Appendix H: Search strategies for the identification of clinical studies scoping searches

A broad preliminary search of the literature was undertaken in April 2013a to obtain an overview of the issues likely to be covered by the scope, and to help define key areas. Searches were restricted to clinical guidelines, Health Technology Assessment (HTA) reports, key systematic reviews and RCTs.

- BMJ Clinical Evidence
- Canadian Medical Association (CMA) Infobase (Canadian guidelines)
- Clinical Policy and Practice Program of the New South Wales Department of Health (Australia)
- Clinical Practice Guidelines (Australian Guidelines)
- Cochrane Central Register of Controlled Trials (CENTRAL)
- Cochrane Database of Abstracts of Reviews of Effects (DARE)
- Cochrane Database of Systematic Reviews (CDSR)
- Excerpta Medica Database (Embase)
- Guidelines International Network (G-I-N)
- Health Evidence Bulletin Wales
- Health Management Information Consortium [HMIC]
- HTA database (technology assessments)
- Medical Literature Analysis and Retrieval System Online (MEDLINE/MEDLINE In-Process)
- National Health and Medical Research Council (NHMRC)
- National Library for Health (NLH) Guidelines Finder
- New Zealand Guidelines Group
- NHS Centre for Reviews and Dissemination (CRD)
- Organizing Medical Networked Information (OMNI) Medical Search
- Scottish Intercollegiate Guidelines Network (SIGN)
- Turning Research Into Practice (TRIP)
- United States Agency for Healthcare Research and Quality (AHRQ)
- Websites of NICE – including NHS Evidence - and the National Institute for Health Research (NIHR) HTA Programme for guidelines and HTAs in development.

Further information about this process can be found in The Guidelines Manual (NICE, 2014).

[a] The Embase search was re-run on 13th November 2014 to capture records missed by the final update due to “delayed record processing” - an issue reported by Elsevier on 30th October.

Each search was constructed using the groups of terms set out in Text Box 1. The full set of search terms is documented in sections 1 to 3. The selection of search terms was kept broad to maximise retrieval of evidence in a wide range of areas of interest to the GDG.

Table 1: Summary of systematic search strategies: Search strategy construction

Summary of systematic search strategies for clinical evidence					
Guideline area: Anticipation and identification (chapter 5)					
Review question(s)	Search type	Search construction	Study design searched	Databases searched	Date range searched
1.1	Generic search (updates McClintock et al 2003)	(challenging behaviour and learning disability terms version 2)	All	General medical databases: Embase, Medline, PreMedline, PsycINFO	2003 to October 2014
Guideline area: Anticipation and Identification (Chapter 5) Monitoring and Assessment (Chapter 6)					
Review question(s)	Search type	Search construction	Study design searched	Databases searched	Date range searched
1.2,2.2,2.3	Focused search	[(challenging behaviour and learning disability terms version 1 AND	All	Major bibliographic databases: Embase, Medline,	Database inception to October

Summary of systematic search strategies for clinical evidence					
		assessment tool/method terms AND diagnostic accuracy terms) OR (named tools/methods AND learning disability terms version 1)]		PreMedline, PsycINFO	2014
Guideline area: Interventions (chapter 7)					
Review question(s)	Search type	Search construction	Study design searched	Databases searched	Date range searched
3.1-7.1	Generic search	Major bibliographic and supplementary databases: [(learning disability and challenging behaviour population terms version 1) AND (RCT/SR study design filter terms)] Cochrane Library: [(learning disability and challenging behaviour population terms version 1)]	Systematic reviews of RCT, RCT	Major bibliographic databases: CINAHL, Embase, Medline, PreMedline, PsycINFO Cochrane Library: CDSR, DARE, HTA, CENTRAL Supplementary databases: AEI, ASSIA, BEI, ERIC, IBSS, SSCI, Sociological Abstracts, Social Services Abstracts	Systematic review of RCT: 1999 to October 2014 RCT: database inception to October 2014

Summary of systematic search strategies for clinical evidence

Guideline area:

Experience of Care (chapter 4-5)

Review question(s)	Search type	Search construction	Study design searched	Databases searched	Date range searched
8.1,8.2	Generic search	Major bibliographic and supplementary databases: [(learning disability and challenging behaviour population terms version 1) AND (qualitative SR study design terms)]	Systematic reviews of qualitative studies	Major bibliographic databases: CINAHL, Embase, Medline, PreMedline, PsycINFO Supplementary databases: AEI, ASSIA, BEI, ERIC, IBSS, SSCI, Sociological Abstracts, Social Services Abstracts	1999 to October 2014

AEI (Australian Education Index), ASSIA (Applied Social Sciences Index and Abstracts), BEI (British Education Index), CDSR (Cochrane Database of Systematic Reviews), CENTRAL [COCHRANE database of RCTs and other controlled trials), CINAHL, (Cumulative Index to Nursing and Allied Health Literature), DARE (Database of Abstracts of Reviews and Effectiveness), ERIC (Education Resources Information Centre), HMIC (Health Management Information Consortium), HTA (Health Technology Assessment database), IBSS (International Bibliography of the Social Sciences), SSCI (Social Sciences Education Index)

A.1 Section 1: population search terms

A.1.1 Population search terms (version 1)

A.1.1.1 Embase, Medline, PreMedline, PsycINFO - OVID

1	**exp developmental disorder/ or intellectual impairment/ or exp mental deficiency/ or exp learning disorder/**
2	1 use emez
3	developmental disabilities/ or exp intellectual disability/ or exp learning disorders/ or mentally disabled persons/
4	3 use mesz, prem
5	exp developmental disabilities/ or exp intellectual development disorder/ or "intellectual development disorder (attitudes toward)"/ or exp learning disabilities/
6	5 use psyh
7	((intellect$ adj3 (deficien$ or difficult$ or disab$ or disorder$ or impair$ or handicap$ or incapacit$ or handicap$ or sub?average or sub?norm$)) or (low$2 adj2 intellect$)).tw.
8	(learning adj3 (deficien$ or difficult$ or disab$ or disorder$ or handicap$ or impair$ or incapacit$ or handicap$ or sub?average or sub?norm$)).tw.
9	(mental$ adj3 (deficien$ or disab$ or handicap$ or impair$ or handicap$ or incapacit$ or retard$ or sub?average or sub?norm$)).tw.
10	((subaverage or sub$1 average or subnormal or sub$1 normal$) adj3 (cognit$ or intel$)).tw.
11	((development$ or neurodevelopment$) adj disab$).tw.
12	(education$ adj5 su?bnorm$).tw.
13	(cretin$ or feeble minded$ or imbecil$ or moron$).tw.
14	multipl$ handicap$.tw.
15	adrenoleukodystrophy/ or exp mental retardation malformation syndrome/ or cerebral palsy/ or coffin lowry syndrome/ or cat cry syndrome/ or down syndrome/ or mucopolysaccharidosis/ or phenylketonuria/ or pyruvate dehydrogenase/ or rubinstein syndrome/ or tuberous sclerosis/ or wagr syndrome/ or west syndrome/
16	15 use emez
17	adrenoleukodystrophy/ or angelman syndrome/ or cerebral palsy/ or coffin-lowry syndrome/ or cri-du-chat syndrome/ or de lange syndrome/ or down syndrome/ or lesch-nyhan syndrome/ or fragile x syndrome/ or mucopolysaccharidoses/ or exp

1	**exp developmental disorder/ or intellectual impairment/ or exp mental deficiency/ or exp learning disorder/**
	phenylketonurias/ or exp prader-willi syndrome/ or pyruvate carboxylase deficiency disease/ or pyruvate dehydrogenase complex deficiency disease/ or rubinstein-taybi syndrome/ or tuberous sclerosis/ or wagr syndrome/ or spasms, infantile/
18	17 use mesz, prem
19	cerebral palsy/ or crying cat syndrome/ or cornelia de lange syndrome/ or down's syndrome/ or phenylketonuria/
20	19 use psyh
21	((adreno adj (leukodystrophy or leukomyeloneuropathy)) or (bronze schilder adj (disease or syndrome$)) or mckusick 30010 or adrenoleukodystrophy or adrenomyeloneuropathy or adrenoleukomyeloneuropathy or divry bogaert type leukodystrophy or melanodermic leukodystrophy or siemerling-creutzfeldt or x ald or ((angelman or happy puppet) adj2 syndrom$) or (((brain or central or cerebral) adj (palsy or paralysis or paresis)) or encephalopathia infantilis or spastic diplegia) or (coffin lowry or lowry coffin) or (cat cry or cri du chat or crying cat or ((5p or lejeune$) adj2 (disease or syndrome))) or (amsterdam degenerative type or amsterdam dwarf or brachmann de lange or congenital muscular hypertrophic cerebral or de lange or typus degenerativus amstelodamensis) or ((down$1 adj (disease or syndrome$)) or ((mongolian or mongoloid) adj idiocy) or mongolism or mongoloidism or trisomy 21) or (childhood epileptic encephalopathy or lennox gastaut or (lennox adj (disease$ or syndrome))) or (hypoxanthine phosphoribosyltransferase deficiency syndrome or juvenile hyperuricemia or lesch nyhan or mckusick 30800 or (nyhan adj (disease or syndrome$))) or ((copper transport adj (disease or syndrome$)) or ((kinky or steely) adj hair) or menkes or trichopoliodystrophy) or (bell martin or fragile x or gillian turner or martin bell or turner gillian or x chromosome fragility or (escalante$ adj (disease or syndrome$))) or (debility or oligiphreni$ or oligophreny) or (((foelling or folling) adj2 (disease or syndrome$)) or mckusick 26160 or oligophrenia or (phenylalanine adj4 monooxygenase deficiency syndrome) or hydroxylase deficiency syndrome or phenylketonuria$) or (hhho syndrome or (prader adj2 willi)) or (broad thumb hallux or (rubinstein adj2 (disease or syndrome$ or taybi))) or ((bourneville adj2 (disease or syndrome$)) or epiloia or (pringle adj2 (disease or syndrome$)) or tuberose sclerosis) or ((wagr or william$) adj (disease or syndrome$)) or (west$1 adj2 (disease or syndrome$))).ti,ab.
22	autism/ or asperger syndrome/
23	22 use emez
24	autistic disorder/ or asperger syndrome/
25	24 use mesz, prem
26	autism/ or aspergers syndrome/
2	26 use psyh

1	**exp developmental disorder/ or intellectual impairment/ or exp mental deficiency/ or exp learning disorder/**
7	
28	(autis$ or asperger$ or pervasive developmen$ disorder$ or rett$1).ti,ab.
29	((communicative adj2 impair$) or ((complex or high support) adj3 needs) or ((language or speech) adj2 (delay$ or disorder$))).ti,ab.
30	or/2,4,6-14,16,18,20-21,23,25,27-29
31	behav$.ti,ab,hw.
32	abuse/ or acting out/ or agitation/ or exp aggression/ or exp anger/ or assault/ or exp child abuse/ or disruptive behavior/ or emotional abuse/ or patient abuse/ or physical abuse/ or exp sexual abuse/ or verbal hostility/ or exp violence/
33	32 use emez
34	acting out/ or exp domestic violence/ or exp aggression/ or exp anger/ or dangerous behavior/ or hate/ or hostility/ or sexual harrassment/ or torture/ or violence/
35	34 use mesz, prem
36	abuse reporting/ or acting out/ or exp aggressive behavior/ or aggressiveness/ or agitation/ or exp anger/ or anger control/ or battered females/ or exp child abuse/ or dangerousness/ or elder abuse/ or emotional abuse/ or exposure to violence/ or exp harrassment/ or hate/ or patient abuse/ or exp partner abuse/ or rebelliousness/ or retaliation/ or exp sexual abuse/ or threat/ or threat postures/ or torture/ or verbal abuse/ or exp violence/
37	36 use psyh
38	(abus$ or aggress$ or agitat$ or agonistic or anger or angry or assault$ or attack$ or bizarre or combative or danger$ or destruct$ or disrupt$ or disturb$ or harass$ or hostil$ or intimidat$ or rage$ or threat$ or un?toward or violen$).ti,ab.
39	or/32,35,37-38
40	automutilation/ or drug overdose/ or exp suicidal behavior/
41	40 use emez
42	overdose/ or self-injurious behavior/ or self mutilation/ or stereotypic movement disorder/ or suicide/ or suicidal ideation/ or suicide, attempted/
43	42 use mesz, prem
4	drug overdoses/ or self destructive behavior/ or exp self injurious behavior/ or

1	**exp developmental disorder/ or intellectual impairment/ or exp mental deficiency/ or exp learning disorder/**
4	attempted suicide/ or suicidal ideation/ or suicide/ or suicide prevention/ or suicide prevention centers/ or suicidology/
45	44 use psyh
46	(auto?aggress$ or auto?mutilat$ or cutt$ or overdos$ or para?suicid$ or (self adj2 cut$) or self?damag$ or self?destruct$ or self?harm$ or self?hurt$ or self?inflict$ or self?injur$ or self?mutilat$ or self?poison$vor self?wound$ or suicid$).ti,ab.
47	or/41,43,45-46
48	exp impulse control disorder/
49	48 use emez
50	impulse control disorders/
51	50 use mesz, prem
52	exp impulse control disorders/ or explosive disorder/
53	52 use psyh
54	((impulse control adj disorder$) or (explosive adj2 disorder)).ti,ab.
55	or/49,51,53-54
56	conduct disorder/ or oppositional defiant disorder/
57	56 use emez
58	exp child behavior/ or conduct disorder/
59	58 use mesz, prem
60	exp behavior problems/ or conduct disorder/ or oppositional defiant disorder/
61	60 use psyh
62	(conduct$ or (oppositional adj3 (defiant$ or disorder$))).ti,ab.

1	**exp developmental disorder/ or intellectual impairment/ or exp mental deficiency/ or exp learning disorder/**
63	or/57,59,61-62
64	(attenti$ or disrupt$ or impulsiv$ or inattenti$).sh.
65	(attenti$ adj3 (adolescen$ 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$)).ti,ab.
66	(impulsiv$ or inattentiv$ or adhd or (attenti$ adj3 deficit$) or hyperactiv$ or (hyper adj1 activ$) or hyperkin$).ti,ab. or (overactiv$.tw. not overactive bladder$.ti.)
67	or/64-66
68	absenteeism/ or antisocial behavior/ or arson/ or conflict/ or delinquency/ or fraud/ or gang/ or juvenile delinquency/ or psychopathy/ or rape/ or recumbency/ or theft/ or torture/
69	68 use emez
70	"conflict (psychology)"/ or firesetting behavior/ or fraud/ or juvenile delinquency/ or rape/ or sex offences/ or theft/ or torture/
71	70 use mesz, prem
72	exp adjudication/ or arson/ or attack behavior/ or exp behavior problems/ or bullying/ or conflict/ or exp criminal behavior/ or cruelty/ or deception/ or exp gangs/ or homicide/ or exp juvenile delinquency/ or physical abuse/ or psychopathy/ or exp rape/ or rebelliousness/ or runaway behavior/ or school violence/ or exp sex offences/ or exp theft/ or exp truancy/ or vandalism/ or violence/
73	72 use psyh
74	((adjust$ adj2 (difficult$ or problem$)) or anti?social$ or arson or asbo or asocial or bully$ or bullie$ or callous$ or delinquen$ or deviant$ or (fire$ adj2 (alight or set$ or start$)) or mal?adjust$ or psychopath$ or pyromania or shop?lift$ or steal$ or temper$1 or theft$ or unemotional trait$ or vandali$ or (sex$ adj2 (abus$ or harass$ or offen$)) or ((social or unemotional) adj (difficult$ or problem$)) or noncomplian$ or non complian$).ti,ab.
75	or/69,71,73-74
76	(repetitiv$ or self stimulat$ or stereotyp$ or sucking).hw.
77	(((crumpl$ or tear$) adj2 paper$) or fingering$ or (finger$ adj2 (flex$ or tap$)) or flapping or knee shaking or humming or ((loud$ or nois$) adj2 (instrument$ or vocali$)) or lip pucker$ or repetitive$ or ritualistic or (rocking or (body adj2 rock$)) or self?stimulat$ or staring or stemming or stereotyp$ or (thumb adj2 suck$) or (wav$ adj2 (arm$ or hand$))).ti,ab.

1	**exp developmental disorder/ or intellectual impairment/ or exp mental deficiency/ or exp learning disorder/**
78	wander$.ti,ab,hw.
79	withdrawn$.ti,ab,hw.
80	or/31,39,47,55,63,67,75-79
81	30 and 80

A.1.1.2 Cochrane Library - Wiley

#1 mesh descriptor: [developmental disabilities] this term only

#2 mesh descriptor: [intellectual disability] explode all trees

#3 mesh descriptor: [learning disorders] explode all trees

#4 mesh descriptor: [mentally disabled persons] this term only

#5 ((intellect* near/3 (deficien* or difficult* or disab* or disorder* or impair* or incapacit* or subnorm* or subaverage or “sub norm*” or "sub* average")) or handicap* or (low*2 near/2 intellect*)):ti

#6 ((intellect* near/3 (deficien* or difficult* or disab* or disorder* or impair* or incapacit* or subnorm* or subaverage or “sub norm*” or "sub* average")) or handicap* or (low*2 near/2 intellect*)):ab

#7 (learning near/3 (deficien* or difficult* or disab* or disorder* or impair* or incapacit* or subnorm* or subaverage" or "sub* norm*" or "sub* average")):ti

#8 (learning near/3 (deficien* or difficult* or disab* or disorder* or impair* or incapacit* or subnorm* or subaverage or "sub* norm*" or sub* average*")):ab

#9 (mental* near/3 (deficien* or disab* or impair* or incapacit* or retard* or subnorm* or subaverage" or “sub* norm*” or "sub* average")):ti

#10 (mental* near/3 (deficien* or disab* or impair* or incapacit* or retard* or subnorm* or subnorm* or subaverage or "sub* norm*" or "sub* average")):ab

#11 ((subaverage or "sub* average" or subnormal or "sub* normal*") near/3 (cognit* or intel*)):ti

#12 ((subaverage or "sub* average" or subnormal or "sub* normal*") near/3 (cognit* or intel*)):ab

#13 ((development* or neurodevelopment*) near/1 disab*):ti

#14 ((development* or neurodevelopment*) near/1 disab*):ab

#15 (education* near/5 (subnorm* or “sub norm*”)):ti

#16 (education* near/5 (subnorm* or “sub norm*”)):ab

#17 (cretin* or "feeble-minded*" or imbecil* or moron*):ti

#18 (cretin* or "feeble-minded*" or imbecil* or moron*):ab

#19 mesh descriptor: [adrenoleukodystrophy] this term only

#20 mesh descriptor: [angelman syndrome] this term only

#21 mesh descriptor: [cerebral palsy] this term only

#22 mesh descriptor: [coffin-lowry syndrome] this term only

#23 mesh descriptor: [cri-du-chat syndrome] this term only

#24 mesh descriptor: [de lange syndrome] this term only

#25 mesh descriptor: [down syndrome] this term only

#26 mesh descriptor: [lesch-nyhan syndrome] this term only

#27 mesh descriptor: [fragile x syndrome] this term only

#28 mesh descriptor: [mucopolysaccharidoses] this term only

#29 mesh descriptor: [phenylketonurias] explode all trees

#30 mesh descriptor: [prader-willi syndrome] this term only

#31 mesh descriptor: [pyruvate carboxylase deficiency disease] this term only

#32 mesh descriptor: [pyruvate dehydrogenase complex deficiency disease] this term only

#33 mesh descriptor: [rubinstein-taybi syndrome] this term only

#34 mesh descriptor: [tuberous sclerosis] this term only

#35 mesh descriptor: [wagr syndrome] this term only

#36 mesh descriptor: [spasms, infantile] this term only

#37 ((adreno near/1 (leukodystrophy or leukomyeloneuropathy)) or ("bronze schilder" near/1 (disease or syndrome*)) or "mckusick 30010" or adrenoleukodystrophy or adrenomyeloneuropathy or adrenoleukomyeloneuropathy or "divry bogaert type leukodystrophy" or "melanodermic leukodystrophy" or "siemerling-creutzfeldt" or "x ald" or ((angelman or "happy puppet") near/2 syndrom*) or (((brain or central or cerebral) near/1 (palsy or paralysis or paresis)) or "encephalopathia infantilis" or "spastic diplegia") or ("coffin lowry" or "lowry coffin") or ("cat cry" or "cri du chat" or "crying cat" or ((5p or lejeune*) near/2 (disease or syndrome))) or ("amsterdam degenerative type" or "amsterdam dwarf" or brachmann or "de lange" or "congenital muscular hypertrophic cerebral" or "de lange" or "typus degenerativus amstelodamensis") or ((down* near/1 (disease or syndrome*)) or ((mongolian or mongoloid) near/1 idiocy) or mongolism or mongoloidism or trisomy 21) or ("childhood epileptic encephalopathy" or "lennox gastaut" or (lennox near/1 (disease* or syndrome))) or ("hypoxanthine phosphoribosyltransferase deficiency syndrome" or "juvenile hyperuricemia" or "lesch nyhan" or "mckusick 30800" or (nyhan near/1 (disease or syndrome*))) or (("copper transport" near/1 (disease or syndrome*)) or ((kinky or steely) near/1 hair) or menkes or trichopoliodystrophy) or ("bell martin" or "fragile x" or "gillian turner" or "martin bell" or "turner gillian" or "x chromosome fragility" or (escalante* near/1 (disease or syndrome*))) or (debility or oligiphreni* or oligophreny) or (((foelling or folling) near/2 (disease or syndrome*)) or "mckusick 26160" or oligophrenia or (phenylalanine near/1 "4 monooxygenase deficiency syndrome") or "hydroxylase deficiency syndrome" or phenylketonuria*) or ("hhho syndrome" or (prader near/2 willi)) or ("broad thumb-hallux" or

(rubinstein near/2 (disease or syndrome* or taybi))) or ((bourneville near/2 (disease or syndrome*)) or epiloia or (pringle near/2 (disease or syndrome*)) or "tuberose sclerosis") or ((wagr or william*) near/1 (disease or syndrome*)) or (west* near/2 (disease or syndrome*))):ti

#38 ((adreno near/1 (leukodystrophy or leukomyeloneuropathy)) or ("bronze schilder" near/1 (disease or syndrome*)) or "mckusick 30010" or adrenoleukodystrophy or adrenomyeloneuropathy or adrenoleukomyeloneuropathy or "divry bogaert type leukodystrophy" or "melanodermic leukodystrophy" or "siemerling-creutzfeldt" or "x ald" or ((angelman or "happy puppet") near/2 syndrom*) or (((brain or central or cerebral) near/1 (palsy or paralysis or paresis)) or "encephalopathia infantilis" or "spastic diplegia") or ("coffin-lowry" or "lowry coffin") or ("cat cry" or "cri du chat" or "crying cat" or ((5p or lejeune*) near/2 (disease or syndrome))) or ("amsterdam degenerative type" or "amsterdam dwarf" or brachmann or "de lange" or "congenital muscular hypertrophic cerebral" or "de lange" or "typus degenerativus amstelodamensis") or ((down* near/1 (disease or syndrome*)) or ((mongolian or mongoloid) near/1 idiocy) or mongolism or mongoloidism or trisomy 21) or ("childhood epileptic encephalopathy" or "lennox gastaut" or (lennox near/1 (disease* or syndrome))) or ("hypoxanthine phosphoribosyltransferase deficiency syndrome" or "juvenile hyperuricemia" or "lesch nyhan" or "mckusick 30800" or (nyhan near/1 (disease or syndrome*))) or (("copper transport" near/1 (disease or syndrome*)) or ((kinky or steely) near/1 hair) or menkes or trichopoliodystrophy) or ("bell martin" or "fragile x" or "gillian turner" or "martin bell" or "turner gillian" or "x chromosome fragility" or (escalante* near/1 (disease or syndrome*))) or (debility or oligiphreni* or oligophreny) or (((foelling or folling) near/2 (disease or syndrome*)) or "mckusick 26160" or oligophrenia or (phenylalanine near/1 "4 monooxygenase deficiency syndrome") or "hydroxylase deficiency syndrome" or phenylketonuria*) or ("hhho syndrome" or (prader near/2 willi)) or ("broad thumb-hallux" or (rubinstein near/2 (disease or syndrome* or taybi))) or ((bourneville near/2 (disease or syndrome*)) or epiloia or (pringle near/2 (disease or syndrome*)) or "tuberose sclerosis") or ((wagr or william*) near/1 (disease or syndrome*)) or (west* near/2 (disease or syndrome*))):ab

#39 (autis* or asperger* or "pervasive developmen* disorder*" or rett*):ti,ab,kw

#40 ((communicative near/2 impair*) or ((complex or "high support") near/3 needs) or ((language or speech) near/2 (delay* or disorder*))):ti,ab,kw

#41 #1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16 or #17 or #18 or #19 or #20 or #21 or #22 or #23 or #24 or #25 or #26

#42 #27 or #28 or #29 or #30 or #31 or #32 or #33 or #34 or #35 or #36 or #37 or #38 or #39 or #40

#43 #41 or #42

#44 behav*:ti,ab,kw

#45 mesh descriptor: [acting out] this term only

#46 mesh descriptor: [domestic violence] explode all trees

#47 mesh descriptor: [aggression] explode all trees

#48 mesh descriptor: [anger] explode all trees

#49 mesh descriptor: [dangerous behavior] this term only

#50 mesh descriptor: [hate] this term only

#51 mesh descriptor: [hostility] this term only

#52 mesh descriptor: [sexual harassment] this term only

#53 mesh descriptor: [torture] explode all trees

#54 mesh descriptor: [violence] this term only

#55 (abus* or aggress* or agitat* or agonistic or anger or angry or assault* or attack* or bizarre or combative or danger* or destruct* or disrupt* or disturb* or harass* or hostil* or intimidat* or rage* or threat* or untoward or “un toward” or violen*):ti

#56 (abus* or aggress* or agitat* or agonistic or anger or angry or assault* or attack* or bizarre or combative or danger* or destruct* or disrupt* or disturb* or harass* or hostil* or intimidat* or rage* or threat* or untoward or “un toward” or violen*):ab

#57 mesh descriptor: [drug overdose] this term only

#58 mesh descriptor: [self-injurious behavior] explode all trees

#59 mesh descriptor: [self mutilation] this term only

#60 mesh descriptor: [suicide] explode all trees

#61 mesh descriptor: [suicide, attempted] this term only

#62 mesh descriptor: [suicidal ideation] this term only

#63 (autoaggress* or "auto aggress*" or automutilat* or "auto mutilat*" or cutt* or overdos* or parasuicid* or "para suicid*" or (self near/2 cut*) or selfdamag* or "self damage*" or selfdestruct* or "self destruct*" or selfharm* or "self harm*" or selfhurt or "self hurt*" or selfinflict* or "self inflict*" or selfinjur* or "self injur*" or selfmutilat* or "self mutilat*" or selfpoison* or "self poison*" or "self wound*" or suicid*):ti

#64 (autoaggress* or "auto aggress*" or automutilat* or "auto mutilat*" or cutt* or overdos* or parasuicid* or "para suicid*" or (self near/2 cut*) or selfdamag* or "self damage*" or selfdestruct* or "self destruct*" or selfharm* or "self harm*" or selfhurt or "self hurt*" or selfinflict* or "self inflict*" or selfinjur* or "self injur*" or selfmutilat* or "self mutilat*" or selfpoison* or "self poison*" or "self wound*" or suicid*):ab

#65 mesh descriptor: [impulse control disorders] explode all trees

#66 mesh descriptor: [firesetting behavior] this term only

#67 mesh descriptor: [trichotillomania] this term only

#68 ((impulse control near/1 disorder*) or (explosive near/2 disorder)):ti

#69 ((impulse control near/1 disorder*) or (explosive near/2 disorder)):ab

#70 mesh descriptor: [child behavior] explode all trees

#71 mesh descriptor: [child behavior disorders] this term only

#72 mesh descriptor: [attention deficit and disruptive behavior disorders] 1 tree(s) exploded

#73 mesh descriptor: [stereotypic movement disorder] this term only

#74 (attenti* or disrupt* or impulsiv* or inattenti*):kw

#75 (attenti* near/3 (adolescen* 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

#76 (attenti* near/3 (adolescen* 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*)):ab

#77 (impulsiv* or inattentiv* or adhd or (attenti* near/3 deficit*) or hyperactiv* or (hyper near/1 activ*) or hyperkin*) or overactiv*:ti

#78 (impulsiv* or inattentiv* or adhd or (attenti* near/3 deficit*) or hyperactiv* or (hyper near/1 activ*) or hyperkin*) or overactiv*:ab

#79 mesh descriptor: [conflict (psychology)] this term only

#80 mesh descriptor: [fraud] this term only

#81 mesh descriptor: [juvenile delinquency] this term only

#82 mesh descriptor: [rape] this term only

#83 mesh descriptor: [theft] this term only

#84 mesh descriptor: [torture] this term only

#85 ((adjust* near/2 (difficult* or problem*)) or antisocial* or "anti social*" or arson or asbo or asocial or bully* or bullie* or callous* or delinquen* or deviant* or (fire* near/2 (alight or set* or start*)) or maladjust* or “mal adjust*” or psychopath* or pyromania or shoplift* or "shop lift*" or steal* or temper*1 or theft* or "unemotional trait*" or vandali* or (sex* near/2 (abus* or harass* or offen*)) or ((social or unemotional) near/1 (difficult* or problem*)) or noncomplian* or "non complian*"):ti

#86 ((adjust* near/2 (difficult* or problem*)) or antisocial* or "anti social*" or arson or asbo or asocial or bully* or bullie* or callous* or delinquen* or deviant* or (fire* near/2 (alight or set* or start*)) or maladjust* or “mal adjust*” or psychopath* or pyromania or shoplift* or "shop lift*" or steal* or temper*1 or theft* or "unemotional trait*" or vandali* or (sex* near/2 (abus* or harass* or offen*)) or ((social or unemotional) near/1 (difficult* or problem*)) or noncomplian* or "non complian*"):ab

#87 (((crumpl* or tear*) near/2 paper*) or fingering* or (finger* near/2 (flex* or tap*)) or flapping or "knee shaking" or humming or ((loud* or nois*) near/2 (instrument* or vocali*)) or "lip pucker*" or repetitive* or ritualistic or (rocking or (body near/2 rock*)) or ("self stimulat*" or selfstimulat*) or staring or stemming or stereotyp* or (thumb near/2 suck*) or (wav* near/2 (arm* or hand*))):ti

#88 77 (((crumpl* or tear*) near/2 paper*) or fingering* or (finger* near/2 (flex* or tap*)) or flapping or "knee shaking" or humming or ((loud* or nois*) near/2 (instrument* or vocali*)) or "lip pucker*" or repetitive* or ritualistic or (rocking or (body near/2 rock*)) or ("self stimulat*" or selfstimulat*) or staring or stemming or stereotyp* or (thumb near/2 suck*) or (wav* near/2 (arm* or hand*))):ab

#89 wander* or withdrawn*:ti,ab,kw

#90 #44 or #45 or #46 or #47 or #48 or #49 or #50 or #51 or #52 or #53 or #54 or #55 or #56 or #57 or #58 or #59 or #60 or #61 or #62 or #63 or #64 or #65 or #66 or #67 or #68 or #69 or #70

#91 #71 or #72 or #73 or #74 or #75 or #76 or #77 or #78 or #79 or #80 or #81 or #82 or #83 or #84 or #85 or #86 or #87 or #88 or #89

#92 #90 or #91

#93 #43 and #92

A.1.1.3 BEI, ERIC, IBSS, SSCI, Sociological Abstracts, Social Services Abstracts - Proquest

((intellect* near/3 (deficien* or difficult* or disab* or disorder* or impair* or handicap* or incapacit* or subnorm* or “sub* average” or “sub* average” or “sub* norm*”)) or (low*2 near/2 intellect*)) or (learning near/3 (deficien* or difficult* or disab* or disorder* or handicap* or impair* or incapacit* or subnorm* or “sub* average” or “sub* average” or “sub* norm*”)) or (mental* near/3 (deficien* or disab* or handicap* or impair* or incapacit* or retard* or subnorm* or “sub* average” or “sub* average” or “sub* norm*”))

A.1.1.4 CINAHL - EBSCO

s72	s33 and s71
s71	s34 or s35 or s36 or s37 or s38 or s39 or s40 or s41 or s42 or s43 or s44 or s45 or s46 or s47 or s48 or s49 or s50 or s51 or s52 or s53 or s54 or s55 or s56 or s57 or s58 or s59 or s60 or s61 or s62 or s63 or s64 or s65 or s66 or s67 or s68 or s69 or s70
s70	ti withdrawn* or ab withdrawn*
s69	ti wander* or ab wander*
s68	ti ((((crumpl* or tear*) n2 paper*) or fingering* or (finger* n2 (flex* or tap*)) or flapping or “knee shaking” or humming or ((loud* or nois*) n2 (instrument* or vocali*)) or “lip pucker*” or repetitive* or ritualistic or (rocking or (body n2 rock*)) or (“self stimulat*” or selfstimulat*) or staring or stemming or stereotyp* or (thumb n2 suck*) or (wav* n2 (arm* or hand*)))) or ab ((((crumpl* or tear*) n2 paper*) or fingering* or (finger* n2 (flex* or tap*)) or flapping or “knee shaking” or humming or ((loud* or nois*) n2 (instrument* or vocali*)) or “lip pucker*” or repetitive* or ritualistic or (rocking or (body n2 rock*)) or (“self stimulat*” or selfstimulat*) or staring or stemming or stereotyp* or (thumb n2 suck*) or (wav* n2 (arm* or hand*))))
s67	mw (repetitiv* or “self stimulat*” or stereotyp* or sucking)
s66	ti (((adjust* n2 (difficult* or problem*)) or antisocial* or “anti social*” or arson or asbo or asocial or bully* or bullie* or callous* or delinquen* or deviant* or (fire* n2 (alight or set* or start*)) or maladjust* or “mal adjust*” or pyromania or psychopath* or shoplift* or “shop lift*” or steal* or temper* or theft* or “unemotional trait*” or vandali* or (sex* n2 (abus* or harass* or offen*)) or ((social or unemotional) n1 (difficult* or problem*)) or noncomplian* or “non complian*”)) or ab (((adjust* n2 (difficult* or problem*)) or antisocial* or “anti social*” or arson or asbo or asocial or bully* or bullie* or callous* or delinquen* or deviant* or (fire* n2 (alight or set* or start*)) or maladjust* or “mal adjust*” or pyromania psychopath* or shoplift* or “shop lift*” or steal* or temper* or theft* or “unemotional trait*” or vandali* or (sex* n2 (abus* or harass* or offen*)) or ((social or unemotional) n1 (difficult* or problem*)) or noncomplian* or “non complian*”))
s65	(mh "torture")
s64	(mh "theft")
s63	(mh "rape")
s62	(mh "juvenile delinquency")

s61	(mh "fraud")
s60	(mh "pyromania")
s59	(mh "conflict (psychology)")
s58	ti ((impulsiv* or inattentiv* or adhd or (attenti* n3 deficit*) or hyperactiv* or “hyper activ*” or hyperkin*)) or ab ((impulsiv* or inattentiv* or adhd or (attenti* n3 deficit*) or hyperactiv* or “hyper activ*” or hyperkin*))
s57	ti ((attenti* n3 (adolescen* 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* n3 (adolescen* 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*)))
s56	mw (attenti* or disrupt* or impulsiv* or inattenti*)
s55	mw (attenti* or disrupt* or impulsiv* or inattenti*)
s54	ti ((conduct* or (oppositional n3 (defiant* or disorder*)))) or ab ((conduct* or (oppositional n3 (defiant* or disorder*))))
s53	(mh "social behavior disorders+")
s52	(mh "child behavior disorders")
s51	(mh "child behavior+")
s50	ti (((“impulse control disorder*”) or (explosive n2 disorder))) or ab (((“impulse control disorder*”) or (explosive n2 disorder)))
s49	(mh "impulse control disorders") or (mh "impulse control (iowa noc)")
s48	ti ((autoaggress* or “auto aggress*” or automutilat* or “auto mutilat*” or cutt* or overdos* or parasuicid* or “para suicid*” or “self cut*” or selfdamag* or “self damage*” or selfdestruct* or “self destruct*” or selfharm* or “self harm*” or selfhurt or “self hurt*” or selfinflict* or “self inflict*” or selfinjur* or “self injur*” or selfmutilat* or “self mutilat*” or selfpoison* or “self poison*” or “self wound*” or suicid*)) or ab ((autoaggress* or “auto aggress*” or automutilat* or “auto mutilat*” or cutt* or overdos* or parasuicid* or “para suicid*” or “self cut*” or selfdamag* or “self damage*” or selfdestruct* or “self destruct*” or selfharm* or “self harm*” or selfhurt or “self hurt*” or selfinflict* or “self inflict*” or selfinjur* or “self injur*” or selfmutilat* or “self mutilat*” or selfpoison* or “self poison*” or “self wound*” or suicid*))
s47	(mh "suicidal ideation") or (mh "suicide, attempted") or (mh "suicide risk (saba ccc)") or (mh "suicide prevention (iowa nic)") or (mh "suicide self-restraint (iowa noc)")
s46	(mh "self mutilation risk (saba ccc)") or (mh "risk for self-mutilation (nanda)") or (mh "self-mutilation restraint (iowa noc)") or (mh "injuries, self-inflicted")

s45	(mh "self-injurious behavior")
s44	(mh "overdose")
s43	ti ((abus* or aggress* or agitat* or agonistic or anger or angry or assault* or attack* or bizarre or combative or danger* or destruct* or disrupt* or disturb* or harass* or hostil* or intimidat* or rage* or threat* or untoward or “un toward” or violen*)) or ab ((abus* or aggress* or agitat* or agonistic or anger or angry or assault* or attack* or bizarre or combative or danger* or destruct* or disrupt* or disturb* or harass* or hostil* or intimidat* or rage* or threat* or “un toward” or untoward or violen*))
s42	(mh "domestic violence+")
s41	(mh "violence")
s40	(mh "torture")
s39	(mh "sexual harassment")
s38	(mh "sexual abuse+")
s37	(mh "anger") or (mh "anger control assistance (iowa nic)")
s36	(mh "aggression+")
s35	(mh "acting out")
s34	tx behav* or mw behav*
s33	s1 or s2 or s3 or s4 or s5 or s6 or s7 or s8 or s9 or s10 or s11 or s12 or s13 or s14 or s15 or s16 or s17 or s18 or s19 or s20 or s21 or s22 or s23 or s24 or s25 or s26 or s27 or s28 or s29 or s30 or s31 or s32
s32	ti (((communicative n2 impair*) or ((complex or “high support”) n3 needs) or ((language or speech) n2 (delay* or disorder*)))) or ab (((communicative n2 impair*) or ((complex or “high support”) n3 needs) or ((language or speech) n2 (delay* or disorder*))))
s31	ti ((autis* or asperger* or “pervasive developmen* disorder*” or rett*)) or ab ((autis* or asperger* or “pervasive developmen* disorder*” or rett*))
s30	(mh "autistic disorder") or (mh "pervasive developmental disorder-not otherwise specified") or (mh "asperger syndrome")
s29	ti (((adreno n1 (leukodystrophy or leukomyeloneuropathy)) or (“bronze schilder” n1 (disease or syndrome*)) or “mckusick 30010” or adrenoleukodystrophy or adrenomyeloneuropathy or adrenoleukomyeloneuropathy or “divry bogaert type leukodystrophy” or “melanodermic leukodystrophy” or “siemerling-creutzfeldt” or “x ald” or ((angelman or “happy puppet”) n2 syndrom*) or (((brain or central or cerebral) n1 (palsy or paralysis or paresis)) or “encephalopathia infantilis” or “spastic diplegia”) or (“coffin-lowry” or “lowry coffin”) or (“cat cry” or “cri du chat” or “crying cat” or ((5p or lejeune*) n2 (disease or syndrome))) or (“amsterdam degenerative type” or

	“amsterdam dwarf” or brachmann or “de lange” or “congenital muscular hypertrophic cerebral” or “de lange” or “typus degenerativus amstelodamensis”) or ((down* n1 (disease or syndrome*)) or ((mongolian or mongoloid) n1 idiocy) or mongolism or mongoloidism or trisomy 21) or (“childhood epileptic encephalopathy” or “lennox gastaut” or (lennox n1 (disease* or syndrome))) or (“hypoxanthine phosphoribosyltransferase deficiency syndrome” or “juvenile hyperuricemia” or “lesch nyhan” or “mckusick 30800” or (nyhan n1 (disease or syndrome*))) or ((“copper transport” n1 (disease or syndrome*)) or ((kinky or steely) n1 hair) or menkes or trichopoliodystrophy) or (“bell martin” or “fragile x” or “gillian turner” or “martin bell” or “turner gillian” or “x chromosome fragility” or (escalante* n1 (disease or syndrome*))) or (debility or oligiphreni* or oligophreny) or (((foelling or folling) n2 (disease or syndrome*)) or “mckusick 26160” or oligophrenia or (phenylalanine n1 “4 monooxygenase deficiency syndrome”) or “hydroxylase deficiency syndrome” or phenylketonuria*) or (“hhho syndrome” or (prader n2 willi)) or (“broad thumb-hallux” or (rubinstein n2 (disease or syndrome* or taybi))) or ((bourneville n2 (disease or syndrome*)) or epiloia or (pringle n2 (disease or syndrome*)) or “tuberose sclerosis”) or ((wagr or william*) n1 (disease or syndrome*)) or (west* n2 (disease or syndrome*)))) or ab (((adreno n1 (leukodystrophy or leukomyeloneuropathy)) or (“bronze schilder” n1 (disease or syndrome*)) or “mckusick 30010” or adrenoleukodystrophy or adrenomyeloneuropathy or adrenoleukomyeloneuropathy or “divry bogaert type leukodystrophy” or “melanodermic leukodystrophy” or “siemerling-creutzfeldt” or “x ald” or ((angelman or “happy puppet”) n2 syndrom*) or (((brain or central or cerebral) n1 (palsy or paralysis or paresis)) or “encephalopathia infantilis” or “spastic diplegia”) or (“coffin-lowry” or “lowry coffin”) or (“cat cry” or “cri du chat” or “crying cat” or ((5p or lejeune*) n2 (disease or syndrome))) or (“amsterdam degenerative type” or “amsterdam dwarf” or brachmann or “de lange” or “congenital muscular hypertrophic cerebral” or “de lange” or “typus degenerativus amstelodamensis”) or ((down* n1 (disease or syndrome*)) or ((mongolian or mongoloid) n1 idiocy) or mongolism or mongoloidism or trisomy 21) or (“childhood epileptic encephalopathy” or “lennox gastaut” or (lennox n1 (disease* or syndrome))) or (“hypoxanthine phosphoribosyltransferase deficiency syndrome” or “juvenile hyperuricemia” or “lesch nyhan” or “mckusick 30800” or (nyhan n1 (disease or syndrome*))) or ((“copper transport” n1 (disease or syndrome*)) or ((kinky or steely) n1 hair) or menkes or trichopoliodystrophy) or (“bell martin” or “fragile x” or “gillian turner” or “martin bell” or “turner gillian” or “x chromosome fragility” or (escalante* n1 (disease or syndrome*))) or (debility or oligiphreni* or oligophreny) or (((foelling or folling) n2 (disease or syndrome*)) or “mckusick 26160” or oligophrenia or (phenylalanine n1 “4 monooxygenase deficiency syndrome”) or “hydroxylase deficiency syndrome” or phenylketonuria*) or (“hhho syndrome” or (prader n2 willi)) or (“broad thumb-hallux” or (rubinstein n2 (disease or syndrome* or taybi))) or ((bourneville n2 (disease or syndrome*)) or epiloia or (pringle n2 (disease or syndrome*)) or “tuberose sclerosis”) or ((wagr or william*) n1 (disease or syndrome*)) or (west* n2 (disease or syndrome*))))
s28	(mh "spasms, infantile")
s27	(mh "wagr syndrome")
s26	(mh "tuberous sclerosis")
s25	(mh "rubinstein-taybi syndrome")
s24	(mh "prader-willi syndrome")

s23	(mh "phenylketonuria, maternal") or (mh "phenylketonuria")
s22	(mh "mucopolysaccharidoses")
s21	(mh "fragile x syndrome")
s20	(mh "down syndrome")
s19	(mh "de lange syndrome")
s18	(mh "cri-du-chat syndrome")
s17	(mh "coffin-siris syndrome")
s16	(mh "coffin-siris syndrome")
s15	(mh "cerebral palsy")
s14	(mh "angelman syndrome")
s13	(mh "adrenoleukodystrophy")
s12	ti “multipl* handicap*” or ab “multipl* handicap*”
s11	ti ((cretin* or “feeble-minded*” or imbecil* or moron*)) or ab ((cretin* or “feeble-minded*” or imbecil* or moron*))
s10	ti (education* n5 subnorm*) or ab (education* n5 subnorm*)
s9	ti (((development* or neurodevelopment*) n1 disab*)) or ab (((development* or neurodevelopment*) n1 disab*))
s8	ti (((subaverage or “sub* average” or subnormal or “sub* normal*”) n3 (cognit* or intel*))) or ab (((subaverage or “sub* average” or subnormal or “sub* normal*”) n3 (cognit* or intel*)))
s7	ti ((mental* n3 (deficien* or disab* or handicap* or impair* or incapacit* or retard* or subnorm* or “sub norm*” or “sub* average” or “sub* average”))) or ab ((mental* n3 (deficien* or disab* or handicap* or impair* or incapacit* or retard* or subnorm* or “sub norm*” or “sub* average” or “sub* average”)))
s6	ti ((learning n3 (deficien* or difficult* or disab* or disorder* or handicap* or impair* or incapacit* or subnorm* or “sub* average” or “sub* average” or “sub* norm*”))) or ab ((learning n3 (deficien* or difficult* or disab* or disorder* or handicap* or impair* or incapacit* or subnorm* or “sub* average” or “sub* average” or “sub* norm*”)))
s5	ti (((intellect* n3 (deficien* or difficult* or disab* or disorder* or impair* or handicap* or incapacit* or “sub norm*” or subnorm* or subaverage or “sub* average”)) or (low* n2 intellect*))) or ab (((intellect* n3 (deficien* or difficult* or disab* or disorder* or impair* or handicap* or incapacit* or “sub norm*” or subnorm* or subaverage or “sub* average”)) or (low* n2 intellect*)))

s4	(mh "mentally disabled persons")
s3	(mh "learning disorders")
s2	(mh "mental retardation+")
s1	(mh "developmental disabilities")

A.1.2 Population search terms (version 2)

A.1.2.1 Embase, Medline, PreMedline, PsycINFO - OVID

1	((aggression or aggressive behavio?r* or ((challenging or mal?adaptive) adj behavio?r*) or (behavio?r* adj2 (aberrant or problem*)) or ((destructive or disruptive) adj behavio?r*) or (destruct* adj2 property) or ((repetitive or stereotyped) adj behavio?r*) or stereotypy or self injurious behavio?r* or self?injur* or self?harm*) and (((developmental or intellectual or learning or mental) adj disabilit*) or intellectual impairment or (mental adj (handicap* or retardation)))).ti,ab,hw. or (developmental disorder or intellectual development disorder or learning disorder*).sh.

A.2 Section 2: intervention search terms

A.2.1 Review questions: 1.2,2.2,2.3

A.2.1.1 Embase, Medline, PreMedline, PsycINFO - OVID

1	checklist/ or clinical assessment/ or clinical evaluation/ or exp computer assisted diagnosis/ or functional assessment/ or geriatric assessment/ or measurement/ or needs assessment/ or nursing assessment/ or outcome assessment/ or patient assessment/ or predictive value/ or risk assessment/ or scoring system/ or self evaluation/ or semi structured interview/ or "speech and language assessment"/ or structured interview/ or structured questionnaire/
2	1 use emez
3	checklist/ or exp diagnosis, computer-assisted/ or diagnostic, self evaluation/ or geriatric assessment/ or interview, psychological/ or mass screening/ or needs assessment/ or exp nursing assessment/ or "outcome and process assessment (health care)"/ or "outcome assessment (health care)"/ or exp personality assessment/ or exp questionnaires/ or risk assessment/
4	3 use mesz, prem
5	attitude measurement/ or exp attitude measures/ or comprehension tests/ or computer assisted diagnosis/ or geriatric assessment/ or group testing/ or individual testing/ or measurement/ or needs assessment/ or exp perceptual measures/ or pretesting/ or exp

	psychiatric evaluation/ or exp psychodiagnostic interview/ or exp psychological assessment/ or exp questionnaires/ or risk assessment/ or exp selection tests/ or self evaluation/ or sensorimotor measures/
6	5 use psyh
7	(battery or batteries or checklist$ or check list$ or index or instrument$ or interview$ or inventor$ or item$ or measure$1 or questionnaire$ or rate or rating or scale$ or score$ or screen$ or (self adj (assess$ or report$)) or subscale$ or survey$ or tool$ or test form$).tw.
8	or/2,4,6-7
9	di.fs. or exp diagnosis/ or exp mass screening/ or screening test/
10	9 use emez
11	di.fs. or exp diagnosis/ or mass screening/ or nursing diagnosis/
12	11 use mesz, prem
13	exp diagnosis/ or exp health screening/ or screening/ or exp screening tests/
14	13 use psyh
15	(assess$ or course or detect$ or diagnos$ or evaluat$ or identif$ or monitor$ or predict$ or prognos$ or psychodiagnos$ or recogni$ or screen$).tw.
16	(or/10,12,14-15) or diagnos$.sh.
17	8 and 16
18	clinical assessment tool/ or exp diagnostic test/ or exp psychologic test/ or psychometry/ or rating scale/ or screening test/ or summated rating scale/
19	18 use emez
20	diagnostic tests, routine/ or "predictive value of tests"/ or exp psychiatric status rating scales/ or exp psychological tests/
21	20 use mesz, prem
22	exp inventories/ or performance tests/ or exp personality measures/ or exp preference measures/ or psychometrics/ or exp rating scales/ or exp reading measures/ or exp retention measures/ or exp screening tests/ or sociometric tests/ or "speech and hearing measures"/ or standardized tests/ or subtests/ or symptom checklists/ or exp testing/ or testing methods/ or exp test scores/ or verbal tests/
23	22 use psyh
24	(casefind$ or ((case or tool$) adj (find$ or identif$))).tw.
25	17 or (or/19,21,23-24)
26	"area under the curve"/ or predictive validity/ or receiver operating characteristic/ or reliability/ or "sensitivity and specificity"/ or test retest reliability/ or validity/

27 26 use emez

28 "area under curve"/ or "predictive value of tests"/ or "reproducibility of results"/ or roc curve/ or "sensitivity and specificity"/ or validation studies/

29 28 use mesz, prem

30 test reliability/ or test validity/

31 30 use psyh

32 (accurac$ or accurat$ or area under curve or auc value$ or clinical utilit$ or (likelihood adj3 ratio$) or (diagnostic adj2 odds ratio$) or ((pre?test or post?test) adj2 probabilit$) or (predict$ adj3 value$) or receiver operating characteristic or (roc adj2 curv$) or reliabil$ or sensititiv$ or specificit$ or valid$).tw.

33 or/27,29,31-32

34 25 and 33

35 (adaptive behavio?r scale$ or affective communication assessment $ or (assessment adj2 communication adj2 interaction skill) or autism behavio?r checklist$ or autonomy scale$ or british picture vocabulary test$ or (cardiff health check adj2 people adj3 learning disability) or (characteristics adj3 treatment environment) or chapas or passad or children$ communication checklist or children$ social behavio?r questionnaire or client behavio?r measure or (clinical evaluation adj2 language fundamentals) or celf 4 or celf4 or celf preschool 2 or celf preschool2 or celf p 2 or celf p2 or celfp2 or communication assessment profile or community adjustment scale or conner$ rating scale$ or conner$3 or derbyshire language scheme or developmental disability distress assessment tool or dis?dat or early communication assessment or (emotionality adj2 activity adj2 sociability temperament survey adj2 children) or eas survey or eas temperament survey or (functional assessment adj2 problem behavio?r$) or group home management schedule or (evaluation of$1 social interaction) or henderson environmental learning process scale or (home and community social behavio?r scale$) or hcsbs or hcsbs2 or school social behavio?r scale$ or ssbs or ssbs2 or (home observation adj3 measurement adj3 environment) or (home infant adj2 toddlers form) or (home adj2 (preschool or pre school) adj2 age form) or home elementary age form or homesf or home sf or (index adj2 adult autonomy) or (index adj2 community involvement) or (index adj2 participation adj2 domestic life) or (index adj2 physical environment) or life experience checklist or manchester pragmatics profile or mccormick toy or non communicating children$ pain checklist or physical quality instrument or playground observation checklist or pragmatics profile or (preschool language scale adj2 fourth edition) or pls 4 or pls4 or ((pre-verbal or preverbal) adj2 communication schedule) or (programme analysis adj2 service systems) or rapport measurement or receptive expressive emergent language test or (receptive adj2 expressive one word picture vocabulary test$) or owpvt 4 or owpvt4 or eowpvt 4 or eowpvt4 or rowpvt 4 or rowpvt4 or residential management survey $ or revised class play or revised residence management practices or (scales adj2 independent behavio?r adj2 revised) or (reynell zinkin scale$ and visual impairment$) or (sensory integration adj2 praxis test) or sensory processing measure or sensory profile or ((infant or toddler) adj2 sensory profile) or sensory profile school companion or ((adult$ or adolescent$) adj2 sensory profile) or social climate scale$ or social information-processing skill$ measure or sips measure$ or social skills improvement system or social skills rating system or south london object test or staff behavio?r measure or activity measure or responsibility scale or (test adj2 reception adj2 grammar) or (trichotillomania scale adj2 children) or (triple c and (checklist adj3 communicative competencies)) or vineland adaptive behavio?r scale).ti,ab.

36 (antecedent behavio?r consequences chart$ or abc chart$ or abc incident analysis or aberrant behavio?r checklist or (american association adj2 mental deficiency) or adaptive behavio?r scale$ or (residential adj2 community adj2 second edition) or abs rc$ or absrc or (assessment adj2 motor adj2 process skills) or school amps or bayley behavio?r rating scale or behavio?r checklist or behavio?r problems inventory or behavio?r screening questionnaire or (behavio?ral assessment system adj2 children) or bipolar adjective checklist or ((care giv$ or caregiv$) adj problem checklist) or clinical global impression$ or challenging behavio?r attributions scale or challenging behavio?r interview or (checklist adj2 challenging behavio?r) or child behavio?r checklist or (children$ scale adj2 hostility adj2 aggression adj2 (reactive or proactive)) or c sharp or csharp or (adult scale adj2 hostility adj2 aggression adj2 reactive proactive) or a$1 sharp or asharp or contextual assessment inventory or developmental behavio?r checklist or (diagnostic assessment adj3 severely handicapped) or dash ii or dashii or disability assessment schedule or emotional problems scale$ or eyberg child behavio?r inventory or family observation schedule or fos riii or fosriii or functional analysis screening tool or (hcr 20 and historical) or (hcr20 and historical) or (historical clinical risk management adj2 (cerebral palsy or crying cat syndrome or cornelia de lange syndrome or down's syndrome or phenylketonuria)) or (health adj3 nation outcome scales adj2 people adj2 learning disabilities) or health action plan or health action checklist or (home adj2 community problem checklist) or health equalities framework or home situation$ questionnaire or (institute adj2 basic research modified overt aggression scale) or ibr moas or ibrmoas or ibr modified overt aggression scale or ((interview protocol adj2 challenging behavio?r) and revised) or (inventory adj2 client adj2 agency planning) or (minnesota sex offender screening tool and revised) or mnsost r or mnsostr or modified overt aggression scale or motivation assessment scale or nisonger child behavio?r rating form or ncbrf or (nisonger child behavio?r rating form and problem behav$) or ncbrf pb or ncbrfpb or overt aggression scale or parental concerns questionnaire or pdd behavio?r inventory or pddbi or pdd bi or preschool behavio?r checklist or problem behavio?r questionnaire or (psychopathy checklist adj2 revised) or questions about behavio?ral function or (rapid risk assessment adj2 sexual offence recidivism) or rrasor or (reiss screen adj2 maladaptive behavio?r) or (repetitive behavio?r scale adj2 revised) or (revised children$ anxiety adj2 depression scale) or risk matrix 2000 or (scales adj2 independent behavio?r adj2 revised) or general maladaptive index or (schedule adj2 handicaps behavio?r adj2 skills) or hbs schedule or (screen adj2 child anxiety related emotional disorders) or spence children$ anxiety scale or sex offender risk appraisal guide or (social dysfunction adj2 aggression scale) or (strengths adj2 difficulties questionnaire) or treatment need matrix or visual analog scale or violence risk appraisal guide or walker problem behavio?r identification checklist or ward anger rating scale).ti,ab.

37 ((professional quality adj2 life scale) or dispositional resiliency scale or drs 15 or drs15 or beck depression inventory or abbreviated dyadic adjustment scale or (abbreviated quality adj2 life enjoyment adj2 satisfaction questionnaire) or q les q 18 or qlesq18 or qles q18 or attributional style questionnaire internal negative or asq in$1 or asqin or automatic thoughts questionnaire or caregiver strain questionnaire or (burden adj2 care questionnaire) or fam iii or famiii or family assessment measure or ((carer uplift adj2 burden scale) and uplift) or (depression anxiety adj2 stress scale) or general health questionnaire or malaise inventory or maslach burnout inventory or (maslow assessment adj2 needs) or mans ld or mansld or mcmaster family assessment device or parental stress index or patient health questionnaire or phq 2 or phq2 or phq 9 or phq9 or personal wellbeing index or profile of mood states or (questionnaire on resources adj2 stress) or situational guilt scale or (state-trait anxiety inventory adj2 trait scale) or (statetrait anxiety inventory adj2 trait scale) or stress arousal checklist).ti,ab.

38 or/113-115

39 *[cbld terms]* and 34

40 *[ld terms]* and 38

41 ((assess$ adj5 (battery or batteries or checklist$ or check list$ or index or instrument$ or interview$ or inventor$ or item$ or measure$1 or questionnaire$ or rate or rating or scale$ or score$ or screen$ or (self adj (assess$ or report$)) or subscale$ or survey$ or tool$ or test form$)).ti. and *[ld terms]*

42 (assess$ adj5 (battery or batteries or checklist$ or check list$ or index or instrument$ or interview$ or inventor$ or item$ or measure$1 or questionnaire$ or rate or rating or scale$ or score$ or screen$ or (self adj (assess$ or report$)) or subscale$ or survey$ or tool$ or test form$)).ti,ab. and *[cbld terms]*

43 or/41-42

44 or/39-40,43

A.3 Section 3: study design filter terms

A.3.1 Quantitative systematic review study design filters

A.3.1.1 Embase, Medline, Medline In-Process, PsycINFO – OVID SP

1 meta analysis/ or systematic review/

2 1 use emez

3 meta analysis.sh,pt. or "meta-analysis as topic"/ or "review literature as topic"/

4 3 use mesz, prem

5 (literature review or meta analysis).sh,id,md. or systematic review.id,md.

6 5 use psyh

7 (exp bibliographic database/ or (((electronic or computer$ or online) adj database$) or bids or cochrane or embase or index medicus or isi citation or medline or psyclit or psychlit or scisearch or science citation or (web adj2 science)).ti,ab.) and (review$.ti,ab,sh,pt. or systematic$.ti,ab.)

8 7 use emez

9 (exp databases, bibliographic/ or (((electronic or computer$ or online) adj database$) or bids or cochrane or embase or index medicus or isi citation or medline or psyclit or psychlit or scisearch or science citation or (web adj2 science)).ti,ab.) and (review$.ti,ab,sh,pt. or systematic$.ti,ab.)

10 9 use mesz, prem

11 (computer searching.sh,id. or (((electronic or computer$ or online) adj database$) or bids or cochrane or embase or index medicus or isi citation or medline or psyclit or psychlit or scisearch or science citation or (web adj2 science)).ti,ab.) and (review$.ti,ab,pt. or systematic$.ti,ab.)

12 11 use psyh

13 ((analy$ or assessment$ or evidence$ or methodol$ or quantitativ$ or systematic$) adj2 (overview$ or review$)).tw. or ((analy$ or assessment$ or evidence$ or methodol$ or quantitativ$ or systematic$).ti. and review$.ti,pt.) or (systematic$ adj2 search$).ti,ab.

14 (metaanal$ or meta anal$).ti,ab.

15 (research adj (review$ or integration)).ti,ab.

16 reference list$.ab.

17 bibliograph$.ab.

18 published studies.ab.

19 relevant journals.ab.

20 selection criteria.ab.

21 (data adj (extraction or synthesis)).ab.

22 (handsearch$ or ((hand or manual) adj search$)).ti,ab.

23 (mantel haenszel or peto or dersimonian or der simonian).ti,ab.

24 (fixed effect$ or random effect$).ti,ab.

25 ((pool$ or combined or combining) adj2 (data or trials or studies or results)).ti,ab.

26 or/2,4,6,8,10,12-25

A.3.1.2 CINAHL – Ebsco

s33	s1 or s2 or s3 or s4 or s5 or s6 or s7 or s8 or s9 or s10 or s11 or s12 or s13 or s14 or s15 or s16 or s22 or s23 or s26 or s27 or s28 or s29 or s30 or s31 or s32
s32	ti (analy* n5 review* or assessment* n5 review* or evidence* n5 review* or methodol* n5 review* or quantativ* n5 review* or systematic* n5 review*) or ab (analy* n5 review* or assessment* n5 review* or evidence* n5 review* or methodol* n5 review* or quantativ* n5 review* or systematic* n5 review*)
s31	ti (analy* n5 overview* or assessment* n5 overview* or evidence* n5 overview* or methodol* n5 overview* or quantativ* n5 overview* or systematic* n5 overview*) or ab (analy* n5 overview* or assessment* n5 overview* or evidence* n5 overview* or methodol* n5 overview* or quantativ* n5 overview* or systematic* n5 overview*)
s30	ti (pool* n2 results or combined n2 results or combining n2 results) or ab (pool* n2 results or combined n2 results or combining n2 results)
s29	ti (pool* n2 studies or combined n2 studies or combining n2 studies) or ab (pool* n2 studies or combined n2 studies or combining n2 studies)
s28	ti (pool* n2 trials or combined n2 trials or combining n2 trials) or ab (pool* n2 trials or

	combined n2 trials or combining n2 trials)
s27	ti (pool* n2 data or combined n2 data or combining n2 data) or ab (pool* n2 data or combined n2 data or combining n2 data)
s26	s24 and s25
s25	ti review* or pt review*
s24	ti analy* or assessment* or evidence* or methodol* or quantativ* or systematic*
s23	ti “systematic* n5 search*” or ab “systematic* n5 search*”
s22	(s17 or s18 or s19) and (s20 or s21)
s21	ti systematic* or ab systematic*
s20	tx review* or mw review* or pt review*
s19	(mh "cochrane library")
s18	ti (bids or cochrane or index medicus or “isi citation” or psyclit or psychlit or scisearch or “science citation” or web n2 science) or ab (bids or cochrane or index medicus or “isi citation” or psyclit or psychlit or scisearch or “science citation” or web n2 science)
s17	ti (“electronic database*” or “bibliographic database*” or “computeri?ed database*” or “online database*”) or ab (“electronic database*” or “bibliographic database*” or “computeri?ed database*” or “online database*”)
s16	(mh "literature review")
s15	pt systematic* or pt meta*
s14	ti (“fixed effect*” or “random effect*”) or ab (“fixed effect*” or “random effect*”)
s13	ti (“mantel haenszel” or peto or dersimonian or “der simonian”) or ab (“mantel haenszel” or peto or dersimonian or “der simonian”)
s12	ti (handsearch* or "hand search*" or "manual search*") or ab (handsearch* or "hand search*" or "manual search*")
s11	ab "data extraction" or "data synthesis"
s10	ab "selection criteria"
s9	ab "relevant journals"
s8	ab "published studies"
s7	ab bibliograph*

s6	ab "reference list*"
s5	ti (“research review*” or “research integration”) or ab (“research review*” or “research integration”)
s4	ti (metaanal* or “meta anal*”) or ab (metaanal* or “meta anal*”)
s3	(mh "meta analysis")
s2	(mh "systematic review")
s1	(mh "literature searching+")

A.3.1.3 Applied Social Sciences Index and Abstracts (ASSIA), Australian Education Index (AEI), British Education Index (BEI), Education Resources in Curriculum (ERIC), Social Services Abstracts (SSA), Sociological Abstracts, Applied Social Sciences Index and Abstracts (ASSIA), International Bibliography of Social Sciences (IBSS) - ProQUEST

S1 all ((“meta anal*” or “systematic overview” or “systematic review” or “systematic search”))

A.3.2 Qualitative systematic review study design filters

A.3.2.1 Embase, Medline, Medline In-Process, PsycINFO – OVID SP

1	(cross case analys$ or eppi approach or metaethno$ or meta ethno$ or metanarrative$ or meta narrative$ or meta overview or metaoverview or metastud$ or meta stud$ or metasummar$ or meta summar$ or qualitative overview$).ti,ab.
2	(((critical interpretative or evidence or meta or mixed methods or multilevel or multi level or narrative or parallel or realist) adj synthes$) or metasynthes$).ti,ab.
3	(qualitative$ and (metaanal$ or meta anal$ or synthes$ or systematic review$)).ti,ab,hw,pt.
4	or/1-3

A.3.2.2 CINAHL– EBSCO Host

s1	ti (“cross case analys*” or “eppi approach” or metaethno* or “meta ethno*” or metanarrative* or “meta narrative*” or “meta overview” or metaoverview or metastud* or “meta stud*” or metasummar* or “meta summar*” or “qualitative overview*”) or ab (“cross case analys*” or “eppi approach” or metaethno* or “meta ethno*” or metanarrative* or “meta narrative*” or “meta overview” or metaoverview or metastud* or “meta stud*” or metasummar* or “meta summar*” or “qualitative overview*”)
s2	ti (((“critical interpretative” or evidence or meta or “mixed methods” or multilevel or

	“multi level” or narrative or parallel or realist) near synthes*) or metasynthes*) or ab ((((“critical interpretative” or evidence or meta or “mixed methods” or multilevel or “multi level” or narrative or parallel or realist) near synthes*) or metasynthes*)
s3	ti qualitative* or ab qualitative* or mw qualitative* or pt qualitative*
s4	ti (metaanal* or “meta anal*” or synthes* or “systematic review*”) or ab (metaanal* or “meta anal*” or synthes* or “systematic review*”) or mw (metaanal* or “meta anal*” or synthes* or “systematic review*”) or pt (metaanal* or “meta anal*” or synthes* or “systematic review*”)
s5	s3 and s4
s6	s1 or s2 or s5

A.3.2.3 Applied Social Sciences Index and Abstracts (ASSIA), Australian Education Index (AEI), British Education Index (BEI), Education Resources in Curriculum (ERIC), Social Services Abstracts (SSA), Sociological Abstracts, Applied Social Sciences Index and Abstracts (ASSIA), International Bibliography of Social Sciences (IBSS) - ProQUEST

s1	all((“cross case analys*” or “eppi approach” or metaethno* or “meta ethno*” or metanarrative* or “meta narrative*” or “meta overview” or metaoverview or metastud* or “meta stud*” or metasummar* or “meta summar*” or “qualitative overview*”))
s2	all((((“critical interpretative” or evidence or meta or “mixed methods” or multilevel or “multi level” or narrative or parallel or realist) near/1 synthes*) or metasynthes*))
s3	all((qualitative* and (metaanal* or “meta anal*” or synthes* or “systematic review*”)))
s4	s1 or s2 or s3

A.3.3 Randomized controlled trials study design filters

A.3.3.1 Embase, Medline, PreMEDLINE, PsycINFO – OVID

1 exp "clinical trial (topic)"/ or exp clinical trial/ or crossover procedure/ or double blind procedure/ or placebo/ or randomization/ or random sample/ or single blind procedure/

2 1 use emez

3 exp clinical trial/ or exp “clinical trials as topic”/ or cross-over studies/ or double-blind method/ or placebos/ or random allocation/ or single-blind method/

4 3 use mesz, prem

5 (clinical trials or placebo or random sampling).sh,id.

6 5 use psyh

7 (clinical adj2 trial$).ti,ab.

8 (crossover or cross over).ti,ab.

9 (((single$ or doubl$ or trebl$ or tripl$) adj2 blind$) or mask$ or dummy or doubleblind$ or singleblind$ or trebleblind$ or tripleblind$).ti,ab.

10 (placebo$ or random$).ti,ab.

11 treatment outcome$.md. use psyh

12 animals/ not human$.mp. use emez

13 animal$/ not human$/ use mesz, prem

14 (animal not human).po. use psyh

15 (or/2,4,6-11) not (or/12-14)

A.3.3.2 CINAHL– EBSCO Host

s10	s9 not s8
s9	s1 or s2 or s3 or s4 or s5 or s6 or s7
s8	(mh "animals") not (mh "human")
s7	(pt "clinical trial") or (pt "randomized controlled trial")
s6	ti (placebo* or random*) or ab (placebo* or random*)
s5	ti (“single blind*” or “double blind*” or “treble blind*” or mask* or dummy* or singleblind* or doubleblind* or trebleblind*) or ab (“single blind*” or “double blind*” or “treble blind*” or mask* or dummy* or singleblind* or doubleblind* or trebleblind*)
s4	ti (crossover or “cross over “) or ab (crossover or “cross over”)
s3	ti clinical n2 trial* or ab clinical n2 trial*
s2	(mh "crossover design") or (mh "placebos") or (mh "random assignment") or (mh "random sample")
s1	(mh "clinical trials+")

A.3.3.3 Applied Social Sciences Index and Abstracts (ASSIA), Australian Education Index (AEI), British Education Index (BEI), Education Resources in Curriculum (ERIC), Social Services Abstracts (SSA), Sociological Abstracts, Applied Social Sciences Index and Abstracts (ASSIA), International Bibliography of Social Sciences (IBSS) – PROQUEST

S1	all ((clinical near/1 trial* or crossover or “cross over”) or ((single* or doubl* or trebl* or tripl*) near/1 (blind* or mask* or dummy)) or (singleblind* or doubleblind* or trebleblind* or tripleblind* or placebo* or random*))