Appendix K: Clinical evidence – examples of study characteristics data extraction and methodology checklist

A Microsoft Excel-based data extraction tool, developed by National Collaborating Centre for Mental Health staff, was adapted for use in the current context to extract evidence from randomised controlled trials.

The following screen grabs provide an example of the study characteristics extracted for each study and the methodology checklist. Further information was extracted about funding, publication status, comparisons and study results (not shown).

Review Manager 5.1 was used to extract data for the review of case identification instruments. Microsoft Word-based forms were used to extract evidence about access to services and the experience of care.

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1 Example of study characteristics data extraction

4	A	E	F	G	H	1	J	K	L	M	N	0	P	Q	R	S		
1	STUDY				NTEXT					INCLUSION/ EXCLU	JSION CRITERIA							
2	Study_ID -	Group2	Population ~	Year	Country -	Recruit_Loc 🖪	Recruit_Q	▼ N_Rand	▼ Diagnosis ▼	Target_behaviour	Diagnosis_BehaviourQ 🔻	IQ_Cutoff ▼	Age_Mir ▼	Age_Ma ▼	Autism_Exc ▼	OtherIn/Exclusions_Q 🔻		
	Akhondzadeh 2008	0.1 Placebo	Children and young	2008	Iran	Outpatient	Children's outpatient clinic of	40	Autism	Challenging behaviour	i) DSM IV-TR autism; ii)	N/R	3	11	Selected for	i) Children were		
3			people			Services	Roozbeh Hospital.			(not specified)	Patients presented with a					excluded if they had		
	Aman 2002	0.1 Placebo	Children and young	2002	USA	N/R	N/A	58	Learning	Challenging behaviour	i) An axis II diagnosis of	70	5	12	N/R	Inclusion: i) Vineland		
4			people						Disabilities	(not specified)	subaverage IQ; ii) DSM-					Adaptive Behavior Scale		
	Amminger 2007	0.1 Placebo	Children and young	2007	Austria	Outpatient	Study participants were recruite	1 13	Autism	Irritability	i) DSM-IV autism; ii)	N/R	5	17	Selected for	 i) Inclusion: weight ≥ 		
6			people			Services	from children and adolescents				severe tantrums,					15kg; mental age of ≥ 18		
	Amore 2011	4.3 Antipsychotics: Risperidone	Adults	2011	Italy	Inpatient	Participants in the study were	62	Learning	Challenging behaviour	i) severe mental	N/A	N/R	N/R	N/R	i) all patients were		
7						Services	consecutive patients attending a		Disabilities	(aggression)	retardation (DSM-IV TR)					receiving a FGAs for a		
	Bilgin 2009	0.2 Wait list	Family carers of	2009	Turkey	Education	The mothers were	90	Learning	None	i) children with intellectual	N/R	N/R	N/R	N/R	 i) (excluded mothers 		
10			children and young			services	informed about the study by the		Disabilities		disability; ii) (not					who were not able to		
	Chan 2005	0.5 Attention/Monitoring	Mixed	2005	Hong Kong	Inpatient	Participants were recruited from	89	Learning	Challenging behaviour	i) Diagnosed with mental	N/R	11	71	N/R	 i) Exclusion criteria: 		
15						Services	a developmental disability unit in		Disabilities	(not specified)	retardation according to					History of epilepsy		
	Craft 1987	0.1 Placebo	Adults	1987	UK	Inpatient	Five centres participated in the	42	Learning	Challenging behaviour	i) mentally handicapped in-	N/A	N/R	N/R	N/R	 Patients were excluded 		
17						Services	trial, contributing a total of 42		Disabilities	(aggression)	patients; ii) exhibiting					from the trial if they		
	Davis 1991	0.3 Treatment as usual	Family carers of	1991	UK	Community	Tower Hamlet's Child	80	Learning	None	i) families of children with	N/R	N/R	N/R	N/R	N/A		
18			children and young			referral (e.g.	Development Team in East		Disabilities		intellectual or multiple							
	Ferraioli 2013	5.1 Parent Training		2013	USA	Mixed	Participants were recruited	21	Autism	None	 The participants' 	N/R	N/R	N/R	Selected for	Parents were required to		
21			children and young				through the Outreach Division o	î			children represented					be the primary		
	Gagiano 2005	0.1 Placebo	Adults	2005	Worldwide	Unclear	N/R	77	Learning	Challenging behaviour	i) Axis II diagnosis of	35 to 84	18	65	N/R	 Patients were healthy, 		
22					(Multiple)				Disabilities	(not specified)	borderline intellectual					according to results of a		
	Gammon 1991	0.4 No treatment	Family carers of	1991	USA	Education	Parents were recruited for the	42		None	 i) Child with specific 	N/R	N/R	N/R	N/R	 The parents must have 		
23			children and young	<u> </u>		services	study using fliers		Disabilities		developmental or other					known about their		
	Gencoz 1997	0.3 Treatment as usual	Children and young	1997	Turkey	Education	Children were chosen from a	26	Learning	Challenging behaviour	i) persons with trainable	N/R	N/R	N/R	N/R	 Must be able to pass 		
24			people			services	state school for persons with		Disabilities	(not specified)	mental retardation; ii)					50% of the Gross Motor		
	Ghanizadeh 2013	4.3 Antipsychotics: Risperidone	Children and young	2013	Iran	Outpatient	Children were recruited from the		Autism	Irritability	i) DSM-IV autism	N/R	4	18	Selected for	i) Excluded children with		
25			people			Services	child psychiatry outpatient clinic				spectrum disorders; ii)					a history of medically		
	Greaves 1997	0.5 Attention/Monitoring	1 -	1997	Australia	Education	The sample of 54 mothers was	54	Down	None	i) Pre-school children	N/R	N/R	N/R	N/R	N/A		
26			children and young			services	attending an early intervention		Syndrome		with Down syndrome ii)							

1	Α	Т	U	V	W	X	Υ	Z	AA	AB	AC	AD	AE	AF	AG
1	STUDY	<u>F</u>	RANDOMISATION							PARTICIPANT DEMO	OGRAPHICS .				
2	Study_ID 🔻	Num_Group ▼	Unit_Rand ▼	N_Cluste ▼	Age (yrs)	Sex (% F) ▼	Race (% Whit 🔻	IQ 🔻	Diagnosis	ID_DisabilityLevel_(>	Baseline_CB_Q	CurrMed -	Med_Q ▼	Autism	▼ OtherDemo_Q ▼
3	Akhondzadeh 2008	2	Individual	N/A	6.80	25.00	N/R	N/R	Autism	N/R	N/R	N/R	N/A	100.00	(100% autism).
4	Aman 2002	2	Individual	N/A	8.74	20.67	56.90	57	Learning Disabilities	Mild mental retardation = 65.56%;	(Nisonger Child Behavior Rating Form	N/R	Use of consistent doses of	N/R	DSM-IV axis I diagnosis:
6	Amminger 2007	2	Individual	N/A	11.24	0.00	N/R	N/R	Autism	N/R	(ABC-I at baseline = 28.09)	N/R	N/A	100.00	(100% autism).
7	Amore 2011	2	Individual	N/A	48.00	27.40	N/R	N/R	Learning Disabilities	(100% Severe ID)	N/R	100.00	At the beginning of the study, all	N/R	All had a Clinical Global Impression-
10	Bilgin 2009	2	Individual	N/A	34.03	100.00	N/R	N/R	Learning Disabilities	(100% intellectual disability)	N/R	N/R	N/R	N/R	N/R
15	Chan 2005	2	Individual	N/A	N/R	59.52	N/R	N/R	Learning Disabilities	Mild mental retardation = 49.44%;	i) (Checklist of Challenging Behaviour	100.00	Most participants had a diagnosis of	N/R	i) Schizophrenia/psyc
17	Craft 1987	2	Individual	N/A	32.76	30.95	N/R	N/R	Learning Disabilities	(Mild mental handicap = 9.52%; moderate	(Aggressive = 52.38%; self-	N/R	Other medication currently being	N/R	N/A
18	Davis 1991	2	Individual	N/A	32.63	100.00	65.00	N/R	Learning Disabilities	General quotient= 59.82 (equivilent to	N/R	N/R	N/R	N/R	N/R
21	Ferraioli 2013	2	Individual	N/A	N/R	66.60	33.00	N/R	Autism	The participants' children represented	N/R	N/R	N/A	100.00	Socioeconomic background was
22	Gagiano 2005	2	Individual	N/A	29.77	38.96	N/R	56	Learning Disabilities	(Borderline intellectual functioning =	(Mean ABC-total= 49.65)	5.19	N/A	N/R	(ASPD = 5.18%; Conduct disorder
23	Gammon 1991	2	Individual	N/A	38.43	100.00	N/R	N/R	Developmental Disabilities	(i. Proportion of each diagnosis N/R but	N/R	N/R	N/R	N/R	N/R
24	Gencoz 1997	2	Individual	N/A	12.08	N/R	N/R	N/R	Learning Disabilities	trainable mentally retarded children	Adaptive Behaviour Scale (ABS)-	N/R	N/R	N/R	N/R
25	Ghanizadeh 2013	2	Individual	N/A	9.55	18.63	N/R	N/R	Autism	N/R	N/R	N/R	No marked change in dose of	93.50	Mean weight= 32.05;. Mean
26	Greaves 1997	3	Individual	N/A	N/R	100.00	N/R	N/R	Down Syndrome	(100% Down Syndrome)	N/R	N/R	N/R	N/R	N/R

2 Example of methodology checklists

1	A	AH	Al	AJ	AK	AL	AM	AN	AO AP		AQ	AR	AS	AT
1	STUDY	SEC	QUENCE GENERATION	RATION ALLOCATION CONCEALMENT				BLINDING (performance a		MISSING OUTCOME DATA				
2	Study_ID	RandMethod 🔻	Quotation	ROB 🕶	Quotation	ROB 🕶	Participants -	Providers -	ROB ~	Outcome Assessors	ROB 🕶	Mthd_Analy -	Quotation	ROB 🕶
	Akhondzadeh 2008	Computer/Online	Patients were randomized	Low	The assignments were kept	Low	Throughout the study, the	Throughout the study, the	Low	Throughout the study, the	Low	No dropout /	All patients completed the	Low
3			to receive piracetam or		in sealed, opaque envelopes		person who administered	person who administered		person who administered		Denominator is all	trial and there were no	
	Aman 2002	Unclear	Participants were randomly	Unclear	N/R	Unclear	Double blind.	Double blind.	Low	Double blind.	Unclear	Last observation	An intent-to-treat design	Low
4			assigned to receive									carried forward	was used, with the last	
	Amminger 2007	Unclear	Children were randomly	Unclear	N/R	Unclear	Double blind (no further	Double blind (no further	Low	Double blind (unclear if	Unclear	Available case	(Main analysis is available	Low
6			assigned.				detail with regard to who is	detail with regard to who is		assessor was blind)			case and extracted	
	Amore 2011	Unclear	Randomised to olanzapine	Unclear	N/R	Unclear	Single-blind (no further	Single-blind (no further	Unclear	Blind assessment of	Low	No dropout /	(62 randomised and 62	Low
7			and to risperidone.					info)		outcome		Denominator is all	included in analyses)	
	Bilgin 2009	Computer/Online	Participants were then	Low	Allocation was concealed	Low	The intervention group was	N/R	N/A	self-completion	High	No dropout /	(45 randomised to each	Low
10			randomly allocated to the		from the recruiting		then asked to attend the			questionnaire (for mothers)		Denominator is all	group & 45 analysed for	
	Chan 2005	Mechanical, e.g.	Randomly assigned to	Low	N/R	Unclear	N/R	A nurse specialist acted as	N/A	i) A research assistant	High	No dropout /	(Table 3 shows same	Low
15		coin toss	experimental and control					carer and enabler in the		entered the room with the		Denominator is all	numbers of Ps at pre- and	
	Craft 1987	Minimisation	Allocation to either the	Low	N/R	Unclear	The pathologist or another	Double blind (no further	Low	Double blind (no further	Unclear	No dropout /	No participants were	Low
17			active or placebo group				doctor at each centre	detail with regard to who,		detail with regard to who,		Denominator is all	withdrawn from the study.	
	Davis 1991	Unclear	Consecutive referrals were	Unclear	N/R	Unclear	N/A	N/A	N/A	(Primary outcome, Malaise	High	Unclear	Data on three Bangladeshi	Unclear
18			randomly allocated either to							inventory, self report)			families were excluded,	
	Ferraioli 2013	Unclear	Parents were divided into	Unclear	N/R	Unclear	N/R	For the fall cohort, both	N/A	(self report)	High	Available case	Completer analyses were	High
21			matched pairs based on					groups were led by the					conducted, considering	
	Gagiano 2005	Other		Low	N/R	Unclear	Double-blind.	Double-blind	Low	In the double-blind study,	Low	Last observation	Data from all randomized	Low
22			allocated in equal numbers							the clinician who scored		carried forward	patients who had taken	\perp
	Gammon 1991	Unclear	Parents meeting the	Unclear	N/R	Unclear	The interventions involved	Coping Skills Training	N/A	(Unblinded Self-report)	High	Unclear	N/R	Unclear
23			eligibility requirements for				parents' active participation							
	Gencoz 1997	Unclear	subjects were then tested	Unclear	N/R	Unclear	N/R	N/R	N/A	(reported by parents and	Unclear	Unclear	(No mention of dropout or	Unclear
24			on the Turkish							teachers; blinding not			missing data)	
	Ghanizadeh 2013	Unclear	Participants were randomly	Unclear	N/R	Unclear	Patients were blind to	The clinician who	High	Both rater and the	Low	Imputation (those	A second round of	Low
25			assigned to one of the two				treatment assignment.	administered the		patients were blind to		receiving some	statistical analyses using	
	Greaves 1997	Unclear	The mothers were	Unclear	N/R	Unclear	The titles of the seminars	N/R	N/A	(Unblinded Self-report)	High	Unclear	N/R	Unclear
26			randomly assigned to one				in both the REPE and ABA							

A	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG
STUDY			SELECTIVE OUTCOME REP	<u>ORTING</u>		OTHER BIAS			<u>FUNDING</u>		PUBLICAT		
				Secondary_Outcome 🔻	Quotation			Stopped_Ear ▼	ROB ▼	Funding_Sour >		Unpub_Di 🗸	Unpub_Description
Akhondzadeh 2008	No	N/R	HIGH- One or more outcomes of interest in the review	N/A	Each child was rated at	High	N/A	No	Low	Tehran	Published	No	N/A
			are reported incompletely so that they cannot be entered		baseline and at week 2,					University of	paper(s)		
Aman 2002	No	(This study	LOW- The study protocol is not available but it is clear	N/A	(All outcomes reported in	Low	(i.Study medication and	No	High	Janssen	Published	No	N/A
		was not	that the published reports include all expected outcomes,		the correct format;		support was provided by			Research	paper(s)		
Amminger 2007	N/R	N/A	UNCLEAR -Insufficient information to permit judgement	N/A	(All outcomes reported in	Unclear	N/A	No	Low	Study	Published	No	N/A
			of 'Yes' or 'No'. It is likely that the majority of studies		the correct format)					medication	paper(s)		
Amore 2011	N/R	N/A	UNCLEAR -Insufficient information to permit judgement	N/A	(Study reports that	Unclear	Cumulative numbers of	No	Low	N/R	Published	No	N/A
			of 'Yes' or 'No'. It is likely that the majority of studies		outcomes were recorded at		episodes of verbal				paper(s)		
Bilgin 2009	N/R	N/R	UNCLEAR -Insufficient information to permit judgement	N/A	(All outcomes reported in	Unclear	N/A	No	Low	Research	Published	No	N/A
			of 'Yes' or 'No'. It is likely that the majority of studies		the correct format)					foundation of	paper(s)		
Chan 2005	N/R	N/A	UNCLEAR -Insufficient information to permit judgement	N/A	(All outcomes reported in	Unclear	N/A	No	Low	Health Care and	Published	No	N/A
			of 'Yes' or 'No'. It is likely that the majority of studies		the correct format)					Promotion Fund	paper(s)		
Craft 1987	N/R	N/A	HIGH- One or more outcomes of interest in the review	N/A	(mean aggression scores	High	i) The administration of	No	High	N/R	Published	No	N/A
			are reported incompletely so that they cannot be entered		not reported, no SD)		additional medication to				paper(s)		
Davis 1991	N/R	N/R	HIGH- One or more outcomes of interest in the review	HIGH- Not all of the	Although results for all the	High	N/A	No	Low	Mental Health	Published	No	N/A
			are reported incompletely so that they cannot be entered	study's pre-specified	measures are available, in					Foundation.	paper(s)		
Ferraioli 2013	No	N/A	HIGH- One or more outcomes of interest in the review	HIGH- One or more	(One or more outcomes of	High	i) Despite randomization	No	High	Organization for	Published	No	N/A
			are reported incompletely so that they cannot be entered	outcomes of interest in the	interest in the review are		efforts to reduce between-			Autism	paper(s)		
Gagiano 2005	N/R	N/A	UNCLEAR -Insufficient information to permit judgement	N/A	BPI scores (total score and	Unclear	This work was supported	No	High	Johnson &	Published	No	N/A
			of 'Yes' or 'No'. It is likely that the majority of studies		self-injurious behavior,		by Johnson & Johnson			Johnson	paper(s)		
Gammon 1991	N/R	N/R	HIGH- One or more outcomes of interest in the review	N/A	(Outcome scores presented	High	N/A	No	Low	N/R	Published	No	N/A
			are reported incompletely so that they cannot be entered		as mean ranks)						paper(s)		
Gencoz 1997	N/R	N/A	UNCLEAR -Insufficient information to permit judgement	N/A	(All outcomes reported in	Unclear	N/A	No	Low	N/R	Published	No	N/A
			of 'Yes' or 'No'. It is likely that the majority of studies		the correct format)						paper(s)		
Ghanizadeh 2013	Yes	IRCT201110	LOW- The study protocol is available and all of the	N/A	(All outcomes reported in	Low	(Authors associated with	No	High	Author (MB) is	Published	No	N/A
		233930N15	study's pre-specified (primary and secondary) outcomes		the correct format)		the study have received			supported by	paper(s)		
Greaves 1997	N/R	N/R	HIGH- One or more outcomes of interest in the review	N/A	(Outcome scores presented	Unclear	N/A	No	Low	N/R	Published	No	N/A
			are reported incompletely so that they cannot be entered		as mean change only; no						paper(s)		