" or dining-room* or diningroom*).ti,ab. (3803)
- 103 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab. (1155)
- 104 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti,ab. (79)
- 105 "utility room*".ti,ab. (17)
- 106 or/98-105 (12571)
- 107 97 or 106 (488987)
- 108 Housing, Animal/ (10313)
- 109 Livestock/ or cattle/ or exp goats/ or exp sheep/ or swine/ or sus scrofa/ or swine, miniature/ (629508)
- 110 (pig or pigs or goat or goats or sheep or cow or cows).ti,ab. (328259)
- 111 or/108-110 (759673)

Indoor air quality at home
Search Strategies

- 112 107 not 111 (467892)
- 113 84 and 112 (46945)
- 114 limit 113 to english language (42470)
- 115 limit 114 to yr="1970 -Current" (42105)
- 116 limit 115 to (case reports or clinical conference or comment or editorial or interview or letter or news or newspaper article) (1808)
- 117 115 not 116 (40297)
- 118 counseling/ (33135)
- 119 Directive Counseling/ (2119)
- 120 Motivation/ (60448)
- 121 Interview, psychological/ (14568)
- 122 Health Behavior/ (44636)
- 123 Health Knowledge, Attitudes, Practice/ (96577)
- 124 health promotion/ (66681)
- 125 health education/ (57750)
- 126 (health adj3 (promot* or educat* or behavio?r* or knowledge or counsel* or attitud*)).ti,ab. (117990)
- 127 ((behavio?r* or lifestyle* or "life style*" or brief) adj3 (change* or changing or modification* or modify or modifying or program* or intervention* or counsel* or improv* or adjust*)).ti,ab. (104676)
- 128 ((occupan* or householder* or "house holder*" or homeowner* or "home owner*" or resident or residents or tenant*) adj3 behavio?r*).ti,ab. (1158)
- 129 primary prevention/ (16802)
- 130 Preventive Health Services/ (12464)
- 131 Harm Reduction/ (2449)
- 132 ((exposure or harm or risk or damage) adj5 (prevent* or reduc* or less or lessen* or lower*)).ti,ab. (256680)
- 133 or/118-132 (728303)
- 134 ((cook* or stove* or kitchen or oven or ovens or hob or hobs*) adj5 (fan or fans or extractor* or extraction or canopy* or filter* or hood or hoods or chimney* or island* or vapour or vapours or recirculat* or re-circulat*)).ti,ab. (560)
- 135 ((good or high* or adequat* or well or increas*) adj3 (ventilat* or heating or (air adj3 circulat*))).ti,ab. (16171)
- 136 ((open* or close or closed or closing or shut or shutting or ajar) adj4 (window* or door*)).ti,ab. (8808)
- 137 (fresh* adj3 air).ti,ab. (850)
- 138 temperature/ and (control* or regulat*).ti,ab. (35072)

- 139 ((temperature or thermo* or heating or heat) adj3 (control* or regulat* or adjust* or "turn* up" or "turn* down")),ti,ab. (20145)
- 140 or/134-139 (76352)
- 141 laundering/ and (moisture or wet or condensation or water or liquid or dry* or dried or damp or dampness).ti,ab. (273)
- 142 ((clothes or clothing or washing or laundry) adj3 (moisture or wet or condensation or water or liquid or dry* or dried or damp or dampness or airer* or "clotheshorse*" or "clothes horse*" or "clothes-horse*" or line or rack or racks or stand or stands or flue or flues or vent or vents)).ti,ab. (1678)
- 143 141 or 142 (1879)
- 144 antiperspirants/ or talc/ or deodorants/ or perfume/ (4312)
- 145 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab. (2874)
- 146 (limonene or pinene or carene).ti,ab. (4182)
- 147 Odorants/ (16354)
- 148 "air freshener*".ti,ab. (94)
- 149 (candle or candles).ti,ab. (701)
- 150 ((low or reduc* or decreas*) adj3 (emission* or emitting) adj3 (VOC or VOCs or TVOC or TVOCs or NMVOC or NMVOCs)).ti,ab. (61)
- 151 or/144-150 (26303)
- 152 housekeeping/ (1569)
- 153 "Bedding and Linens"/ and (clean or cleaning or wash* or change*).ti,ab. (461)
- 154 ((bedding or "bed linen*" or "bed cover*" or duvet* or counterpane* or quilt or quilts or bedspread* or blanket or blankets or coverlet* or pillow or pillows or "pillowcase*" or "pillow case*" or sheet or sheets) adj5 (clean or cleaning or wash* or change* or changing)).ti,ab. (916)
- 155 (housekeeping or cleaning or vacuum* or "vacuum cleaner*" or Hoover* or dusting or sweeper or sweeping).ti,ab. (47076)
- 156 or/152-155 (49349)
- 157 exp Pyroglyphidae/ or (dustmite* or "dust mite*" or dermatophagoid* or pyroglyphid*).ti,ab. (8658)
- 158 156 and 157 (310)
- 159 pesticides/ or acaricides/ or insect repellents/ or insecticides/ or rodenticides/ (63172)
- 160 (pesticide* or insecticide* or acaricide* or "insect repellent*" or rodenticide*).ti,ab. (60370)
- 161 159 or 160 (85817)
- 162 Volatile Organic Compounds/ (6829)
- 163 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti,ab. (7410)

Indoor air quality at home
Search Strategies

- 164 ventilat*.ti,ab. (135234)
- 165 or/162-164 (145986)
- 166 161 and 165 (534)
- 167 ((heating or heater or boiler* or burner* or furnace*) adj5 (maintain* or maintenance or upkeep* or servicing or serviced)).ti,ab. (222)
- 168 ((cook* or stove* or kitchen or oven or ovens or hob or hobs*) adj5 (maintain* or maintenance or upkeep* or servicing or serviced)).ti,ab. (109)
- 169 ("appliance*" adj5 (maintain* or maintenance or upkeep* or servicing or serviced)).ti,ab. (84)
- 170 (filter* adj5 (maintain* or maintenance or upkeep* or servicing or serviced)).ti,ab. (326)
- 171 or/167-170 (739)
- 172 112 and 171 (77)
- 173 (incense or joss stick*).ti,ab. (359)
- 174 limit 173 to humans (224)
- 175 172 or 174 (301)
- 176 limit 175 to english language (274)
- 177 limit 176 to yr="1970 -Current" (271)
- 178 limit 177 to (case reports or clinical conference or comment or editorial or interview or letter or news or newspaper article) (28)
- 179 177 not 178 (243)
- 180 133 or 140 or 143 or 151 or 158 or 166 (830555)
- 181 117 and 180 (5148)
- 182 179 or 181 (5350)

Database name: Embase

Strategy
Database: Embase <1974 to 2018 June 07>

1 air pollution/ (60369)
2 limit 1 to yr="1970 - 1991" (13846)
3 air pollutant/ (28699)
4 indoor air pollution/ae (1860)
5 ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti,ab. (221925)
6 carbon dioxide/ or carbon monoxide/ or nitrogen oxides/ or nitrogen dioxide/ or ozone/ (160433)
7 ("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti,ab. (27705)
8 ((fine or ultrafine) adj (particulat* or particle*)).ti,ab. (11197)
9 "PM 2.5".ti,ab. (1143)
10 "PM2.5".ti,ab. (10828)
11 "PM(2.5)".ti,ab. (1143)
12 "PM 10".ti,ab. (1147)
13 "PM10".ti,ab. (8376)
14 "PM(10)".ti,ab. (1147)
15 particulate matter/ or fly ash/ or smoke/ or soot/ (53198)
16 ((coal or fly or fuel) adj3 (ash or ashes)).ti,ab. (5765)
17 soot.ti,ab. (3568)
18 Volatile Organic Compound/ (14715)
19 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti,ab. (13586)
20 Benzene Derivative/ or Benzene/ (33138)
21 Naphthalene/ or tetrachloroethylene/ or trichloroethylene/ or formaldehyde/ (69558)
22 (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti,ab. (78245)
23 polyvinylchloride/ or "polyvinyl chloride*").ti,ab. (8966)
24 diphenyl ether derivative/ (1614)
25 ("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE").ti,ab. (7973)
26 Flame Retardant/ (3588)
27 Plasticizer/ (4366)

- 28 (plasticiser* or plasticizer*).ti,ab. (5403)
- 29 phthalic acid dibutyl ester/ or "phthalic acid bis(2 ethylhexyl) ester"/ or (phthalate* or pthalate* or phtalate*).ti,ab. (12315)
- 30 Styrene/ or styrene*.ti,ab. (13435)
- 31 polycyclic aromatic hydrocarbon/ or "benzo[a]pyrene derivative"/ (29238)
- 32 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*).ti,ab. (24126)
- 33 antiperspirant agent/ or talc/ or deodorant agent/ or perfume/ (7432)
- 34 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab. (4593)
- 35 (limonene or pinene or carene).ti,ab. (7656)
- 36 fragrance/ (4455)
- 37 "air freshener*".ti,ab. (164)
- 38 (candle or candles).ti,ab. (1113)
- 39 aerosol/ae (303)
- 40 toluene/ or toluene.ti,ab. (27920)
- 41 solvent/ or solvent*.ti,ab. (181687)
- 42 40 or 41 (203291)
- 43 drug dependence/ or inhalant abuse/ or substance abuse/ (94651)
- 44 ("glue sniff*" or "glue-sniff*" or "solvent abuse*" or "solvent-abuse*").ti,ab. (507)
- 45 43 or 44 (95037)
- 46 42 not 45 (202272)
- 47 or/2-39 (591408)
- 48 46 or 47 (764580)
- 49 bacterium/ or fungus/ or Stachybotrys/ or microbiology/ (441067)
- 50 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti,ab. (985747)
- 51 bacterial spore/ or fungus spore/ (21673)
- 52 Endotoxin/ (36072)
- 53 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti,ab. (128985)
- 54 "moisture damage*".ti,ab. (164)
- 55 humidity/ (29633)
- 56 or/49-55 (1388058)
- 57 (dust or dusty or dustmite*).ti,ab. or dust/ (53961)
- 58 exp Pyroglyphidae/ (10317)

Indoor air quality at home
Search Strategies

- 59 (Dermatophagoid* or pyroglyphid*).ti,ab. (5487)
- 60 (Cimex adj (lectularius or hemipterus)).ti,ab. (397)
- 61 Cimex/ or (bedbug* or "bed bug*").ti,ab. (851)
- 62 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti,ab. (2452)
- 63 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people)).ti,ab. (9124)
- 64 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti,ab. (2185)
- 65 ((avian or bird*) adj3 feather*).ti,ab. (684)
- 66 dander/ or dander.ti,ab. (1981)
- 67 or/57-66 (73608)
- 68 heating/ or cooking/ (40554)
- 69 fossil fuel/ or coal/ or natural gas/ or wood/ (25830)
- 70 butane/ or propane/ or (butane or propane).ti,ab. (11872)
- 71 ((lpg or "liquid petroleum") not "lipophosphoglycan").ti,ab. (1092)
- 72 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or burner* or boiler* or furnace*)).ti,ab. (8390)
- 73 or/68-72 (83038)
- 74 paint/ (5268)
- 75 adhesive agent/ (11224)
- 76 exp lead poisoning/ (12338)
- 77 Dichloromethane/ (11283)
- 78 (dichloromethane or "methylene chloride").ti,ab. (14232)
- 79 exp domestic chemical/ (17516)
- 80 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*").ti,ab. (3726)
- 81 building/ or building material/ (11562)
- 82 furniture/ (4405)
- 83 or/74-82 (81458)
- 84 48 or 56 or 67 or 73 or 83 (2258973)
- 85 housing/ (21197)
- 86 exp residential home/ (6786)
- 87 exp Nursing Home/ (49713)
- 88 home for the aged/ (11661)

- 89 (indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab. (660803)
- 90 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*").ti,ab. (842)
- 91 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters).ti,ab. (14890)
- 92 flats.ti,ab. (1217)
- 93 (garage* and (integral or integrated or attach*)).ti,ab. (76)
- 94 (caravan* or "mobile home*").ti,ab. (270)
- 95 (boat or boats or houseboat*).ti. (765)
- 96 or/85-95 (699874)
- 97 (bedroom* or "bed room*").ti,ab. (2960)
- 98 (dormitory or dormitories).ti,ab. (738)
- 99 ("drawing room*" or drawingroom* or "drawing-room*" or front room*" or frontroom* or "front-room*" or sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab. (1328)
- 100 (hall or halls or hallway* or stairwell*).ti,ab. (8357)
- 101 (kitchen* or "dining room*" or dining-room* or diningroom*).ti,ab. (5720)
- 102 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab. (2004)
- 103 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti,ab. (139)
- 104 "utility room*".ti,ab. (32)
- 105 or/97-104 (19818)
- 106 96 or 105 (713683)
- 107 animal housing/ (9005)
- 108 livestock/ or bovine/ or pig/ or minipig/ (55093)
- 109 exp goat/ or exp sheep/ (130672)
- 110 (pig or pigs or goat or goats or sheep or cow or cows).ti,ab. (384851)
- 111 or/107-110 (475211)
- 112 106 not 111 (693117)
- 113 84 and 112 (79013)
- 114 limit 113 to english language (71396)
- 115 limit 114 to yr="1970 -Current" (70963)
- 116 limit 115 to (conference abstract or conference paper or "conference review" or editorial or letter) (14562)
- 117 115 not 116 (56401)

- 118 counseling/ (57994)
- 119 Directive Counseling/ (784)
- 120 Motivation/ (92670)
- 121 psychological interview/ (545)
- 122 Health Behavior/ (58649)
- 123 attitude to health/ (101620)
- 124 health promotion/ (87685)
- 125 health education/ (92081)
- 126 (health adj3 (promot* or educat* or behavio?r* or knowledge or counsel* or attitud*)).ti,ab. (161441)
- 127 ((behavio?r* or lifestyle* or "life style*" or brief) adj3 (change* or changing or modification* or modify or modifying or program* or intervention* or counsel* or improv* or adjust*)).ti,ab. (160917)
- 128 ((occupan* or householder* or "house holder*" or homeowner* or "home owner*" or resident or residents or tenant*) adj3 behavio?r*).ti,ab. (1633)
- 129 primary prevention/ (36289)
- 130 Preventive Health Service/ (26180)
- 131 Harm Reduction/ (4720)
- 132 ((exposure or harm or risk or damage) adj5 (prevent* or reduc* or less or lessen* or lower*)).ti,ab. (406170)
- 133 or/118-132 (1072937)
- 134 ((cook* or stove* or kitchen or oven or ovens or hob or hobs*) adj5 (fan or fans or extractor* or extraction or canopy* or filter* or hood or hoods or chimney* or island* or vapour or vapours or recirculat* or re-circulat*)).ti,ab. (822)
- 135 ((good or high* or adequat* or well or increas*) adj3 (ventilat* or heating or (air adj3 circulat*))).ti,ab. (24211)
- 136 ((open* or close or closed or closing or shut or shutting or ajar) adj4 (window* or door*)).ti,ab. (13308)
- 137 (fresh* adj3 air).ti,ab. (1381)
- 138 temperature/ and (control* or regulat*).ti,ab. (38214)
- 139 ((temperature or thermo* or heating or heat) adj3 (control* or regulat* or adjust* or "turn* up" or "turn* down")).ti,ab. (27809)
- 140 or/134-139 (99384)
- 141 laundry/ and (moisture or wet or condensation or water or liquid or dry* or dried or damp or dampness).ti,ab. (511)
- 142 ((clothes or clothing or washing or laundry or laundering) adj3 (moisture or wet or condensation or water or liquid or dry* or dried or damp or dampness or ainer* or "clotheshorse*" or "clothes horse*" or "clothes-horse*" or line or rack or racks or stand or stands or flue or flues or vent or vents)).ti,ab. (2580)
- 143 141 or 142 (2915)

- 144 antiperspirant agent/ or talc/ or deodorant agent/ or perfume/ (7432)
- 145 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab. (4593)
- 146 (limonene or pinene or carene).ti,ab. (7656)
- 147 fragrance/ (4455)
- 148 "air freshener*".ti,ab. (164)
- 149 (candle or candles).ti,ab. (1113)
- 150 ((low or reduc* or decreas*) adj3 (emission* or emitting) adj3 (VOC or VOCs or TVOC or TVOCs or NMVOC or NMVOCs)).ti,ab. (141)
- 151 or/144-150 (21686)
- 152 housekeeping/ (360)
- 153 Bed/ and (clean or cleaning or wash* or change*).ti,ab. (570)
- 154 ((bedding or "bed linen*" or "bed cover*" or duvet* or counterpane* or quilt or quilts or bedspread* or blanket or blankets or coverlet* or pillow or pillows or "pillowcase*" or "pillow case*" or sheet or sheets) adj5 (clean or cleaning or wash* or change* or changing)).ti,ab. (1301)
- 155 (housekeeping or cleaning or vacuum* or "vacuum cleaner*" or Hoover* or dusting or sweeper or sweeping).ti,ab. (72729)
- 156 or/152-155 (74549)
- 157 exp Pyroglyphidae/ or (dustmite* or "dust mite*" or dermatophagoid* or pyroglyphid*).ti,ab. (15865)
- 158 156 and 157 (413)
- 159 pesticide/ or acaricide/ or insect repellent/ or insecticide/ or rodenticide/ (68810)
- 160 (pesticide* or insecticide* or acaricide* or "insect repellent*" or rodenticide*).ti,ab. (82131)
- 161 159 or 160 (108112)
- 162 Volatile Organic Compound/ (14715)
- 163 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product").ti,ab. (13586)
- 164 ventilat*.ti,ab. (213526)
- 165 or/162-164 (232212)
- 166 161 and 165 (935)
- 167 ((heating or heater or boiler* or burner* or furnace*) adj5 (maintain* or maintenance or upkeep* or servicing or serviced)).ti,ab. (360)
- 168 ((cook* or stove* or kitchen or oven or ovens or hob or hobs*) adj5 (maintain* or maintenance or upkeep* or servicing or serviced)).ti,ab. (178)
- 169 ("appliance*" adj5 (maintain* or maintenance or upkeep* or servicing or serviced)).ti,ab. (116)

- 170 (filter* adj5 (maintain* or maintenance or upkeep* or servicing or serviced)).ti,ab. (503)
- 171 or/167-170 (1152)
- 172 112 and 171 (123)
- 173 incense/ or (incense or joss stick*).ti,ab. (631)
- 174 limit 173 to humans (342)
- 175 172 or 174 (465)
- 176 limit 175 to english language (414)
- 177 limit 176 to yr="1970 -Current" (413)
- 178 limit 177 to (conference abstract or conference paper or "conference review" or editorial or letter) (112)
- 179 177 not 178 (301)
- 180 133 or 140 or 143 or 151 or 158 or 166 (1194204)
- 181 117 and 180 (6110)
- 182 179 or 181 (6374)
- 183 limit 182 to medline (1617)
- 184 182 not 183 (4757)

Database name: HMIC

Strategy

-
- 1 air pollution/ or air quality/ (634)
- 2 ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti,ab. (503)
- 3 carbon dioxide/ or carbon monoxide/ or nitrogen oxides/ or nitrogen dioxide/ or ozone/ (216)
- 4 ("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti,ab. (134)
- 5 ((fine or ultrafine) adj (particulat* or particle*)).ti,ab,sh. (43)
- 6 ("PM 2.5" or "PM2.5" or "PM(2.5)").ti,ab. (47)

- 7 ("PM 10" or "PM10" or "PM(10)").ti,ab. (42)
- 8 particulate matter/ or coal ash/ or smoke/ or soot/ (30)
- 9 ((coal or fly or fuel) adj3 (ash or ashes)).ti,ab. (7)
- 10 soot.ti,ab. (13)
- 11 Volatile Organic Compounds/ (0)
- 12 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti,ab,sh. (21)
- 13 Benzene Derivatives/ or Benzene/ (77)
- 14 Naphthalenes/ or tetrachloroethylene/ or trichloroethylene/ or formaldehyde/ (196)
- 15 (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti,ab. (350)
- 16 polyvinyl chloride/ or "polyvinyl chloride*".ti,ab. (56)
- 17 ("flame retard*" or "fire resist*" or "diphenyl ether*" or "PBDE").ti,ab. (46)
- 18 flame retardants/ (10)
- 19 (plasticiser* or plasticizer*).ti,ab. (8)
- 20 (phthalate* or pthalate* or phtalate*).ti,ab,sh. (29)
- 21 Styrene/ or styrene*.ti,ab. (60)
- 22 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*).ti,ab. (64)
- 23 antiperspirants/ or talc/ or deodorants/ or perfume/ (23)
- 24 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab. (29)
- 25 (limonene or pinene or carene).ti,ab. (3)
- 26 (odorant* or odourant*).ti,ab. (0)
- 27 "air freshener*".ti,ab. (3)
- 28 (candle or candles).ti,ab. (6)
- 29 aerosols/ (35)
- 30 toluene/ or toluene.ti,ab. (111)
- 31 solvents/ or solvent.ti,ab. (398)
- 32 or/1-31 (2251)
- 33 Bacteria/ or fungi/ or stachybotrys/ or air microbiology/ (248)
- 34 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti,ab. (1027)
- 35 spores/ or spores, bacterial/ or spores, fungal/ (15)
- 36 Endotoxins/ (22)

- 37 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti,ab. (401)
- 38 "moisture damage*".ti,ab. (0)
- 39 humidity/ (4)
- 40 or/33-39 (1523)
- 41 (dust or dusty or dustmite* or pyroglyphid* or dermatophagoid*).ti,ab,sh. (726)
- 42 (Cimex adj (lectularius or hemipterus)).ti,ab. (2)
- 43 (bedbug* or "bed bug*").ti,ab,sh. (8)
- 44 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti,ab. (6)
- 45 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people*)).ti,ab. (3)
- 46 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti,ab. (0)
- 47 ((avian or bird*) adj3 feather*).ti,ab. (2)
- 48 dander.ti,ab,sh. (1)
- 49 or/41-48 (745)
- 50 heating/ or cooking/ (85)
- 51 fossil fuels/ or coal/ or natural gas/ or wood/ (98)
- 52 (butane or propane).ti,ab,sh. (8)
- 53 (("lpg" or "liquid petroleum") not "lipophosphoglycan").ti,ab. (13)
- 54 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or burner* or boiler* or furnace* or appliance*)).ti,ab. (169)
- 55 or/50-54 (360)
- 56 paint.ti,ab,sh. (95)
- 57 adhesives.ti,ab,sh. (33)
- 58 "lead poisoning*".ti,ab,sh. (31)
- 59 (dichloromethane or "methylene chloride").ti,ab,sh. (29)
- 60 household products.ti,ab,sh. (6)
- 61 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*").ti,ab,sh. (81)
- 62 exp flooring/ (61)
- 63 exp furnishings/ (60)
- 64 or/56-63 (342)
- 65 32 or 40 or 49 or 55 or 64 (4867)
- 66 residential accommodation/ or accommodation/ or bed & breakfast accommodation/ or care homes/ (1747)

- 67 exp nursing homes/ or care homes/ or residential care/ (6402)
- 68 exp sheltered housing/ (337)
- 69 exp public housing/ (134)
- 70 (indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab,sh. (33949)
- 71 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*").ti,ab,sh. (58)
- 72 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters).ti,ab,sh. (2965)
- 73 exp High rise flats/ (5)
- 74 "flats".ti,ab,sh. (105)
- 75 garage.mp. (19)
- 76 (caravan* or "mobile home*").ti,ab,sh. (43)
- 77 (boat or boats).ti,ab,sh. (40)
- 78 or/66-77 (35824)
- 79 (bedroom* or "bed room*").ti,ab,sh. (129)
- 80 (dormitory or dormitories).ti,ab,sh. (9)
- 81 ("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab,sh. (49)
- 82 (hall or halls or hallway* or stairwell*).ti,ab,sh. (310)
- 83 (kitchen* or "dining room*" or dining-room* or diningroom*).ti,ab,sh. (296)
- 84 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab,sh. (103)
- 85 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti,ab,sh. (9)
- 86 "utility room*".ti,ab,sh. (1)
- 87 or/79-86 (844)
- 88 78 or 87 (36376)
- 89 88 and 65 (563)
- 90 (indoor adj (environment or environments or exposure)).ti,ab,sh. (34)
- 91 ((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)).ti,ab,sh. (473)
- 92 ("indoor air pollut*" or "indoor air quality").ti,ab,sh. (80)
- 93 (indoor adj (climate or climates)).ti,ab,sh. (5)
- 94 or/90-93 (493)

Indoor air quality at home
Search Strategies

95 89 not 94 (359)

Database name: Social Policy & Practice

Strategy
1 air pollution.ti,ab,sh. (1015)
2 air pollutants.ti,ab,sh. (74)
3 ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti,ab,sh. (574)
4 ("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti,ab,sh. (182)
5 ((fine or ultrafine) adj (particulat* or particle*)).ti,ab,sh. (28)
6 ("PM 2.5" or "PM2.5" or "PM(2.5)").ti,ab,sh. (54)
7 ("PM 10" or "PM10" or "PM(10)").ti,ab,sh. (88)
8 ((coal or fly or fuel) adj3 (ash or ashes)).ti,ab. (3)
9 (smoke or soot).ti,ab,sh. (338)
10 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti,ab,sh. (57)
11 (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti,ab,sh. (59)
12 "polyvinyl chloride*".ti,ab,sh. (5)
13 ("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE").ti,ab,sh. (9)
14 (plasticiser* or plasticizer*).ti,ab,sh. (2)
15 (phthalate* or pthalate* or phtalate*).ti,ab,sh. (15)
16 styrene.ti,ab,sh. (0)
17 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*).ti,ab,sh. (21)
18 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab,sh. (2)
19 (limonene or pinene or carene).ti,ab,sh. (0)
20 (odorant* or odourant*).ti,ab,sh. (0)
21 "air freshener*".ti,ab,sh. (1)
22 (candle or candles).ti,ab,sh. (22)
23 aerosols.ti,ab,sh. (10)
24 toluene.ti,ab,sh. (8)
25 (solvent or solvents).ti,ab,sh. (98)
26 or/1-25 (1818)

- 27 (stachybotrys or "air microbiology").ti,ab,sh. (0)
- 28 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti,ab,sh. (99)
- 29 endotoxin*.ti,ab,sh. (11)
- 30 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti,ab,sh. (418)
- 31 "moisture damage*".ti,ab,sh. (0)
- 32 or/27-31 (508)
- 33 (dust or dusty or dustmite* or pyroglyphid* or dermatophagoid*).ti,ab,sh. (111)
- 34 (Cimex adj (lectularius or hemipterus)).ti,ab. (0)
- 35 (bedbug* or "bed bug").ti,ab,sh. (1)
- 36 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti,ab. (15)
- 37 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people*)).ti,ab. (0)
- 38 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti,ab. (2)
- 39 ((avian or bird*) adj3 feather*).ti,ab. (7)
- 40 dander.ti,ab,sh. (0)
- 41 or/33-40 (135)
- 42 (heating or cooking).sh. (520)
- 43 (fossil fuels or coal or natural gas or wood).sh. (75)
- 44 (butane or propane).ti,ab,sh. (6)
- 45 (("lpg" or "liquid petroleum") not "lipophosphoglycan").ti,ab. (8)
- 46 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or burner* or boiler* or furnace* or appliance*)).ti,ab. (94)
- 47 or/42-46 (672)
- 48 paint.ti,ab,sh. (67)
- 49 adhesives.ti,ab,sh. (0)
- 50 "lead poisoning".ti,ab,sh. (19)
- 51 (dichloromethane or "methylene chloride").ti,ab,sh. (1)
- 52 household products.ti,ab,sh. (6)
- 53 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering").ti,ab,sh. (59)
- 54 floor*.sh. (268)
- 55 furnishings.ti,ab,sh. (36)
- 56 or/48-55 (446)

Indoor air quality at home
Search Strategies

- 57 26 or 32 or 41 or 47 or 56 (3284)
- 58 (indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab,sh. (92757)
- 59 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*").ti,ab,sh. (456)
- 60 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters).ti,ab,sh. (11045)
- 61 "flats".ti,ab,sh. (849)
- 62 (garage* and (integral or integrated or attach*)).ti,ab. (2)
- 63 (caravan* or "mobile home*").ti,ab,sh. (199)
- 64 (boat or boats).ti,ab,sh. (59)
- 65 or/58-64 (94595)
- 66 (bedroom* or "bed room*").ti,ab,sh. (258)
- 67 (dormitory or dormitories).ti,ab,sh. (8)
- 68 ("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab,sh. (47)
- 69 (hall or halls or hallway* or stairwell*).ti,ab,sh. (376)
- 70 (kitchen* or "dining room*" or dining-room* or diningroom*).ti,ab,sh. (228)
- 71 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab,sh. (110)
- 72 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti,ab,sh. (3)
- 73 "utility room*").ti,ab,sh. (0)
- 74 or/66-73 (909)
- 75 65 or 74 (94906)
- 76 57 and 75 (1557)
- 77 (indoor adj (environment or environments or exposure)).ti,ab,sh. (34)
- 78 ((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)).ti,ab,sh. (1093)
- 79 ("indoor air pollut*" or "indoor air quality").ti,ab,sh. (106)
- 80 (indoor adj (climate or climates)).ti,ab,sh. (0)
- 81 or/77-80 (1116)
- 82 76 not 81 (1130)

Indoor air quality at home
Search Strategies

Database name: Cochrane CDSR; Central; DARE; HTA; NHS EED

Strategy		
#1	[mh ^"air pollution"]	81
#2	[mh ^"air pollutants"]	229
#3	[mh ^"Air Pollution, Indoor"/AE]	79
#4	("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2):ti,ab	7132
#5	[mh ^"carbon dioxide"]	2703
#6	[mh ^"carbon monoxide"]	460
#7	[mh ^"nitrogen oxides"]	20
#8	[mh ^"nitrogen dioxide"]	65
#9	[mh ^ozone]	282
#10	("particulate matter*" or "particulate emission*" or particulates or "pm emission*"):ti,ab	245
#11	((fine or ultrafine) near (particulat* or particle*)):ti,ab	244
#12	("PM 2.5" or "PM2.5" or "PM(2.5)":ti,ab	100
#13	("PM 10" or "PM10" or "PM(10)":ti,ab	63
#14	[mh ^"particulate matter"]	110
#15	[mh ^"coal ash"]	0
#16	[mh ^smoke]	95
#17	[mh ^soot]	3
#18	((coal or fly or fuel) near/3 (ash or ashes)):ti,ab	3
#19	soot:ti,ab	3
#20	[mh ^"Volatile Organic Compounds"]	42
#21	(VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*"):ti,ab	127
#22	[mh ^"Benzene Derivatives"]	39
#23	[mh ^Benzene]	7
#24	[mh ^Naphthalenes]	690
#25	[mh ^tetrachloroethylene]	12
#26	[mh ^trichloroethylene]	30
#27	[mh ^formaldehyde]	133

Indoor air quality at home
Search Strategies

#28	(benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*):ti,ab	310
#29	[mh ^"polyvinyl chloride"]	52
#30	"polyvinyl chloride*":ti,ab	99
#31	[mh ^"halogenated diphenyl ethers"]	4
#32	("flame retard*" or "fire resist*" or "diphenyl ether*" or "PBDE"):ti,ab	11
#33	[mh ^"Flame Retardants"]	3
#34	[mh ^Plasticizers]	15
#35	(plasticiser* or plasticizer*):ti,ab	34
#36	[mh ^"dibutyl phthalate"]	3
#37	[mh ^"diethylhexyl phthalate"]	10
#38	(phthalate* or pthalate* or phtalate*):ti,ab	63
#39	[mh ^Styrene]	3
#40	styrene*:ti,ab	28
#41	[mh ^"polycyclic aromatic hydrocarbons"]	16
#42	[mh benzopyrenes]	10
#43	("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*):ti,ab	65
#44	[mh ^antiperspirants]	7
#45	[mh ^talc]	61
#46	[mh ^deodorants]	10
#47	[mh ^perfume]	29
#48	(anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*):ti,ab	208
#49	(limonene or pinene or carene):ti,ab	45
#50	[mh ^Odorants]	235
#51	"air freshener*":ti,ab	5
#52	(candle or candles):ti,ab	32
#53	[mh ^aerosols/AE]	25
#54	[mh ^toluene]	47
#55	toluene:ti,ab	77
#56	[mh ^solvents]	245

Indoor air quality at home
Search Strategies

#57	solvent*:ti,ab	637
#58	{or #1-#57}	11983
#59	[mh ^Bacteria]	1578
#60	[mh ^fungi]	122
#61	[mh ^stachybotrys]	0
#62	[mh ^"air microbiology"]	70
#63	(biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*):ti,ab	17494
#64	[mh ^spores]	1
#65	[mh ^"spores, bacterial"]	13
#66	[mh ^"spores, fungal"]	9
#67	[mh ^Endotoxins]	354
#68	(mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation):ti,ab	2544
#69	"moisture damage*":ti,ab	6
#70	[mh ^humidity]	532
#71	{or #59-#70}	21031
#72	[mh ^dust]	289
#73	(dust or dusty or dustmite* or pyroglyphid* or dermatophagoid*):ti,ab	1668
#74	[mh Pyroglyphidae]	228
#75	(Cimex near (lectularius or hemipterus)):ti,ab	1
#76	[mh ^bedbugs]	2
#77	(bedbug* or "bed bug*"):ti,ab	5
#78	((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*):ti,ab	18
#79	((((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) near/5 (human* or people*)):ti,ab	0
#80	((cat* or dog* or animal* or pet or pets) near/3 (hair or hairs or fur)):ti,ab	24
#81	((avian or bird*) near/3 feather*):ti,ab	3
#82	[mh ^dander]	1
#83	dander:ti,ab	109
#84	{or #72-#83}	1849

Indoor air quality at home
Search Strategies

#85	[mh ^heating]	156
#86	[mh ^cooking]	243
#87	[mh "fossil fuels"]	41
#88	[mh ^coal]	4
#89	[mh ^"natural gas"]	0
#90	[mh ^wood]	49
#91	[mh ^butanes]	3
#92	[mh ^propane]	13
#93	(butane or propane):ti,ab	19
#94	((("lpg" or "liquid petroleum") not "lipophosphoglycan"):ti,ab	35
#95	((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) near/5 (cook* or heat* or stove* or burner* or boiler* or furnace* or appliance*)):ti,ab	294
#96	{or #85-#95}	786
#97	[mh ^paint]	54
#98	[mh ^adhesives]	261
#99	[mh "lead poisoning"]	27
#100	[mh ^Dichloromethane]	7
#101	[mh ^"Methylene Chloride"]	7
#102	(dichloromethane or "methylene chloride"):ti,ab	40
#103	[mh "household products"]	654
#104	(carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*"):ti,ab	111
#105	[mh ^"Floors and Floorcoverings"]	51
#106	[mh ^"Interior Design and Furnishings"]	87
#107	{or #97-#106}	1262
#108	#58 or #71 or #84 or #96 or #107	35870
#109	[mh ^housing]	283
#110	[mh "Residential Facilities"]	1778
#111	[mh "Nursing Homes"]	1368
#112	[mh ^"Housing for the Elderly"]	42
#113	[mh ^"Public Housing"]	61

#114	(indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*):ti,ab	36433
#115	(towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*"):ti,ab	17
#116	(apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters):ti,ab	662
#117	"flats":ti,ab	5
#118	(garage* and (integral or integrated or attach*)):ti,ab	1
#119	(caravan* or "mobile home*"):ti,ab	2
#120	(boat or boats):ti,ab	38
#121	{or #109-#120}	37089
#122	(bedroom* or "bed room*"):ti,ab	170
#123	(dormitory or dormitories):ti,ab	81
#124	("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge):ti,ab	75
#125	(hall or halls or hallway* or stairwell*):ti,ab	270
#126	(kitchen* or "dining room*" or dining-room* or diningroom*):ti,ab	171
#127	("bath room*" or bathroom* or "shower room*" or "shower-room*"):ti,ab	67
#128	(cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*"):ti,ab	1
#129	"utility room*":ti,ab	0
#130	{or #122-#129}	763
#131	#121 or #130	37589
#132	#108 and #131	2358
#133	(indoor next (environment or environments or exposure)):ti,ab	45
#134	((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)):ti,ab	2047
#135	("indoor air pollut*" or "indoor air quality"):ti,ab	82
#136	(indoor next (climate or climates)):ti,ab	9
#137	[mh "Air Pollution, Indoor"]	187
#138	{or #133-#137}	2166
#139	#132 and #138	591

Indoor air quality at home
Search Strategies

#140 #132 not #138 1763

(1763 is the number downloaded, including NHS EED and HTA)

Database name: Greenfile

Strategy
S16 (S9 and S15) not (S6) Search modes - Boolean/Phrase (594)
S15 (S10 or S11 or S12 or S13 or S14) Search modes - Boolean/Phrase (59972)
S14 signs and symptoms Search modes - Boolean/Phrase (235)
S13 diagnosis Search modes - Boolean/Phrase Interface (2010)
S12 aetiology Search modes - Boolean/Phrase (684)
S11 risk Search modes - Boolean/Phrase (57949)
S10 risk factors Search modes - Boolean/Phrase (4245)
S9 (S7 or S8) Search modes - Boolean/Phrase (3671)
S8 indoor air quality Search modes - Boolean/Phrase (2395)
S7 indoor air pollution Search modes - Boolean/Phrase (1981)
S6 (S1 OR S2 OR S3 OR S4 OR S5) Search modes - Boolean/Phrase (31502)
S5 work environment Search modes - Boolean/Phrase (1443)
S4 factory Search modes - Boolean/Phrase (11098)
S3 office environment Search modes - Boolean/Phrase (132)
S2 office Search modes - Boolean/Phrase (18524)
S1 radon Search modes - Boolean/Phrase (952)

Database name: OpenGrey

Strategy
keyword:(INDOOR AIR QUALITY) OR keyword:(INDOOR AIR POLLUTION) = 70 limit to eng lang = 26 Manually filtered: <ul style="list-style-type: none">• Not actually in English = 17• Thesis = 8• Report = 1 (downloaded from Scholar as an EN import)

Website name: Google

- *Protocol: Google and Google scholar (with appropriate limits and looking specifically for reports or evaluations of interventions related to indoor air quality)*

Strategy
Exact word or phrase: indoor air Any of these words: quality pollution None of these words: radon factory office Terms appearing: title of page Language: English Strategy run: 20180405 First 50 results recorded 19 results downloaded plus two created manually.

Website name: Google Scholar

- *Protocol: Google and Google scholar (with appropriate limits and looking specifically for reports or evaluations of interventions related to indoor air quality)*

Strategy
Exact word or phrase: indoor air
Any of these words: quality pollution
None of these words: radon factory office
Terms appearing: title of page
Articles dated between: 1970-2018
Strategy run: 20180406
First 50 results recorded
20 results downloaded.

Website name: Web of Science

Strategy

- # 46 [479](#) #45 AND #42
- # 45 [742,047](#) #44 OR #43
- # 44 [1,205](#) ((TI=("signs and symptoms"))) AND LANGUAGE: (English)
- # 43 [740,899](#) ((TI=("risk factors" OR risk OR aetiology OR diagnosis))) AND LANGUAGE: (English)
- # 42 [13,856](#) (#41 AND #36) AND LANGUAGE: (English)
- # 41 [266,028](#) (#40 OR #39) AND LANGUAGE: (English)
- # 40 [24,585](#) ((TI=(bedroom* or "bed room*" OR dormitory or dormitories OR "drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge OR hall or halls or hallway* or stairwell* OR kitchen* or "dining room*" or dining-room* or Diningroom* OR "bath room*" or bathroom* or "shower room*" or "shower-room*" OR cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*" OR "utility room*")) AND LANGUAGE: (English)
- # 39 [242,114](#) #38 OR #37
- # 38 [13,606](#) (((TI=(towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*" or apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters or "flats" or garage or caravan* or "mobile home*" or boat or boats)))) AND LANGUAGE: (English)
- # 37 [230,987](#) (((TI=(indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*)))) AND LANGUAGE: (English)
- # 36 [975,717](#) #35 OR #34 OR #30 OR #22 OR #17
- # 35 [43,042](#) ((TI=(paint or adhesive or "lead poisoning*" or dichloromethane or "methylene chloride" or "household product" or carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*" or furnishing))) AND LANGUAGE: (English)
- # 34 [22,555](#) #33 OR #32 OR #31
- # 33 [12,318](#) ((TI=((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) AND (cook* or heat* or stove* or burner* or boiler* or furnace* or appliance*)))) AND LANGUAGE: (English)
- # 32 [978](#) ((TI(("lpg" or "liquid petroleum") not "lipophosphoglycan"))) AND LANGUAGE: (English)

Indoor air quality at home
Search Strategies

- # 31 [9,288](#) ((TI=(butane or propane))) AND LANGUAGE: (English)
- # 30 [41,564](#) #29 OR #28 OR #27 OR #26 OR #25 OR #24 OR #23
- # 29 [122](#) ((TI=dander)) AND LANGUAGE: (English)
- # 28 [679](#) ((TI=((avian or bird* AND feather*))) AND LANGUAGE: (English)
- # 27 [854](#) ((TI=((cat* or dog* or animal* or pet or pets) AND (hair or hairs or fur)))) AND LANGUAGE: (English)
- # 26 [5,400](#) ((TI=((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (infest* or transmit* or transmission or spread*))) AND LANGUAGE: (English)
- # 25 [476](#) ((TI=(bedbug* or "bed bug*"))) AND LANGUAGE: (English)
- # 24 [218](#) ((TI=(Cimex AND (lectularius or hemipterus)))) AND LANGUAGE: (English)
- # 23 [34,010](#) ((TI=(dust or dusty or dustmite* or pyroglyphid* or dermatophagoid*)) AND LANGUAGE: (English)
- # 22 [384,125](#) #21 OR #20 OR #19 OR #18
- # 21 [10,618](#) ((TI= ("moisture damage*" or humidity))) AND LANGUAGE: (English)
- # 20 [86,746](#) ((TI=(mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation))) AND LANGUAGE: (English)
- # 19 [12,480](#) ((TI=Endotoxin*)) AND LANGUAGE: (English)
- # 18 [286,881](#) ((TI=("biological agent*" or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*))) AND LANGUAGE: (English)
- # 17 [498,260](#) #16 OR #15 OR #14 OR #13 OR #12 OR #11 OR #10 OR #9 OR #8 OR #7 OR #6 OR #5 OR #4 OR #3 OR #2 OR #1
- # 16 [78,442](#) ((TI=(toluene OR solvent*))) AND LANGUAGE: (English)
- # 15 [39,227](#) ((TI=(limonene or pinene or carene OR odorant* or odourant* OR "air freshener*" OR candle or candles OR aerosol*))) AND LANGUAGE: (English)
- # 14 [2,473](#) ((TI=(anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant* or perfume*))) AND LANGUAGE: (English)
- # 13 [38,166](#) ((TI=(plasticiser* or plasticizer* OR phthalate* or pthalate* or phtalate* OR Styrene* OR "polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*))) AND LANGUAGE: (English)
- # 12 [9,616](#) ((TI=("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE"))) AND LANGUAGE: (English)

Indoor air quality at home
Search Strategies

- # 11 [1,145](#) ((TI=("polyvinyl chloride"))) AND LANGUAGE: (English)
- # 10 [45,217](#) ((TI= (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*))) AND LANGUAGE: (English)
- # 9 [8,955](#) ((TI= (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*"))) AND LANGUAGE: (English)
- # 8 [10,272](#) ((TI= ((coal or fly or fuel) AND (ash or ashes)))) AND LANGUAGE: (English)
- # 7 [72,418](#) ((TI=(smoke or soot))) AND LANGUAGE: (English)
- # 6 [80,307](#) ((TI=("particulate matter" or "coal ash" or smoke or soot))) AND LANGUAGE: (English)
- # 5 [5,734](#) ((TI= ("PM 2.5" or "PM2.5" or "PM(2.5)" or "PM 10" or "PM10" or "PM(10)"))) AND LANGUAGE: (English)
- # 4 [7,590](#) ((TI= ((fine or ultrafine) AND (particulat* or particle*))) AND LANGUAGE: (English)
- # 3 [22,041](#) ((TI= ("particulate matter*" or "particulate emission*" or particulates or "pm emission*"))) AND LANGUAGE: (English)
- # 2 [157,920](#) ((TI= ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2))) AND LANGUAGE: (English)
- # 1 [17,570](#) (((TI=("AIR QUALITY" OR "AIR POLLUTION")))) AND LANGUAGE: (English)

4RQ3.3

RQ3.3 How can ventilation in homes be designed or used to prevent or reduce the health impacts of poor indoor air quality whilst maintaining adequate energy and thermal performance?

Flowchart

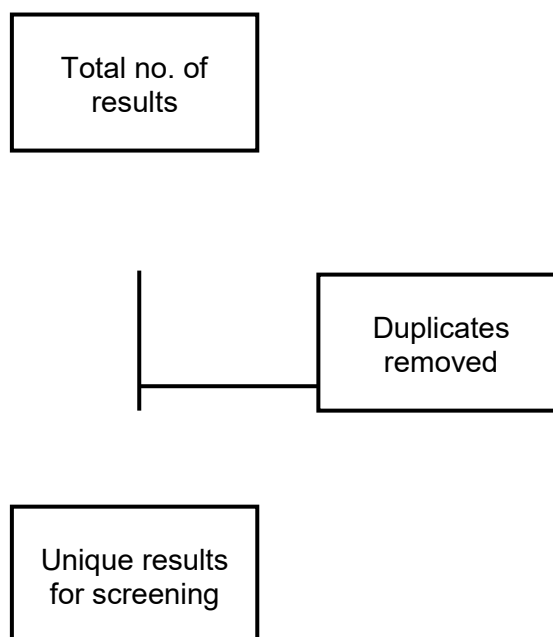


Table of results

Database name	Date searched	Database Platform	Database segment or version	No. of results
Medline	18 Sept 18	Ovid	Ovid MEDLINE(R) ALL 1946 to September 17, 2018	4147
OpenGrey	17 Sept 18			0
Cochrane (25 reviews, 169 trials, 2 editorials) (NB only 194 were downloadable (no editorials)	18 Sept 18	Wiley		194

Indoor air quality at home
Search Strategies

were downloadable).				
Embase	18 Sept 18	Ovid	Embase 1974 to 2018 September 17	4790
Google	18 Sept 18			1
Scholar	18 Sept 18			4
HMIC	19 Sept 18	Ovid		156
SPP	19 Sept 18	Ovid		747
Greenfile	18 Sept 18	Ebsco		1000
Total				11039

Database strategies

Database name: Medline

Strategy
Database: Ovid MEDLINE(R) ALL <1946 to September 17, 2018>

1 housing/ (16117)
2 exp Residential Facilities/ (49342)
3 exp Nursing Homes/ (36801)
4 Housing for the Elderly/ (1565)
5 Public Housing/ (1275)
6 (indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab. (507550)
7 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor").ti,ab. (630)
8 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit").ti,ab. (6264)
9 flats.ti,ab. (1010)
10 (garage* and (integral or integrated or attach*).ti,ab. (50)
11 (caravan* or "mobile home").ti,ab. (220)
12 (boat or boats or houseboat*).ti,ab. (4144)
13 or/1-12 (541667)
14 (bedroom* or "bed room").ti,ab. (2139)
15 (dormitory or dormitories).ti,ab. (585)
16 ("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab. (990)
17 (hall or halls or hallway* or stairwell*).ti,ab. (11016)
18 (kitchen* or "kitchen-diner*" or "kitchen diner*" or "dining room*" or dining-room* or diningroom*).ti,ab. (4355)
19 ("bath room*" or bathroom* or "shower room*" or "shower-room").ti,ab. (1368)
20 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room").ti,ab. (97)
21 "utility room".ti,ab. (20)

- 22 or/14-21 (19543)
- 23 13 or 22 (556860)
- 24 Housing, Animal/ (10423)
- 25 Livestock/ or cattle/ or exp goats/ or exp sheep/ or swine/ or sus scrofa/ or swine, miniature/ (634371)
- 26 (pig or pigs or goat or goats or sheep or cow or cows).ti,ab. (352247)
- 27 or/24-26 (786476)
- 28 23 not 27 (534531)
- 29 ventilation/ (5354)
- 30 (ventilation or ventilate* or ventilating or vent or vents).ti,ab. (128166)
- 31 29 or 30 (130836)
- 32 Respiration, Artificial/ or intermittent positive-pressure ventilation/ or Ventilators, Mechanical/ or Ventilators, Negative-Pressure/ or Ventilator Weaning/ or Noninvasive Ventilation/ or continuous positive airway pressure/ or positive-pressure respiration/ (74099)
- 33 31 not 32 (91912)
- 34 HVAC.ti,ab. (264)
- 35 air conditioning/ (2541)
- 36 "air condition*".ti,ab. (2936)
- 37 air movements/ (3049)
- 38 (air adj1 (change* or exchange* or intake* or distribut* or diffus* or circulat* or recycl* or movement* or flow or control* or duct* or filtrat* or leak* or seal* or outlet* or pressure or barrier*)).ti,ab. (13953)
- 39 ("wind tower*" or windtower* or wind-tower* or chimney or chimneys).ti,ab. (1429)
- 40 (airtight* or "air tight").ti,ab. (1055)
- 41 (insulat* or draught* or draft*).ti,ab. (41318)
- 42 air brick*.ti,ab. (1)
- 43 ((double* or single* or triple*) adj3 (glaz* or glass or window*)).ti,ab. (1172)
- 44 (fan or fans or blower or blowers).ti,ab. (5681)
- 45 ((open* or close or closed or closing or ajar) adj3 (window* or door or doors)).ti,ab. (11204)
- 46 "air handling unit*".ti,ab. (44)
- 47 ("constant volume" adj2 "variable temperature").ti,ab. (0)
- 48 ("variable volume" adj2 "variable temperature").ti,ab. (0)

- 49 ((constant or variable) adj2 "air volume").ti,ab. (11)
- 50 (passive adj (design or heating or cooling)).ti,ab. (290)
- 51 Thermosensing/ (2587)
- 52 temperature/ (226274)
- 53 (thermal adj1 (comfort or mass or diffusion)).ti,ab. (1931)
- 54 Thermal Diffusion/ (70)
- 55 fossil fuels/ or coal/ or natural gas/ or petroleum/ or fuel oils/ or gasoline/ or kerosene/ or wood/ (31401)
- 56 ((lpg or "liquid petroleum") not "lipophosphoglycan").ti,ab. (908)
- 57 Heating/ or cooking/ (15552)
- 58 ((gas* or wood* or coal* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or oven* or burner* or boiler* or furnace*)).ti,ab. (7773)
- 59 "central heating".ti,ab. (181)
- 60 combustion appliance*.ti,ab. (28)
- 61 ((heat or heating or thermal) adj1 (exchange* or intake* or distribut* or diffus* or circulat* or recycl* or flow or control* or duct* or seal* or outlet*)).ti,ab. (7218)
- 62 or/33-61 (450051)
- 63 (model or models or modeling or modelling).ti,ab. (2467917)
- 64 decision support techniques/ (17879)
- 65 data interpretation, statistical/ (54119)
- 66 Models, Theoretical/ (138773)
- 67 linear models/ (74201)
- 68 nonlinear dynamics/ (18349)
- 69 logistic models/ (125175)
- 70 models, statistical/ (84666)
- 71 likelihood functions/ (20664)
- 72 models, educational/ (9515)
- 73 Computer Simulation/ (174352)
- 74 proportional hazards models/ (69382)
- 75 Health Impact Assessment/ (501)
- 76 stochastic processes/ (13624)
- 77 HAPEM.ti,ab. (3)

- 78 ((dilution or "air quality") adj1 model*).ti,ab. (633)
- 79 ("Community Multiscale Air Quality" or CMAQ).ti,ab. (270)
- 80 ("Stochastic Human Exposure and Dose Simulation Model" or "SHEDS-Residential*").ti,ab. (10)
- 81 ("Multizone Airflow and Contaminant Transport Analysis" or CONTAM).ti,ab. (73)
- 82 ("Multizone Airflow Modelling" or COMIS).ti,ab. (14)
- 83 (MCCEM or "Multi?Chamber Concentration and Exposure Model").ti,ab. (1)
- 84 ("indoor exposure model" or (INDEX adj6 model)).ti,ab. (8030)
- 85 "simulation model*".ti,ab. (8780)
- 86 (HIDEEM or "Health Impact of Domestic Energy Efficiency").ti,ab. (0)
- 87 or/63-86 (2859888)
- 88 Economics/ or exp "Costs and Cost Analysis"/ or Economics, Dental/ or exp Economics, Hospital/ or exp Economics, Medical/ or Economics, Nursing/ or Economics, Pharmaceutical/ or Budgets/ or exp Models, Economic/ or Markov Chains/ or Monte Carlo Method/ or Decision Trees/ (321489)
- 89 (Economic* or cost or costs or costly or costing or costed or price or prices or pricing or pharmaco-economic* or pharmaco economic* or budget*).ti,ab. (697695)
- 90 ((monte adj carlo) or markov or (decision adj2 (tree\$ or analys\$))).ti,ab. (69054)
- 91 (value adj2 (money or monetary)).ti,ab. (2040)
- 92 Quality of Life/ or Health Status Indicators/ or Quality-Adjusted Life Years/ or Value of Life/ (196277)
- 93 (quality of life or quality adjusted life or qaly* or qald* or qale* or qtime* or quality of wellbeing or quality of well-being or willingness to pay or standard gamble* or time trade off* or time tradeoff*).ti,ab. (237213)
- 94 (disability adjusted life or daly).ti,ab. (2953)
- 95 health* year* equivalent*.ti,ab. (40)
- 96 (sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six).ti,ab. (22807)
- 97 (sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).ti,ab. (1892)
- 98 (sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve).ti,ab. (4847)
- 99 (sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen).ti,ab. (30)

100 (sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty).ti,ab. (382)

101 (euroqol or euro qol or eq5d or eq 5d).ti,ab. (8573)

102 or/88-101 (1173605)

103 (((energy or oxygen) adj cost*) or (metabolic adj cost*) or ((energy or oxygen) adj expenditure*)).ti,ab. (28305)

104 Animals/ not humans/ (4461949)

105 (comment or editorial or letter or news).pt. (1834873)

106 or/103-105 (6247709)

107 102 not 106 (1058246)

108 87 or 107 (3717969)

109 28 and 62 and 108 (4396)

110 limit 109 to english language (4193)

111 limit 110 to yr="1970 -Current" (4186)

112 (case reports or clinical conference or comment or editorial or interview or letter or news or newspaper article).pt. (3575173)

113 111 not 112 (4147)

Database name: Embase

Strategy

Database: Embase <1974 to 2018 September 17>

- 1 housing/ (20186)
- 2 exp residential home/ (6487)
- 3 exp Nursing Home/ (48792)
- 4 home for the aged/ (10406)
- 5 (indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab. (649277)
- 6 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*").ti,ab. (821)

Indoor air quality at home
Search Strategies

- 7 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*").ti,ab. (7787)
- 8 flats.ti,ab. (1205)
- 9 (garage* and (integral or integrated or attach*)).ti,ab. (75)
- 10 (caravan* or "mobile home*").ti,ab. (263)
- 11 (boat or boats or houseboat*).ti,ab. (3617)
- 12 or/1-11 (683903)
- 13 (bedroom* or "bed room*").ti,ab. (2959)
- 14 (dormitory or dormitories).ti,ab. (722)
- 15 ("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab. (1347)
- 16 (hall or halls or hallway* or stairwell*).ti,ab. (8296)
- 17 (kitchen* or "kitchen-diner*" or "kitchen diner*" or "dining room*" or dining-room* or diningroom*).ti,ab. (5606)
- 18 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab. (2029)
- 19 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti,ab. (138)
- 20 "utility room*").ti,ab. (31)
- 21 or/13-20 (19653)
- 22 12 or 21 (697682)
- 23 animal housing/ (8246)
- 24 livestock/ or bovine/ or pig/ or minipig/ or exp goat/ or exp sheep/ (165661)
- 25 (pig or pigs or goat or goats or sheep or cow or cows).ti,ab. (361147)
- 26 or/23-25 (438127)
- 27 22 not 26 (677744)
- 28 air conditioning/ or room ventilation/ (23188)
- 29 (ventilation or ventilate* or ventilating or vent or vents).ti,ab. (181174)
- 30 28 or 29 (186765)
- 31 artificial ventilation/ or high frequency ventilation/ or interactive ventilatory support/ or intermittent mandatory ventilation/ or intermittent positive pressure ventilation/ or inverse ratio ventilation/ or jet ventilation/ or liquid ventilation/ or negative pressure ventilation/ or noninvasive ventilation/ or one lung ventilation/ or positive end expiratory pressure/ or pressure support ventilation/ or therapeutic hyperventilation/ or ventilator weaning/ or lung model/ (161146)
- 32 30 not 31 (99766)

Indoor air quality at home
Search Strategies

- 33 HVAC.ti,ab. (418)
- 34 "air condition*".ti,ab. (3783)
- 35 air/ (18883)
- 36 (air adj1 (change* or exchange* or intake* or distribut* or diffus* or circulat* or recycl* or movement* or flow or control* or duct* or filtrat* or leak* or seal* or outlet* or pressure or barrier*)).ti,ab. (19386)
- 37 ("wind tower*" or windtower* or wind-tower* or chimney or chimneys).ti,ab. (1948)
- 38 (airtight* or "air tight*").ti,ab. (1400)
- 39 (insulat* or draught* or draft*).ti,ab. (36046)
- 40 air brick*.ti,ab. (1)
- 41 ((double* or single* or triple*) adj3 (glaz* or glass or window*)).ti,ab. (1226)
- 42 (fan or fans or blower or blowers).ti,ab. (7183)
- 43 ((open* or close or closed or closing or ajar) adj3 (window* or door or doors)).ti,ab. (12910)
- 44 "air handling unit*".ti,ab. (64)
- 45 ("constant volume" adj2 "variable temperature").ti,ab. (0)
- 46 ("variable volume" adj2 "variable temperature").ti,ab. (0)
- 47 ((constant or variable) adj2 "air volume").ti,ab. (33)
- 48 (passive adj (design or heating or cooling)).ti,ab. (357)
- 49 temperature sense/ (1693)
- 50 temperature/ (208681)
- 51 (thermal adj1 (comfort or mass or diffusion)).ti,ab. (1843)
- 52 Thermal Diffusion/ (483)
- 53 fossil fuel/ or coal/ or natural gas/ or petroleum/ or fuel oil/ or gasoline/ or kerosene/ or wood/ (42509)
- 54 ((lpg or "liquid petroleum") not "lipophosphoglycan").ti,ab. (1100)
- 55 Heating/ or cooking/ (39945)
- 56 ((gas* or wood* or coal* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or oven* or burner* or boiler* or furnace*)).ti,ab. (9881)
- 57 "central heating".ti,ab. (242)
- 58 combustion appliance*.ti,ab. (53)
- 59 ((heat or heating or thermal) adj1 (exchange* or intake* or distribut* or diffus* or circulat* or recycl* or flow or control* or duct* or seal* or outlet*)).ti,ab. (6952)

Indoor air quality at home
Search Strategies

- 60 or/32-59 (483019)
- 61 (model or models or modeling or modelling).ti,ab. (3042194)
- 62 decision support system/ (19314)
- 63 statistical analysis/ (242648)
- 64 theoretical model/ (78733)
- 65 statistical model/ (150365)
- 66 nonlinear system/ (21527)
- 67 educational model/ (7709)
- 68 proportional hazards model/ (85036)
- 69 Health Impact Assessment/ (3563)
- 70 stochastic model/ (10787)
- 71 HAPEM.ti,ab. (3)
- 72 ((dilution or "air quality") adj1 model*).ti,ab. (1490)
- 73 ("Community Multiscale Air Quality" or CMAQ).ti,ab. (651)
- 74 ("Stochastic Human Exposure and Dose Simulation Model" or "SHEDS-Residential").ti,ab. (9)
- 75 ("Multizone Airflow and Contaminant Transport Analysis" or CONTAM).ti,ab. (97)
- 76 ("Multizone Airflow Modelling" or COMIS).ti,ab. (26)
- 77 (MCCEM or "Multi?Chamber Concentration and Exposure Model").ti,ab. (1)
- 78 ("indoor exposure model" or (INDEX adj6 model)).ti,ab. (11223)
- 79 "simulation model".ti,ab. (10834)
- 80 (HIDEEM or "Health Impact of Domestic Energy Efficiency").ti,ab. (0)
- 81 or/61-80 (3395242)
- 82 health-economics/ or exp economic-evaluation/ or exp health-care-cost/ or pharmacoeconomics/ or Monte Carlo Method/ or Decision Tree/ (527106)
- 83 (Economic* or cost or costs or costly or costing or costed or price or prices or pricing or pharmacoeconomic* or pharmaco economic* or budget*).ti,ab. (892619)
- 84 ((monte adj carlo) or markov or (decision adj2 (tree\$ or analys\$))).ti,ab. (74858)
- 85 (value adj2 (money or monetary)).ti,ab. (2801)
- 86 Quality of Life/ or Quality Adjusted Life Year/ or Quality of Life Index/ or Short Form 36/ or Health Status/ (516523)
- 87 (quality of life or quality adjusted life or qaly* or qald* or qale* or qtime* or quality of wellbeing or quality of well-being or willingness to pay or standard gamble* or time trade off* or time tradeoff*).ti,ab. (369618)

Indoor air quality at home
Search Strategies

- 88 (disability adjusted life or daly).ti,ab. (3655)
- 89 Health* year* equivalent*.ti,ab. (40)
- 90 (sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six or sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six or sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve or sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen or sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty or euroqol or euro qol or eq5d or eq 5d).ti,ab. (59226)
- 91 or/82-90 (1682402)
- 92 exp animal/ or exp animal-experiment/ or nonhuman/ (24744795)
- 93 (rat or rats or mouse or mice or hamster or hamsters or animal or animals or dog or dogs or cat or cats or bovine or sheep).ti,ab,sh. (5285086)
- 94 exp human/ or human-experiment/ (18759456)
- 95 92 or 93 (24879008)
- 96 95 not (95 and 94) (6120418)
- 97 (comment or editorial or letter or news).pt. (1604930)
- 98 (((energy or oxygen) adj cost*) or (metabolic adj cost*) or ((energy or oxygen) adj expenditure*).ti,ab. (34298)
- 99 or/96-98 (7689835)
- 100 91 not 99 (1481184)
- 101 27 and 60 (24193)
- 102 81 or 100 (4627701)
- 103 101 and 102 (6429)
- 104 limit 103 to english language (6133)
- 105 limit 104 to yr="1970 -Current" (6102)
- 106 (conference abstract or conference paper or "conference review" or editorial or letter).pt. (5507157)
- 107 105 not 106 (4790)

Database name: OpenGrey

Strategy

OpenGrey searching 20180917 - all the following strategies were tried, with no relevant results to download.

(indoor or home or domestic or housing) OR keyword:(residential buildings)
keyword:(VENTILATION) = 45, all in German.

(indoor or home or domestic or housing) OR keyword:(residential buildings) AND
keyword:(air conditioning) OR keyword:(ventilation systems) = 18 eng lang, none
relevant publication type

(indoor or home or domestic or housing) OR keyword:(residential buildings) AND
model = 1 eng lang, actually in German.

(model or modeling or modelling) AND (ventilation or ventilate or ventilated or vent or
vents) = 0

(model or modeling or modelling) AND ventilation = 1 French thesis

residential AND keyword:ventilation lang:"en" = 3 theses

Database name: Cochrane

Strategy

NB New Wiley platform issues. This was the nearest to a download of the strategy as was possible. Actions, such as "Explode all trees", are not always an accurate description of the lines. There was no way of getting a result number for each line.

The final total was 196. Of these, only 194 could be downloaded. These are 25 reviews and 169 trials.

2 editorials were not downloadable. Neither were 'on topic':

- Preventing falls in older people: the story of a Cochrane Review;
- Health protection and heatwaves: the need for systematic reviews

ID	Search
#1	MeSH descriptor: [housing] explode all trees
#2	MeSH descriptor: ["Residential Facilities"] explode all trees
#3	MeSH descriptor: ["Nursing Homes"] explode all trees
#4	MeSH descriptor: ["Housing for the Elderly"] explode all trees
#5	MeSH descriptor: ["Public Housing"] explode all trees
#6	(indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*):ti,ab
#7	(towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*"):ti,ab
#8	(apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters):ti,ab
#9	flats:ti,ab
#10	(garage* and (integral or integrated or attach*)):ti,ab
#11	(caravan* or "mobile home*"):ti,ab
#12	(boat or boats or houseboat or houseboats):ti,ab
#13	{or #1-#12}

Indoor air quality at home
Search Strategies

- #14 (bedroom* or "bed room*"):ti,ab
- #15 (dormitory or dormitories):ti,ab
- #16 ("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge):ti,ab
- #17 (hall or halls or hallway* or stairwell*):ti,ab
- #18 (kitchen* or "dining room*" or dining-room* or diningroom*):ti,ab
- #19 ("bath room*" or bathroom* or "shower room*" or "shower-room*"):ti,ab
- #20 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*"):ti,ab
- #21 "utility room*":ti,ab
- #22 {or #14-#21}
- #23 #13 or #22
- #24 MeSH descriptor: [Housing, Animal] this term only
- #25 MeSH descriptor: [Livestock] this term only
- #26 MeSH descriptor: [Cattle] this term only
- #27 MeSH descriptor: [Goats] explode all trees
- #28 MeSH descriptor: [Sheep] explode all trees
- #29 MeSH descriptor: [Swine] explode all trees
- #30 MeSH descriptor: [Sus scrofa] explode all trees
- #31 MeSH descriptor: [Swine, Miniature] this term only
- #32 (pig or pigs or goat or goats or sheep or cow or cows):ti,ab
- #33 {or #24-#32}
- #34 #23 not #33
- #35 MeSH descriptor: [Ventilation] this term only
- #36 (ventilation or ventilate* or ventilating or vent or vents):ti,ab
- #37 #35 or #36
- #38 MeSH descriptor: [Respiration, Artificial] this term only
- #39 MeSH descriptor: [Intermittent Positive-Pressure Ventilation] this term only
- #40 MeSH descriptor: [Ventilators, Mechanical] this term only
- #41 MeSH descriptor: [Ventilators, Negative-Pressure] this term only
- #42 MeSH descriptor: [Ventilator Weaning] this term only
- #43 MeSH descriptor: [Noninvasive Ventilation] this term only

Indoor air quality at home
Search Strategies

- #44 MeSH descriptor: [Continuous Positive Airway Pressure] this term only
- #45 MeSH descriptor: [Positive-Pressure Respiration] this term only
- #46 {or #38-#45}
- #47 #37 not #46
- #48 HVAC:ti,ab
- #49 MeSH descriptor: [Air Conditioning] this term only
- #50 air next condition*:ti,ab
- #51 MeSH descriptor: [Air Movements] this term only
- #52 (air next (change* or exchange* or intake* or distribut* or diffus* or circulat* or recycl* or movement* or flow or control* or duct* or filtrat* or leak* or seal* or outlet* or pressure or barrier*)):ti,ab
- #53 ("wind tower*" or windtower* or wind-tower* or chimney or chimneys):ti,ab.
- #54 (airtight* or "air tight*"):ti,ab
- #55 (insulat* or draught* or draft*):ti,ab.
- #56 "air brick*":ti,ab
- #57 ((double* or single* or triple*) near/3 (glaz* or glass or window*)):ti,ab
- #58 (fan or fans or blower or blowers):ti,ab
- #59 ((open* or close or closed or closing or ajar) near/3 (window* or door or doors)):ti,ab
- #60 "air handling unit*":ti,ab
- #61 (("constant volume") near/2 ("variable temperature")):ti,ab
- #62 (("variable volume" near/2 "variable temperature")):ti,ab
- #63 ((constant or variable) near/2 "air volume"):ti,ab
- #64 (passive next (design or heating or cooling)):ti,ab
- #65 MeSH descriptor: [Thermosensing] this term only
- #66 MeSH descriptor: [Temperature] this term only
- #67 (thermal next (comfort or mass or diffusion)):ti,ab
- #68 MeSH descriptor: [Thermal Diffusion] this term only
- #69 MeSH descriptor: [Fossil Fuels] this term only
- #70 MeSH descriptor: [Coal] this term only
- #71 MeSH descriptor: [Natural Gas] this term only
- #72 MeSH descriptor: [Petroleum] this term only
- #73 MeSH descriptor: [Fuel Oils] this term only

Indoor air quality at home
Search Strategies

- #74 MeSH descriptor: [Gasoline] this term only
- #75 MeSH descriptor: [Kerosene] this term only
- #76 MeSH descriptor: [Wood] this term only
- #77 ((lpg or "liquid petroleum") not "lipophosphoglycan"):ti,ab
- #78 MeSH descriptor: [Heating] explode all trees
- #79 MeSH descriptor: [Cooking] this term only
- #80 ((gas* or wood* or coal* or charcoal* or electric* or paraffin or kerosene or calor) near/5 (cook* or heat* or stove* or oven* or burner* or boiler* or furnace*)):ti,ab
- #81 "central heating":ti,ab
- #82 combustion next appliance*:ti,ab
- #83 ((heat or heating or thermal) next (exchange* or intake* or distribut* or diffus* or circulat* or recycl* or flow or control* or duct* or seal* or outlet*)):ti,ab
- #84 {or #47-#83}
- #85 (model or models or modeling or modelling):ti,ab
- #86 MeSH descriptor: [Decision Support Techniques] this term only
- #87 MeSH descriptor: [Data Interpretation, Statistical] this term only
- #88 MeSH descriptor: [Models, Theoretical] this term only
- #89 MeSH descriptor: [Linear Models] this term only
- #90 MeSH descriptor: [Nonlinear Dynamics] this term only
- #91 MeSH descriptor: [Logistic Models] this term only
- #92 MeSH descriptor: [Models, Statistical] this term only
- #93 MeSH descriptor: [Likelihood Functions] this term only
- #94 MeSH descriptor: [Models, Educational] this term only
- #95 MeSH descriptor: [Computer Simulation] this term only
- #96 MeSH descriptor: [Proportional Hazards Models] this term only
- #97 MeSH descriptor: [Health Impact Assessment] this term only
- #98 MeSH descriptor: [Stochastic Processes] this term only
- #99 hapem:ti,ab
- #100 ((dilution or "air quality") next model*):ti,ab
- #101 ("community multiscale air quality" or CMAQ):ti,ab.
- #102 ("Stochastic Human Exposure and Dose Simulation Model" or "SHEDS-Residential*"):ti,ab
- #103 ("Multizone Airflow and Contaminant Transport Analysis" or CONTAM):ti,ab

Indoor air quality at home
Search Strategies

- #104 ("Multizone Airflow Modelling" or COMIS):ti,ab
- #105 (MCCEM or "Multi?Chamber Concentration and Exposure Model"):ti,ab
- #106 ("indoor exposure model" or (INDEX near/6 model)):ti,ab
- #107 "simulation model":ti,ab.
- #108 (HIDEEM or "Health Impact of Domestic Energy Efficiency"):ti,ab
- #109 {or #85-#108}
- #110 MeSH descriptor: [Economics] this term only
- #111 MeSH descriptor: [Costs and Cost Analysis] explode all trees
- #112 MeSH descriptor: [Economics, Dental] this term only
- #113 MeSH descriptor: [Economics, Hospital] explode all trees
- #114 MeSH descriptor: [Economics, Medical] explode all trees
- #115 MeSH descriptor: [Economics, Nursing] this term only
- #116 MeSH descriptor: [Economics, Pharmaceutical] this term only
- #117 MeSH descriptor: [Budgets] this term only
- #118 MeSH descriptor: [Models, Economic] explode all trees
- #119 MeSH descriptor: [Markov Chains] this term only
- #120 MeSH descriptor: [Monte Carlo Method] this term only
- #121 MeSH descriptor: [Decision Trees] this term only
- #122 (Economic* or cost or costs or costly or costing or costed or price or prices or pricing or pharmacoeconomic* or pharmaco economic* or budget*):ti,ab
- #123 ((monte next carlo) or markov or (decision near/2 (tree* or analys*))):ti,ab
- #124 (value near/2 (money or monetary)):ti,ab
- #125 MeSH descriptor: [Quality of Life] this term only
- #126 MeSH descriptor: [Health Status Indicators] this term only
- #127 MeSH descriptor: [Quality-Adjusted Life Years] this term only
- #128 MeSH descriptor: [Value of Life] this term only
- #129 (quality of life or quality adjusted life or qaly* or qald* or qale* or qtime* or quality of wellbeing or quality of well-being or willingness to pay or standard gamble* or time trade off* or time tradeoff*):ti,ab
- #130 (disability adjusted life or daly):ti,ab
- #131 ("health*" next "year*" next "equivalent*"):ti,ab
- #132 (sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six):ti,ab

Indoor air quality at home
Search Strategies

#133 (sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six):ti,ab

#134 (sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve):ti,ab

#135 (sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen):ti,ab

#136 (sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty):ti,ab

#137 (euroqol or euro qol or eq5d or eq 5d):ti,ab

#138 {or #110-#137}

#139 (((energy or oxygen) next cost*) or (metabolic next cost*) or ((energy or oxygen) next expenditure*)):ti,ab

#140 #138 not #139

#141 #109 or #140

#142 #34 and #84 and #141 with Cochrane Library publication date between Jan 1970 and Oct 2018

#143 clinicaltrials.gov:so

#144 #142 not #143

Source: Google / Scholar

Strategy

(first 50 hits potentially considered)

allintitle: (ventilation OR ventilate OR ventilated OR ventilating) (indoor OR domestic OR home OR homes OR housing) (model OR models OR modeling OR modelling) (study OR studies OR trial OR trials OR report) (title search, limited to English language), first 50 hits potentially considered (search used in both Google and Scholar)

1 result was downloaded from Google, and 4 from Scholar

Database name: HMIC

Strategy

Database: HMIC Health Management Information Consortium 1979 to July 2018

- 1 (indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab,sh. (34189)
- 2 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*").ti,ab,sh. (60)
- 3 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters).ti,ab,sh. (3006)
- 4 "flats".ti,ab,sh. (105)
- 5 garage*.ti,ab,sh. (26)
- 6 (caravan* or "mobile home*").ti,ab,sh. (43)
- 7 (boat or boats or houseboat*).ti,ab,sh. (40)
- 8 (bedroom* or "bed room*").ti,ab,sh. (129)
- 9 (dormitory or dormitories).ti,ab,sh. (9)
- 10 ("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab,sh. (49)
- 11 (hall or halls or hallway* or stairwell*).ti,ab,sh. (312)
- 12 (kitchen* or "dining room*" or dining-room* or diningroom*).ti,ab,sh. (297)
- 13 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab,sh. (105)
- 14 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti,ab,sh. (9)
- 15 "utility room*".ti,ab,sh. (1)
- 16 or/1-15 (35495)
- 17 (pig or pigs or goat or goats or sheep or cow or cows or cattle).ti,ab,sh. (313)
- 18 16 not 17 (35474)
- 19 (ventilation or ventilate* or ventilating or vent or vents).ti,ab,sh. (615)
- 20 HVAC.ti,ab,sh. (18)
- 21 "air condition*".ti,ab,sh. (271)

Indoor air quality at home
Search Strategies

- 22 (air adj1 (change* or exchange* or intake* or distribut* or diffus* or circulat* or recycl* or movement* or flow or control* or duct* or filtrat* or leak* or seal* or outlet* or pressure or barrier*)).ti,ab. (104)
- 23 air flow.sh. (22)
- 24 ("wind tower*" or windtower* or wind-tower* or chimney or chimneys).ti,ab,sh. (17)
- 25 (airtight* or "air tight*").ti,ab,sh. (10)
- 26 (insulat* or draught* or draft*).ti,ab,sh. (2361)
- 27 air brick*.ti,ab,sh. (0)
- 28 ((double* or single* or triple*) adj3 (glaz* or glass or window*)).ti,ab. (11)
- 29 ((open* or close or closed or closing or ajar) adj3 (window* or door or doors)).ti,ab. (263)
- 30 (windows or openings or glazing work or window openings).sh. (36)
- 31 (glass or panes).sh. (27)
- 32 (fan or fans or blower or blowers).ti,ab,sh. (82)
- 33 "air handling unit*".ti,ab,sh. (4)
- 34 air grilles.sh. (0)
- 35 ("constant volume" adj2 "variable temperature").ti,ab. (0)
- 36 ("variable volume" adj2 "variable temperature").ti,ab. (0)
- 37 ((constant or variable) adj2 "air volume").ti,ab. (6)
- 38 (passive adj (design or heating or cooling)).ti,ab. (0)
- 39 temperature*.ti,ab,sh. (669)
- 40 (thermal adj1 (comfort or mass or diffusion)).ti,ab. (13)
- 41 thermal comfort.sh. (31)
- 42 ((gas* or wood* or coal* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or oven* or burner* or boiler* or furnace*)).ti,ab. (139)
- 43 ((lpg or "liquid petroleum") not "lipophosphoglycan").ti,ab. (13)
- 44 heating.ti,ab,sh. (303)
- 45 combustion appliance*.ti,ab,sh. (2)
- 46 ((heat or thermal) adj1 (exchange* or intake* or distribut* or diffus* or circulat* or recycl* or flow or control* or duct* or seal* or outlet*)).ti,ab. (26)
- 47 or/19-46 (4570)
- 48 (model or models or modeling or modelling).ti,ab,sh. (24651)

Indoor air quality at home
Search Strategies

- 49 ("decision support*" adj1 (system* or technique* or method* or process*)).ti,ab. (233)
- 50 decision support systems.sh. (211)
- 51 (data adj1 (analysis or interpretation)).ti,ab. (944)
- 52 data analysis.sh. (701)
- 53 ((linear or nonlinear) adj1 (dynamic* or system)).ti,ab. (7)
- 54 (statistical adj1 (data or design or designs or analys* or method or methods or inferenc* or correlat*)).ti,ab. (1215)
- 55 (Statistical design or Statistical methods or Statistical data).sh. (28288)
- 56 "likelihood function*".ti,ab,sh. (2)
- 57 (health impact adj3 assessment*).ti,ab. (239)
- 58 health impact assessment.sh. (339)
- 59 stochastic.ti,ab,sh. (175)
- 60 HAPEM.ti,ab. (0)
- 61 ((dilution or "air quality") adj1 model*).ti,ab. (1)
- 62 ("Community Multiscale Air Quality" or CMAQ).ti,ab. (0)
- 63 ("Stochastic Human Exposure and Dose Simulation Model" or "SHEDS-Residential").ti,ab. (0)
- 64 ("Multizone Airflow and Contaminant Transport Analysis" or CONTAM).ti,ab. (1)
- 65 ("Multizone Airflow Modelling" or COMIS).ti,ab. (0)
- 66 (MCCEM or "Multi?Chamber Concentration and Exposure Model").ti,ab. (0)
- 67 ("indoor exposure model" or (INDEX adj6 model)).ti,ab. (47)
- 68 simulation.ti,ab,sh. (925)
- 69 (HIDEEM or "Health Impact of Domestic Energy Efficiency").ti,ab. (0)
- 70 (Economic* or cost or costs or costly or costing or costed or price or prices or pricing or budget*).ti,ab,sh. (42485)
- 71 ((monte adj carlo) or markov or (decision adj2 (tree* or analys*))).ti,ab. (598)
- 72 monte carlo methods.sh. (5)
- 73 (value adj2 (money or monetary)).ti,ab. (1149)
- 74 value analysis.sh. (39)
- 75 (quality of life or quality adjusted life or qaly* or qald* or qale* or qtime* or quality of wellbeing or quality of well-being or willingness to pay or standard gamble* or time trade off* or time tradeoff*).ti,ab,sh. (6062)
- 76 (disability adjusted life or daly).ti,ab,sh. (170)
- 77 health* year* equivalent*.ti,ab,sh. (26)

Indoor air quality at home
Search Strategies

78 (sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six).ti,ab,sh. (412)

79 (sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).ti,ab,sh. (3)

80 (sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve).ti,ab,sh. (100)

81 (sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen).ti,ab,sh. (0)

82 (sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty).ti,ab,sh. (2)

83 (euroqol or euro qol or eq5d or eq 5d).ti,ab,sh. (334)

84 or/48-83 (90145)

85 18 and 47 and 84 (156)

Database name: SPP

Strategy

Database: Social Policy and Practice 201807

- 1 (indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab,sh. (93691)
- 2 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor").ti,ab,sh. (458)
- 3 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters).ti,ab,sh. (11258)
- 4 "flats".ti,ab,sh. (856)
- 5 garage*.ti,ab,sh. (57)
- 6 (caravan* or "mobile home*").ti,ab,sh. (202)
- 7 (boat or boats or houseboat*).ti,ab,sh. (63)
- 8 (bedroom* or "bed room*").ti,ab,sh. (261)
- 9 (dormitory or dormitories).ti,ab,sh. (8)
- 10 ("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab,sh. (48)
- 11 (hall or halls or hallway* or stairwell*).ti,ab,sh. (375)
- 12 (kitchen* or "dining room*" or dining-room* or diningroom*).ti,ab,sh. (230)
- 13 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab,sh. (114)
- 14 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti,ab,sh. (3)
- 15 "utility room*".ti,ab,sh. (0)
- 16 or/1-15 (95878)
- 17 (pig or pigs or goat or goats or sheep or cow or cows or cattle).ti,ab,sh. (62)
- 18 16 not 17 (95865)
- 19 (ventilation or ventilate* or ventilating or vent or vents).ti,ab,sh. (276)
- 20 HVAC.ti,ab,sh. (1)
- 21 "air condition*".ti,ab,sh. (41)

Indoor air quality at home
Search Strategies

- 22 (air adj1 (change* or exchange* or intake* or distribut* or diffus* or circulat* or recycl* or movement* or flow or control* or duct* or filtrat* or leak* or seal* or outlet* or pressure or barrier*)).ti,ab. (35)
- 23 air flow.sh. (0)
- 24 ("wind tower*" or windtower* or wind-tower* or chimney or chimneys).ti,ab,sh. (12)
- 25 (airtight* or "air tight*").ti,ab,sh. (37)
- 26 (insulat* or draught* or draft*).ti,ab,sh. (3106)
- 27 air brick*.ti,ab,sh. (0)
- 28 ((double* or single* or triple*) adj3 (glaz* or glass or window*)).ti,ab. (34)
- 29 ((open* or close or closed or closing or ajar) adj3 (window* or door or doors)).ti,ab. (385)
- 30 (windows or openings or glazing work or window openings).sh. (17)
- 31 (glass or panes).sh. (10)
- 32 (fan or fans or blower or blowers).ti,ab,sh. (48)
- 33 "air handling unit*".ti,ab,sh. (0)
- 34 air grilles.sh. (0)
- 35 ("constant volume" adj2 "variable temperature").ti,ab. (0)
- 36 ("variable volume" adj2 "variable temperature").ti,ab. (0)
- 37 ((constant or variable) adj2 "air volume").ti,ab. (0)
- 38 (passive adj (design or heating or cooling)).ti,ab. (6)
- 39 temperature*.ti,ab,sh. (194)
- 40 (thermal adj1 (comfort or mass or diffusion)).ti,ab. (30)
- 41 thermal comfort.sh. (10)
- 42 ((gas* or wood* or coal* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or oven* or burner* or boiler* or furnace*)).ti,ab. (72)
- 43 ((lpg or "liquid petroleum") not "lipophosphoglycan").ti,ab. (8)
- 44 heating.ti,ab,sh. (827)
- 45 combustion appliance*.ti,ab,sh. (0)
- 46 ((heat or thermal) adj1 (exchange* or intake* or distribut* or diffus* or circulat* or recycl* or flow or control* or duct* or seal* or outlet*)).ti,ab. (4)
- 47 or/19-46 (4494)
- 48 (model or models or modeling or modelling).ti,ab,sh. (25529)

Indoor air quality at home
Search Strategies

- 49 ("decision support*" adj1 (system* or technique* or method* or process*)).ti,ab. (40)
- 50 decision support systems.sh. (0)
- 51 (data adj1 (analysis or interpretation)).ti,ab. (782)
- 52 data analysis.sh. (854)
- 53 ((linear or nonlinear) adj1 (dynamic* or system)).ti,ab. (8)
- 54 (statistical adj1 (data or design or designs or analys* or method or methods or inferenc* or correlat*)).ti,ab. (731)
- 55 (Statistical design or Statistical methods or Statistical data).sh. (2996)
- 56 "likelihood function*".ti,ab,sh. (0)
- 57 (health impact adj3 assessment*).ti,ab. (116)
- 58 health impact assessment.sh. (36)
- 59 stochastic.ti,ab,sh. (15)
- 60 HAPEM.ti,ab. (0)
- 61 ((dilution or "air quality") adj1 model*).ti,ab. (3)
- 62 ("Community Multiscale Air Quality" or CMAQ).ti,ab. (0)
- 63 ("Stochastic Human Exposure and Dose Simulation Model" or "SHEDS-Residential").ti,ab. (0)
- 64 ("Multizone Airflow and Contaminant Transport Analysis" or CONTAM).ti,ab. (0)
- 65 ("Multizone Airflow Modelling" or COMIS).ti,ab. (1)
- 66 (MCCEM or "Multi?Chamber Concentration and Exposure Model").ti,ab. (0)
- 67 ("indoor exposure model" or (INDEX adj6 model)).ti,ab. (18)
- 68 simulation.ti,ab,sh. (269)
- 69 (HIDEEM or "Health Impact of Domestic Energy Efficiency").ti,ab. (0)
- 70 (Economic* or cost or costs or costly or costing or costed or price or prices or pricing or budget*).ti,ab,sh. (40810)
- 71 ((monte adj carlo) or markov or (decision adj2 (tree* or analys*))).ti,ab. (118)
- 72 monte carlo methods.sh. (0)
- 73 (value adj2 (money or monetary)).ti,ab. (1081)
- 74 value analysis.sh. (0)
- 75 (quality of life or quality adjusted life or qaly* or qald* or qale* or qtime* or quality of wellbeing or quality of well-being or willingness to pay or standard gamble* or time trade off* or time tradeoff*).ti,ab,sh. (9842)
- 76 (disability adjusted life or daly).ti,ab,sh. (19)
- 77 health* year* equivalent*.ti,ab,sh. (0)

Indoor air quality at home
Search Strategies

78 (sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six).ti,ab,sh. (168)

79 (sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).ti,ab,sh. (1)

80 (sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve).ti,ab,sh. (55)

81 (sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen).ti,ab,sh. (0)

82 (sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty).ti,ab,sh. (6)

83 (euroqol or euro qol or eq5d or eq 5d).ti,ab,sh. (72)

84 or/48-83 (74934)

85 18 and 47 and 84 (747)

Database name: Greenfile

Strategy

#	Query	Limiters/Expanders	Last Run Via	Results
S6	S1 AND S2 AND S5	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - GreenFILE	1,000
S5	S4 or S3	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - GreenFILE	209,028
S4	(TI (Economic* or cost or costs or costly or costing or costed or price or prices or pricing or budget*) OR AB (Economic* or cost or costs or costly or costing or costed or price or prices or pricing or budget*) OR DE (Economic* or cost or costs or costly or costing or costed or price or prices or pricing or budget*))	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - GreenFILE	111,146
S3	(TI (model or models or modeling or modelling) OR AB (model or models or modeling or modelling) OR DE (model or models or modelling or modelling))	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - GreenFILE	118,292
S2	(TI (ventilation or ventilate* or ventilating or vent or vents)) OR AB (ventilation or ventilate* or ventilating or vent or vents) OR DE (model or models or modelling or modelling))	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen -	6,881

Indoor air quality at home
Search Strategies

			Advanced Search Database - GreenFILE	
S1	(TI (indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) OR AB (indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) OR DE (indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*))	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - GreenFILE	61,322

5RQ4

RQ4 What are the effective strategies for raising awareness of the risks of poor indoor air quality at home?

Flowchart

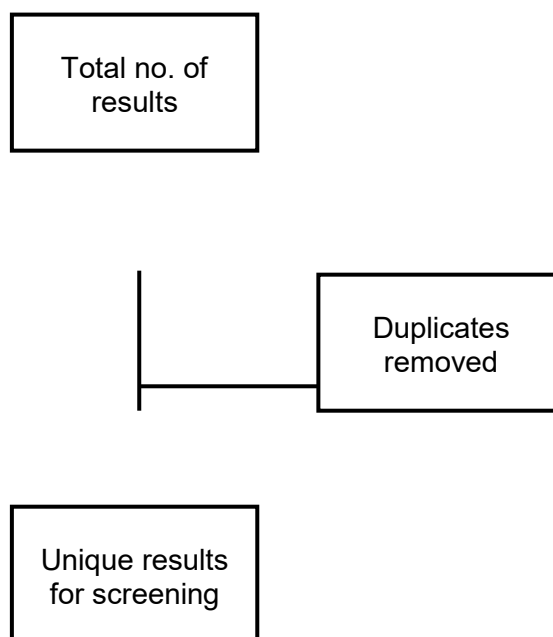


Table of results

Database name	Date searched	Database Platform	Database segment or version	No. of records retrieved
Medline	9 Aug 18	Ovid	Ovid MEDLINE(R) ALL 1946 to August 09, 2018	3524
Embase	24 Aug 18	Ovid	Embase 1974 to 2018 August 23	4525
SPP	23 Aug 18	Ovid	Social Policy and Practice 201804	192
Greenfile	23 Aug 18	Ebsco		938
OpenGrey	24 Aug 18			0

Indoor air quality at home
Search Strategies

HMIC	30 Aug 18	Ovid	<1979 to May 2018	72
Cochrane	24 Aug 18	Wiley		817
Google	30 Aug 18			1
Google Scholar	30 Aug 18			3

Table of results

Database name	Date searched	Database Platform	Database segment or version	No. of records retrieved
Medline	9 Aug 18	Ovid	Ovid MEDLINE(R) ALL 1946 to August 09, 2018	3524
Embase	24 Aug 18	Ovid	Embase 1974 to 2018 August 23	4525
SPP	23 Aug 18	Ovid	Social Policy and Practice 201804	192
Greenfile	23 Aug 18	Ebsco		938
OpenGrey	24 Aug 18			0
HMIC	30 Aug 18	Ovid	<1979 to May 2018	72
Cochrane	24 Aug 18	Wiley		817
Google	30 Aug 18			1
Google Scholar	30 Aug 18			3

Database strategies

Database name: MEDLINE

Database: Ovid MEDLINE(R) ALL <1946 to August 09, 2018>

- 1 air pollution/ (26825)
- 2 limit 1 to yr="1970 - 1991" (6547)
- 3 air pollutants/ (40064)
- 4 Air Pollution, Indoor/ (12041)
- 5 ((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)).ti. (4236)
- 6 (indoor adj (climate or climates)).ti,ab. (181)
- 7 ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti,ab. (171057)
- 8 carbon dioxide/ or carbon monoxide/ or nitrogen oxides/ or nitrogen dioxide/ or ozone/ (119505)
- 9 ("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti,ab. (19738)
- 10 ((fine or ultrafine) adj (particulat* or particle*)).ti,ab. (7745)
- 11 "PM 2.5".ti,ab. (1667)
- 12 "PM2.5".ti,ab. (6816)
- 13 "PM(2.5)".ti,ab. (1667)
- 14 "PM 10".ti,ab. (1641)
- 15 "PM10".ti,ab. (4637)
- 16 "PM(10)".ti,ab. (1641)
- 17 particulate matter/ or coal ash/ or smoke/ or soot/ (22502)
- 18 ((coal or fly or fuel) adj3 (ash or ashes)).ti,ab. (3644)
- 19 soot.ti,ab. (2007)
- 20 Volatile Organic Compounds/ (7012)
- 21 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti,ab. (10372)
- 22 Benzene Derivatives/ or Benzene/ (14677)
- 23 Naphthalenes/ or tetrachloroethylene/ or trichloroethylene/ or formaldehyde/ (44260)
- 24 (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti,ab. (76684)
- 25 polyvinyl chloride/ or "polyvinyl chloride*".ti,ab. (4964)

Indoor air quality at home
Search Strategies

- 26 halogenated diphenyl ethers/ (3556)
- 27 ("flame retard*" or "fire resist*" or "diphenyl ether*" or "PBDE").ti,ab. (7475)
- 28 Flame Retardants/ (3051)
- 29 Plasticizers/ (2346)
- 30 (plasticiser* or plasticizer*).ti,ab. (4209)
- 31 dibutyl phthalate/ or diethylhexyl phthalate/ or (phthalate* or pthalate* or phtalate*).ti,ab. (9083)
- 32 Styrene/ or styrene*.ti,ab. (11176)
- 33 polycyclic aromatic hydrocarbons/ or benzopyrenes/ (17565)
- 34 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*).ti,ab. (20354)
- 35 antiperspirants/ or talc/ or deodorants/ or perfume/ (4335)
- 36 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab. (3277)
- 37 (limonene or pinene or carene).ti,ab. (5252)
- 38 Odorants/ (16480)
- 39 "air freshener*".ti,ab. (114)
- 40 (candle or candles).ti,ab. (921)
- 41 aerosols/ae (689)
- 42 toluene/ or toluene.ti,ab. (21392)
- 43 solvents/ or solvent*.ti,ab. (168625)
- 44 42 or 43 (184964)
- 45 substance-related disorders/ or inhalant abuse/ (89847)
- 46 ("glue sniff*" or "glue-sniff*" or "solvent abuse*" or "solvent-abuse*").ti,ab. (391)
- 47 45 or 46 (89916)
- 48 44 not 47 (183801)
- 49 or/2-41 (491611)
- 50 48 or 49 (652807)
- 51 Bacteria/ or fungi/ or stachybotrys/ or air microbiology/ (167122)
- 52 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti,ab. (856314)
- 53 spores/ or spores, bacterial/ or spores, fungal/ (26594)
- 54 Endotoxins/ (24731)
- 55 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti,ab. (107664)
- 56 "moisture damage*".ti,ab. (138)

Indoor air quality at home
Search Strategies

- 57 humidity/ (15188)
- 58 or/51-57 (1037616)
- 59 (dust or dusty or dustmite*).ti,ab. or dust/ (40941)
- 60 exp Pyroglyphidae/ (2536)
- 61 (Dermatophagoid* or pyroglyphid*).ti,ab. (4023)
- 62 (Cimex adj (lectularius or hemipterus)).ti,ab. (429)
- 63 bedbugs/ or (bedbug * or " bed bug**").ti,ab. (806)
- 64 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti,ab. (2288)
- 65 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people)).ti,ab. (6963)
- 66 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti,ab. (1753)
- 67 ((avian or bird*) adj3 feather*).ti,ab. (640)
- 68 dander/ or dander.ti,ab. (940)
- 69 or/59-68 (55515)
- 70 heating/ or cooking/ (15468)
- 71 fossil fuels/ or coal/ or natural gas/ or wood/ (17245)
- 72 butanes/ or propane/ or (butane or propane).ti,ab. (9744)
- 73 ((lpg or "liquid petroleum") not "lipophosphoglycan").ti,ab. (897)
- 74 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or burner* or boiler* or furnace*)).ti,ab. (6513)
- 75 or/70-74 (47633)
- 76 paint/ (3327)
- 77 adhesives/ (6105)
- 78 exp lead poisoning/ (11547)
- 79 Dichloromethane/ or Methylene Chloride/ (1841)
- 80 (dichloromethane or "methylene chloride").ti,ab. (10464)
- 81 exp household products/ (40564)
- 82 (carpet* or rug or rugs).ti,ab. (2919)
- 83 "Floors and Floorcoverings"/ (1952)
- 84 "Interior Design and Furnishings"/ (4377)
- 85 or/76-84 (80155)
- 86 50 or 58 or 69 or 75 or 85 (1778155)
- 87 housing/ (16093)
- 88 exp Residential Facilities/ (49263)

Indoor air quality at home
Search Strategies

- 89 exp Nursing Homes/ (36734)
- 90 Housing for the Elderly/ (1564)
- 91 Public Housing/ (1278)
- 92 (indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab. (504798)
- 93 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*").ti,ab. (623)
- 94 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*").ti,ab. (6236)
- 95 flats.ti,ab. (1002)
- 96 (garage* and (integral or integrated or attach*)).ti,ab. (50)
- 97 (caravan* or "mobile home*").ti,ab. (219)
- 98 (boat or boats or houseboat*).ti,ab. (4128)
- 99 or/87-98 (538857)
- 100 (bedroom* or "bed room*").ti,ab. (2127)
- 101 (dormitory or dormitories).ti,ab. (575)
- 102 ("drawing room*" or drawingroom* or "drawing-room*" or front room*" or frontroom* or "front-room*" or sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab. (977)
- 103 (hall or halls or hallway* or stairwell*).ti,ab. (10910)
- 104 (kitchen* or "kitchen-diner*" or "kitchen diner*" or "dining room*" or dining-room* or diningroom*).ti,ab. (4340)
- 105 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab. (1358)
- 106 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti,ab. (97)
- 107 "utility room*").ti,ab. (19)
- 108 or/100-107 (19378)
- 109 99 or 108 (553921)
- 110 Housing, Animal/ (10359)
- 111 Livestock/ or cattle/ or exp goats/ or exp sheep/ or swine/ or sus scrofa/ or swine, miniature/ (632536)
- 112 (pig or pigs or goat or goats or sheep or cow or cows).ti,ab. (351280)
- 113 or/110-112 (784426)
- 114 109 not 113 (531714)
- 115 86 and 114 (55308)
- 116 limit 115 to english language (50450)
- 117 limit 116 to yr="1970 -Current" (50017)

Indoor air quality at home
Search Strategies

- 118 limit 117 to (case reports or clinical conference or comment or editorial or interview or letter or news or newspaper article) (1996)
- 119 117 not 118 (48021)
- 120 health communication/ or persuasive communication/ or communication barriers/ or communication/ (86819)
- 121 health promotion/ or health education/ or exp consumer health information/ (124867)
- 122 health knowledge, attitudes, practice/ (97563)
- 123 directive counseling/ (2133)
- 124 Public Health/ (73728)
- 125 primary prevention/ (16898)
- 126 preventive health services/ (12530)
- 127 Program Development/ (26860)
- 128 or/120-127 (397637)
- 129 (mass media*1 or new media*1 or national media*1 or local media*1 or regional media*1 or social media* or social network* or marketing or campaign* or publicity or marketed or television*1 or broadcast* or tele-vision*1 or tv or billboard*1 or bill-board*1 or cinema* or video*1 or radio or radios or internet or multimedia or multi-media or web or website* or interactive or inter-active or mail* out*1 or mailout*1 or mail-shot*1 or mailshot*1 or advert*).ti,ab. (416323)
- 130 (flyer* or flier* or poster* or leaflet* or handbill* or brochure* or magazine* or handout* or bulletin* or booklet* or pamphlet*).ti,ab. (311860)
- 131 ((cell or smart or mobile) adj1 phone*).ti,ab. (8905)
- 132 (phone*1 or telephone*1 or smartphone*1 or smartwatch* or smart watch* or iphone*1 or i-phone*1 or android* or blackberr*).ti,ab. (78877)
- 133 ((text or texts or texting) adj3 messag*).ti,ab. (3065)
- 134 (SMS or multimedia messag* or mms or instant messag* or email* or electronic mail).ti,ab. (15820)
- 135 (facebook or twitter or youtube or you-tube or LinkedIn* or Pinterest* or mumsnet or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia*).ti,ab. (38066)
- 136 (blog* or microblog* or micro-blog* or webchat or widget* or wiki or podcast* or portal or rss or website*).ti,ab. (97365)
- 137 ((computer or web or mobile) adj3 (app or apps or application*)).ti,ab. (9620)
- 138 ((education or advice or awareness or knowledge or information) adj3 (program* or project*1 or intervention*1 or meeting*1 or session*1 or strateg* or workshop*1 or visit*)).ti,ab. (68441)
- 139 ((health* worker* or health-care worker* or health* professional* or health-care professional* or health* personnel or health-care personnel or general-practitioner* or "general practitioner*" or gp or gps or nurse*1 or health visitor* or community worker* or midwife or midwives or clinician*1 or pharmacist* or primary care or general practice or family doctor*1 or family practi* or social worker* or social care) adj3 (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1 or recommend*)).ti,ab. (87206)

Indoor air quality at home
Search Strategies

- 140 ((local adj1 (council or councils or authority or authorities)) and (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1 or recommend*)).ti,ab. (1343)
- 141 ((occupan* or householder* or "house holder*" or homeowner* or "home owner*" or resident or residents or tenant*) adj3 (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1 or recommend*)).ti,ab. (15499)
- 142 ((community or consumer or pressure) adj (group\$1 or organi?ation\$1)).ti,ab. (4995)
- 143 ((patient or support or volunteer or community or consumer or pressure) adj (group*1 or organi?ation*1) adj3 (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1 or recommend*)).ti,ab. (1886)
- 144 ((peer or lay or family or families) adj3 (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1)).ti,ab. (45386)
- 145 ((aware or awareness or recognition or recogni?ation or grasp or perception or percieve* or perceive* or understand* or understood or insight) adj3 (exposure or exposed or harm* or risk or risks or damage*)).ti,ab. (31453)
- 146 or/129-145 (1106972)
- 147 multimedia/ (1783)
- 148 VIDEO RECORDING/ (22409)
- 149 computers, handheld/ or smartphone/ (5282)
- 150 cell phones/ (7405)
- 151 text messaging/ (1972)
- 152 electronic mail/ (2443)
- 153 internet/ (65592)
- 154 social networking/ (2147)
- 155 blogging/ (877)
- 156 mass media/ or motion pictures/ or radio/ or television/ or videodisc recording/ or videotape recording/ (42260)
- 157 marketing/ or advertising as topic/ or social marketing/ (20534)
- 158 posters as topic/ (195)
- 159 Mobile Applications/ (3263)
- 160 or/147-159 (163637)
- 161 128 or 146 or 160 (1484694)
- 162 119 and 161 (3524)

Database name: Embase

Database: Embase <1974 to 2018 August 23>

1 air pollution/ (53547)

Indoor air quality at home Search Strategies

- 2 limit 1 to yr="1970 - 1991" (10293)
- 3 air pollutant/ (28919)
- 4 indoor air pollution/ (12532)
- 5 ((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)).ti. (5885)
- 6 (indoor adj (climate or climates)).ti,ab. (241)
- 7 ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti,ab. (217998)
- 8 carbon dioxide/ or carbon monoxide/ or nitrogen oxide/ or nitrogen dioxide/ or ozone/ (144040)
- 9 ("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti,ab. (27529)
- 10 ((fine or ultrafine) adj (particulat* or particle*)).ti,ab. (11284)
- 11 "PM 2.5".ti,ab. (1156)
- 12 "PM2.5".ti,ab. (11094)
- 13 "PM(2.5)".ti,ab. (1156)
- 14 "PM 10".ti,ab. (1152)
- 15 "PM10".ti,ab. (8481)
- 16 "PM(10)".ti,ab. (1152)
- 17 particulate matter/ or fly ash/ or smoke/ or soot/ (53339)
- 18 ((coal or fly or fuel) adj3 (ash or ashes)).ti,ab. (5762)
- 19 soot.ti,ab. (3530)
- 20 Volatile Organic Compound/ (14840)
- 21 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti,ab. (13717)
- 22 Benzene Derivative/ or Benzene/ (30717)
- 23 Naphthalene/ or tetrachloroethylene/ or trichloroethylene/ or formaldehyde/ (65753)
- 24 (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti,ab. (76197)
- 25 polyvinylchloride/ or "polyvinyl chloride*").ti,ab. (8870)
- 26 diphenyl ether derivative/ (1579)
- 27 ("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE").ti,ab. (8005)
- 28 Flame Retardant/ (3622)
- 29 Plasticizer/ (4382)
- 30 (plasticiser* or plasticizer*).ti,ab. (5413)
- 31 phthalic acid dibutyl ester/ or "phthalic acid bis(2 ethylhexyl) ester"/ or (phthalate* or pthalate* or phtalate*).ti,ab. (12300)

Indoor air quality at home
Search Strategies

- 32 Styrene/ or styrene*.ti,ab. (13411)
- 33 polycyclic aromatic hydrocarbon/ or "benzo[a]pyrene derivative"/ (27991)
- 34 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*).ti,ab. (23919)
- 35 antiperspirant agent/ or talc/ or deodorant agent/ or perfume/ (6980)
- 36 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab. (4360)
- 37 (limonene or pinene or carene).ti,ab. (7703)
- 38 fragrance/ (4569)
- 39 "air freshener*".ti,ab. (162)
- 40 (candle or candles).ti,ab. (1098)
- 41 aerosol/ae (167)
- 42 toluene/ or toluene.ti,ab. (26732)
- 43 solvent/ or solvent*.ti,ab. (178956)
- 44 42 or 43 (199433)
- 45 drug dependence/ or inhalant abuse/ or substance abuse/ (93500)
- 46 ("glue sniff*" or "glue-sniff*" or "solvent abuse*" or "solvent-abuse*").ti,ab. (480)
- 47 45 or 46 (93863)
- 48 44 not 47 (198442)
- 49 or/2-41 (570404)
- 50 48 or 49 (740064)
- 51 bacterium/ or fungus/ or Stachybotrys/ or microbiology/ (392200)
- 52 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti,ab. (972880)
- 53 bacterial spore/ or fungus spore/ (18357)
- 54 Endotoxin/ (33253)
- 55 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti,ab. (127441)
- 56 "moisture damage*".ti,ab. (165)
- 57 humidity/ (27945)
- 58 or/51-57 (1327550)
- 59 (dust or dusty or dustmite*).ti,ab. or dust/ (50816)
- 60 exp Pyroglyphidae/ (10360)
- 61 (Dermatophagoid* or pyroglyphid*).ti,ab. (5434)
- 62 (Cimex adj (lectularius or hemipterus)).ti,ab. (373)
- 63 bedbugs/ or (bedbug * or " bed bug*").ti,ab. (720)

Indoor air quality at home
Search Strategies

- 64 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti,ab. (2378)
- 65 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people)).ti,ab. (9190)
- 66 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti,ab. (2152)
- 67 ((avian or bird*) adj3 feather*).ti,ab. (688)
- 68 dander/ or dander.ti,ab. (1976)
- 69 or/59-68 (70302)
- 70 heating/ or cooking/ (39806)
- 71 fossil fuel/ or coal/ or natural gas/ or wood/ (24969)
- 72 butane/ or propane/ or (butane or propane).ti,ab. (11686)
- 73 ((lpg or "liquid petroleum") not "lipophosphoglycan").ti,ab. (1096)
- 74 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or burner* or boiler* or furnace*)).ti,ab. (8290)
- 75 or/70-74 (81142)
- 76 paint/ (4883)
- 77 adhesive agent/ (11126)
- 78 exp lead poisoning/ (10196)
- 79 Dichloromethane/ (11331)
- 80 (dichloromethane or "methylene chloride").ti,ab. (14234)
- 81 exp domestic chemical/ (15800)
- 82 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*").ti. (882)
- 83 building/ or building material/ (11539)
- 84 furniture/ (4404)
- 85 or/76-84 (74674)
- 86 50 or 58 or 69 or 75 or 85 (2162223)
- 87 housing/ (20078)
- 88 exp residential home/ (6434)
- 89 exp Nursing Home/ (47590)
- 90 home for the aged/ (10378)
- 91 (indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab. (644958)
- 92 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*").ti,ab. (815)
- 93 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*").ti,ab. (7723)

Indoor air quality at home
Search Strategies

- 94 flats.ti,ab. (1205)
- 95 (garage* and (integral or integrated or attach*)).ti,ab. (75)
- 96 (caravan* or "mobile home*").ti,ab. (262)
- 97 (boat or boats or houseboat*).ti,ab. (3608)
- 98 or/87-97 (679175)
- 99 (bedroom* or "bed room*").ti,ab. (2948)
- 100 (dormitory or dormitories).ti,ab. (720)
- 101 ("drawing room*" or drawingroom* or "drawing-room*" or front room*" or frontroom* or "front-room*" or sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab. (1333)
- 102 (hall or halls or hallway* or stairwell*).ti,ab. (8268)
- 103 (kitchen* or "kitchen-diner*" or "kitchen diner*" or "dining room*" or dining-room* or diningroom*).ti,ab. (5580)
- 104 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab. (2020)
- 105 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti,ab. (137)
- 106 "utility room*").ti,ab. (30)
- 107 or/99-106 (19567)
- 108 98 or 107 (692897)
- 109 animal housing/ (8209)
- 110 livestock/ or bovine/ or pig/ or minipig/ or exp goat/ or exp sheep/ (164506)
- 111 (pig or pigs or goat or goats or sheep or cow or cows).ti,ab. (360247)
- 112 or/109-111 (436565)
- 113 108 not 112 (673058)
- 114 86 and 113 (80402)
- 115 limit 114 to english language (72943)
- 116 limit 115 to yr="1970 -Current" (72699)
- 117 limit 116 to (conference abstract or conference paper or "conference review" or editorial or letter) (15100)
- 118 116 not 117 (57599)
- 119 medical information/ or persuasive communication/ or communication barrier/ or interpersonal communication/ (217116)
- 120 health promotion/ or health education/ or exp consumer health information/ (168526)
- 121 attitude to health/ (100339)
- 122 directive counseling/ (812)
- 123 Public Health/ (150213)
- 124 primary prevention/ (36166)

Indoor air quality at home
Search Strategies

- 125 preventive health service/ (24983)
- 126 Program Development/ (22196)
- 127 or/119-126 (657366)
- 128 (mass media*1 or new media*1 or national media*1 or local media*1 or regional media*1 or social media* or social network* or marketing or campaign* or publicity or marketed or television*1 or broadcast* or tele-vision*1 or tv or billboard*1 or bill-board*1 or cinema* or video*1 or radio or radios or internet or multimedia or multi-media or web or website* or interactive or inter-active or mail* out*1 or mailout*1 or mail-shot*1 or mailshot*1 or advert*).ti,ab. (540586)
- 129 (flyer* or flier* or poster* or leaflet* or handbill* or brochure* or magazine* or handout* or bulletin* or booklet* or pamphlet*).ti,ab. (401451)
- 130 ((cell or smart or mobile) adj1 phone*).ti,ab. (11692)
- 131 (phone*1 or telephone*1 or smartphone*1 or smartwatch* or smart watch* or iphone*1 or i-phone*1 or android* or blackberr*).ti,ab. (112585)
- 132 ((text or texts or texting) adj3 messag*).ti,ab. (3922)
- 133 (SMS or multimedia messag* or mms or instant messag* or email* or electronic mail).ti,ab. (27683)
- 134 (facebook or twitter or youtube or you-tube or LinkedIn* or Pinterest* or mumsnet or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia*).ti,ab. (51967)
- 135 (blog* or microblog* or micro-blog* or webchat or widget* or wiki or podcast* or portal or rss or website*).ti,ab. (133001)
- 136 ((computer or web or mobile) adj3 (app or apps or application*)).ti,ab. (11962)
- 137 ((education or advice or awareness or knowledge or information) adj3 (program* or project*1 or intervention*1 or meeting*1 or session*1 or strateg* or workshop*1 or visit*)).ti,ab. (90732)
- 138 ((health* worker* or health-care worker* or health* professional* or health-care professional* or health* personnel or health-care personnel or general-practitioner* or "general practitioner*" or gp or gps or nurse*1 or health visitor* or community worker* or midwife or midwives or clinician*1 or pharmacist* or primary care or general practice or family doctor*1 or family practi* or social worker* or social care) adj3 (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1 or recommend*)).ti,ab. (115048)
- 139 ((local adj1 (council or councils or authority or authorities)) and (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1 or recommend*)).ti,ab. (1814)
- 140 ((occupan* or householder* or "house holder*" or homeowner* or "home owner*" or resident or residents or tenant*) adj3 (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1 or recommend*)).ti,ab. (22103)
- 141 ((community or consumer or pressure) adj (group\$1 or organi?ation\$1)).ti,ab. (6078)
- 142 ((patient or support or volunteer or community or consumer or pressure) adj (group*1 or organi?ation*1) adj3 (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1 or recommend*)).ti,ab. (2740)
- 143 ((peer or lay or family or families) adj3 (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1)).ti,ab. (53802)

Indoor air quality at home
Search Strategies

- 144 ((aware or awareness or recognition or recogni?ation or grasp or perception or percieve* or perceive* or understand* or understood or insight) adj3 (exposure or exposed or harm* or risk or risks or damage*)).ti,ab. (40977)
- 145 or/128-144 (1437452)
- 146 multimedia/ (3407)
- 147 videorecording/ (69740)
- 148 microcomputer/ or smartphone/ (20324)
- 149 mobile phone/ (14201)
- 150 text messaging/ (3481)
- 151 e-mail/ (17001)
- 152 internet/ (98213)
- 153 social network/ (12362)
- 154 blogging/ (227)
- 155 mass medium/ or movie/ or radio/ or television/ or videorecording/ (98372)
- 156 marketing/ or social marketing/ or advertising/ or advertizing/ (41045)
- 157 publication/ (156525)
- 158 Mobile Application/ (6433)
- 159 or/146-158 (430980)
- 160 127 or 145 or 159 (2183903)
- 161 118 and 160 (4525)

SPP

Database: Social Policy and Practice <201804>

- 1 air pollution.ti,ab,sh. (1017)
- 2 air pollutants.ti,ab,sh. (74)
- 3 (indoor adj (climate or climates)).ti,ab,sh. (0)
- 4 ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti,ab,sh. (576)
- 5 ("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti,ab,sh. (181)
- 6 ((fine or ultrafine) adj (particulat* or particle*)).ti,ab,sh. (27)
- 7 ("PM 2.5" or "PM2.5" or "PM(2.5)").ti,ab,sh. (53)
- 8 ("PM 10" or "PM10" or "PM(10)").ti,ab,sh. (88)
- 9 ((coal or fly or fuel) adj3 (ash or ashes)).ti,ab. (3)
- 10 (smoke or soot).ti,ab,sh. (341)
- 11 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti,ab,sh. (57)
- 12 (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti,ab,sh. (59)
- 13 "polyvinyl chloride*".ti,ab,sh. (5)
- 14 ("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE").ti,ab,sh. (9)
- 15 (plasticiser* or plasticizer*).ti,ab,sh. (2)
- 16 (phthalate* or pthalate* or phtalate*).ti,ab,sh. (16)
- 17 styrene.ti,ab,sh. (0)
- 18 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*).ti,ab,sh. (21)
- 19 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab,sh. (2)
- 20 (limonene or pinene or carene).ti,ab,sh. (0)
- 21 (odorant* or odourant*).ti,ab,sh. (0)
- 22 "air freshener*".ti,ab,sh. (1)
- 23 (candle or candles).ti,ab,sh. (22)
- 24 aerosols.ti,ab,sh. (10)
- 25 toluene.ti,ab,sh. (8)
- 26 (solvent or solvents).ti,ab,sh. (98)
- 27 or/1-26 (1825)

Indoor air quality at home
Search Strategies

- 28 (stachybotrys or "air microbiology").ti,ab,sh. (0)
- 29 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti,ab,sh. (99)
- 30 endotoxin*.ti,ab,sh. (11)
- 31 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti,ab,sh. (420)
- 32 "moisture damage*".ti,ab,sh. (0)
- 33 or/28-32 (510)
- 34 (dust or dusty or dustmite* or pyroglyphid* or dermatophagoid*).ti,ab,sh. (111)
- 35 (Cimex adj (lectularius or hemipterus)).ti,ab. (0)
- 36 (bedbug* or "bed bug").ti,ab,sh. (1)
- 37 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti,ab. (15)
- 38 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people)).ti,ab. (0)
- 39 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti,ab. (2)
- 40 ((avian or bird*) adj3 feather*).ti,ab. (7)
- 41 dander.ti,ab,sh. (0)
- 42 or/34-41 (135)
- 43 (heating or cooking).sh. (517)
- 44 (fossil fuels or coal or natural gas or wood).sh. (75)
- 45 (butane or propane).ti,ab,sh. (6)
- 46 (("lpg" or "liquid petroleum") not "lipophosphoglycan").ti,ab. (8)
- 47 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or oven* or heat* or stove* or burner* or boiler* or furnace* or appliance*).ti,ab. (93)
- 48 or/43-47 (668)
- 49 paint.ti,ab,sh. (67)
- 50 adhesives.ti,ab,sh. (0)
- 51 "lead poisoning".ti,ab,sh. (19)
- 52 (dichloromethane or "methylene chloride").ti,ab,sh. (1)
- 53 household products.ti,ab,sh. (6)
- 54 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering").ti,ab,sh. (59)
- 55 floor*.sh. (269)
- 56 furnishings.ti,ab,sh. (36)
- 57 or/49-56 (447)

Indoor air quality at home
Search Strategies

- 58 27 or 33 or 42 or 48 or 57 (3289)
- 59 (indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab,sh. (91668)
- 60 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*").ti,ab,sh. (461)
- 61 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*").ti,ab,sh. (10213)
- 62 "flats".ti,ab,sh. (855)
- 63 (garage* and (integral or integrated or attach*)).ti,ab. (2)
- 64 (caravan* or "mobile home*").ti,ab,sh. (203)
- 65 (boat or boats or houseboat*).ti,ab,sh. (64)
- 66 or/59-65 (93252)
- 67 (bedroom* or "bed room*").ti,ab,sh. (256)
- 68 (dormitory or dormitories).ti,ab,sh. (8)
- 69 ("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab,sh. (47)
- 70 (hall or halls or hallway* or stairwell*).ti,ab,sh. (374)
- 71 (kitchen* or "dining room*" or dining-room* or diningroom*).ti,ab,sh. (228)
- 72 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab,sh. (111)
- 73 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti,ab,sh. (3)
- 74 "utility room*".ti,ab,sh. (0)
- 75 or/67-74 (906)
- 76 66 or 75 (93569)
- 77 58 and 76 (1522)
- 78 ((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)).ti. (62)
- 79 77 or 78 (1538)
- 80 (mass media*1 or new media*1 or national media*1 or local media*1 or regional media*1 or social media* or social network* or marketing or campaign* or publicity or marketed or television*1 or broadcast* or tele-vision*1 or tv or billboard*1 or bill-board*1 or cinema* or video*1 or radio or radios or internet or multimedia or multi-media or web or website* or interactive or inter-active or mail* out*1 or mailout*1 or mail-shot*1 or mailshot*1 or advert*).ti,ab,sh. (18174)
- 81 (flyer* or flier* or poster* or leaflet* or handbill* or brochure* or magazine* or handout* or bulletin* or booklet* or pamphlet*).ti,ab,sh. (3602)
- 82 ((cell or smart or mobile) adj1 phone*).ti,ab,sh. (279)

Indoor air quality at home
Search Strategies

- 83 (phone*1 or telephone*1 or smartphone*1 or smartwatch* or smart watch* or iphone*1 or i-phone*1 or android* or blackberr*).ti,ab,sh. (2851)
- 84 ((text or texts or texting) adj3 messag*).ti,ab,sh. (63)
- 85 (SMS or multimedia messag* or mms or instant messag* or email* or electronic mail).ti,ab,sh. (387)
- 86 (facebook or twitter or youtube or you-tube or LinkedIn* or Pinterest* or mumsnet or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia*).ti,ab,sh. (3807)
- 87 (blog* or microblog* or micro-blog* or webchat or widget* or wiki or podcast* or portal or rss or website*).ti,ab,sh. (1997)
- 88 ((computer or web or mobile) adj3 (app or apps or application*)).ti,ab,sh. (73)
- 89 ((education or advice or awareness or knowledge or information) adj3 (program* or project*1 or intervention*1 or meeting*1 or session*1 or strateg* or workshop*1 or visit*)).ti,ab,sh. (5551)
- 90 ((health* worker* or health-care worker* or health* professional* or health-care professional* or health* personnel or health-care personnel or general-practitioner* or "general practitioner*" or gp or gps or nurse*1 or health visitor* or community worker* or midwife or midwives or clinician*1 or pharmacist* or primary care or general practice or family doctor*1 or family practi* or social worker* or social care) adj3 (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1 or recommend*)).ti,ab,sh. (7773)
- 91 ((local adj1 (council or councils or authority or authorities)) and (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1 or recommend*)).ti,ab,sh. (11215)
- 92 ((occupan* or householder* or "house holder*" or homeowner* or "home owner*" or resident or residents or tenant*) adj3 (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1 or recommend*)).ti,ab,sh. (1814)
- 93 ((patient or support or volunteer or community or consumer or pressure) adj (group*1 or organi?ation*1) adj3 (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1 or recommend*)).ti,ab. (297)
- 94 ((peer or lay or family or families) adj3 (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1)).ti,ab,sh. (7824)
- 95 ((aware or awareness or recognition or recogni?ation or grasp or perception or percieve* or perceive* or understand* or understood or insight) adj3 (exposure or exposed or harm* or risk or risks or damage*)).ti,ab,sh. (763)
- 96 or/80-95 (56486)
- 97 79 and 96 (196)
- 98 limit 97 to yr="1970 -Current" (192)

Greenfile

Indoor air quality at home
Search Strategies

#	Query	Limiters/Expanders	Last Run Via	Results
S1	TI ((indoor N1 (environment or environments or exposure))	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - GreenFILE	439
S2	TI ((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*))	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - GreenFILE	2,076
S3	AB ("indoor air pollut*" or "indoor air quality")	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - GreenFILE	1,732
S4	TI (indoor N1 (climate or climates)) OR AB (indoor N1 (climate or climates))	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search	132

Indoor air quality at home
Search Strategies

			Database - GreenFILE	
S5	DE "INDOOR air pollution	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - GreenFILE	1,555
S6	S1 OR S2 OR S3 OR S4 OR S5	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - GreenFILE	4,293
S7	TI (education or advice or aware or awareness or knowledge or information) OR AB (education or advice or awareness or knowledge or information)	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - GreenFILE	120,627
S8	TI (recognition or recognition or grasp or perception or perceive* or perceive* or understand* or understood or insight*) OR AB (recognition or recognition or grasp or	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - GreenFILE	69,445

Indoor air quality at home
Search Strategies

	perception or perceive* or perceive* or understand* or understood or insight*)			
S9	S7 or S8	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - GreenFILE	173,964
S10	S6 and S9	Search modes - Boolean/Phrase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - GreenFILE	938

OpenGrey

(education or advice or awareness or knowledge or information) AND
keyword:(INDOOR AIR QUALITY) OR keyword:(INDOOR AIR POLLUTION)
lang:"en" = 7

Database: HMIC

Search Strategy

-
- 1 air pollution/ or air quality/ (637)
 - 2 ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti,ab. (506)
 - 3 carbon dioxide/ or carbon monoxide/ or nitrogen oxides/ or nitrogen dioxide/ or ozone/ (216)
 - 4 ("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti,ab. (134)
 - 5 ((fine or ultrafine) adj (particulat* or particle*)).ti,ab,sh. (43)
 - 6 ("PM 2.5" or "PM2.5" or "PM(2.5)").ti,ab. (48)
 - 7 ("PM 10" or "PM10" or "PM(10)").ti,ab. (43)
 - 8 airborne particles/ or soots/ or ashes/ or smoke/ (105)
 - 9 ((coal or fly or fuel) adj3 (ash or ashes)).ti,ab. (7)
 - 10 soot.ti,ab. (13)
 - 11 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti,ab,sh. (21)
 - 12 Benzene/ (77)
 - 13 tetrachloroethylene/ or trichloroethylene/ or formaldehyde/ (196)
 - 14 (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti,ab. (350)
 - 15 polyvinyl chloride/ or "polyvinyl chloride*".ti,ab. (56)
 - 16 ("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE").ti,ab. (46)
 - 17 Fire resistant coatings/ (10)
 - 18 (plasticiser* or plasticizer*).ti,ab. (8)
 - 19 (phthalate* or pthalate* or phtalate*).ti,ab,sh. (29)
 - 20 Styrene/ or styrene*.ti,ab. (60)
 - 21 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzoapyrene* or benzoapyrene*).ti,ab. (64)
 - 22 aromatic hydrocarbons/ or benzenoid hydrocarbons/ (31)
 - 23 exp Polycyclic hydrocarbons/ (99)
 - 24 talc/ or deodorants/ or perfumes/ (23)
 - 25 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab. (29)
 - 26 (limonene or pinene or carene).ti,ab. (3)

Indoor air quality at home
Search Strategies

- 27 (odorant* or odourant*).ti,ab. (0)
- 28 "air freshener*".ti,ab. (3)
- 29 (candle or candles).ti,ab. (7)
- 30 aerosols/ (35)
- 31 toluene/ or toluene.ti,ab. (111)
- 32 solvents/ or solvent*.ti,ab. (586)
- 33 or/1-32 (2490)
- 34 Bacteria/ or fungi/ (248)
- 35 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti,ab. (1029)
- 36 spores/ (15)
- 37 Endotoxins/ (22)
- 38 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti,ab. (403)
- 39 "moisture damage*".ti,ab. (0)
- 40 humidity/ (4)
- 41 or/34-40 (1527)
- 42 (dust or dusty or dustmite* or pyroglyphid* or dermatophagoid*).ti,ab,sh. (726)
- 43 (Cimex adj (lectularius or hemipterus)).ti,ab. (2)
- 44 (bedbug* or "bed bug").ti,ab,sh. (8)
- 45 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti,ab. (6)
- 46 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people)).ti,ab. (3)
- 47 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti,ab. (0)
- 48 ((avian or bird*) adj3 feather*).ti,ab. (2)
- 49 dander.ti,ab,sh. (1)
- 50 or/42-49 (745)
- 51 heating/ or cooking/ (85)
- 52 solid fuels/ or coal/ or natural gas/ or wood/ (100)
- 53 (butane or propane).ti,ab,sh. (8)
- 54 (("lpg" or "liquid petroleum") not "lipophosphoglycan").ti,ab. (13)
- 55 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or oven* or heat* or stove* or burner* or boiler* or furnace* or appliance*).ti,ab. (171)
- 56 or/51-55 (363)
- 57 paint.ti,ab. or Paints/ (108)

Indoor air quality at home
Search Strategies

- 58 adhesives.ti,ab,sh. (33)
- 59 "lead poisoning".ti,ab,sh. (31)
- 60 (dichloromethane or "methylene chloride").ti,ab,sh. (29)
- 61 household products.ti,ab,sh. (6)
- 62 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering").ti,ab,sh. (81)
- 63 exp flooring/ (61)
- 64 exp furnishings/ (60)
- 65 or/57-64 (355)
- 66 33 or 41 or 50 or 56 or 65 (5097)
- 67 indoor environment/ (128)
- 68 indoor climate.ti,ab,sh. (5)
- 69 exp housing/ (3646)
- 70 residential accommodation/ or accommodation/ or bed & breakfast accommodation/ (621)
- 71 exp nursing homes/ or care homes/ or residential care/ (6424)
- 72 exp sheltered housing/ (337)
- 73 exp public housing/ (134)
- 74 (indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab,sh. (33574)
- 75 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor").ti,ab,sh. (58)
- 76 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters).ti,ab,sh. (2990)
- 77 exp High rise flats/ (5)
- 78 "flats".ti,ab,sh. (105)
- 79 (garage or garages).ti,ab,sh. (26)
- 80 (caravan* or "mobile home").ti,ab,sh. (43)
- 81 (boat or boats or houseboat*).ti,ab,sh. (40)
- 82 or/67-81 (35569)
- 83 (bedroom* or "bed room").ti,ab,sh. (129)
- 84 (dormitory or dormitories).ti,ab,sh. (9)
- 85 ("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab,sh. (49)
- 86 (hall or halls or hallway* or stairwell*).ti,ab,sh. (310)
- 87 (kitchen* or "dining room*" or dining-room* or diningroom*).ti,ab,sh. (296)

Indoor air quality at home
Search Strategies

- 88 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab,sh. (103)
- 89 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti,ab,sh. (9)
- 90 "utility room*".ti,ab,sh. (1)
- 91 or/83-90 (844)
- 92 82 or 91 (36121)
- 93 livestock/ or cattle/ or goats/ or pigs/ or sheep/ (147)
- 94 (pig or pigs or goat or goats or sheep or cow or cows or cattle).ti,ab. (238)
- 95 93 or 94 (332)
- 96 92 not 95 (36098)
- 97 66 and 96 (560)
- 98 ((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)).ti. (63)
- 99 97 or 98 (585)
- 100 communication/ or mass communication/ (1970)
- 101 broadcasting/ or communication media/ or mass media/ (611)
- 102 community media/ or press/ or media coverage/ or news/ or newspapers/ (332)
- 103 exp multi media/ or streaming media/ (54)
- 104 radio/ or local radio/ or radio advertising/ or radio programmes/ (43)
- 105 Television/ or Television impact/ or Television programmes/ or exp Television viewers/ or Television advertising/ (297)
- 106 audiovisual media/ or videos/ or magnetic tape recordings/ or video cassettes/ or video discs/ or video recording/ (308)
- 107 cinema/ or films/ (50)
- 108 computers/ or digital computers/ or minicomputers/ or personal computers/ (2111)
- 109 computer applications/ or computer software/ (1586)
- 110 mobile telephones/ or mobile communications systems/ or telephones/ (352)
- 111 text messaging/ or instant messaging/ (84)
- 112 email/ (146)
- 113 internet/ (1321)
- 114 social networking/ (39)
- 115 blogging/ (6)
- 116 health campaigns/ or advertising campaigns/ or safety campaigns/ or persuasion/ or public opinion/ (2552)
- 117 advertising/ or publicity/ or advertising exhibitions/ or advertising displays/ (796)
- 118 posters/ or pictorial material/ or advertising posters/ (75)

Indoor air quality at home
Search Strategies

- 119 marketing/ or marketing strategy/ or marketing planning/ or social marketing/ or marketing campaigns/ (861)
- 120 exp consumer health information/ (2358)
- 121 health promotion/ or health education/ (8922)
- 122 Public Health/ (10167)
- 123 or/100-122 (30651)
- 124 (mass media*1 or new media*1 or national media*1 or local media*1 or regional media*1 or social media* or social network* or marketing or campaign* or publicity or marketed or television*1 or broadcast* or tele-vision*1 or tv or billboard*1 or bill-board*1 or cinema* or video*1 or radio or radios or internet or multimedia or multi-media or web or website* or interactive or inter-active or mail* out*1 or mailout*1 or mail-shot*1 or mailshot*1 or advert*).ti,ab. (15459)
- 125 (flyer* or flier* or poster* or leaflet* or handbill* or brochure* or magazine* or handout* or bulletin* or booklet* or pamphlet*).ti,ab. (4117)
- 126 ((cell or smart or mobile) adj1 phone*).ti,ab. (262)
- 127 (phone*1 or telephone*1 or smartphone*1 or smartwatch* or smart watch* or iphone*1 or i-phone*1 or android* or blackberr*).ti,ab. (3955)
- 128 ((text or texts or texting) adj3 messag*).ti,ab. (126)
- 129 (SMS or multimedia messag* or mms or instant messag* or email* or electronic mail).ti,ab. (512)
- 130 (facebook or twitter or youtube or you-tube or LinkedIn* or Pinterest* or mumsnet or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia*).ti,ab. (605)
- 131 (blog* or microblog* or micro-blog* or webchat or widget* or wiki or podcast* or portal or rss or website*).ti,ab. (3804)
- 132 ((computer or web or mobile) adj3 (app or apps or application*).ti,ab. (196)
- 133 ((education or advice or awareness or knowledge or information) adj3 (program* or project*1 or intervention*1 or meeting*1 or session*1 or strateg* or workshop*1 or visit*).ti,ab. (4252)
- 134 ((health* worker* or health-care worker* or health* professional* or health-care professional* or health* personnel or health-care personnel or general-practitioner* or "general practitioner*" or gp or gps or nurse*1 or health visitor* or community worker* or midwife or midwives or clinician*1 or pharmacist* or primary care or general practice or family doctor*1 or family practi* or social worker* or social care) adj3 (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1 or recommend*).ti,ab. (12019)
- 135 ((local adj1 (council or councils or authority or authorities)) and (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1 or recommend*).ti,ab. (2726)
- 136 ((occupan* or householder* or "house holder*" or homeowner* or "home owner*" or resident or residents or tenant*) adj3 (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1 or recommend*).ti,ab. (284)
- 137 ((patient or support or volunteer or community or consumer or pressure) adj (group*1 or organi?ation*1) adj3 (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1 or recommend*).ti,ab. (134)

Indoor air quality at home
Search Strategies

138 ((peer or lay or family or families) adj3 (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1)).ti,ab. (1837)

139 ((aware or awareness or recognition or recogni?ation or grasp or perception or percieve* or perceive* or understand* or understood or insight) adj3 (exposure or exposed or harm* or risk or risks or damage*)).ti,ab. (765)

140 or/124-139 (41625)

141 123 or 140 (64219)

142 99 and 141 (72)

Database: Cochrane

Search Strategy:

Cochrane moved to a new platform and below is the best representation of the strategy possible, including (for example) manual amendments to many of the focus / explode headings to reflect the actual strategy.

ID	SearchHits
#1	MeSH descriptor: ["air pollution"] explode all trees 82
#2	MeSH descriptor: ["air pollutants"] explode all trees 82
#3	MeSH descriptor: ["Air Pollution, Indoor"] explode all trees and with qualifier(s): [AE - AE] 75
#4	("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2):ti,ab 9605
#5	MeSH descriptor: ["carbon dioxide"] explode all trees 2687
#6	MeSH descriptor: ["carbon monoxide"] explode all trees 485
#7	MeSH descriptor: ["nitrogen oxides"] explode all trees 22
#8	MeSH descriptor: ["nitrogen dioxide"] explode all trees 64
#9	MeSH descriptor: [ozone] explode all trees 272
#10	("particulate matter*" or "particulate emission*" or particulates or "pm emission*"):ti,ab 293
#11	((fine or ultrafine) near (particulat* or particle*)):ti,ab282
#12	("PM 2.5" or "PM2.5" or "PM(2.5)") :ti,ab 180
#13	("PM 10" or "PM10" or "PM(10)") :ti,ab 93
#14	MeSH descriptor: ["particulate matter"] explode all trees 113
#15	MeSH descriptor: ["coal ash"] explode all trees 0
#16	MeSH descriptor: [smoke] explode all trees 93
#17	MeSH descriptor: [soot] explode all trees 3
#18	((coal or fly or fuel) near/3 (ash or ashes)):ti,ab 4

Indoor air quality at home
Search Strategies

- #19 soot:ti,ab 3
- #20 MeSH descriptor: ["Volatile Organic Compounds"] ~~explode all trees~~ 40
- #21 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*"):ti,ab 141
- #22 MeSH descriptor: ["Benzene Derivatives"] ~~explode all trees~~ 39
- #23 MeSH descriptor: [Benzene] ~~explode all trees~~ 7
- #24 MeSH descriptor: [Naphthalenes] ~~explode all trees~~ 646
- #25 MeSH descriptor: [tetrachloroethylene] ~~explode all trees~~ 12
- #26 MeSH descriptor: [trichloroethylene] ~~explode all trees~~ 32
- #27 MeSH descriptor: [formaldehyde] ~~explode all trees~~ 134
- #28 (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*):ti,ab 327
- #29 MeSH descriptor: ["polyvinyl chloride"] ~~explode all trees~~ 52
- #30 "polyvinyl chloride*":ti,ab 113
- #31 MeSH descriptor: ["halogenated diphenyl ethers"] ~~explode all trees~~ 4
- #32 ("flame retard*" or "fire resist*" or "diphenyl ether*" or "PBDE"):ti,ab 4
- #33 MeSH descriptor: ["Flame Retardants"] ~~explode all trees~~ 3
- #34 MeSH descriptor: [Plasticizers] ~~explode all trees~~ 15
- #35 (plasticiser* or plasticizer*):ti,ab 38
- #36 MeSH descriptor: ["dibutyl phthalate"] ~~explode all trees~~ 3
- #37 MeSH descriptor: ["diethylhexyl phthalate"] ~~explode all trees~~ 10
- #38 (phthalate* or pthalate* or phtalate*):ti,ab 72
- #39 MeSH descriptor: [Styrene] ~~explode all trees~~ 7
- #40 styrene*:ti,ab 29
- #41 MeSH descriptor: ["polycyclic aromatic hydrocarbons"] ~~explode all trees~~ 15
- #42 MeSH descriptor: [benzopyrenes] ~~explode all trees~~ 9
- #43 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*):ti,ab 37

Indoor air quality at home
Search Strategies

- #44 MeSH descriptor: [antiperspirants] ~~explode all trees~~ 7
- #45 MeSH descriptor: [talc] ~~explode all trees~~ 53
- #46 MeSH descriptor: [deodorants] ~~explode all trees~~ 10
- #47 MeSH descriptor: [perfume] ~~explode all trees~~ 30
- #48 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*):ti,ab 234
- #49 (limonene or pinene or carene):ti,ab 48
- #50 MeSH descriptor: [Odorants] ~~explode all trees~~ 240
- #51 "air freshener*":ti,ab 1
- #52 (candle or candles):ti,ab 33
- #53 MeSH descriptor: [aerosols] explode all trees and with qualifier(s): [AE - AE] 17
- #54 MeSH descriptor: [toluene] ~~explode all trees~~ 47
- #55 toluene:ti,ab 81
- #56 MeSH descriptor: [solvents] ~~explode all trees~~ 234
- #57 solvent*:ti,ab 683
- #58 {or #1-#57} 14358
- #59 MeSH descriptor: [Bacteria] ~~explode all trees~~ 1550
- #60 MeSH descriptor: [fungi] ~~explode all trees~~ 115
- #61 MeSH descriptor: [stachybotrys] ~~explode all trees~~ 0
- #62 MeSH descriptor: ["air microbiology"] ~~explode all trees~~ 64
- #63 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*):ti,ab 20172
- #64 MeSH descriptor: [spores] ~~explode all trees~~ 1
- #65 MeSH descriptor: ["spores, bacterial"] ~~explode all trees~~ 13
- #66 MeSH descriptor: ["spores, fungal"] explode all trees 11
- #67 MeSH descriptor: [Endotoxins] ~~explode all trees~~ 353

Indoor air quality at home
Search Strategies

- #68 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation):ti,ab 2952
- #69 "moisture damage*":ti,ab 2
- #70 MeSH descriptor: [humidity] ~~explode all trees~~ 516
- #71 {or #59-#70} 24030
- #72 MeSH descriptor: [dust] ~~explode all trees~~ 284
- #73 (dust or dusty or dustmite* or pyroglyphid* or dermatophagoid*):ti,ab 1754
- #74 MeSH descriptor: [Pyroglyphidae] ~~explode all trees~~ 223
- #75 (Cimex near (lectularius or hemipterus)):ti,ab 1
- #76 MeSH descriptor: [bedbugs] ~~explode all trees~~ 2
- #77 (bedbug* or "bed bug*"):ti,ab 3
- #78 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*):ti,ab 21
- #79 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) near/5 (human* or people*)):ti,ab 1389
- #80 ((cat* or dog* or animal* or pet or pets) near/3 (hair or hairs or fur)):ti,ab 27
- #81 ((avian or bird*) near/3 feather*):ti,ab3
- #82 MeSH descriptor: [dander] ~~explode all trees~~ 1
- #83 dander:ti,ab 117
- #84 {or #72-#83} 3324
- #85 MeSH descriptor: [heating] ~~explode all trees~~ 150
- #86 MeSH descriptor: [cooking] ~~explode all trees~~ 249
- #87 MeSH descriptor: ["fossil fuels"] ~~explode all trees~~ 39
- #88 MeSH descriptor: [coal] ~~explode all trees~~ 3
- #89 MeSH descriptor: ["natural gas"] ~~explode all trees~~ 0
- #90 MeSH descriptor: [wood] ~~explode all trees~~ 49
- #91 MeSH descriptor: [butanes] ~~explode all trees~~ 3

Indoor air quality at home
Search Strategies

- #92 MeSH descriptor: [propane] ~~explode all trees~~ 12
- #93 (butane or propane):ti,ab 23
- #94 (("lpg" or "liquid petroleum") not "lipophosphoglycan"):ti,ab 42
- #95 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) near/5 (cook* or heat* or stove* or burner* or boiler* or furnace* or appliance*)):ti,ab 375
- #96 {or #85-#95} 870
- #97 MeSH descriptor: [paint] ~~explode all trees~~ 11
- #98 MeSH descriptor: [adhesives] ~~explode all trees~~ 297
- #99 MeSH descriptor: ["lead poisoning"] explode all trees 81
- #100 MeSH descriptor: [Dichloromethane] ~~explode all trees~~ 7
- #101 MeSH descriptor: ["Methylene Chloride"] ~~explode all trees~~ 7
- #102 (dichloromethane or "methylene chloride"):ti,ab 39
- #103 MeSH descriptor: ["household products"] explode all trees 645
- #104 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*"):ti,ab 123
- #105 Any MeSH descriptor [mh ^"Floors and Floorcoverings"] 49
- #106 Any MeSH descriptor [mh ^"Interior Design and Furnishings"] 82
- #107 {or #97-#106} 1304
- #108 #58 or #71 or #84 or #96 or #107 42641
- #109 MeSH descriptor: [housing] ~~explode all trees~~256
- #110 MeSH descriptor: ["Residential Facilities"] explode all trees 1545
- #111 MeSH descriptor: ["Nursing Homes"] explode all trees 1189
- #112 MeSH descriptor: ["Housing for the Elderly"] ~~explode all trees~~ 35
- #113 MeSH descriptor: ["Public Housing"] ~~explode all trees~~ 59
- #114 (indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*):ti,ab 42606

Indoor air quality at home
Search Strategies

- #115 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*"):ti,ab 19
- #116 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters):ti,ab 733
- #117 "flats":ti,ab 6
- #118 (garage* and (integral or integrated or attach*)):ti,ab 1
- #119 (caravan* or "mobile home*"):ti,ab 4
- #120 (boat or boats or houseboat or houseboats):ti,ab 43
- #121 {or #109-#120} 43170
- #122 (bedroom* or "bed room*"):ti,ab 196
- #123 (dormitory or dormitories):ti,ab 88
- #124 ("drawing room*" or drawingroom* or "drawing-room*" or "front room*" or frontroom* or "front-room*" or "sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge):ti,ab 76
- #125 (hall or halls or hallway* or stairwell*):ti,ab 840
- #126 (kitchen* or "dining room*" or dining-room* or diningroom*):ti,ab 227
- #127 ("bath room*" or bathroom* or "shower room*" or "shower-room*"):ti,ab 90
- #128 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*"):ti,ab 1
- #129 "utility room*":ti,ab 0
- #130 {or #122-#129} 1440
- #131 #121 or #130 44254
- #132 #108 and #131 2803
- #133 (indoor next (environment or environments or exposure)):ti,ab 55
- #134 ((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)):ti,ab 2539
- #135 ("indoor air pollut*" or "indoor air quality"):ti,ab 51
- #136 (indoor next (climate or climates)):ti,ab 8

Indoor air quality at home
Search Strategies

- #137 MeSH descriptor: ["Air Pollution, Indoor"] explode all trees 178
- #138 {or #133-#137} 2650
- #139 #132 or #138 4774
- #140 MeSH descriptor: ["health communication"] ~~explode all trees~~ 166
- #141 MeSH descriptor: ["persuasive communication"] ~~explode all trees~~ 288
- #142 MeSH descriptor: ["communication barriers"] ~~explode all trees~~ 98
- #143 MeSH descriptor: ["communication"] ~~explode all trees~~ 1981
- #144 MeSH descriptor: ["health promotion"] or [mh ^"health education"] explode all trees 7926
- #145 MeSH descriptor: [Consumer Health Information] explode all trees 404
- #146 MeSH descriptor: ["health knowledge, attitudes, practice"] ~~explode all trees~~ 5309
- #147 MeSH descriptor: ["directive counseling"] ~~explode all trees~~ 382
- #148 MeSH descriptor: ["public health"] ~~explode all trees~~ 197
- #149 MeSH descriptor: ["primary prevention"] ~~explode all trees~~ 766
- #150 MeSH descriptor: ["preventive health services"] ~~explode all trees~~ 446
- #151 MeSH descriptor: ["program development"] ~~explode all trees~~ 650
- #152 #140 or #141 or #142 or #143 or #144 or #145 or #146 or #147 or #148 or #149 or #150 or #151 15686
- #153 (mass media? or new media? or national media? or local media? or regional media? or social media? or social network? or marketing or campaign? or publicity or marketed or television* or broadcast* or tele-vision? or tv or billboard* or bill-board* or cinema* or video? or radio or radios or internet or multimedia or multi-media or web or website* or interactive or inter-active or mail?out* or mailout* or mail-shot* or mailshot* or advert*):ti,ab 46457
- #154 (flyer* or flier* or poster* or leaflet* or handbill* or brochure* or magazine* or handout* or bulletin* or booklet* or pamphlet*):ti,ab 20083
- #155 ((cell or smart or mobile) next1 phone*):ti,ab 4215
- #156 (phone or phones or telephone or telephones or smartphone or smartphones or smartwatch or smartwatch* or "smart watch" or "smart watch*" or iphone or iphones or I-phone or I-phones or android* or blackberry*):ti,ab 19202

Indoor air quality at home
Search Strategies

- #157 ((text or texts or texting) near/3 messag*):ti,ab 1854
- #158 (SMS or multimedia messag* or mms or instant messag* or email* or electronic mail):ti,ab 4091
- #159 (facebook or twitter or youtube or you-tube or LinkedIn* or Pinterest* or mumsnet or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia*):ti,ab2785
- #160 (blog* or microblog* or micro-blog* or webchat or widget* or wiki or podcast* or portal or rss or website*):ti,ab 6522
- #161 ((computer or web or mobile) near/3 (app or apps or application*)):ti,ab. 1277
- #162 ((education or advice or awareness or knowledge or information) near/3 (program* or project? or intervention? or meeting? or session? or strateg* or workshop? or visit*)):ti,ab 8675
- #163 ((health? worker* or health-care worker* or health? professional* or health-care professional* or health? personnel or health-care personnel or general?practitioner* or "general practitioner*" or gp or gps or nurse? or health visitor* or community worker* or midwife or midwives or clinician? or pharmacist* or primary care or general practice or family doctor? or family practi* or social worker* or social care) and (led or educat* or train* or teach* or involv* or intervention* or program* or project? or session*? or recommend*)):ti,ab 51889
- #164 ((local next (council or councils or authority or authorities)) and (led or educat* or train* or teach* or involv* or intervention* or program* or project*1 or session*1 or recommend*)):ti,ab 69
- #165 ((occupan* or householder* or "house holder*" or homeowner* or "home owner*" or resident or residents or tenant*) near/3 (led or educat* or train* or teach* or involv* or intervention* or program* or project? or session? or recommend*)):ti,ab 1457
- #166 ((community or consumer or pressure) next (group or organi?ation?)):ti,ab378
- #167 ((patient or support or volunteer or community or consumer or pressure) next (group? or organi?ation?) near/3 (led or educat* or train* or teach* or involv* or intervention* or program* or project? or session*? or recommend*)):ti,ab 148
- #168 ((peer or lay or family or families) near/3 (led or educat* or train* or teach* or involv* or intervention* or program* or project? or session?)):ti,ab 6091
- #169 ((aware or awareness or recognition or recogni?ation or grasp or perception or perceive* or percieve* or understand* or understood or insight) near/3 (exposure or exposed or harm* or risk or risks or damage*)):ti,ab 1896

Indoor air quality at home
Search Strategies

- #170 #153 or #154 or #155 or #156 or #157 or #158 or #159 or #160 or #161 or #162 or #163 or #164 or #165 or #166 or #167 or #168 or #169 139238
- #171 MeSH descriptor: ["multimedia"] ~~explode all trees~~ 199
- #172 MeSH descriptor: ["video recording"] ~~explode all trees~~ 1191
- #173** MeSH descriptor: ["computers, handheld"] or [mh ^"smartphone"] ~~explode all trees~~ 393
- #174 MeSH descriptor: ["cell phones"] ~~explode all trees~~ 576
- #175 MeSH descriptor: ["text messaging"] ~~explode all trees~~ 560
- #176 MeSH descriptor: ["electronic mail"] ~~explode all trees~~ 290
- #177 MeSH descriptor: ["internet"] ~~explode all trees~~ 3234
- #178 MeSH descriptor: ["social networking"] ~~explode all trees~~ 62
- #179 MeSH descriptor: ["blogging"] ~~explode all trees~~ 13
- #180** MeSH descriptor: [~~mass media~~] ~~explode all trees~~ mh ^"mass media"] or [mh ^"motion pictures"] or [mh ^"radio"] or [mh ^"television"] or [mh ^"videodisc recording"] or [mh ^"videotape recording"] 1638
- #181** MeSH descriptor: [~~marketing~~] ~~explode all trees~~ [mh ^"marketing"] or [mh ^"advertising as topic"] or [mh ^"social marketing"] 401
- #182 MeSH descriptor: ["poster as topic"] ~~explode all trees~~ 0
- #183 MeSH descriptor: ["mobile applications"] ~~explode all trees~~ 298
- #184 #171 or #172 or #173 or #174 or #175 or #176 or #177 or #178 or #179 or #180 or #181 or #182 or #183 7891
- #185 #152 or #170 or #184 148324
- #186 #139 and #185 with Cochrane Library publication date between Jan 1970 and Aug 2018 1082
- #187 clinicaltrials.gov:so 126753
- #188 #186 not #187 819

NB two refs were undownloadable (1 a protocol, 1 an editorial) so final download = 817.

Indoor air quality at home
Search Strategies

Database: Google, and Google Scholar

Search Strategy:

Google:

Search terms: "indoor air" (quality OR pollution) (awareness OR knowledge OR perception) (intervention OR interventions OR strategy OR strategies OR campaign OR campaigns) (study OR studies OR trial OR trials OR report)

Language: English

First 50 results recorded

1 result added to EndNote.

Scholar:

Search terms: "indoor air" (quality OR pollution) (awareness OR knowledge OR perception) (intervention OR interventions OR strategy OR strategies OR campaign OR campaigns) (study OR studies OR trial OR trials OR report)

Language: English

First 50 results recorded

3 results added to EndNote.

6Cost effectiveness search

Flowchart

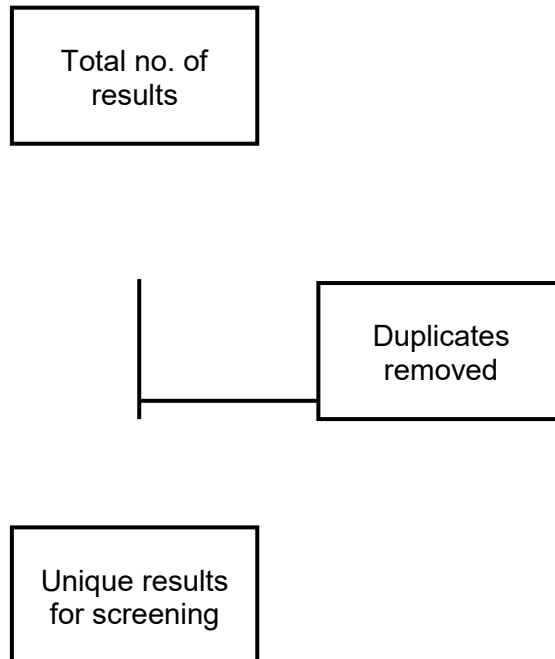


Table of results

Database name	Date searched	Database Platform	Database segment or version	Number of results
Medline (based on the broad search)	20180711	Ovid	Ovid MEDLINE(R) 1946 to Present with Daily Update	739
Medline (based on core pollutant/domestic settings terms)	20180712	Ovid	Ovid MEDLINE(R) 1946 to Present with Daily Update	3392
Embase (based on the broad search)	20180711	Ovid	Embase 1974 to 2018 July 10	787
Embase (based on the core search, pollutants/domestic settings)	20180712	Ovid	Embase 1974 to 2018 July 11	4296
NHS HTA	20180713	Wiley	Health Technology Assessment Database : Issue 4 of 4, October 2016	5

Indoor air quality at home
Search Strategies

NHS EED	201807 13	Wiley	NHS Economic Evaluation Database : Issue 2 of 4, April 2015	5
Econlit	201807 13	Ovid	Econlit 1886 to July 05, 2018	3620
Campbell library	201807 16	Web interface	-	1
Google Scholar	201807 16			50
<i>Total: 12895</i>				

Database strategies

Database name: MEDLINE (broad)

Database: Ovid MEDLINE(R) <1946 to Present with Daily Update>

Search Strategy:

- 1 (indoor adj (environment or environments or exposure)).ti. (490)
- 2 ((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)).ti. (3714)
- 3 ("indoor air pollut*" or "indoor air quality").ab. (2032)
- 4 (indoor adj (climate or climates)).ti,ab. (166)
- 5 *Air Pollution, Indoor/ (9251)
- 6 or/1-5 (11777)
- 7 indoor air.jn. (1083)
- 8 Air Pollution, Indoor/ (11973)
- 9 or/7-8 (12226)
- 10 randomized controlled trial.pt. (463440)
- 11 randomized controlled trial/ (463440)
- 12 controlled clinical trial.pt. (92471)
- 13 random allocation/ (94967)
- 14 Placebos/ (33995)
- 15 clinical trial, phase ii/ or clinical trial, phase iii/ (42246)
- 16 or/10-15 (657175)
- 17 Observational Study as Topic/ (3102)
- 18 Observational Study/ (49347)
- 19 Epidemiologic Studies/ (7712)
- 20 exp Case-Control Studies/ (925319)

- 21 exp Cohort Studies/ (1755875)
- 22 Cross-Sectional Studies/ (268829)
- 23 Controlled Before-After Studies/ (335)
- 24 Historically Controlled Study/ (141)
- 25 Interrupted Time Series Analysis/ (444)
- 26 Comparative Study.pt. (1802222)
- 27 case control\$.tw. (98546)
- 28 case series.tw. (48870)
- 29 (cohort adj (study or studies)).tw. (131967)
- 30 cohort analy\$.tw. (5337)
- 31 (follow up adj (study or studies)).tw. (41879)
- 32 (observational adj (study or studies)).tw. (67449)
- 33 longitudinal.tw. (174563)
- 34 prospective.tw. (433563)
- 35 retrospective.tw. (366584)
- 36 cross sectional.tw. (230858)
- 37 or/17-36 (3951811)
- 38 Meta-Analysis.pt. (89910)
- 39 Meta-Analysis as Topic/ (16294)
- 40 Review.pt. (2258176)
- 41 exp Review Literature as Topic/ (9923)
- 42 (metaanaly* or metanaly* or (meta adj3 analy*)).tw. (106299)
- 43 (review* or overview*).ti. (358933)
- 44 (systematic* adj5 (review* or overview*)).tw. (106051)
- 45 ((quantitative* or qualitative*) adj5 (review* or overview*)).tw. (6914)
- 46 ((studies or trial*) adj2 (review* or overview*)).tw. (33869)
- 47 (integrat* adj3 (research or review* or literature)).tw. (8199)
- 48 (pool* adj2 (analy* or data)).tw. (21411)
- 49 (handsearch* or (hand adj3 search*)).tw. (7230)

- 50 (manual* adj3 search*).tw. (4411)
- 51 or/38-50 (2458484)
- 52 16 or 37 or 51 (6534540)
- 53 9 and 52 (3748)
- 54 6 or 53 (12675)
- 55 limit 54 to english language (11345)
- 56 limit 55 to yr="1970 -Current" (11305)
- 57 limit 56 to (case reports or clinical conference or comment or editorial or interview or letter or news or newspaper article) (762)
- 58 56 not 57 (10543)
- 59 Economics/ or exp "Costs and Cost Analysis"/ or Economics, Dental/ or exp Economics, Hospital/ or exp Economics, Medical/ or Economics, Nursing/ or Economics, Pharmaceutical/ or Budgets/ or exp Models, Economic/ or Markov Chains/ or Monte Carlo Method/ or Decision Trees/ (318923)
- 60 (Economic* or cost or costs or costly or costing or costed or price or prices or pricing or pharmacoeconomic* or pharmaco economic* or budget*).ti,ab. (568948)
- 61 ((monte adj carlo) or markov or (decision adj2 (tree\$ or analys\$))).ti,ab. (47435)
- 62 (value adj2 (money or monetary)).ti,ab. (1678)
- 63 Quality of Life/ or Health Status Indicators/ or Quality-Adjusted Life Years/ or Value of Life/ (193379)
- 64 (quality of life or quality adjusted life or qaly* or qald* or qale* or qtime* or quality of wellbeing or quality of well-being or willingness to pay or standard gamble* or time trade off* or time tradeoff*).ti,ab. (196212)
- 65 (disability adjusted life or daly).ti,ab. (2367)
- 66 health* year* equivalent*.ti,ab. (38)
- 67 (sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six).ti,ab. (19821)
- 68 (sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).ti,ab. (1196)
- 69 (sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve).ti,ab. (4068)
- 70 (sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen).ti,ab. (26)

- 71 (sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty).ti,ab. (360)
- 72 (euroqol or euro qol or eq5d or eq 5d).ti,ab. (6708)
- 73 or/59-72 (986908)
- 74 (((energy or oxygen) adj cost*) or (metabolic adj cost*) or ((energy or oxygen) adj expenditure*)).ti,ab. (24543)
- 75 animals/ not (humans/ and animals/) (4439467)
- 76 (bovine or sheep or pig or pigs or porcine or cow or cows).ti,ab,sh. (560580)
- 77 (comment or editorial or letter or news).pt. (1663091)
- 78 or/74-77 (6183640)
- 79 73 not 78 (873240)
- 80 58 and 79 (739)

Database name: Medline (Core set)

Database: Ovid MEDLINE(R) <1946 to Present with Daily Update>

Search Strategy: Indoor air quality core cost effectiveness medline 20180712

- 1 air pollution/ (26673)
- 2 limit 1 to yr="1970 - 1991" (6547)
- 3 air pollutants/ (39820)
- 4 Air Pollution, Indoor/ae (3182)
- 5 ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti,ab. (135612)
- 6 carbon dioxide/ or carbon monoxide/ or nitrogen oxides/ or nitrogen dioxide/ or ozone/ (119097)
- 7 ("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti,ab. (16469)
- 8 ((fine or ultrafine) adj (particulat* or particle*)).ti,ab. (6356)
- 9 "PM 2.5".ti,ab. (1540)
- 10 "PM2.5".ti,ab. (5206)
- 11 "PM(2.5)".ti,ab. (1540)
- 12 "PM 10".ti,ab. (1541)
- 13 "PM10".ti,ab. (3825)
- 14 "PM(10)".ti,ab. (1541)
- 15 particulate matter/ or coal ash/ or smoke/ or soot/ (22297)
- 16 ((coal or fly or fuel) adj3 (ash or ashes)).ti,ab. (2991)
- 17 soot.ti,ab. (1339)
- 18 Volatile Organic Compounds/ (6893)
- 19 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti,ab. (7437)
- 20 Benzene Derivatives/ or Benzene/ (14649)
- 21 Naphthalenes/ or tetrachloroethylene/ or trichloroethylene/ or formaldehyde/ (44146)
- 22 (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti,ab. (51473)

- 23 polyvinyl chloride/ or "polyvinyl chloride*".ti,ab. (4555)
- 24 halogenated diphenyl ethers/ (3520)
- 25 ("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE").ti,ab. (6287)
- 26 Flame Retardants/ (3020)
- 27 Plasticizers/ (2325)
- 28 (plasticiser* or plasticizer*).ti,ab. (3335)
- 29 dibutyl phthalate/ or diethylhexyl phthalate/ or (phthalate* or pthalate* or phtalate*).ti,ab. (7734)
- 30 Styrene/ or styrene*.ti,ab. (7031)
- 31 polycyclic aromatic hydrocarbons/ or benzopyrenes/ (17458)
- 32 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*).ti,ab. (17299)
- 33 antiperspirants/ or talc/ or deodorants/ or perfume/ (4318)
- 34 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab. (2881)
- 35 (limonene or pinene or carene).ti,ab. (4209)
- 36 Odorants/ (16391)
- 37 "air freshener*".ti,ab. (94)
- 38 (candle or candles).ti,ab. (699)
- 39 aerosols/ae (687)
- 40 toluene/ or toluene.ti,ab. (15444)
- 41 solvents/ or solvent*.ti,ab. (124711)
- 42 40 or 41 (136717)
- 43 substance-related disorders/ or inhalant abuse/ (89476)
- 44 ("glue sniff*" or "glue-sniff*" or "solvent abuse*" or "solvent-abuse*").ti,ab. (377)
- 45 43 or 44 (89531)
- 46 42 not 45 (135568)
- 47 or/2-39 (407605)
- 48 46 or 47 (526432)
- 49 Bacteria/ or fungi/ or stachybotrys/ or air microbiology/ (166154)

- 50 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti,ab. (746908)
- 51 spores/ or spores, bacterial/ or spores, fungal/ (26512)
- 52 Endotoxins/ (24682)
- 53 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti,ab. (84745)
- 54 "moisture damage*".ti,ab. (121)
- 55 humidity/ (15124)
- 56 or/49-55 (907032)
- 57 (dust or dusty or dustmite*).ti,ab. or dust/ (36084)
- 58 exp Pyroglyphidae/ (2514)
- 59 (Dermatophagoid* or pyroglyphid*).ti,ab. (3756)
- 60 (Cimex adj (lectularius or hemipterus)).ti,ab. (346)
- 61 bedbugs/ or (bedbug * or " bed bug*").ti,ab. (699)
- 62 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti,ab. (2117)
- 63 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people)).ti,ab. (6252)
- 64 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti,ab. (1592)
- 65 ((avian or bird*) adj3 feather*).ti,ab. (547)
- 66 dander/ or dander.ti,ab. (869)
- 67 or/57-66 (49291)
- 68 heating/ or cooking/ (15382)
- 69 fossil fuels/ or coal/ or natural gas/ or wood/ (17151)
- 70 butanes/ or propane/ or (butane or propane).ti,ab. (6981)
- 71 ((lpg or "liquid petroleum") not "lipophosphoglycan").ti,ab. (661)
- 72 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or burner* or boiler* or furnace*)).ti,ab. (4627)
- 73 or/68-72 (42623)
- 74 paint/ (3306)

- 75 adhesives/ (6075)
- 76 exp lead poisoning/ (11534)
- 77 Dichloromethane/ or Methylene Chloride/ (1837)
- 78 (dichloromethane or "methylene chloride").ti,ab. (7990)
- 79 exp household products/ (40391)
- 80 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*").ti,ab. (2591)
- 81 "Floors and Floorcoverings"/ (1948)
- 82 "Interior Design and Furnishings"/ (4370)
- 83 or/74-82 (77075)
- 84 pesticides/ or acaricides/ or insect repellents/ or insecticides/ or rodenticides/ (63321)
- 85 (pesticide* or insecticide* or acaricide* or "insect repellent*" or rodenticide*).ti,ab. (60544)
- 86 (incense or joss stick*).ti,ab. (362)
- 87 or/84-86 (86377)
- 88 48 or 56 or 67 or 73 or 83 or 87 (1590377)
- 89 housing/ (16008)
- 90 exp Residential Facilities/ (49043)
- 91 exp Nursing Homes/ (36563)
- 92 Housing for the Elderly/ (1562)
- 93 Public Housing/ (1267)
- 94 (indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab. (447029)
- 95 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*").ti,ab. (528)
- 96 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters).ti,ab. (10711)
- 97 flats.ti,ab. (790)
- 98 (garage* and (integral or integrated or attach*).ti,ab. (43)
- 99 (caravan* or "mobile home*").ti,ab. (187)

- 100 (boat or boats or houseboat*).ti. (575)
- 101 or/89-100 (480690)
- 102 (bedroom* or "bed room*").ti,ab. (1901)
- 103 (dormitory or dormitories).ti,ab. (466)
- 104 ("drawing room*" or drawingroom* or "drawing-room*" or front room*" or frontroom* or "front-room*" or sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab. (880)
- 105 (hall or halls or hallway* or stairwell*).ti,ab. (5200)
- 106 (kitchen* or "dining room*" or dining-room* or diningroom*).ti,ab. (3809)
- 107 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab. (1155)
- 108 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti,ab. (80)
- 109 "utility room*".ti,ab. (17)
- 110 or/102-109 (12579)
- 111 101 or 110 (489368)
- 112 Housing, Animal/ (10332)
- 113 Livestock/ or cattle/ or exp goats/ or exp sheep/ or swine/ or sus scrofa/ or swine, miniature/ (630625)
- 114 (pig or pigs or goat or goats or sheep or cow or cows).ti,ab. (328848)
- 115 or/112-114 (760857)
- 116 111 not 115 (468201)
- 117 88 and 116 (52301)
- 118 limit 117 to english language (47458)
- 119 limit 118 to yr="1970 -Current" (46956)
- 120 limit 119 to (case reports or clinical conference or comment or editorial or interview or letter or news or newspaper article) (1956)
- 121 119 not 120 (45000)
- 122 Economics/ or exp "Costs and Cost Analysis"/ or Economics, Dental/ or exp Economics, Hospital/ or exp Economics, Medical/ or Economics, Nursing/ or Economics, Pharmaceutical/ or Budgets/ or exp Models, Economic/ or Markov Chains/ or Monte Carlo Method/ or Decision Trees/ (318971)

- 123 (Economic* or cost or costs or costly or costing or costed or price or prices or pricing or pharmacoeconomic* or pharmaco economic* or budget*).ti,ab. (569164)
- 124 ((monte adj carlo) or markov or (decision adj2 (tree\$ or analys\$))).ti,ab. (47447)
- 125 (value adj2 (money or monetary)).ti,ab. (1679)
- 126 Quality of Life/ or Health Status Indicators/ or Quality-Adjusted Life Years/ or Value of Life/ (193454)
- 127 (quality of life or quality adjusted life or qaly* or qald* or qale* or qtime* or quality of wellbeing or quality of well-being or willingness to pay or standard gamble* or time trade off* or time tradeoff*).ti,ab. (196298)
- 128 (disability adjusted life or daly).ti,ab. (2367)
- 129 health* year* equivalent*.ti,ab. (38)
- 130 (sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six).ti,ab. (19830)
- 131 (sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).ti,ab. (1196)
- 132 (sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve).ti,ab. (4071)
- 133 (sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen).ti,ab. (26)
- 134 (sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty).ti,ab. (360)
- 135 (euroqol or euro qol or eq5d or eq 5d).ti,ab. (6711)
- 136 or/122-135 (987232)
- 137 (((energy or oxygen) adj cost*) or (metabolic adj cost*) or ((energy or oxygen) adj expenditure*).ti,ab. (24547)
- 138 animals/ not (humans/ and animals/) (4440112)
- 139 (bovine or sheep or pig or pigs or porcine or cow or cows or goat or goats).ti,ab,sh. (583963)
- 140 (comment or editorial or letter or news).pt. (1663255)
- 141 or/137-140 (6190867)
- 142 136 not 141 (873378)
- 143 121 and 142 (3392)

Database name: Embase (Broad)

Database: Embase <1974 to 2018 July 10>

Search Strategy:

- 1 (indoor adj (environment or environments or exposure)).ti. (785)
- 2 ((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)).ti. (5968)
- 3 ("indoor air pollut*" or "indoor air quality").ab. (3200)
- 4 (indoor adj (climate or climates)).ti,ab. (241)
- 5 *indoor air pollution/ (8165)
- 6 or/1-5 (14156)
- 7 indoor air.jn. (954)
- 8 indoor air pollution/ (12498)
- 9 or/7-8 (12742)
- 10 exp Clinical Trial/ (1334708)
- 11 Randomization/ (78687)
- 12 Placebo/ (327541)
- 13 Double Blind Procedure/ (151638)
- 14 Single Blind Procedure/ (31827)
- 15 Crossover Procedure/ (56070)
- 16 ((random\$ or control\$ or clinical\$) adj3 (trial\$ or stud\$)).tw. (1483303)
- 17 (random\$ adj3 allocat\$).tw. (38416)
- 18 placebo\$.tw. (276656)
- 19 ((singl\$ or doubl\$ or trebl\$ or tripl\$) adj (blind\$ or mask\$)).tw. (215402)
- 20 (crossover\$ or (cross adj over\$)).tw. (94882)
- 21 or/10-20 (2530265)
- 22 Clinical study/ (152867)
- 23 Case control study/ (127994)

- 24 Family study/ (25174)
- 25 Longitudinal study/ (114544)
- 26 Retrospective study/ (668411)
- 27 comparative study/ (792394)
- 28 Prospective study/ (459511)
- 29 Randomized controlled trials/ (148369)
- 30 28 not 29 (454848)
- 31 Cohort analysis/ (385321)
- 32 cohort analy\$.tw. (9760)
- 33 (Cohort adj (study or studies)).tw. (225320)
- 34 (Case control\$ adj (study or studies)).tw. (116950)
- 35 (follow up adj (study or studies)).tw. (58658)
- 36 (observational adj (study or studies)).tw. (127766)
- 37 (epidemiologic\$ adj (study or studies)).tw. (97598)
- 38 (cross sectional adj (study or studies)).tw. (165123)
- 39 case series.tw. (82077)
- 40 prospective.tw. (726456)
- 41 retrospective.tw. (698696)
- 42 or/22-27,30-41 (3355596)
- 43 Systematic Review/ (172694)
- 44 Meta Analysis/ (146725)
- 45 Review/ (2323148)
- 46 Review.pt. (2389610)
- 47 (metaanaly\$ or metanaly\$ or (meta adj3 analy\$)).tw. (173154)
- 48 (review\$ or overview\$).ti. (510912)
- 49 (systematic\$ adj5 (review\$ or overview\$)).tw. (169300)
- 50 ((quantitative\$ or qualitative\$) adj5 (review\$ or overview\$)).tw. (10378)
- 51 ((studies or trial\$) adj2 (review\$ or overview\$)).tw. (48760)
- 52 (integrat\$ adj3 (research or review\$ or literature)).tw. (11605)

- 53 (pool\$ adj2 (analy\$ or data)).tw. (37419)
- 54 (handsearch\$ or (hand adj3 search\$)).tw. (10243)
- 55 (manual\$ adj3 search\$).tw. (6492)
- 56 or/43-55 (2946522)
- 57 21 or 42 or 56 (7474222)
- 58 9 and 57 (3179)
- 59 6 or 58 (15290)
- 60 limit 59 to english language (12924)
- 61 limit 60 to (conference abstract or conference paper or conference proceeding or "conference review" or editorial or letter or note) (2014)
- 62 60 not 61 (10910)
- 63 health-economics/ or exp economic-evaluation/ or exp health-care-cost/ or pharmacoeconomics/ or Monte Carlo Method/ or Decision Tree/ (531016)
- 64 (Economic* or cost or costs or costly or costing or costed or price or prices or pricing or pharmacoeconomic* or pharmaco economic* or budget*).ti,ab. (892051)
- 65 ((monte adj carlo) or markov or (decision adj2 (tree\$ or analys\$))).ti,ab. (74264)
- 66 (value adj2 (money or monetary)).ti,ab. (2794)
- 67 Quality of Life/ or Quality Adjusted Life Year/ or Quality of Life Index/ or Short Form 36/ or Health Status/ (511548)
- 68 (quality of life or quality adjusted life or qaly* or qald* or qale* or qtime* or quality of wellbeing or quality of well-being or willingness to pay or standard gamble* or time trade off* or time tradeoff*).ti,ab. (364981)
- 69 (disability adjusted life or daly).ti,ab. (3613)
- 70 Health* year* equivalent*.ti,ab. (40)
- 71 (sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six or sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six or sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve or sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen or sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty or euroqol or euro qol or eq5d or eq 5d).ti,ab. (58424)
- 72 or/63-71 (1680205)
- 73 Nonhuman/ not (Human/ and Nonhuman/) (4190371)

- 74 (bovine or sheep or pig or pigs or porcine or cow or cows).ti,ab,sh. (653398)
- 75 (comment or editorial or letter or news).pt. (1598677)
- 76 (((energy or oxygen) adj cost*) or (metabolic adj cost*) or ((energy or oxygen) adj expenditure*)).ti,ab. (34352)
- 77 or/73-76 (6161090)
- 78 72 not 77 (1504040)
- 79 62 and 78 (787)

Database name: Embase (Core set)

Database: Embase <1974 to 2018 July 11>

Search Strategy:

- 1 air pollution/ (60619)
- 2 limit 1 to yr="1970 - 1991" (13846)
- 3 air pollutant/ (28857)
- 4 indoor air pollution/ae (1860)
- 5 ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti,ab. (223105)
- 6 carbon dioxide/ or carbon monoxide/ or nitrogen oxides/ or nitrogen dioxide/ or ozone/ (161291)
- 7 ("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti,ab. (27878)
- 8 ((fine or ultrafine) adj (particulat* or particle*)).ti,ab. (11264)
- 9 "PM 2.5".ti,ab. (1147)
- 10 "PM2.5".ti,ab. (10962)
- 11 "PM(2.5)".ti,ab. (1147)
- 12 "PM 10".ti,ab. (1151)
- 13 "PM10".ti,ab. (8438)
- 14 "PM(10)".ti,ab. (1151)
- 15 particulate matter/ or fly ash/ or smoke/ or soot/ (53531)
- 16 ((coal or fly or fuel) adj3 (ash or ashes)).ti,ab. (5789)
- 17 soot.ti,ab. (3577)
- 18 Volatile Organic Compound/ (14831)
- 19 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti,ab. (13663)
- 20 Benzene Derivative/ or Benzene/ (33219)
- 21 Naphthalene/ or tetrachloroethylene/ or trichloroethylene/ or formaldehyde/ (69832)
- 22 (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti,ab. (78499)

- 23 polyvinylchloride/ or "polyvinyl chloride*".ti,ab. (8995)
- 24 diphenyl ether derivative/ (1618)
- 25 ("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE").ti,ab. (8023)
- 26 Flame Retardant/ (3625)
- 27 Plasticizer/ (4393)
- 28 (plasticiser* or plasticizer*).ti,ab. (5432)
- 29 phthalic acid dibutyl ester/ or "phthalic acid bis(2 ethylhexyl) ester"/ or (phthalate* or phthalate* or phtalate*).ti,ab. (12381)
- 30 Styrene/ or styrene*.ti,ab. (13507)
- 31 polycyclic aromatic hydrocarbon/ or "benzo[a]pyrene derivative"/ (29370)
- 32 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*).ti,ab. (24236)
- 33 antiperspirant agent/ or talc/ or deodorant agent/ or perfume/ (7459)
- 34 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab. (4608)
- 35 (limonene or pinene or carene).ti,ab. (7710)
- 36 fragrance/ (4523)
- 37 "air freshener*".ti,ab. (162)
- 38 (candle or candles).ti,ab. (1117)
- 39 aerosol/ae (303)
- 40 toluene/ or toluene.ti,ab. (28032)
- 41 solvent/ or solvent*.ti,ab. (182515)
- 42 40 or 41 (204203)
- 43 drug dependence/ or inhalant abuse/ or substance abuse/ (95191)
- 44 ("glue sniff*" or "glue-sniff*" or "solvent abuse*" or "solvent-abuse*").ti,ab. (507)
- 45 43 or 44 (95577)
- 46 42 not 45 (203181)
- 47 or/2-39 (594173)
- 48 46 or 47 (768133)
- 49 bacterium/ or fungus/ or Stachybotrys/ or microbiology/ (442375)

- 50 (biological agent* or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti,ab. (991520)
- 51 bacterial spore/ or fungus spore/ (21725)
- 52 Endotoxin/ (36201)
- 53 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti,ab. (129672)
- 54 "moisture damage*".ti,ab. (165)
- 55 humidity/ (29863)
- 56 or/49-55 (1395129)
- 57 (dust or dusty or dustmite*).ti,ab. or dust/ (54137)
- 58 exp Pyroglyphidae/ (10354)
- 59 (Dermatophagoid* or pyroglyphid*).ti,ab. (5498)
- 60 (Cimex adj (lectularius or hemipterus)).ti,ab. (396)
- 61 Cimex/ or (bedbug* or "bed bug").ti,ab. (851)
- 62 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti,ab. (2455)
- 63 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people)).ti,ab. (9182)
- 64 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti,ab. (2190)
- 65 ((avian or bird*) adj3 feather*).ti,ab. (689)
- 66 dander/ or dander.ti,ab. (1991)
- 67 or/57-66 (73876)
- 68 heating/ or cooking/ (40883)
- 69 fossil fuel/ or coal/ or natural gas/ or wood/ (25989)
- 70 butane/ or propane/ or (butane or propane).ti,ab. (11887)
- 71 ((lpg or "liquid petroleum") not "lipophosphoglycan").ti,ab. (1099)
- 72 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or heat* or stove* or burner* or boiler* or furnace*)).ti,ab. (8422)
- 73 or/68-72 (83547)
- 74 paint/ (5279)

- 75 adhesive agent/ (11261)
- 76 exp lead poisoning/ (12377)
- 77 Dichloromethane/ (11346)
- 78 (dichloromethane or "methylene chloride").ti,ab. (14277)
- 79 exp domestic chemical/ (17589)
- 80 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*").ti,ab. (3735)
- 81 building/ or building material/ (11640)
- 82 furniture/ (4417)
- 83 or/74-82 (81784)
- 84 48 or 56 or 67 or 73 or 83 (2269968)
- 85 housing/ (21336)
- 86 exp residential home/ (6812)
- 87 exp Nursing Home/ (49868)
- 88 home for the aged/ (11697)
- 89 (indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab. (665173)
- 90 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*").ti,ab. (846)
- 91 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters).ti,ab. (14967)
- 92 flats.ti,ab. (1222)
- 93 (garage* and (integral or integrated or attach*).ti,ab. (76)
- 94 (caravan* or "mobile home*").ti,ab. (272)
- 95 (boat or boats or houseboat*).ti. (767)
- 96 or/85-95 (704339)
- 97 (bedroom* or "bed room*").ti,ab. (2980)
- 98 (dormitory or dormitories).ti,ab. (741)
- 99 ("drawing room*" or drawingroom* or "drawing-room*" or front room*" or frontroom* or "front-room*" or sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab. (1341)

- 100 (hall or halls or hallway* or stairwell*).ti,ab. (8421)
- 101 (kitchen* or "dining room*" or dining-room* or diningroom*).ti,ab. (5761)
- 102 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab. (2021)
- 103 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti,ab. (140)
- 104 "utility room*".ti,ab. (32)
- 105 or/97-104 (19963)
- 106 96 or 105 (718263)
- 107 animal housing/ (9044)
- 108 livestock/ or bovine/ or pig/ or minipig/ (56565)
- 109 exp goat/ or exp sheep/ (131161)
- 110 (pig or pigs or goat or goats or sheep or cow or cows).ti,ab. (386362)
- 111 or/107-110 (477761)
- 112 106 not 111 (697539)
- 113 84 and 112 (79444)
- 114 limit 113 to english language (71814)
- 115 limit 114 to yr="1970 -Current" (71380)
- 116 limit 115 to (conference abstract or conference paper or "conference review" or editorial or letter) (14690)
- 117 115 not 116 (56690)
- 118 health-economics/ or exp economic-evaluation/ or exp health-care-cost/ or pharmacoeconomics/ or Monte Carlo Method/ or Decision Tree/ (531067)
- 119 (Economic* or cost or costs or costly or costing or costed or price or prices or pricing or pharmacoeconomic* or pharmaco economic* or budget*).ti,ab. (892316)
- 120 ((monte adj carlo) or markov or (decision adj2 (tree\$ or analys\$))).ti,ab. (74287)
- 121 (value adj2 (money or monetary)).ti,ab. (2794)
- 122 Quality of Life/ or Quality Adjusted Life Year/ or Quality of Life Index/ or Short Form 36/ or Health Status/ (511636)
- 123 (quality of life or quality adjusted life or qaly* or qald* or qale* or qtime* or quality of wellbeing or quality of well-being or willingness to pay or standard gamble* or time trade off* or time tradeoff*).ti,ab. (365070)
- 124 (disability adjusted life or daly).ti,ab. (3618)

125 Health* year* equivalent*.ti,ab. (40)

126 (sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six or sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six or sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve or sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen or sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty or euroqol or euro qol or eq5d or eq 5d).ti,ab. (58431)

127 or/118-126 (1680595)

128 Nonhuman/ not (Human/ and Nonhuman/) (4191099)

129 (bovine or sheep or pig or pigs or porcine or cow or cows).ti,ab,sh. (653529)

130 (comment or editorial or letter or news).pt. (1598899)

131 (((energy or oxygen) adj cost*) or (metabolic adj cost*) or ((energy or oxygen) adj expenditure*)).ti,ab. (34361)

132 or/128-131 (6162123)

133 127 not 132 (1504379)

134 117 and 133 (4296)

Cochrane NHS EED Econ

Database: NHS Economic Evaluation Database : Issue 2 of 4, April 2015

Search Strategy:

ID Search Hits

#1 (indoor next (environment or environments or exposure)):ti,ab 52

**#2 ((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)):ti,ab
2274**

#3 ("indoor air pollut*" or "indoor air quality"):ti,ab 97

#4 (indoor next (climate or climates)):ti,ab 9

#5 [mh "Air Pollution, Indoor"] 188

#6 {or #1-#5} in Economic Evaluations 5

#7 {or #1-#5} Publication Year from 1970 to 2018, in Economic Evaluations 5

Cochrane HTA

Strategy		
#1	(indoor next (environment or environments or exposure)):ti,ab	45

#2	((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)):ti,ab	2033
#3	("indoor air pollut*" or "indoor air quality"):ti,ab	81
#4	(indoor next (climate or climates)):ti,ab	9
#5	[mh "Air Pollution, Indoor"]	185
#6	{or #1-#5} in HTA	5

Database name: Econlit (Broad and Core sets)

Database: Econlit <1886 to July 05, 2018>

Search Strategy:

- 1 (indoor adj (environment or environments or exposure)).ti,ab,sh. (12)
- 2 ((indoor* or home or homes or house or houses or housing or household or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*) and (air* or aero* or pollut*)).ti,ab. (2149)
- 3 "indoor air quality".ti,ab,sh. (23)
- 4 (indoor adj (climate or climates)).ti,ab. (3)
- 5 or/1-4 (2157)
- 6 ("nitrogen oxide*" or "nitrogen dioxide*" or NO2 or ozone or nox or "black carbon*" or "carbon monoxide" or "carbon dioxide" or CO2).ti,ab. (5913)
- 7 ("particulate matter*" or "particulate emission*" or particulates or "pm emission*").ti,ab,sh. (361)
- 8 ((fine or ultrafine) adj (particulat* or particle*)).ti,ab,sh. (72)
- 9 "PM 2.5".ti,ab,sh. (6)
- 10 "PM2.5".ti,ab,sh. (96)
- 11 "PM(2.5)".ti,ab,sh. (6)
- 12 "PM 10".ti,ab,sh. (11)
- 13 "PM10".ti,ab,sh. (109)
- 14 "PM(10)".ti,ab,sh. (11)
- 15 ((coal or fly or fuel) adj3 (ash or ashes)).ti,ab,sh. (21)
- 16 (soot or smoke).ti,ab,sh. (534)
- 17 (VOC or VOCs or TVOC or TVOCs or "volatile organic compound*" or "total volatile organic compound*" or "volatile chemical product*").ti,ab,sh. (131)
- 18 (benzene* or naphthalene* or trichloroethylene* or tetrachloroethylene* or formaldehyde*).ti,ab,sh. (25)
- 19 ("halogenated diphenyl" or "polyvinyl chloride*").ti,ab,sh. (3)
- 20 ("flame retard*" or "fire resistan*" or "diphenyl ether*" or "PBDE").ti,ab,sh. (2)
- 21 (plasticiser* or plasticizer*).ti,ab,sh. (3)

- 22 (phthalate* or pthalate* or phtalate*).ti,ab,sh. (1)
- 23 styrene*.ti,ab,sh. (0)
- 24 ("polycyclic aromatic hydrocarbon*" or "polynuclear aromatic hydrocarbon*" or benzopyrene* or benzoapyrene*).ti,ab,sh. (6)
- 25 (anti-perspirant* or antiperspirant* or talc or talcum or deodorant* or deodourant*).ti,ab,sh. (6)
- 26 (limonene or pinene or carene).ti,ab,sh. (0)
- 27 odorant*.ti,ab,sh. (0)
- 28 "air freshener".ti,ab,sh. (1)
- 29 (candle or candles).ti,ab,sh. (35)
- 30 aerosol*.ti,ab,sh. (43)
- 31 toluene.ti,ab,sh. (4)
- 32 solvent*.ti,ab,sh. (348)
- 33 (stachybotrys or "biological agent*" or bioaerosol* or microbe* or microbial or fungus or fungal* or fungi or spore* or bacteria*).ti,ab. (325)
- 34 endotoxin*.ti,ab,sh. (1)
- 35 (mould* or mold* or damp or dampness or dew* or mildew* or humidity or humid or condensation).ti,ab,sh. (1179)
- 36 "moisture damage".ti,ab,sh. (1)
- 37 (dust or dusty or dustmite*).ti,ab,sh. (140)
- 38 (Dermatophagoid* or pyroglyphid*).ti,ab,sh. (0)
- 39 (Cimex adj (lectularius or hemipterus)).ti,ab,sh. (0)
- 40 (bedbug* or "bed bug").ti,ab,sh. (0)
- 41 ((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and infest*).ti,ab,sh. (0)
- 42 (((cockroach* or mice or mouse or rat or rats or rodent* or flea or fleas) and (transmit* or transmission or spread*)) adj5 (human* or people)).ti,ab,sh. (0)
- 43 ((cat* or dog* or animal* or pet or pets) adj3 (hair or hairs or fur)).ti,ab,sh. (3)
- 44 ((avian or bird*) adj3 feather*).ti,ab,sh. (34)
- 45 dander.ti,ab,sh. (1)
- 46 or/6-45 (8849)

- 47 (heating or cooking).ti,sh. (293)
- 48 ("fossil fuels" or coal or "natural gas" or wood).ti,ab,sh. (7769)
- 49 (butane or propane).ti,ab,sh. (36)
- 50 ((lpg or "liquid petroleum") not "lipophosphoglycan").ti,ab,sh. (104)
- 51 ((gas or gas-* or wood or wood-* or coal or coal-* or charcoal* or electric* or paraffin or kerosene or calor) adj5 (cook* or oven* or heat* or stove* or burner* or boiler* or furnace*)).ti,ab,sh. (567)
- 52 or/47-51 (8366)
- 53 (paint or paints).ti,ab,sh. (290)
- 54 adhesives.ti,ab,sh. (6)
- 55 "lead poison".ti,ab,sh. (24)
- 56 (dichloromethane or "methylene chloride").ti,ab,sh. (1)
- 57 (household adj1 (product or products)).ti,ab,sh. (20)
- 58 (carpet* or rug or rugs or "floor covering*" or "floorcovering*" or "floor-covering*").ti,ab,sh. (101)
- 59 furnishings.ti,ab,sh. (35)
- 60 (pesticide* or insecticide* or acaricide* or "insect repellent*" or rodenticide*).ti,ab,sh. (1104)
- 61 (incense or joss stick*).ti,ab,sh. (2)
- 62 or/53-61 (1570)
- 63 (indoor* or home or homes or house or houses or housing or household* or residential or residence* or dwelling* or domicil* or domestic or accommodation or habitation or lodging*).ti,ab. (120197)
- 64 (towerblock* or tower block* or highrise* or "high rise" or multistor* or "multi stor*").ti,ab,sh. (138)
- 65 (apartment* or hostel* or "care home*" or bungalow* or bedsit* or "bed sit*" or shelter or shelters).ti,ab. (1291)
- 66 flats.ti,ab. (124)
- 67 (garage* and (integral or integrated or attach*)).ti,ab,sh. (2)
- 68 (caravan* or "mobile home*").ti,ab,sh. (69)
- 69 (boat or boats or houseboat*).ti. (115)
- 70 (bedroom* or "bed room*").ti,ab. (55)

- 71 (dormitory or dormitories).ti,ab. (36)
- 72 ("drawing room*" or drawingroom* or "drawing-room* or front room*" or frontroom* or "front-room* or sitting room*" or sittingroom* or "sitting-room*" or livingroom* or "living room*" or "living-room*" or lounge).ti,ab. (17)
- 73 (hall or halls or hallway* or stairwell*).ti,ab. (951)
- 74 (kitchen* or "dining room*" or dining-room* or diningroom*).ti,ab. (126)
- 75 ("bath room*" or bathroom* or "shower room*" or "shower-room*").ti,ab. (34)
- 76 (cloakroom* or "cloak room*" or cloak-room* or washroom* or wash-room* or "wash room*").ti,ab. (3)
- 77 "utility room*".ti,ab. (0)
- 78 or/63-77 (122006)
- 79 (pig or pigs or porcine or goat or goats or bovine or sheep or cow or cows).ti,ab,sh. (1520)
- 80 78 not 79 (121811)
- 81 46 or 52 or 62 (17793)
- 82 80 and 81 (2664)
- 83 5 or 82 (4426)
- 84 limit 83 to yr="1970 -Current" (4415)
- 85 limit 84 to (books or book reviews or dissertations) (548)
- 86 84 not 85 (3867)
- 87 limit 86 to english (3620)

Campbell Library

Searched existing reviews for keywords: *indoor OR indoors*. 1 result, downloaded manually.

Also browsed all reviews. No additional results.

Google Scholar

Date searched	16 th July 2018
Search terms	((quality OR pollution) AND ("indoor air") AND (economic* OR cost* OR price* OR pricing OR pharmacoeconomic* OR budget*)) -radon -factory -office
How the results were selected	First 50 results downloaded and imported into EndNote

7 Re-runs

Searches were re-run 6 weeks before the final committee meeting before consultation to identify any further evidence that had been published since the search was originally run. Searches were re-run in the following sources, for the named RQ/set, for the dates shown. The cost effectiveness search was not re-run.

Additionally, a handsearch of the contents pages of "Indoor Air Journal" was carried out because of a concern that the number of items indexed in MEDLINE seemed disproportionately low to the number of editions of the journal. The results were added to each search set given to the analyst, as they had potential to be relevant to any RQ.

Handsearching used the following exclusion criteria:

- Non domestic settings
- Radon
- Asbestos
- Animal tests
- Laboratory only settings / experiments / simulations
- Calibration/development of measurement devices
- Outdoor air pollution
- Non-transferable settings eg Arctic climate
- Publication type eg conference proceedings, editorials

RQ / source	Re-run search date span	Total number of results	Comments
Broad search: Medline, Embase,	6 March to 19 Sept 2018	806	Not Google, Google Scholar, OpenGrey

RQ / source	Re-run search date span	Total number of results	Comments
HMIC, SPP, Cochrane, Greenfile			
RQ1 RQ2: Medline, Embase, HMIC, SPP, Cochrane, Greenfile, Google, Google Scholar, OpenGrey	29 March to 19 Sept 2018	1426	RQ1 RQ2 also had WoS, which is a 'core set' search so only needs doing once - listed separately below
RQ3.1: Medline, Embase,	19 May to 19 Sept 2018	1345	RQ3.1 also had WoS, which is a 'core set' search so only needs doing once - listed separately below.
HMIC, SPP, Cochrane, Greenfile, Google, Google Scholar, OpenGrey	29 March to 19 Sept 2018		RQ3.1 also had the RQ1 RQ2 core sets of HMIC, SPP, Cochrane, Greenfile, Google, Google Scholar, OpenGrey added in as these were a 'core set' search.
RQ3.2: Medline, Embase,	7 June to 19 Sept 2018	1000	RQ3.2 had WoS, which is a 'core set' search so only needs doing once - listed separately below.
HMIC, SPP, Cochrane, Greenfile, Google, Google Scholar, OpenGrey	29 March to 19 Sept 2018		RQ3.2 also had the RQ1 RQ2 core sets of HMIC, SPP, Cochrane, Greenfile, Google, Google Scholar, OpenGrey added in as these were a 'core set' search
RQ4: Medline, Embase, HMIC, SPP, Cochrane, Greenfile, Google, Google Scholar, OpenGrey	9 Aug to 19 Sept 2018	263	

RQ / source	Re-run search date span	Total number of results	Comments
WoS	6 April to 19 Sept 2018	512	A 'core set', searched once, and added to each re-run results set
Indoor Air Journal	Editions December 1991 to September 2018	167	Handsearch, details above, and added to each re-run results set.

