

## ADHD SEARCH STRATEGIES

### Intervention search strategy 1

This literature search strategy was used for the following reviews;

- Combined pharmacological and non-pharmacological treatments
- Efficacy of non-pharmacological treatment

The literature searches for this review are outlined below and complied with the methodology outlined in Developing NICE guidelines: the manual, Oct 2014, <https://www.nice.org.uk/media/default/about/what-we-do/our-programmes/developing-nice-guidelines-the-manual.pdf>.

*For more detailed information, please see the Methodology Review.*

### 1 Clinical search literature search strategy

Searches for were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies for interventions as these concepts may not be well described in title, abstract or indexes and therefore difficult to retrieve. Search filters were applied to the search where appropriate.

**Table 1: Database date parameters and filters used**

Database	Dates searched	Search filter used
Medline (OVID)	01 October 2007 – 28 April 2017	Exclusions Randomised controlled trials Systematic review studies
Embase (OVID)	01 October 2007 – 28 April 2017	Exclusions Randomised controlled trials Systematic review studies
The Cochrane Library (Wiley)	Cochrane Reviews 2007 to 2017 Issue 4 of 12 CENTRAL 2007 to 2017 Issue 3 of 12 DARE and NHSEED 2007 to 2015 Issue 1 of 4 HTA 2007 to 2017 Issue 1 of 4	None
PsycINFO (ProQuest)	01 October 2007 – 28 April 2017	Exclusions Randomised controlled trials Systematic review studies

### Medline (Ovid) search terms

1.	"attention deficit and disruptive behavior disorders"/ or attention deficit disorder with hyperactivity/
2.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)).ti.
3.	((attenti* or disrupt*) adj3 disorder*).ab.
4.	(adhd or addh or ad hd or ad??hd).ti,ab.
5.	(attenti* adj3 deficit*).ti,ab.
6.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.

7.	(minimal brain adj2 (dysfunct* or disorder*)).ti,ab.
8.	or/1-7
9.	exp Child Development Disorders, Pervasive/
10.	(autistic or autism or asperger*).ti,ab.
11.	pervasive developmental disorder*.ti,ab.
12.	(asd or pdd or pdd-nos).ti,ab.
13.	or/9-12
14.	hyperkinesis/
15.	(hyperactiv* or inattent* or hyperkin* or hyper-kin*).ti,ab.
16.	14 or 15
17.	13 and 16
18.	8 or 17
19.	limit 18 to English language
20.	letter/
21.	editorial/
22.	news/
23.	exp historical article/
24.	Anecdotes as Topic/
25.	comment/
26.	case report/
27.	(letter or comment*).ti.
28.	or/20-27
29.	randomized controlled trial/ or random*.ti,ab.
30.	28 not 29
31.	animals/ not humans/
32.	Animals, Laboratory/
33.	exp animal experiment/
34.	exp animal model/
35.	exp Rodentia/
36.	(rat or rats or mouse or mice).ti.
37.	or/30-36
38.	19 not 37
39.	randomized controlled trial.pt.
40.	controlled clinical trial.pt.
41.	randomi#ed.ab.
42.	placebo.ab.
43.	drug therapy.fs.
44.	randomly.ab.
45.	trial.ab.
46.	groups.ab.
47.	or/39-46
48.	Clinical Trials as topic.sh.
49.	trial.ti.
50.	or/39-42,44,48-49
51.	Meta-Analysis/
52.	Meta-Analysis as Topic/
53.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.

54.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
55.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
56.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
57.	(search* adj4 literature).ab.
58.	(medline or pubmed or cochrane or embase or psychlit or psychlit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
59.	cochrane.jw.
60.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
61.	or/51-60
62.	38 and (50 or 61)

### Embase (Ovid) search terms

1.	attention deficit disorder/
2.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)).ti.
3.	((attenti* or disrupt*) adj3 disorder*).ab.
4.	(adhd or addh or ad hd or ad??hd).ti,ab.
5.	(attenti* adj3 deficit*).ti,ab.
6.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
7.	(minimal brain adj2 (dysfunct* or disorder*)).ti,ab.
8.	or/1-7
9.	exp autism/
10.	(autistic or autism or asperger*).ti,ab.
11.	pervasive developmental disorder*.ti,ab.
12.	(asd or pdd or pdd-nos).ti,ab.
13.	or/9-12
14.	hyperactivity/
15.	hyperkinesia/
16.	(hyperactiv* or inattent* or hyperkin* or hyper-kin*).ti,ab.
17.	or/14-16
18.	13 and 17
19.	8 or 18
20.	limit 19 to English language
21.	letter.pt. or letter/
22.	note.pt.
23.	editorial.pt.
24.	case report/ or case study/
25.	(letter or comment*).ti.
26.	or/21-25
27.	randomized controlled trial/ or random*.ti,ab.
28.	26 not 27
29.	animal/ not human/
30.	nonhuman/
31.	exp Animal Experiment/
32.	exp Experimental Animal/

33.	animal model/
34.	exp Rodent/
35.	(rat or rats or mouse or mice).ti.
36.	or/28-35
37.	20 not 36
38.	random*.ti,ab.
39.	factorial*.ti,ab.
40.	(crossover* or cross over*).ti,ab.
41.	((doubl* or singl*) adj blind*).ti,ab.
42.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
43.	crossover procedure/
44.	single blind procedure/
45.	randomized controlled trial/
46.	double blind procedure/
47.	or/38-46
48.	systematic review/
49.	meta-analysis/
50.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
51.	((systematic or evidence) adj3 (review* or overview*)).ti,ab.
52.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
53.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
54.	(search* adj4 literature).ab.
55.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
56.	cochrane.jw.
57.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
58.	or/48-57
59.	37 and (47 or 58)

### Cochrane Library (Wiley) search terms

#1.	[mh ^"attention deficit and disruptive behavior disorders"]
#2.	[mh ^"attention deficit disorder with hyperactivity"]
#3.	((attenti* or disrupt*) near/3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)):ti
#4.	((attenti* or disrupt*) near/3 disorder*):ab
#5.	(adhd or addh or ad next hd or ad-hd):ti,ab
#6.	(attenti* near/3 deficit*):ti,ab
#7.	((hyperkin* or (hyper near/1 kin*)) near/1 (syndrome* or disorder*)) or hkd):ti,ab
#8.	(minimal near/1 brain near/2 (dysfunct* or disorder*)):ti,ab
#9.	(or #1-#8)
#10.	[mh "Child Development Disorders, Pervasive"]
#11.	(autistic or autism or asperger*):ti,ab
#12.	(pervasive next developmental next disorder*):ti,ab
#13.	(asd or pdd or pdd-nos):ti,ab
#14.	(or #10-#13)
#15.	[mh ^hyperkinesis]

#16.	(hyperactiv* or inattent* or hyperkin* or hyper-kin*):ti,ab
#17.	#15 or #16
#18.	#14 and #17

### PsycINFO (ProQuest) search terms

1.	(SU.EXACT.EXPLODE("Attention Deficit Disorder") OR TI((attenti* OR disrupt*) NEAR/3 (adolescent* OR adult* OR behav* OR child* OR class OR classes OR classroom* OR condition* OR difficult* OR disorder* OR learn* OR people OR person* OR poor OR problem* OR process* OR youngster*)) OR AB((attenti* OR disrupt*) NEAR/3 disorder*) OR TI,AB(adhd OR addh OR ad-hd OR ad??hd) OR TI,AB(attenti* NEAR/3 deficit*) OR TI,AB(((hyperkin* OR (hyper-kin*)) NEAR/1 (syndrome* OR disorder*)) OR hkd) OR TI,AB(minimal NEAR/1 brain NEAR/2 (dysfunct* OR disorder*)) OR ((SU.EXACT.EXPLODE("Autism Spectrum Disorders") or TI,AB(autistic or autism or asperger*) or TI,AB(pervasive-developmental-disorder*) or TI,AB(asd or pdd or pdd-nos)) AND (SU.EXACT("Hyperkineses") or TI,AB(hyperactiv* or inattent* or hyperkin* or hyper-kin*)))
2.	(su.exact.explode("clinical trials") OR ti,ab((clinical OR control*) NEAR/3 trial*) OR ti,ab((single* OR double* OR treble* OR triple*) NEAR/5 (blind* OR mask*)) OR ti,ab(volunteer* OR control-group OR controls) OR su.exact("placebo") OR ti,ab(placebo*))
3.	((SU.EXACT("Literature Review") or RTYPE(review) or ti(review) or me(literature review)) AND (ti,ab(systematic or evidence or methodol* or quantitative*))) or (SU.EXACT("Meta Analysis") or ti,ab(meta-analys* or metanalys* or metaanalys* or meta analys*) or ti,ab((systematic or evidence* or methodol* or quantitative*) near/3 (review* or overview*)) or ti,ab((pool* or combined or combining) near/2 (data or trials or studies or results)) or RTYPE(systematic or meta*) or ME(meta analysis or systematic review))
4.	1 AND (2 OR 3)
5.	Limit to English
6.	NOT (Dissertations & Theses AND Books)

## 2 Health Economics literature search strategies

### 2.1 Health economics search strategy

Health economic evidence was identified by conducting a broad search relating to ADHD population in NHS Economic Evaluation Database (NHS EED – this ceased to be updated after March 2015) and the Health Technology Assessment database (HTA). NHS EED and HTA databases are hosted by the Centre for Research and Dissemination (CRD). Additional searches were run on Medline and Embase.

**Table 2: Database date parameters and filters used**

Database	Dates searched	Search filter used
Medline	2014 – 28 April 2017	Exclusions Health economics
Embase	2014 – 28 April 2017	Exclusions Health economics
Centre for Research and Dissemination (CRD)	HTA - 2008 – 28 April 2017 NHSEED - 2008 to March 2015	None

### Medline (Ovid) search terms

1.	"attention deficit and disruptive behavior disorders"/ or attention deficit disorder with hyperactivity/
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2.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)).ti.
3.	((attenti* or disrupt*) adj3 disorder*).ab.
4.	(adhd or addh or ad hd or ad??hd).ti,ab.
5.	(attenti* adj3 deficit*).ti,ab.
6.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
7.	(minimal brain adj2 (dysfunct* or disorder*)).ti,ab.
8.	or/1-7
9.	limit 8 to English language
10.	letter/
11.	editorial/
12.	news/
13.	exp historical article/
14.	Anecdotes as Topic/
15.	comment/
16.	case report/
17.	(letter or comment*).ti.
18.	or/10-17
19.	randomized controlled trial/ or random*.ti,ab.
20.	18 not 19
21.	animals/ not humans/
22.	Animals, Laboratory/
23.	exp animal experiment/
24.	exp animal model/
25.	exp Rodentia/
26.	(rat or rats or mouse or mice).ti.
27.	or/20-26
28.	9 not 27
29.	Economics/
30.	Value of life/
31.	exp "Costs and Cost Analysis"/
32.	exp Economics, Hospital/
33.	exp Economics, Medical/
34.	Economics, Nursing/
35.	Economics, Pharmaceutical/
36.	exp "Fees and Charges"/
37.	exp Budgets/
38.	budget*.ti,ab.
39.	cost*.ti.
40.	(economic* or pharmaco?economic*).ti.
41.	(price* or pricing*).ti,ab.
42.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
43.	(financ* or fee or fees).ti,ab.
44.	(value adj2 (money or monetary)).ti,ab.
45.	or/29-44

46.	exp models, economic/
47.	*Models, Theoretical/
48.	*Models, Organizational/
49.	markov chains/
50.	monte carlo method/
51.	exp Decision Theory/
52.	(markov* or monte carlo).ti,ab.
53.	econom* model*.ti,ab.
54.	(decision* adj2 (tree* or analy* or model*)).ti,ab.
55.	or/46-54
56.	28 and (45 or 55)

### Embase (Ovid) search terms

1.	attention deficit disorder/
2.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)).ti.
3.	((attenti* or disrupt*) adj3 disorder*).ab.
4.	(adhd or addh or ad hd or ad??hd).ti,ab.
5.	(attenti* adj3 deficit*).ti,ab.
6.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
7.	(minimal brain adj2 (dysfunct* or disorder*)).ti,ab.
8.	or/1-7
9.	limit 8 to English language
10.	letter.pt. or letter/
11.	note.pt.
12.	editorial.pt.
13.	case report/ or case study/
14.	(letter or comment*).ti.
15.	or/10-14
16.	randomized controlled trial/ or random*.ti,ab.
17.	15 not 16
18.	animal/ not human/
19.	nonhuman/
20.	exp Animal Experiment/
21.	exp Experimental Animal/
22.	animal model/
23.	exp Rodent/
24.	(rat or rats or mouse or mice).ti.
25.	or/17-24
26.	9 not 25
27.	statistical model/
28.	exp economic aspect/
29.	27 and 28
30.	*theoretical model/

31.	*nonbiological model/
32.	stochastic model/
33.	decision theory/
34.	decision tree/
35.	monte carlo method/
36.	(markov* or monte carlo).ti,ab.
37.	econom* model*.ti,ab.
38.	(decision* adj2 (tree* or analy* or model*)).ti,ab.
39.	or/29-38
40.	*health economics/
41.	exp *economic evaluation/
42.	exp *health care cost/
43.	exp *fee/
44.	budget/
45.	funding/
46.	budget*.ti,ab.
47.	cost*.ti.
48.	(economic* or pharmaco?economic*).ti.
49.	(price* or pricing*).ti,ab.
50.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
51.	(financ* or fee or fees).ti,ab.
52.	(value adj2 (money or monetary)).ti,ab.
53.	or/40-52
54.	26 and (39 or 53)

### NHS EED and HTA (CRD) search terms

#1.	MeSH DESCRIPTOR Attention Deficit and Disruptive Behavior Disorders
#2.	MeSH DESCRIPTOR Attention Deficit Disorder with Hyperactivity
#3.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)):TI
#4.	((attenti* or disrupt*) adj3 disorder*)
#5.	((adhd or addh or ad hd or ad??hd))
#6.	((attenti* adj3 deficit*))
#7.	(((((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd))
#8.	((minimal brain adj2 (dysfunct* or disorder*)))
#9.	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8
#10.	(#9) IN NHSEED, HTA

## 2.2 Quality of Life search strategy

Quality of life evidence was identified by conducting a broad search relating to ADHD population in Medline and Embase.



**Table 3: Database date parameters and filters used**

Database	Dates searched	Search filters used
Medline	2008 – 28 September 2015	Exclusions Quality of life
Embase	2008 – 28 September 2015	Exclusions Quality of life

**Medline (Ovid) search terms**

1.	"attention deficit and disruptive behavior disorders"/ or attention deficit disorder with hyperactivity/
2.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)).ti.
3.	((attenti* or disrupt*) adj3 disorder*).ab.
4.	(adhd or addh or ad hd or ad??hd).ti,ab.
5.	(attenti* adj3 deficit*).ti,ab.
6.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
7.	(minimal brain adj2 (dysfunct* or disorder*)).ti,ab.
8.	or/1-7
9.	limit 8 to English language
10.	letter/
11.	editorial/
12.	news/
13.	exp historical article/
14.	Anecdotes as Topic/
15.	comment/
16.	case report/
17.	(letter or comment*).ti.
18.	or/10-17
19.	randomized controlled trial/ or random*.ti,ab.
20.	18 not 19
21.	animals/ not humans/
22.	Animals, Laboratory/
23.	exp animal experiment/
24.	exp animal model/
25.	exp Rodentia/
26.	(rat or rats or mouse or mice).ti.
27.	or/20-26
28.	9 not 27
29.	quality-adjusted life years/
30.	sickness impact profile/
31.	(quality adj2 (wellbeing or well being)).ti,ab.
32.	sickness impact profile.ti,ab.
33.	disability adjusted life.ti,ab.
34.	(qal* or qtime* or qwb* or daly*).ti,ab.
35.	(euroqol* or eq5d* or eq 5*).ti,ab.

36.	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
37.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
38.	(hui or hui1 or hui2 or hui3).ti,ab.
39.	(health* year* equivalent* or hye or hyes).ti,ab.
40.	discrete choice*.ti,ab.
41.	rosser.ti,ab.
42.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
43.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
44.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
45.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
46.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
47.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
48.	or/29-47
49.	28 and 48

### Embase (Ovid) search terms

1.	attention deficit disorder/
2.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*).ti.
3.	((attenti* or disrupt*) adj3 disorder*).ab.
4.	(adhd or addh or ad hd or ad??hd).ti,ab.
5.	(attenti* adj3 deficit*).ti,ab.
6.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
7.	(minimal brain adj2 (dysfunct* or disorder*).ti,ab.
8.	or/1-7
9.	limit 8 to English language
10.	letter.pt. or letter/
11.	note.pt.
12.	editorial.pt.
13.	case report/ or case study/
14.	(letter or comment*).ti.
15.	or/10-14
16.	randomized controlled trial/ or random*.ti,ab.
17.	15 not 16
18.	animal/ not human/
19.	nonhuman/
20.	exp Animal Experiment/
21.	exp Experimental Animal/
22.	animal model/
23.	exp Rodent/
24.	(rat or rats or mouse or mice).ti.
25.	or/17-24
26.	9 not 25
27.	quality adjusted life year/

28.	"quality of life index"/
29.	short form 12/ or short form 20/ or short form 36/ or short form 8/
30.	sickness impact profile/
31.	(quality adj2 (wellbeing or well being)).ti,ab.
32.	sickness impact profile.ti,ab.
33.	disability adjusted life.ti,ab.
34.	(qal* or qtime* or qwb* or daly*).ti,ab.
35.	(euroqol* or eq5d* or eq 5*).ti,ab.
36.	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
37.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
38.	(hui or hui1 or hui2 or hui3).ti,ab.
39.	(health* year* equivalent* or hye or hyes).ti,ab.
40.	discrete choice*.ti,ab.
41.	rosser.ti,ab.
42.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
43.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
44.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
45.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
46.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
47.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
48.	or/27-47
49.	26 and 48

## **Intervention search strategy 2**

This literature search strategy was used for the following reviews;

- Drug holidays from pharmacological treatment
- Clinical and cost-effective pharmacological treatment
- Sequence of pharmacological treatment
- Withdrawal from pharmacological treatment

The literature searches for this review are outlined below and complied with the methodology outlined in Developing NICE guidelines: the manual, Oct 2014, <https://www.nice.org.uk/media/default/about/what-we-do/our-programmes/developing-nice-guidelines-the-manual.pdf>.

*For more detailed information, please see the Methodology Review.*

### **1 Clinical search literature search strategy**

Searches for were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies for interventions as these concepts may not be well described in title, abstract or indexes and therefore difficult to retrieve. Search filters were applied to the search where appropriate.

**Table 1: Database date parameters and filters used**

<b>Database</b>	<b>Dates searched</b>	<b>Search filter used</b>
Medline (OVID)	01 October 2007 – 28 April 2017	Exclusions Randomised controlled trials Systematic review studies
Embase (OVID)	01 October 2007 – 28 April 2017	Exclusions Randomised controlled trials Systematic review studies
The Cochrane Library (Wiley)	Cochrane Reviews 2007 to 2017 Issue 4 of 12 CENTRAL 2007 to 2017 Issue 3 of 12 DARE and NHSEED 2007 to 2015 Issue 1 of 4 HTA 2007 to 2017 Issue 1 of 4	None
PsycINFO (ProQuest)	01 October 2007 – 28 April 2017	Exclusions Randomised controlled trials Systematic review studies

### **Medline (Ovid) search terms**

63.	"attention deficit and disruptive behavior disorders"/ or attention deficit disorder with hyperactivity/
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64.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)).ti.
65.	((attenti* or disrupt*) adj3 disorder*).ab.
66.	(adhd or addh or ad hd or ad??hd).ti,ab.
67.	(attenti* adj3 deficit*).ti,ab.
68.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
69.	(minimal brain adj2 (dysfunct* or disorder*)).ti,ab.
70.	or/1-7
71.	exp Child Development Disorders, Pervasive/
72.	(autistic or autism or asperger*).ti,ab.
73.	pervasive developmental disorder*.ti,ab.
74.	(asd or pdd or pdd-nos).ti,ab.
75.	or/9-12
76.	hyperkinesis/
77.	(hyperactiv* or inattent* or hyperkin* or hyper-kin*).ti,ab.
78.	14 or 15
79.	13 and 16
80.	8 or 17
81.	limit 18 to English language
82.	letter/
83.	editorial/
84.	news/
85.	exp historical article/
86.	Anecdotes as Topic/
87.	comment/
88.	case report/
89.	(letter or comment*).ti.
90.	or/20-27
91.	randomized controlled trial/ or random*.ti,ab.
92.	28 not 29
93.	animals/ not humans/
94.	Animals, Laboratory/
95.	exp animal experiment/
96.	exp animal model/
97.	exp Rodentia/
98.	(rat or rats or mouse or mice).ti.
99.	or/30-36
100.	19 not 37
101.	randomized controlled trial.pt.
102.	controlled clinical trial.pt.
103.	randomi#ed.ab.
104.	placebo.ab.
105.	drug therapy.fs.
106.	randomly.ab.
107.	trial.ab.
108.	groups.ab.

109.	or/39-46
110.	Clinical Trials as topic.sh.
111.	trial.ti.
112.	or/39-42,44,48-49
113.	Meta-Analysis/
114.	Meta-Analysis as Topic/
115.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
116.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
117.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
118.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
119.	(search* adj4 literature).ab.
120.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
121.	cochrane.jw.
122.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
123.	or/51-60
124.	38 and (50 or 61)

### Embase (Ovid) search terms

60.	attention deficit disorder/
61.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)).ti.
62.	((attenti* or disrupt*) adj3 disorder*).ab.
63.	(adhd or addh or ad hd or ad??hd).ti,ab.
64.	(attenti* adj3 deficit*).ti,ab.
65.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
66.	(minimal brain adj2 (dysfunct* or disorder*)).ti,ab.
67.	or/1-7
68.	exp autism/
69.	(autistic or autism or asperger*).ti,ab.
70.	pervasive developmental disorder*.ti,ab.
71.	(asd or pdd or pdd-nos).ti,ab.
72.	or/9-12
73.	hyperactivity/
74.	hyperkinesia/
75.	(hyperactiv* or inattent* or hyperkin* or hyper-kin*).ti,ab.
76.	or/14-16
77.	13 and 17
78.	8 or 18
79.	limit 19 to English language
80.	letter.pt. or letter/
81.	note.pt.
82.	editorial.pt.
83.	case report/ or case study/
84.	(letter or comment*).ti.

85.	or/21-25
86.	randomized controlled trial/ or random*.ti,ab.
87.	26 not 27
88.	animal/ not human/
89.	nonhuman/
90.	exp Animal Experiment/
91.	exp Experimental Animal/
92.	animal model/
93.	exp Rodent/
94.	(rat or rats or mouse or mice).ti.
95.	or/28-35
96.	20 not 36
97.	random*.ti,ab.
98.	factorial*.ti,ab.
99.	(crossover* or cross over*).ti,ab.
100.	((doubl* or singl*) adj blind*).ti,ab.
101.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
102.	crossover procedure/
103.	single blind procedure/
104.	randomized controlled trial/
105.	double blind procedure/
106.	or/38-46
107.	systematic review/
108.	meta-analysis/
109.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
110.	((systematic or evidence) adj3 (review* or overview*)).ti,ab.
111.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
112.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
113.	(search* adj4 literature).ab.
114.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
115.	cochrane.jw.
116.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
117.	or/48-57
118.	37 and (47 or 58)

### Cochrane Library (Wiley) search terms

#19.	[mh ^"attention deficit and disruptive behavior disorders"]
#20.	[mh ^"attention deficit disorder with hyperactivity"]
#21.	((attenti* or disrupt*) near/3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)):ti
#22.	((attenti* or disrupt*) near/3 disorder*):ab
#23.	(adhd or addh or ad next hd or ad-hd):ti,ab
#24.	(attenti* near/3 deficit*):ti,ab
#25.	((hyperkin* or (hyper near/1 kin*)) near/1 (syndrome* or disorder*)) or hkd):ti,ab
#26.	(minimal near/1 brain near/2 (dysfunct* or disorder*)):ti,ab

#27.	(or #1-#8)
#28.	[mh "Child Development Disorders, Pervasive"]
#29.	(autistic or autism or asperger*):ti,ab
#30.	(pervasive next developmental next disorder*):ti,ab
#31.	(asd or pdd or pdd-nos):ti,ab
#32.	(or #10-#13)
#33.	[mh ^hyperkinesis]
#34.	(hyperactiv* or inattent* or hyperkin* or hyper-kin*):ti,ab
#35.	#15 or #16
#36.	#14 and #17
#37.	#9 and #17

### PsycINFO (ProQuest) search terms

7.	(SU.EXACT.EXPLODE("Attention Deficit Disorder") OR TI((attenti* OR disrupt*) NEAR/3 (adolescent* OR adult* OR behav* OR child* OR class OR classes OR classroom* OR condition* OR difficult* OR disorder* OR learn* OR people OR person* OR poor OR problem* OR process* OR youngster*)) OR AB((attenti* OR disrupt*) NEAR/3 disorder*) OR TI,AB(adhd OR addh OR ad-hd OR ad??hd) OR TI,AB(attenti* NEAR/3 deficit*) OR TI,AB(((hyperkin* OR (hyper-kin*)) NEAR/1 (syndrome* OR disorder*)) OR hkd) OR TI,AB(minimal NEAR/1 brain NEAR/2 (dysfunct* OR disorder*))) OR ((SU.EXACT.EXPLODE("Autism Spectrum Disorders") or TI,AB(autistic or autism or asperger*) or TI,AB(pervasive-developmental-disorder*) or TI,AB(asd or pdd or pdd-nos)) AND (SU.EXACT("Hyperkinesis") or TI,AB(hyperactiv* or inattent* or hyperkin* or hyper-kin*)))
8.	(su.exact.explode("clinical trials") OR ti,ab((clinical OR control*) NEAR/3 trial*) OR ti,ab((single* OR double* OR treble* OR triple*) NEAR/5 (blind* OR mask*)) OR ti,ab(volunteer* OR control-group OR controls) OR su.exact("placebo") OR ti,ab(placebo*))
9.	((SU.EXACT("Literature Review") or RTYPE(review) or ti(review) or me(literature review)) AND (ti,ab(systematic or evidence or methodol* or quantitative*))) or (SU.EXACT("Meta Analysis") or ti,ab(meta-analys* or metanalys* or metaanalys* or meta analys*) or ti,ab((systematic or evidence* or methodol* or quantitative*) near/3 (review* or overview*)) or ti,ab((pool* or combined or combining) near/2 (data or trials or studies or results)) or RTYPE(systematic or meta*) or ME(meta analysis or systematic review))
10.	1 AND (2 OR 3)
11.	Limit to English
12.	NOT (Dissertations & Theses AND Books)

## 2 Health Economics literature search strategy

Health economic evidence was identified by conducting a broad search relating to ADHD population in NHS Economic Evaluation Database (NHS EED – this ceased to be updated after March 2015) and the Health Technology Assessment database (HTA) with no date restrictions. NHS EED and HTA databases are hosted by the Centre for Research and Dissemination (CRD). Additional searches were run on Medline and Embase.

**Table 2: Database date parameters and filters used**

Database	Dates searched	Search filter used
Medline	2014 – 28 April 2017	Exclusions Health economics
Embase	2014 – 28 April 2017	Exclusions Health economics



Database	Dates searched	Search filter used
Centre for Research and Dissemination (CRD)	HTA - 2008 – 28 April 2017 NHSEED - 2008 to March 2015	None

### Medline (Ovid) search terms

57.	"attention deficit and disruptive behavior disorders"/ or attention deficit disorder with hyperactivity/
58.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)).ti.
59.	((attenti* or disrupt*) adj3 disorder*).ab.
60.	(adhd or addh or ad hd or ad??hd).ti,ab.
61.	(attenti* adj3 deficit*).ti,ab.
62.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
63.	(minimal brain adj2 (dysfunct* or disorder*)).ti,ab.
64.	or/1-7
65.	limit 8 to English language
66.	letter/
67.	editorial/
68.	news/
69.	exp historical article/
70.	Anecdotes as Topic/
71.	comment/
72.	case report/
73.	(letter or comment*).ti.
74.	or/10-17
75.	randomized controlled trial/ or random*.ti,ab.
76.	18 not 19
77.	animals/ not humans/
78.	Animals, Laboratory/
79.	exp animal experiment/
80.	exp animal model/
81.	exp Rodentia/
82.	(rat or rats or mouse or mice).ti.
83.	or/20-26
84.	9 not 27
85.	Economics/
86.	Value of life/
87.	exp "Costs and Cost Analysis"/
88.	exp Economics, Hospital/
89.	exp Economics, Medical/
90.	Economics, Nursing/
91.	Economics, Pharmaceutical/
92.	exp "Fees and Charges"/
93.	exp Budgets/
94.	budget*.ti,ab.

95.	cost*.ti.
96.	(economic* or pharmaco?economic*).ti.
97.	(price* or pricing*).ti,ab.
98.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
99.	(financ* or fee or fees).ti,ab.
100.	(value adj2 (money or monetary)).ti,ab.
101.	or/29-44
102.	exp models, economic/
103.	*Models, Theoretical/
104.	*Models, Organizational/
105.	markov chains/
106.	monte carlo method/
107.	exp Decision Theory/
108.	(markov* or monte carlo).ti,ab.
109.	econom* model*.ti,ab.
110.	(decision* adj2 (tree* or analy* or model*)).ti,ab.
111.	or/46-54
112.	28 and (45 or 55)

#### Embase (Ovid) search terms

55.	attention deficit disorder/
56.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)).ti.
57.	((attenti* or disrupt*) adj3 disorder*).ab.
58.	(adhd or addh or ad hd or ad??hd).ti,ab.
59.	(attenti* adj3 deficit*).ti,ab.
60.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
61.	(minimal brain adj2 (dysfunct* or disorder*)).ti,ab.
62.	or/1-7
63.	limit 8 to English language
64.	letter.pt. or letter/
65.	note.pt.
66.	editorial.pt.
67.	case report/ or case study/
68.	(letter or comment*).ti.
69.	or/10-14
70.	randomized controlled trial/ or random*.ti,ab.
71.	15 not 16
72.	animal/ not human/
73.	nonhuman/
74.	exp Animal Experiment/
75.	exp Experimental Animal/
76.	animal model/
77.	exp Rodent/

78.	(rat or rats or mouse or mice).ti.
79.	or/17-24
80.	9 not 25
81.	statistical model/
82.	exp economic aspect/
83.	27 and 28
84.	*theoretical model/
85.	*nonbiological model/
86.	stochastic model/
87.	decision theory/
88.	decision tree/
89.	monte carlo method/
90.	(markov* or monte carlo).ti,ab.
91.	econom* model*.ti,ab.
92.	(decision* adj2 (tree* or analy* or model*)).ti,ab.
93.	or/29-38
94.	*health economics/
95.	exp *economic evaluation/
96.	exp *health care cost/
97.	exp *fee/
98.	budget/
99.	funding/
100.	budget*.ti,ab.
101.	cost*.ti.
102.	(economic* or pharmaco?economic*).ti.
103.	(price* or pricing*).ti,ab.
104.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
105.	(financ* or fee or fees).ti,ab.
106.	(value adj2 (money or monetary)).ti,ab.
107.	or/40-52
108.	26 and (39 or 53)

### NHS EED and HTA (CRD) search terms

#1.	MeSH DESCRIPTOR Attention Deficit and Disruptive Behavior Disorders
#2.	MeSH DESCRIPTOR Attention Deficit Disorder with Hyperactivity
#3.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)):TI
#4.	((attenti* or disrupt*) adj3 disorder*)
#5.	((adhd or addh or ad hd or ad??hd))
#6.	((attenti* adj3 deficit*))
#7.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd))
#8.	((minimal brain adj2 (dysfunct* or disorder*))
#9.	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8
#10.	(#9) IN NHSEED, HTA

### **Intervention search strategy 3**

This literature search strategy was used for the following review;

- Safety issues for pharmacological treatments

The literature searches for this review are outlined below and complied with the methodology outlined in Developing NICE guidelines: the manual, Oct 2014:

<https://www.nice.org.uk/media/default/about/what-we-do/our-programmes/developing-nice-guidelines-the-manual.pdf>.

*For more detailed information, please see the Methodology Review.*

#### **1 Clinical search literature search strategy**

Searches for were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies for interventions as these concepts may not be well described in title, abstract or indexed and therefore difficult to retrieve. Search filters were applied to the search where appropriate.

**Table 1: Database date parameters for search**

<b>Database</b>	<b>Dates searched</b>	<b>Search filter used</b>
Medline (Ovid)	01 October 2007 – 28 April 2017	Exclusions Observational Randomised controlled trials Systematic review studies
Embase (Ovid)	01 October 2007 – 28 April 2017	Exclusions Observational Randomised controlled trials Systematic review studies
The Cochrane Library (Wiley)	Cochrane Reviews 2007 to 2017 Issue 4 of 12 CENTRAL 2007 to 2017 Issue 3 of 12 DARE and NHSEED 2007 to 2015 Issue 1 of 4 HTA 2007 to 2017 Issue 1 of 4	None
PsycINFO (ProQuest)	01 October 2007 – 28 April 2017	Exclusions Observational Randomised controlled trials Systematic review studies

#### **Medline (Ovid) search terms**

125.	"attention deficit and disruptive behavior disorders"/ or attention deficit disorder with hyperactivity/
126.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*).ti.
127.	((attenti* or disrupt*) adj3 disorder*).ab.
128.	(adhd or addh or ad hd or ad??hd).ti,ab.
129.	(attenti* adj3 deficit*).ti,ab.
130.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
131.	(minimal brain adj2 (dysfunct* or disorder*).ti,ab.
132.	or/1-7
133.	exp Child Development Disorders, Pervasive/
134.	(autistic or autism or asperger*).ti,ab.
135.	pervasive developmental disorder*.ti,ab.
136.	(asd or pdd or pdd-nos).ti,ab.
137.	or/9-12
138.	hyperkinesis/
139.	(hyperactiv* or inattent* or hyperkin* or hyper-kin*).ti,ab.
140.	14 or 15
141.	13 and 16
142.	8 or 17
143.	limit 18 to English language
144.	letter/
145.	editorial/
146.	news/
147.	exp historical article/
148.	Anecdotes as Topic/
149.	comment/
150.	case report/
151.	(letter or comment*).ti.
152.	or/20-27
153.	randomized controlled trial/ or random*.ti,ab.
154.	28 not 29
155.	animals/ not humans/
156.	Animals, Laboratory/
157.	exp animal experiment/
158.	exp animal model/
159.	exp Rodentia/
160.	(rat or rats or mouse or mice).ti.
161.	or/30-36
162.	19 not 37
163.	randomized controlled trial.pt.
164.	controlled clinical trial.pt.
165.	randomi#ed.ab.
166.	placebo.ab.
167.	drug therapy.fs.
168.	randomly.ab.

169.	trial.ab.
170.	groups.ab.
171.	or/39-46
172.	Clinical Trials as topic.sh.
173.	trial.ti.
174.	or/39-42,44,48-49
175.	Meta-Analysis/
176.	Meta-Analysis as Topic/
177.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
178.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
179.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
180.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
181.	(search* adj4 literature).ab.
182.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
183.	cochrane.jw.
184.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
185.	or/51-60
186.	Epidemiologic studies/
187.	exp Case control studies/
188.	exp Cohort studies/
189.	Cross-sectional studies/
190.	case control.ti,ab.
191.	(cohort adj (study or studies or analys*)).ti,ab.
192.	((follow up or observational or uncontrolled or non randomi#ed or nonrandomi#ed or epidemiologic*) adj (study or studies)).ti,ab.
193.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort*)).ti,ab.
194.	or/62-69
195.	38 and (50 or 61 or 70)

### Embase (Ovid) search terms

119.	attention deficit disorder/
120.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)).ti.
121.	((attenti* or disrupt*) adj3 disorder*).ab.
122.	(adhd or addh or ad hd or ad??hd).ti,ab.
123.	(attenti* adj3 deficit*).ti,ab.
124.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
125.	(minimal brain adj2 (dysfunct* or disorder*)).ti,ab.
126.	or/1-7
127.	exp autism/
128.	(autistic or autism or asperger*).ti,ab.
129.	pervasive developmental disorder*.ti,ab.
130.	(asd or pdd or pdd-nos).ti,ab.

131.	or/9-12
132.	hyperactivity/
133.	hyperkinesia/
134.	(hyperactiv* or inattent* or hyperkin* or hyper-kin*).ti,ab.
135.	or/14-16
136.	13 and 17
137.	8 or 18
138.	limit 19 to English language
139.	letter.pt. or letter/
140.	note.pt.
141.	editorial.pt.
142.	case report/ or case study/
143.	(letter or comment*).ti.
144.	or/21-25
145.	randomized controlled trial/ or random*.ti,ab.
146.	26 not 27
147.	animal/ not human/
148.	nonhuman/
149.	exp Animal Experiment/
150.	exp Experimental Animal/
151.	animal model/
152.	exp Rodent/
153.	(rat or rats or mouse or mice).ti.
154.	or/28-35
155.	20 not 36
156.	random*.ti,ab.
157.	factorial*.ti,ab.
158.	(crossover* or cross over*).ti,ab.
159.	((doubl* or singl*) adj blind*).ti,ab.
160.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
161.	crossover procedure/
162.	single blind procedure/
163.	randomized controlled trial/
164.	double blind procedure/
165.	or/38-46
166.	systematic review/
167.	meta-analysis/
168.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
169.	((systematic or evidence) adj3 (review* or overview*)).ti,ab.
170.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
171.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
172.	(search* adj4 literature).ab.
173.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
174.	cochrane.jw.
175.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.

176.	or/48-57
177.	Clinical study/
178.	exp Case control study/
179.	Family study/
180.	Longitudinal study/
181.	Retrospective study/
182.	Prospective study/
183.	Cross-sectional study/
184.	Cohort analysis/
185.	Follow-up/
186.	cohort*.ti,ab.
187.	45 and 46
188.	case control.ti,ab.
189.	(cohort adj (study or studies or analys*)).ti,ab.
190.	((follow up or observational or uncontrolled or non randomi#ed or nonrandomi#ed or epidemiologic*) adj (study or studies)).ti,ab.
191.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort*)).ti,ab.
192.	or/59-66, 47-73
193.	37 and (47 or 58 or 74)

#### Cochrane Library (Wiley) search terms

#38.	[mh ^"attention deficit and disruptive behavior disorders"]
#39.	[mh ^"attention deficit disorder with hyperactivity"]
#40.	((attenti* or disrupt*) near/3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)):ti
#41.	((attenti* or disrupt*) near/3 disorder*):ab
#42.	(adhd or addh or ad next hd or ad-hd):ti,ab
#43.	(attenti* near/3 deficit*):ti,ab
#44.	((hyperkin* or (hyper near/1 kin*)) near/1 (syndrome* or disorder*)) or hkd):ti,ab
#45.	(minimal near/1 brain near/2 (dysfunct* or disorder*)):ti,ab
#46.	(or #1-#8)
#47.	[mh "Child Development Disorders, Pervasive"]
#48.	(autistic or autism or asperger*):ti,ab
#49.	(pervasive next developmental next disorder*):ti,ab
#50.	(asd or pdd or pdd-nos):ti,ab
#51.	(or #10-#13)
#52.	[mh ^hyperkinesis]
#53.	(hyperactiv* or inattent* or hyperkin* or hyper-kin*):ti,ab
#54.	#15 or #16
#55.	#14 and #17
#56.	#9 and #18

#### PsycINFO (ProQuest) search terms

13.	(SU.EXACT.EXPLODE("Attention Deficit Disorder") OR TI((attenti* OR disrupt*) NEAR/3 (adolescent* OR adult* OR behav* OR child* OR class OR classes OR classroom* OR condition* OR difficult* OR disorder* OR learn* OR people OR person* OR poor OR problem* OR
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	process* OR youngster*) OR AB((attenti* OR disrupt*) NEAR/3 disorder*) OR TI,AB(adhd OR addh OR ad-hd OR ad??hd) OR TI,AB(attenti* NEAR/3 deficit*) OR TI,AB(((hyperkin* OR (hyper-kin*)) NEAR/1 (syndrome* OR disorder*)) OR hkd) OR TI,AB(minimal NEAR/1 brain NEAR/2 (dysfunct* OR disorder*))) OR ((SU.EXACT.EXPLODE("Autism Spectrum Disorders") or TI,AB(autistic or autism or asperger*) or TI,AB(pervasive-developmental-disorder*) or TI,AB(asd or pdd or pdd-nos)) AND (SU.EXACT("Hyperkinesis") or TI,AB(hyperactiv* or inattent* or hyperkin* or hyper-kin*)))
14.	(su.exact.explode("clinical trials") OR ti,ab((clinical OR control*) NEAR/3 trial*) OR ti,ab((single* OR double* OR treble* OR triple*) NEAR/5 (blind* OR mask*)) OR ti,ab(volunteer* OR control-group OR controls) OR su.exact("placebo") OR ti,ab(placebo*))
15.	((SU.EXACT("Literature Review") or RTYPE(review) or ti(review) or me(literature review)) AND (ti,ab(systematic or evidence or methodol* or quantitative*))) or (SU.EXACT("Meta Analysis") or ti,ab(meta-analys* or metanalys* or metaanalys* or meta analys*) or ti,ab((systematic or evidence* or methodol* or quantitative*) near/3 (review* or overview*) or ti,ab((pool* or combined or combining) near/2 (data or trials or studies or results)) or RTYPE(systematic or meta*) or ME(meta analysis or systematic review))
16.	(su.exact.explode("longitudinal studies") or su.exact.explode("followup studies") OR SU.EXACT("Cohort Analysis") or ti,ab(case-control*) or ti,ab(cohort near/1 (study or studies or analys*)) or ti,ab((follow-up or observational or uncontrolled or non-randomi?ed or nonrandomi?ed or epidemiologic*) near/1 (study or studies)) or ti,ab((longitudinal or retrospective or prospective or cross-section) and (study or studies or review or analys* or cohort*)))
17.	1 AND (2 OR 3 OR 4)
18.	Limit to English
19.	NOT (Dissertations & Theses AND Books)

## 2 Health Economics literature search strategy

Health economic evidence was identified by conducting a broad search relating to ADHD population in NHS Economic Evaluation Database (NHS EED – this ceased to be updated after March 2015) and the Health Technology Assessment database (HTA) with no date restrictions. NHS EED and HTA databases are hosted by the Centre for Research and Dissemination (CRD). Additional searches were run on Medline and Embase.

**Table 2: Database date parameters and filters used**

Database	Dates searched	Search filter used
Medline	2014 – 28 April 2017	Exclusions Health economics
Embase	2014 – 28 April 2017	Exclusions Health economics
Centre for Research and Dissemination (CRD)	HTA - 2008 – 28 April 2017 NHSEED - 2008 to March 2015	None

### Medline (Ovid) search terms

113.	"attention deficit and disruptive behavior disorders"/ or attention deficit disorder with hyperactivity/
114.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*).ti.
115.	((attenti* or disrupt*) adj3 disorder*).ab.
116.	(adhd or addh or ad hd or ad??hd).ti,ab.

117.	(attenti* adj3 deficit*).ti,ab.
118.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
119.	(minimal brain adj2 (dysfunct* or disorder*)).ti,ab.
120.	or/1-7
121.	limit 8 to English language
122.	letter/
123.	editorial/
124.	news/
125.	exp historical article/
126.	Anecdotes as Topic/
127.	comment/
128.	case report/
129.	(letter or comment*).ti.
130.	or/10-17
131.	randomized controlled trial/ or random*.ti,ab.
132.	18 not 19
133.	animals/ not humans/
134.	Animals, Laboratory/
135.	exp animal experiment/
136.	exp animal model/
137.	exp Rodentia/
138.	(rat or rats or mouse or mice).ti.
139.	or/20-26
140.	9 not 27
141.	Economics/
142.	Value of life/
143.	exp "Costs and Cost Analysis"/
144.	exp Economics, Hospital/
145.	exp Economics, Medical/
146.	Economics, Nursing/
147.	Economics, Pharmaceutical/
148.	exp "Fees and Charges"/
149.	exp Budgets/
150.	budget*.ti,ab.
151.	cost*.ti.
152.	(economic* or pharmaco?economic*).ti.
153.	(price* or pricing*).ti,ab.
154.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
155.	(financ* or fee or fees).ti,ab.
156.	(value adj2 (money or monetary)).ti,ab.
157.	or/29-44
158.	exp models, economic/
159.	*Models, Theoretical/
160.	*Models, Organizational/
161.	markov chains/
162.	monte carlo method/

163.	exp Decision Theory/
164.	(markov* or monte carlo).ti,ab.
165.	econom* model*.ti,ab.
166.	(decision* adj2 (tree* or analy* or model*)).ti,ab.
167.	or/46-54
168.	28 and (45 or 55)

### Embase (Ovid) search terms

109.	attention deficit disorder/
110.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)).ti.
111.	((attenti* or disrupt*) adj3 disorder*).ab.
112.	(adhd or addh or ad hd or ad??hd).ti,ab.
113.	(attenti* adj3 deficit*).ti,ab.
114.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
115.	(minimal brain adj2 (dysfunct* or disorder*)).ti,ab.
116.	or/1-7
117.	limit 8 to English language
118.	letter.pt. or letter/
119.	note.pt.
120.	editorial.pt.
121.	case report/ or case study/
122.	(letter or comment*).ti.
123.	or/10-14
124.	randomized controlled trial/ or random*.ti,ab.
125.	15 not 16
126.	animal/ not human/
127.	nonhuman/
128.	exp Animal Experiment/
129.	exp Experimental Animal/
130.	animal model/
131.	exp Rodent/
132.	(rat or rats or mouse or mice).ti.
133.	or/17-24
134.	9 not 25
135.	statistical model/
136.	exp economic aspect/
137.	27 and 28
138.	*theoretical model/
139.	*nonbiological model/
140.	stochastic model/
141.	decision theory/
142.	decision tree/
143.	monte carlo method/

144.	(markov* or monte carlo).ti,ab.
145.	econom* model*.ti,ab.
146.	(decision* adj2 (tree* or analy* or model*)).ti,ab.
147.	or/29-38
148.	*health economics/
149.	exp *economic evaluation/
150.	exp *health care cost/
151.	exp *fee/
152.	budget/
153.	funding/
154.	budget*.ti,ab.
155.	cost*.ti.
156.	(economic* or pharmaco?economic*).ti.
157.	(price* or pricing*).ti,ab.
158.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
159.	(financ* or fee or fees).ti,ab.
160.	(value adj2 (money or monetary)).ti,ab.
161.	or/40-52
162.	26 and (39 or 53)

#### NHS EED and HTA (CRD) search terms

#11.	MeSH DESCRIPTOR Attention Deficit and Disruptive Behavior Disorders
#12.	MeSH DESCRIPTOR Attention Deficit Disorder with Hyperactivity
#13.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)):TI
#14.	((attenti* or disrupt*) adj3 disorder*)
#15.	((adhd or addh or ad hd or ad??hd))
#16.	((attenti* adj3 deficit*))
#17.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd))
#18.	((minimal brain adj2 (dysfunct* or disorder*)))
#19.	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8
#20.	(#9) IN NHSEED, HTA

## **Prevalence search strategy**

This literature search strategy was used for the following review;

- Risk factors

The literature searches for this review are outlined below and complied with the methodology outlined in Developing NICE guidelines: the manual, Oct 2014, <https://www.nice.org.uk/media/default/about/what-we-do/our-programmes/developing-nice-guidelines-the-manual.pdf>.

*For more detailed information, please see the Methodology Review.*

### **1 Clinical search literature search strategy**

Searches for this review were run in Medline (OVID), Embase (OVID), the Cochrane Library (Wiley) and PsycINFO (ProQuest]. Filters were applied where appropriate.

**Table 2: Database date parameters and filters used**

Database	Dates searched	Search filter used
Medline (OVID)	1978 – 28 April 2017	Exclusions
Embase (OVID)	1978 – 28 April 2017	Exclusions
The Cochrane Library (Wiley)	Cochrane Reviews 1978 to 2017 Issue 4 of 12 CENTRAL 1978 to 2017 Issue 3 of 12 DARE and NHSEED 1978 to 2015 Issue 1 of 4 HTA 1978 to 2017 Issue 1 of 4	None
PsycINFO (ProQuest)	1978 – 28 April 2017	Exclusions

### **Medline (Ovid) search terms**

196.	"attention deficit and disruptive behavior disorders"/ or attention deficit disorder with hyperactivity/
197.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)).ti.
198.	((attenti* or disrupt*) adj3 disorder*).ab.
199.	(adhd or addh or ad hd or ad??hd).ti,ab.
200.	(attenti* adj3 deficit*).ti,ab.
201.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
202.	(minimal brain adj2 (dysfunct* or disorder*)).ti,ab.

203.	or/1-7
204.	limit 8 to English language
205.	letter/
206.	editorial/
207.	news/
208.	exp historical article/
209.	Anecdotes as Topic/
210.	comment/
211.	case report/
212.	(letter or comment*).ti.
213.	or/10-17
214.	randomized controlled trial/ or random*.ti,ab.
215.	18 not 19
216.	animals/ not humans/
217.	Animals, Laboratory/
218.	exp animal experiment/
219.	exp animal model/
220.	exp Rodentia/
221.	(rat or rats or mouse or mice).ti.
222.	or/20-26
223.	9 not 27
224.	incidence/ or prevalence/
225.	Epidemiology/
226.	(prevalen* or incidence* or epidemiolog*).ti,ab.
227.	or/29-31
228.	28 and 32

### Embase (Ovid) search terms

194.	*attention deficit disorder/
195.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*).ti.
196.	((attenti* or disrupt*) adj3 disorder*).ab.
197.	(adhd or addh or ad hd or ad??hd).ti,ab.
198.	(attenti* adj3 deficit*).ti,ab.
199.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
200.	(minimal brain adj2 (dysfunct* or disorder*).ti,ab.
201.	or/1-7
202.	limit 8 to English language
203.	letter.pt. or letter/
204.	note.pt.
205.	editorial.pt.
206.	case report/ or case study/
207.	(letter or comment*).ti.
208.	or/10-14
209.	randomized controlled trial/ or random*.ti,ab.
210.	15 not 16

211.	animal/ not human/
212.	nonhuman/
213.	exp Animal Experiment/
214.	exp Experimental Animal/
215.	animal model/
216.	exp Rodent/
217.	(rat or rats or mouse or mice).ti.
218.	or/17-24
219.	9 not 25
220.	epidemiology/ or incidence/ or prevalence/
221.	(prevalen* or incidence* or epidemiolog*).ti,ab.
222.	27 or 28
223.	26 and 29

### Cochrane Library (Wiley) search terms

#57.	[mh ^"attention deficit and disruptive behavior disorders"]
#58.	[mh ^"attention deficit disorder with hyperactivity"]
#59.	((attenti* or disrupt*) near/3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)):ti
#60.	((attenti* or disrupt*) near/3 disorder*):ab
#61.	(adhd or addh or ad next hd or ad-hd):ti,ab
#62.	(attenti* near/3 deficit*):ti,ab
#63.	((hyperkin* or (hyper next kin*)) near/1 (syndrome* or disorder*)) or hkd):ti,ab
#64.	(minimal next brain near/2 (dysfunct* or disorder*)):ti,ab
#65.	(or #1-#8)
#66.	[mh ^incidence]
#67.	[mh ^prevalence]
#68.	[mh ^Epidemiology]
#69.	(prevalen* or incidence* or epidemiolog*):ti,ab
#70.	(or #10-#13)
#71.	#9 and #14

### PsycINFO (ProQuest) search terms

20.	SU.EXACT.EXPLODE("Attention Deficit Disorder") OR TI((attenti* OR disrupt*) NEAR/3 (adolescent* OR adult* OR behav* OR child* OR class OR classes OR classroom* OR condition* OR difficult* OR disorder* OR learn* OR people OR person* OR poor OR problem* OR process* OR youngster*)) OR AB((attenti* OR disrupt*) NEAR/3 disorder*) OR TI,AB(adhd OR addh OR ad-hd OR ad??hd) OR TI,AB(attenti* NEAR/3 deficit*) OR TI,AB(((hyperkin* OR (hyper-kin*)) NEAR/1 (syndrome* OR disorder*)) OR hkd) OR TI,AB(minimal NEAR/1 brain NEAR/2 (dysfunct* OR disorder*))
21.	SU.EXACT("Epidemiology") or TI,AB(prevalen* or incidence* or epidemiolog*)
22.	1 AND 2
23.	NOT (Dissertations & Theses AND Books)
24.	English (limit)

Health economic evidence was identified by conducting a broad search relating to ADHD population in NHS Economic Evaluation Database (NHS EED – this ceased to be updated after March 2015) and the Health Technology Assessment database (HTA) with no date restrictions. NHS EED and HTA databases are hosted by the Centre for Research and Dissemination (CRD). Additional searches were run on Medline and Embase.

**Table 2: Database date parameters and filters used**

Database	Dates searched	Search filter used
Medline	2014 – 28 April 2017	Exclusions Health economics
Embase	2014 – 28 April 2017	Exclusions Health economics
Centre for Research and Dissemination (CRD)	HTA - 2008 – 28 April 2017 NHSEED - 2008 to March 2015	None

**Medline (Ovid) search terms**

169.	"attention deficit and disruptive behavior disorders"/ or attention deficit disorder with hyperactivity/
170.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)).ti.
171.	((attenti* or disrupt*) adj3 disorder*).ab.
172.	(adhd or addh or ad hd or ad??hd).ti,ab.
173.	(attenti* adj3 deficit*).ti,ab.
174.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
175.	(minimal brain adj2 (dysfunct* or disorder*)).ti,ab.
176.	or/1-7
177.	limit 8 to English language
178.	letter/
179.	editorial/
180.	news/
181.	exp historical article/
182.	Anecdotes as Topic/
183.	comment/
184.	case report/
185.	(letter or comment*).ti.
186.	or/10-17
187.	randomized controlled trial/ or random*.ti,ab.
188.	18 not 19
189.	animals/ not humans/
190.	Animals, Laboratory/
191.	exp animal experiment/
192.	exp animal model/
193.	exp Rodentia/
194.	(rat or rats or mouse or mice).ti.
195.	or/20-26



196.	9 not 27
197.	Economics/
198.	Value of life/
199.	exp "Costs and Cost Analysis"/
200.	exp Economics, Hospital/
201.	exp Economics, Medical/
202.	Economics, Nursing/
203.	Economics, Pharmaceutical/
204.	exp "Fees and Charges"/
205.	exp Budgets/
206.	budget*.ti,ab.
207.	cost*.ti.
208.	(economic* or pharmaco?economic*).ti.
209.	(price* or pricing*).ti,ab.
210.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
211.	(financ* or fee or fees).ti,ab.
212.	(value adj2 (money or monetary)).ti,ab.
213.	or/29-44
214.	exp models, economic/
215.	*Models, Theoretical/
216.	*Models, Organizational/
217.	markov chains/
218.	monte carlo method/
219.	exp Decision Theory/
220.	(markov* or monte carlo).ti,ab.
221.	econom* model*.ti,ab.
222.	(decision* adj2 (tree* or analy* or model*)).ti,ab.
223.	or/46-54
224.	28 and (45 or 55)

### Embase (Ovid) search terms

163.	attention deficit disorder/
164.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)).ti.
165.	((attenti* or disrupt*) adj3 disorder*).ab.
166.	(adhd or addh or ad hd or ad??hd).ti,ab.
167.	(attenti* adj3 deficit*).ti,ab.
168.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
169.	(minimal brain adj2 (dysfunct* or disorder*)).ti,ab.
170.	or/1-7
171.	limit 8 to English language
172.	letter.pt. or letter/
173.	note.pt.
174.	editorial.pt.

175.	case report/ or case study/
176.	(letter or comment*).ti.
177.	or/10-14
178.	randomized controlled trial/ or random*.ti,ab.
179.	15 not 16
180.	animal/ not human/
181.	nonhuman/
182.	exp Animal Experiment/
183.	exp Experimental Animal/
184.	animal model/
185.	exp Rodent/
186.	(rat or rats or mouse or mice).ti.
187.	or/17-24
188.	9 not 25
189.	statistical model/
190.	exp economic aspect/
191.	27 and 28
192.	*theoretical model/
193.	*nonbiological model/
194.	stochastic model/
195.	decision theory/
196.	decision tree/
197.	monte carlo method/
198.	(markov* or monte carlo).ti,ab.
199.	econom* model*.ti,ab.
200.	(decision* adj2 (tree* or analy* or model*)).ti,ab.
201.	or/29-38
202.	*health economics/
203.	exp *economic evaluation/
204.	exp *health care cost/
205.	exp *fee/
206.	budget/
207.	funding/
208.	budget*.ti,ab.
209.	cost*.ti.
210.	(economic* or pharmaco?economic*).ti.
211.	(price* or pricing*).ti,ab.
212.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
213.	(financ* or fee or fees).ti,ab.
214.	(value adj2 (money or monetary)).ti,ab.
215.	or/40-52
216.	26 and (39 or 53)

#### NHS EED and HTA (CRD) search terms

#21.	MeSH DESCRIPTOR Attention Deficit and Disruptive Behavior Disorders
#22.	MeSH DESCRIPTOR Attention Deficit Disorder with Hyperactivity

#23.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)):TI
#24.	((attenti* or disrupt*) adj3 disorder*)
#25.	((adhd or addh or ad hd or ad??hd))
#26.	((attenti* adj3 deficit*))
#27.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd))
#28.	((minimal brain adj2 (dysfunct* or disorder*)))
#29.	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8
#30.	(#9) IN NHSEED, HTA

## Qualitative search strategy

This literature search strategy was used for the following reviews;

- Adherence to treatment (pharmacological and non-pharmacological)
- Information and support for people with ADHD
- Starting, adjusting and discontinuing pharmacological treatment
- Adverse events in non-pharmacological treatments

The literature searches for this review are outlined below and complied with the methodology outlined in Developing NICE guidelines: the manual, Oct 2014:

<https://www.nice.org.uk/media/default/about/what-we-do/our-programmes/developing-nice-guidelines-the-manual.pdf>.

*For more detailed information, please see the Methodology Review.*

### **1 Clinical search literature search strategy**

Searches for **patient views** were run in Medline (OVID), Embase (OVID), CINAHL, Current Nursing and Allied Health Literature (EBSCO) and PsycINFO (ProQuest). Search filters were applied to the search where appropriate.

**Table 1: Database date parameters and filters used**

Database	Dates searched	Search filter used
Medline (OVID)	1948 – 28 April 2017	Exclusions Patient views/qualitative studies
Embase (OVID)	1974– 28 April 2017	Exclusions Patient views/qualitative studies
CINAHL (EBSCO)	Inception– 28 April 2017	Exclusions Patient views/qualitative studies
PsycINFO (ProQuest)	Inception– 28 April 2017	Exclusions Patient views/qualitative studies

### **Medline (Ovid) search terms**

229.	"attention deficit and disruptive behavior disorders"/ or attention deficit disorder with hyperactivity/
230.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)),ti.
231.	((attenti* or disrupt*) adj3 disorder*).ab.

232.	(adhd or addh or ad hd or ad??hd).ti,ab.
233.	(attenti* adj3 deficit*).ti,ab.
234.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
235.	(minimal brain adj2 (dysfunct* or disorder*)).ti,ab.
236.	or/1-7
237.	limit 8 to English language
238.	letter/
239.	editorial/
240.	news/
241.	exp historical article/
242.	Anecdotes as Topic/
243.	comment/
244.	case report/
245.	(letter or comment*).ti.
246.	or/10-17
247.	randomized controlled trial/ or random*.ti,ab.
248.	18 not 19
249.	animals/ not humans/
250.	Animals, Laboratory/
251.	exp animal experiment/
252.	exp animal model/
253.	exp Rodentia/
254.	(rat or rats or mouse or mice).ti.
255.	or/20-26
256.	9 not 27
257.	Qualitative research/ or Narration/ or exp Interviews as Topic/ or exp "Surveys and Questionnaires"/ or Health care surveys/
258.	(qualitative or interview* or focus group* or theme* or questionnaire* or survey*).ti,ab.
259.	(metasynthes* or meta-synthes* or metasummar* or meta-summar* or metastud* or meta-stud* or metathem* or meta-them* or ethno* or emic or etic or phenomenolog* or grounded theory or constant compar* or (thematic* adj3 analys*) or theoretical sampl* or purposive sampl* or hermeneutic* or heidegger* or husserl* or colaizzi* or van kaam* or van manen* or giorgi* or glaser* or strauss* or ricoeur* or spiegelberg* or merleau*).ti,ab.
260.	or/29-31
261.	28 and 32

### Embase (Ovid) search terms

1.	attention deficit disorder/
2.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*).ti.
3.	((attenti* or disrupt*) adj3 disorder*).ab.
4.	(adhd or addh or ad hd or ad??hd).ti,ab.
5.	(attenti* adj3 deficit*).ti,ab.
6.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
7.	(minimal brain adj2 (dysfunct* or disorder*)).ti,ab.
8.	or/1-7
9.	limit 8 to English language

10.	letter.pt. or letter/
11.	note.pt.
12.	editorial.pt.
13.	case report/ or case study/
14.	(letter or comment*).ti.
15.	or/10-14
16.	randomized controlled trial/ or random*.ti,ab.
17.	15 not 16
18.	animal/ not human/
19.	nonhuman/
20.	exp Animal Experiment/
21.	exp Experimental Animal/
22.	animal model/
23.	exp Rodent/
24.	(rat or rats or mouse or mice).ti.
25.	or/17-24
26.	9 not 25
27.	health survey/ or exp questionnaire/ or exp interview/ or qualitative research/ or narrative/
28.	(qualitative or interview* or focus group* or theme* or questionnaire* or survey*).ti,ab.
29.	(metasynthes* or meta-synthes* or metasummar* or meta-summar* or metastud* or meta-stud* or metathem* or meta-them* or ethno* or emic or etic or phenomenolog* or grounded theory or constant compar* or (thematic* adj3 analys*) or theoretical sampl* or purposive sampl* or hermeneutic* or heidegger* or husserl* or colaizzi* or van kaam* or van manen* or giorgi* or glaser* or strauss* or ricoeur* or spiegelberg* or merleau*).ti,ab.
30.	or/27-29
31.	26 and 30

### CINAHL (EBSCO) search terms

S1.	(MH "Attention Deficit Hyperactivity Disorder")
S2.	((attenti* or disrupt*) n3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*))
S3.	adhd or addh or ad hd or ad/hd
S4.	attenti* n3 deficit*
S5.	((hyperkin* or hyper kin*) n1 (syndrome* or disorder*)) or hkd)
S6.	(minimal brain n2 (dysfunct* or disorder*))
S7.	S1 OR S2 OR S3 OR S4 OR S5 OR S6
S8.	(MH "Qualitative Studies+")
S9.	(MH "Qualitative Validity+")
S10.	(MH "Interviews+") OR (MH "Focus Groups") OR (MH "Surveys") OR (MH "Questionnaires+")
S11.	(qualitative or interview* or focus group* or theme* or questionnaire* or survey*)
S12.	(metasynthes* or meta-synthes* or metasummar* or meta-summar* or metastud* or meta-stud* or metathem* or meta-them* or ethno* or emic or etic or phenomenolog* or grounded theory or constant compar* or (thematic* n3 analys*) or theoretical sampl* or purposive sampl* or hermeneutic* or heidegger* or husserl* or colaizzi* or van kaam* or van manen* or giorgi* or glaser* or strauss* or ricoeur* or spiegelberg* or merleau*)
S13.	S8 OR S9 OR S10 OR S11 OR S12
S14.	S7 AND S13

S15.	PT anecdote or PT audiovisual or PT bibliography or PT biography or PT book or PT book review or PT brief item or PT cartoon or PT commentary or PT computer program or PT editorial or PT games or PT glossary or PT historical material or PT interview or PT letter or PT listservs or PT masters thesis or PT obituary or PT pamphlet or PT pamphlet chapter or PT pictorial or PT poetry or PT proceedings or PT "questions and answers" or PT response or PT software or PT teaching materials or PT website
S16.	S14 NOT S15 Limiters - English Language; Exclude MEDLINE records

### PsycINFO (ProQuest) search terms

1.	SU.EXACT.EXPLODE("Attention Deficit Disorder") OR TI((attenti* OR disrupt*) NEAR/3 (adolescent* OR adult* OR behav* OR child* OR class OR classes OR classroom* OR condition* OR difficult* OR disorder* OR learn* OR people OR person* OR poor OR problem* OR process* OR youngster*)) OR AB((attenti* OR disrupt*) NEAR/3 disorder*) OR TI,AB(adhd OR addh OR ad-hd OR ad??hd) OR TI,AB(attenti* NEAR/3 deficit*) OR TI,AB(((hyperkin* OR (hyper-kin*)) NEAR/1 (syndrome* OR disorder*)) OR hkd) OR TI,AB(minimal NEAR/1 brain NEAR/2 (dysfunct* OR disorder*))
2.	SU.EXACT("Qualitative Research") OR (SU.EXACT("Narratives") OR SU.EXACT("Interviews")) OR (SU.EXACT("Questionnaires") OR SU.EXACT.EXPLODE("Surveys")) OR (qualitative OR interview*) OR (focus-group* OR theme*) OR (questionnaire* OR survey*) OR (metasynthes* OR meta-synthes*) OR (metasummar* OR meta-summar*) OR (metastud* OR meta-stud*) OR (metathem* OR meta-them*) OR ethno* OR (emic OR etic) OR (phenomenolog* OR "grounded theory") OR (constant-compar* OR thematic* NEAR/3 analys*) OR (theoretical-sampl* OR purposive-sampl*) OR (hermeneutic* OR heidegger*) OR (husserl* OR colaizzi*) OR (van-kaam* OR van-manen*) OR (giorgi* OR glaser*) OR (strauss* OR ricoeur*) OR (spiegelberg* OR merleau*)
3.	1 AND 2
4.	NOT (Dissertations & Theses AND Books)
5.	English

## 2 Health Economics literature search strategy

Health economic evidence was identified by conducting a broad search relating to ADHD population in NHS Economic Evaluation Database (NHS EED – this ceased to be updated after March 2015) and the Health Technology Assessment database (HTA) with no date restrictions. NHS EED and HTA databases are hosted by the Centre for Research and Dissemination (CRD). Additional searches were run on Medline and Embase.

**Table 2: Database date parameters and filters used**

Database	Dates searched	Search filter used
Medline	2014 – 28 April 2017	Exclusions Health economics
Embase	2014 – 28 April 2017	Exclusions Health economics
Centre for Research and Dissemination (CRD)	HTA - 2008 – 28 April 2017 NHSEED - 2008 to March 2015	None

### Medline (Ovid) search terms

225.	"attention deficit and disruptive behavior disorders"/ or attention deficit disorder with hyperactivity/
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226.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)).ti.
227.	((attenti* or disrupt*) adj3 disorder*).ab.
228.	(adhd or addh or ad hd or ad??hd).ti,ab.
229.	(attenti* adj3 deficit*).ti,ab.
230.	((((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
231.	(minimal brain adj2 (dysfunct* or disorder*)).ti,ab.
232.	or/1-7
233.	limit 8 to English language
234.	letter/
235.	editorial/
236.	news/
237.	exp historical article/
238.	Anecdotes as Topic/
239.	comment/
240.	case report/
241.	(letter or comment*).ti.
242.	or/10-17
243.	randomized controlled trial/ or random*.ti,ab.
244.	18 not 19
245.	animals/ not humans/
246.	Animals, Laboratory/
247.	exp animal experiment/
248.	exp animal model/
249.	exp Rodentia/
250.	(rat or rats or mouse or mice).ti.
251.	or/20-26
252.	9 not 27
253.	Economics/
254.	Value of life/
255.	exp "Costs and Cost Analysis"/
256.	exp Economics, Hospital/
257.	exp Economics, Medical/
258.	Economics, Nursing/
259.	Economics, Pharmaceutical/
260.	exp "Fees and Charges"/
261.	exp Budgets/
262.	budget*.ti,ab.
263.	cost*.ti.
264.	(economic* or pharmaco?economic*).ti.
265.	(price* or pricing*).ti,ab.
266.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
267.	(financ* or fee or fees).ti,ab.
268.	(value adj2 (money or monetary)).ti,ab.
269.	or/29-44



270.	exp models, economic/
271.	*Models, Theoretical/
272.	*Models, Organizational/
273.	markov chains/
274.	monte carlo method/
275.	exp Decision Theory/
276.	(markov* or monte carlo).ti,ab.
277.	econom* model*.ti,ab.
278.	(decision* adj2 (tree* or analy* or model*)).ti,ab.
279.	or/46-54
280.	28 and (45 or 55)

### Embase (Ovid) search terms

217.	attention deficit disorder/
218.	((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)).ti.
219.	((attenti* or disrupt*) adj3 disorder*).ab.
220.	(adhd or addh or ad hd or ad??hd).ti,ab.
221.	(attenti* adj3 deficit*).ti,ab.
222.	((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd).ti,ab.
223.	(minimal brain adj2 (dysfunct* or disorder*)).ti,ab.
224.	or/1-7
225.	limit 8 to English language
226.	letter.pt. or letter/
227.	note.pt.
228.	editorial.pt.
229.	case report/ or case study/
230.	(letter or comment*).ti.
231.	or/10-14
232.	randomized controlled trial/ or random*.ti,ab.
233.	15 not 16
234.	animal/ not human/
235.	nonhuman/
236.	exp Animal Experiment/
237.	exp Experimental Animal/
238.	animal model/
239.	exp Rodent/
240.	(rat or rats or mouse or mice).ti.
241.	or/17-24
242.	9 not 25
243.	statistical model/
244.	exp economic aspect/
245.	27 and 28
246.	*theoretical model/

247.	*nonbiological model/
248.	stochastic model/
249.	decision theory/
250.	decision tree/
251.	monte carlo method/
252.	(markov* or monte carlo).ti,ab.
253.	econom* model*.ti,ab.
254.	(decision* adj2 (tree* or analy* or model*)).ti,ab.
255.	or/29-38
256.	*health economics/
257.	exp *economic evaluation/
258.	exp *health care cost/
259.	exp *fee/
260.	budget/
261.	funding/
262.	budget*.ti,ab.
263.	cost*.ti.
264.	(economic* or pharmaco?economic*).ti.
265.	(price* or pricing*).ti,ab.
266.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
267.	(financ* or fee or fees).ti,ab.
268.	(value adj2 (money or monetary)).ti,ab.
269.	or/40-52
270.	26 and (39 or 53)

### NHS EED and HTA (CRD) search terms

#31.	MeSH DESCRIPTOR Attention Deficit and Disruptive Behavior Disorders
#32.	MeSH DESCRIPTOR Attention Deficit Disorder with Hyperactivity
#33.	((((attenti* or disrupt*) adj3 (adolescent* or adult* or behav* or child* or class or classes or classroom* or condition* or difficult* or disorder* or learn* or people or person* or poor or problem* or process* or youngster*)))):TI
#34.	((((attenti* or disrupt*) adj3 disorder*))
#35.	((adhd or addh or ad hd or ad??hd))
#36.	((attenti* adj3 deficit*))
#37.	(((((hyperkin* or hyper kin*) adj1 (syndrome* or disorder*)) or hkd))
#38.	((minimal brain adj2 (dysfunct* or disorder*))
#39.	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8
#40.	(#9) IN NHSEED, HTA