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Supplementary File 2 - Review characteristics

Description: Table of included meta-analyses and their characteristics.

Review characteristics for studies providing unique effects									
Review Characteristics									
Review characteristics for studies analysing modelling unique effects									
First Author	Year	Design Restrictions	Sample Restrictions	Year Range - Latest	Sample Age Restrictions (Age Range) ¹	Outcomes Assessed	Exposures Assessed		
Abrami	2020	Include: Experimental designs	None specified	2009-2019	School-age Children (Early Primary; Elementary)	<ul style="list-style-type: none"> Literacy: Listening comprehension Literacy: Phonics Literacy: Phonemic awareness Literacy: Reading comprehension Literacy: Reading fluency Literacy: Vocabulary knowledge 	<ul style="list-style-type: none"> Intervention: Mathematics (via calculators; in schools) 		
Adelantado-Renau	2019	Include: Cross-sectional studies	None specified	1982-2019	Children; Adolescents (5.5-18.6)	<ul style="list-style-type: none"> Learning: General Learning: Numeracy Health: behavior; self-efficacy Psychological health: depression Psychological health: enjoyment Social interactions: general perceptions; general self-efficacy 	<ul style="list-style-type: none"> Screen use: General TV programs and movies: General General games: General 		
Andrade	2019	Include: Interventions	Include: Overweight and obese	2010-2017	Children; Adolescents	<ul style="list-style-type: none"> Health: behavior; self-efficacy Psychological health: depression Psychological health: enjoyment Social interactions: general perceptions; general self-efficacy 	<ul style="list-style-type: none"> Video games: Physically active 		
Arzemann	2022	None specified	None specified	2008-2020	School-age Children (Primary; Elementary; Middle School)	<ul style="list-style-type: none"> Learning: Behavior Learning: Motivation 	<ul style="list-style-type: none"> Video games: Educational (with competition) 		
Asprilanti	2020	Include: Interventions	Include: autism	2013-2015	School-age Children (Primary; Elementary)	<ul style="list-style-type: none"> Learning: General 	<ul style="list-style-type: none"> Intervention: Education (via council setting) 		
Bartel	2015	None	Exclude: Abnormal population (except for delayed sleep phase disorder or insomnia)	2004-2014	Adolescents (12-17.7)	<ul style="list-style-type: none"> Sleep: Bedtime Sleep: Duration Sleep: Time to fall asleep 	<ul style="list-style-type: none"> TV programs and movies: General Video games: General 		
Beck-Silva	2022	Include: Randomised controlled trials and quasi-RCTs	Exclude: Any disease Mental disorders	1999-2019	Adolescents	<ul style="list-style-type: none"> Diet: fat consumption 	<ul style="list-style-type: none"> Intervention: Education (in schools) 		
Benedix-Varela	2020	Include: Randomised controlled trials	Include: Math difficulties	2006-2018	Children	<ul style="list-style-type: none"> Numeracy: Mathematics 	<ul style="list-style-type: none"> Intervention: Mathematics 		
Blok	2002	None	Include: Regular students, poor readers or dyslexics Exclude: Severe or multiple disabilities	1990-2000	All (5.4-11.5)	<ul style="list-style-type: none"> Literacy: Reading fluency 	<ul style="list-style-type: none"> Intervention: Literacy 		
Bosse	2020	Include: Randomised controlled trials	Include: Chronic disease	2011-2018	Children (0.0-15.7)	<ul style="list-style-type: none"> Body composition: cardiometabolic health Physical activity: General Physical health: muscular fitness 	<ul style="list-style-type: none"> Video games: Health promoting content 		
Boyland	2016	Include: Experimental	None specified	2004-2015	Children; Adolescents (6.0-19.0)	<ul style="list-style-type: none"> Diet: food intake 	<ul style="list-style-type: none"> Advertising: unhealthy food 		
Byun	2018	Include: All quantitative designs	None specified	2006-2014	School-age Children	<ul style="list-style-type: none"> Numeracy: General Cognition: Executive functioning Cognition: Executive functioning (cognitive flexibility) Cognition: Executive functioning (initiation) Cognition: Executive functioning (working memory) 	<ul style="list-style-type: none"> Video games: Numeracy 		
Cao	2020	Include: designs with control groups	Exclude: Brain damage	2009-2019	Children (0.0-14.0)	<ul style="list-style-type: none"> Body composition Diet: fat consumption Diet: fruit and vegetable intake Diet: fruit intake Diet: sugar drinks and snacks 	<ul style="list-style-type: none"> Computer use: Executive functioning training 		
Champion	2019	Include: Randomised controlled trials	None specified	2003-2017	School-age Children (11.4-15.9)	<ul style="list-style-type: none"> Physical activity: towards peers Risky behavior: alcohol consumption Risky behavior: smoking Screen time: general 	<ul style="list-style-type: none"> Intervention: Lifestyle risk behaviour (at school) 		
Chen	2014	Include: Experimental; Quasi-experimental	None specified	2002-2012	School-age Children	<ul style="list-style-type: none"> Numeracy: General 	<ul style="list-style-type: none"> Intervention: Dynamic geometry software 		
Chauhan	2017	Include: pre-post designs with or without control group	None specified	2001-2016	School-age Children (Primary; Elementary)	<ul style="list-style-type: none"> Learning: General 	<ul style="list-style-type: none"> Screen use: General (in schools) 		
Chen	2020	Include: Experimental designs	None specified	2008-2019	All	<ul style="list-style-type: none"> Learning: General 	<ul style="list-style-type: none"> Educational: Educational (with competition) 		
Cheung	2012	Include: Randomised controlled trials	None specified	1982-2010	School-age Children	<ul style="list-style-type: none"> Literacy: Reading 	<ul style="list-style-type: none"> Intervention: Reading (in schools) 		
Cheung	2013	Include: Experimental; Quasi-experimental	None specified	1980-2010	School-age Children	<ul style="list-style-type: none"> Numeracy: General 	<ul style="list-style-type: none"> Intervention: Mathematics (in schools) 		
Cho	2018	Include: experimental designs with control group	None specified	2008-2013	All	<ul style="list-style-type: none"> Learning: Second language 	<ul style="list-style-type: none"> Screen use: General (mobile phone for language learning) 		
Claussen	2022	Include: Longitudinal; Retrospective	None specified	2004-2018	All	<ul style="list-style-type: none"> Psychological health: ADHD symptoms (attention) 	<ul style="list-style-type: none"> Screen use: General 		
Clinton	2019	Include: randomised experimental designs	Exclude: Disabilities	2011-2016	All	<ul style="list-style-type: none"> Literacy: Reading performance 	<ul style="list-style-type: none"> Screen use: Reading (vs paper) 		
Comerma-Chueca	2021	include: randomized and non-randomized controlled trials (control group with no intervention or traditional exercise intervention)	Exclude: Disabilities, diseases or disorders; overweight or obese	2008-2019	All (5.5-11.6)	<ul style="list-style-type: none"> Body composition: BMI Body composition: BMI score Body composition: body fat percentage Body composition: body fat; body free mass Body composition: waist circumference 	<ul style="list-style-type: none"> Video games: Physically active 		
Comeras-Chueca	2021	Include: randomized and non-randomized controlled trials with control group with no intervention or traditional exercise intervention	Exclude: Participants with disabilities, diseases or disorders other than obesity	2010-2020	All (6.0-14.0)	<ul style="list-style-type: none"> Psychological health: depression Psychological health: maximum oxygen uptake Psychological health: physical health Psychological health: self-esteem Psychological health: social support 	<ul style="list-style-type: none"> Video games: Physically active 		
Coyne	2018	None	None specified	1975-2017	Children; Adolescents	<ul style="list-style-type: none"> Personality: General 	<ul style="list-style-type: none"> Screen use: Prosocial content 		
Cunningham	2021	Include: Quantitative designs	None specified	2014-2018	All (0.0-18.8)		<ul style="list-style-type: none"> Social Media: General (duration) 		
Cushing	2010	Include: All quantitative designs; Experimental	None specified	1989-2009	Children; Adolescents	<ul style="list-style-type: none"> Body composition: General 		<ul style="list-style-type: none"> Intervention: Health Behaviours 	
Darling	2017	Includes: Intervention	None specified	2006-2016	Children; Adolescents (0.0-18.0)	<ul style="list-style-type: none"> Psychological health: internalizing 		<ul style="list-style-type: none"> Intervention: To promote health (via mobile phone) 	
Firth	2022	Includes: experimental or observational	Exclude: Atypically developing	1978-2021	Children (0.5-11.0)	<ul style="list-style-type: none"> Risky behavior: sexual activity Risky behavior: sexual activity (negation of sex) 		<ul style="list-style-type: none"> Screen use: General 	
Feng	2021	Include: Quantitative designs	Include: Healthy children	2017-2019	Early childhood; Pre-school	<ul style="list-style-type: none"> Body composition: BMI score 	<ul style="list-style-type: none"> Screen use: General (meeting guidelines) 		
Ferguson	2017	None	None specified	2005-2017	Children; Adolescents	<ul style="list-style-type: none"> Risk behavior: sexual activity 	<ul style="list-style-type: none"> Screen use: Sexual content 		
Ferguson	2020	Include: Experimental; correlational; or longitudinal	None specified	2009-2013	All (7.8-17.5)		<ul style="list-style-type: none"> Video games: Violent content 		
Folkard	2018	Include: Interventions	None specified	2007-2018	Children; Adolescents	<ul style="list-style-type: none"> Literacy: Reading comprehension Literacy: vocabulary learning 	<ul style="list-style-type: none"> Advertising: Advergames 		
Furunes	2021	Include: experimental or quasi-experimental	Exclude: Cochlear implants or autism Autism	2002-2019	Early childhood; Pre-school; School-age Children (Early Primary; Elementary)	<ul style="list-style-type: none"> Learning: educational achievement problems Learning: school attendance problems 	<ul style="list-style-type: none"> eBooks: General 		
Gardella	2017	Include: Cross-sectional	None specified	2006-2014	Adolescents (12.5-16.7)	<ul style="list-style-type: none"> Learning: general Learning: school attendance problems 	<ul style="list-style-type: none"> Internet use: Cyberbullying; victimization 		
Garzon	2019	Include: Experimental with control group	None specified	N/A	All	<ul style="list-style-type: none"> Learning: General 	<ul style="list-style-type: none"> Intervention: Augmented reality (in schools) 		
Graham	2015	Include: Experimental; Quasi-experimental	None specified	2004-2011	School-age Children (Primary; Elementary; Middle School)	<ul style="list-style-type: none"> Literacy: Writing 	<ul style="list-style-type: none"> Intervention: Writing feedback 		
Hammersley	2016	Include: Randomised controlled trials	Exclude: Those with special needs; require a special diet; or have a condition that would limit physical activity	2003-2013	Children; Adolescents	<ul style="list-style-type: none"> Body composition 		<ul style="list-style-type: none"> Intervention: To promote healthy weight (obesity prevention) 	
Hao	2021	Include: Experimental with control group	Exclude: Disabilities	2012-2016	School-age Children	<ul style="list-style-type: none"> Literacy: reading fluency 		<ul style="list-style-type: none"> Intervention: English as a second language 	
Hossain-Saleh	2019	Include: Experimental; Quasi-experimental	None specified	2008-2016	Children; Adolescents	<ul style="list-style-type: none"> Literacy: pronunciation 		<ul style="list-style-type: none"> Intervention: Pronunciation 	
He	2021	Include: Randomised controlled trials	None specified	2009-2018	Children; Adolescents (9.0-16.0)	<ul style="list-style-type: none"> Physical activity: General 		<ul style="list-style-type: none"> Intervention: To promote physical activity (via mobile phone) 	
Hernandez-Jimenez	2019	Include: Experimental; Quasi-experimental	None specified	2009-2017	Children; Adolescents	<ul style="list-style-type: none"> Body composition 		<ul style="list-style-type: none"> Video games: Physically active 	
Hurwitz	2018	None	None specified	1997-2018	Children (Early Primary; Elementary)	<ul style="list-style-type: none"> Body composition: BMI Body composition: BMI score 		<ul style="list-style-type: none"> Intervention: Exercise videos 	
Ivie	2020	Include: Correlational studies	None specified	2012-2019	Adolescents (0.0-18.0)	<ul style="list-style-type: none"> Psychological health: depression 		<ul style="list-style-type: none"> Social media: General 	
Jensen	2020	Include: Experimental; Cross-sectional; Longitudinal	Include: Healthy children	2007-2019	Children	<ul style="list-style-type: none"> Sleep: duration 		<ul style="list-style-type: none"> Screen use: General 	
Kates	2018	None	None specified	2008-2016	School-age Children	<ul style="list-style-type: none"> Learning: General 		<ul style="list-style-type: none"> Screen use: Educational (mobile phone) 	
Kim	2021	Includes: experimental or quasi-experimental	None specified	2010-2018	School-age Children (Early Primary; Elementary)	<ul style="list-style-type: none"> Literacy: Numeracy Literacy: General Numeracy: General 		<ul style="list-style-type: none"> Screen use: Educational apps 	
Kroesbergen	2003	Include: Within subject design; between subject design	Include: Math difficulties	1985-1999	School-age Children (Primary; Elementary) (7.0-11.1)	<ul style="list-style-type: none"> Numeracy: General 		<ul style="list-style-type: none"> Intervention: Mathematics (via computer in classrooms) 	
Kucukkaran	2019	Includes: Experimental	Include: Dyscalculia	2004-2016	School-age Children (Primary; Elementary)	<ul style="list-style-type: none"> Numeracy: General 		<ul style="list-style-type: none"> Intervention: Mathematics 	
Li	2010	Include: Experimental; Quasi-experimental	None specified	1994-2005	School-age Children	<ul style="list-style-type: none"> Developmental: gross motor (motor) <ul style="list-style-type: none"> Developmental: fine motor (motor) Developmental: gross motor (motor) Developmental: fine motor (motor) 		<ul style="list-style-type: none"> Intervention: Mathematics 	
Li	2022	Includes: Randomised controlled trials	Include: Atypically developing	2012-2020	Children; Adolescents	<ul style="list-style-type: none"> Learning: General 		<ul style="list-style-type: none"> Intervention: Active video games for motor skills 	
Li	2022	Include: experimental or quasi-experimental	None specified	2014-2021	All	<ul style="list-style-type: none"> Learning: Computational thinking 		<ul style="list-style-type: none"> Computer use: Programming exercise 	
Liu	2008	Include: All quantitative designs	None specified	1990-2003	School-age Children (Primary; Elementary)	<ul style="list-style-type: none"> Learning: General 		<ul style="list-style-type: none"> Intervention: Education (computer) 	
Liu	2014	Include: Randomised controlled trials	None specified	1999-2012	Children; Adolescents	<ul style="list-style-type: none"> Body composition 		<ul style="list-style-type: none"> Intervention: General (mobile phone addiction) 	
Liu	2019	Includes: All quantitative designs	None specified	2007-2014	All	<ul style="list-style-type: none"> Cognition: Creativity 		<ul style="list-style-type: none"> Screen use: General 	
Liu	2022	Includes: studies with control group	None specified	N/A	All	<ul style="list-style-type: none"> Psychological health: negative coping style 		<ul style="list-style-type: none"> Screen use: General (mobile phone addiction) 	
Liu	2022	Includes: Cross-sectional only	Include: Healthy only	2000-2018	Adolescents	<ul style="list-style-type: none"> Psychological health: positive coping style 			
Major	2021	Include: Randomised controlled trials	None specified	2007-2020	Children; Adolescents	<ul style="list-style-type: none"> Learning: General 		<ul style="list-style-type: none"> Intervention: Literacy (calculators; in schools) 	
Mallawaarachchi	2022	Include: Cross-sectional or longitudinal	Include: Non-clinical	2014-2020	Early childhood; Pre-school (4.0-4.5)	<ul style="list-style-type: none"> Language or speech psychological factors psychosocial factors 			

Supplementary File 3 - Effect Characteristics

Description: Descriptive table for the included effects.

Effect Size Characteristics

Characteristics of included and excluded effect sizes

Variable	Effect Size Used	
	Not Used, N = 197¹	Used, N = 255¹
Review Year		
1982	0 (0%)	1 (0.4%)
1994	0 (0%)	3 (1.2%)
2002	0 (0%)	1 (0.4%)
2003	0 (0%)	1 (0.4%)
2004	4 (2.0%)	13 (5.1%)
2005	0 (0%)	4 (1.6%)
2008	0 (0%)	1 (0.4%)
2009	0 (0%)	2 (0.8%)
2010	0 (0%)	2 (0.8%)
2011	3 (1.5%)	3 (1.2%)
2012	1 (0.5%)	2 (0.8%)
2013	4 (2.0%)	12 (4.7%)
2014	1 (0.5%)	7 (2.7%)
2015	8 (4.1%)	16 (6.3%)
2016	16 (8.1%)	9 (3.5%)
2017	10 (5.1%)	8 (3.1%)
2018	6 (3.0%)	16 (6.3%)
2019	38 (19%)	50 (20%)
2020	25 (13%)	49 (19%)
2021	28 (14%)	24 (9.4%)
2022	53 (27%)	31 (12%)

¹ n (%); Median (IQR)

Effect Size Characteristics

Characteristics of included and excluded effect sizes

Variable	Effect Size Used	
	Not Used, N = 197¹	Used, N = 255¹
Outcome Category		
Education	41 (21%)	89 (35%)
Health Behaviour	55 (28%)	64 (25%)
Physical Health	62 (31%)	32 (13%)
Psychology	39 (20%)	69 (27%)
(missing)	0	1
Broad Outcome		
Aggression	0 (0%)	4 (1.6%)
Antisocial Behaviour	0 (0%)	3 (1.2%)
Body composition	45 (23%)	26 (10%)
Cardiometabolic health	4 (2.0%)	3 (1.2%)
Cognition	10 (5.1%)	21 (8.2%)
Developmental	0 (0%)	5 (2.0%)
Diet	17 (8.6%)	15 (5.9%)
Eye health	10 (5.1%)	0 (0%)
Healthy behavior	1 (0.5%)	4 (1.6%)
Learning	29 (15%)	44 (17%)
Literacy	10 (5.1%)	33 (13%)
Numeracy	2 (1.0%)	11 (4.3%)
Physical activity	18 (9.1%)	21 (8.2%)
Physical health	3 (1.5%)	1 (0.4%)
Prosocial Behavior	0 (0%)	3 (1.2%)

¹ n (%); Median (IQR)

Effect Size Characteristics

Characteristics of included and excluded effect sizes

Variable	Effect Size Used	
	Not Used, N = 197¹	Used, N = 255¹
Psychological health	23 (12%)	26 (10%)
Risky behavior	10 (5.1%)	7 (2.7%)
Science	0 (0%)	1 (0.4%)
Screen time	3 (1.5%)	4 (1.6%)
Self-perceptions	1 (0.5%)	2 (0.8%)
Sleep	11 (5.6%)	20 (7.8%)
Social interactions	0 (0%)	1 (0.4%)
Broad Exposure		
Advertising	14 (7.1%)	5 (2.0%)
Computer use	9 (4.6%)	11 (4.3%)
e-Books	0 (0%)	5 (2.0%)
Internet use	1 (0.5%)	7 (2.7%)
Screen use	77 (39%)	48 (19%)
Screen-based intervention	56 (28%)	92 (36%)
Social Media	6 (3.0%)	10 (3.9%)
TV advertising	1 (0.5%)	0 (0%)
TV programs and movies	10 (5.1%)	32 (13%)
Video games	23 (12%)	45 (18%)
Number of Contributing Studies		9 (5, 16)
(missing)	9	3
Pooled Sample Size		1,884 (665, 8,487) 2,053 (744, 5,990)
Age Group		

¹ n (%); Median (IQR)

Effect Size Characteristics

Characteristics of included and excluded effect sizes

Variable	Effect Size Used	
	Not Used, N = 197¹	Used, N = 255¹
Adolescents	21 (11%)	57 (22%)
Children	47 (24%)	76 (30%)
Mixed	114 (58%)	102 (40%)
Young children	15 (7.6%)	20 (7.8%)
Sample Type		
Atypically developing	1 (0.5%)	3 (1.2%)
Autism	6 (3.0%)	1 (0.4%)
Chronic disease	1 (0.5%)	4 (1.6%)
Dyscalculia	0 (0%)	1 (0.4%)
General	184 (93%)	231 (91%)
Math difficulties	1 (0.5%)	2 (0.8%)
Overweight and obese	4 (2.0%)	10 (3.9%)
Poor readers	0 (0%)	3 (1.2%)
Study Design		
Cross-sectional only	4 (2.0%)	16 (6.3%)
Experimental	108 (55%)	130 (51%)
Longitudinal only	8 (4.1%)	12 (4.7%)
Mixed or unspecified	48 (24%)	81 (32%)
Observational - mixed	29 (15%)	16 (6.3%)
Study-level Data Available	150 (76%)	188 (74%)
Meets Statistical Certainty Criteria		
Meets Criteria	8 (4.1%)	44 (17%)

¹ n (%); Median (IQR)

Effect Size Characteristics

Characteristics of included and excluded effect sizes

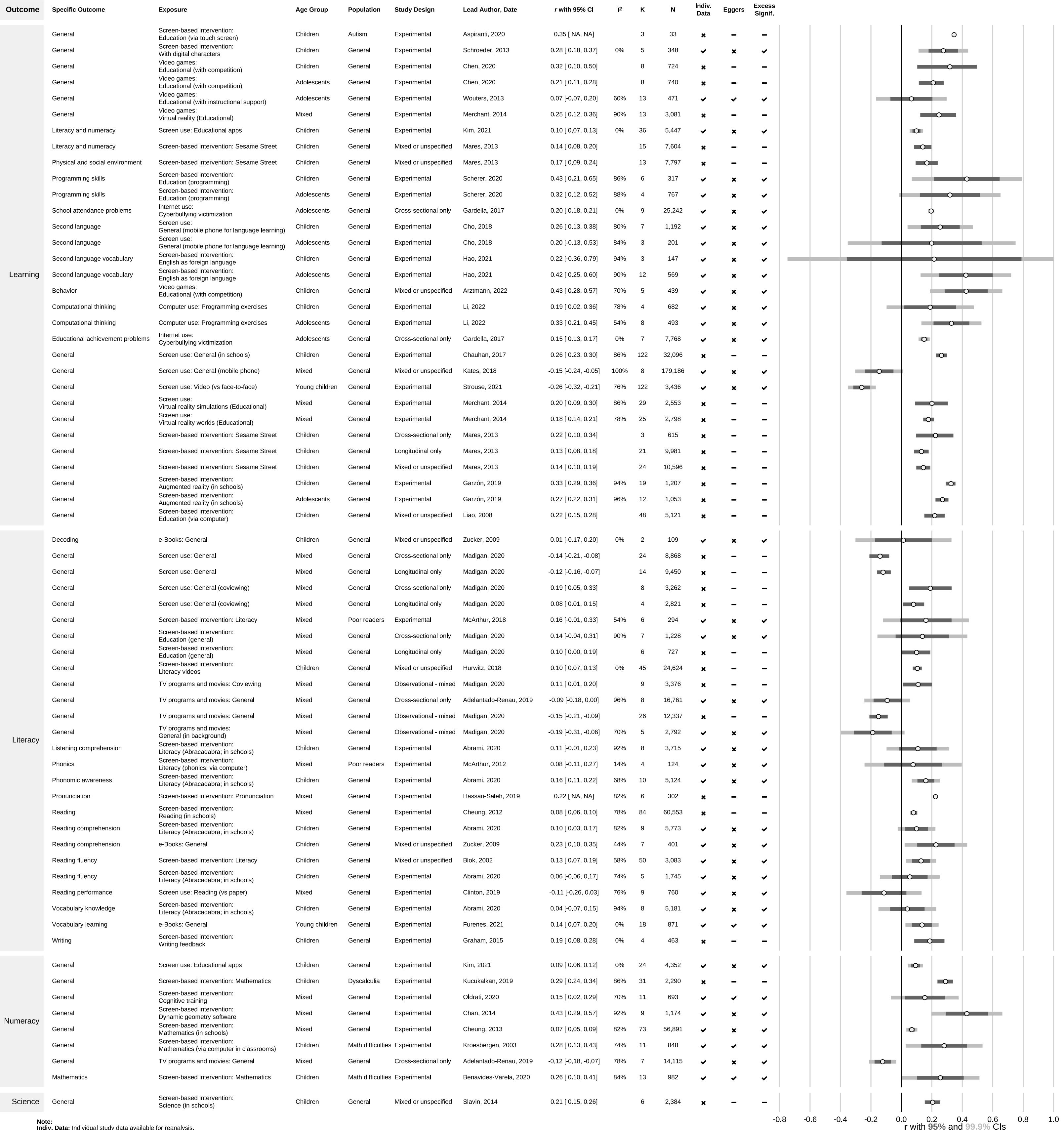
Variable	Effect Size Used	
	Not Used, N = 197 ¹	Used, N = 255 ¹
Unclear	189 (96%)	211 (83%)

¹ n (%); Median (IQR)

Supplementary File 4 - Education Outcomes

Description: Additional education outcomes which did not meet certainty criteria.

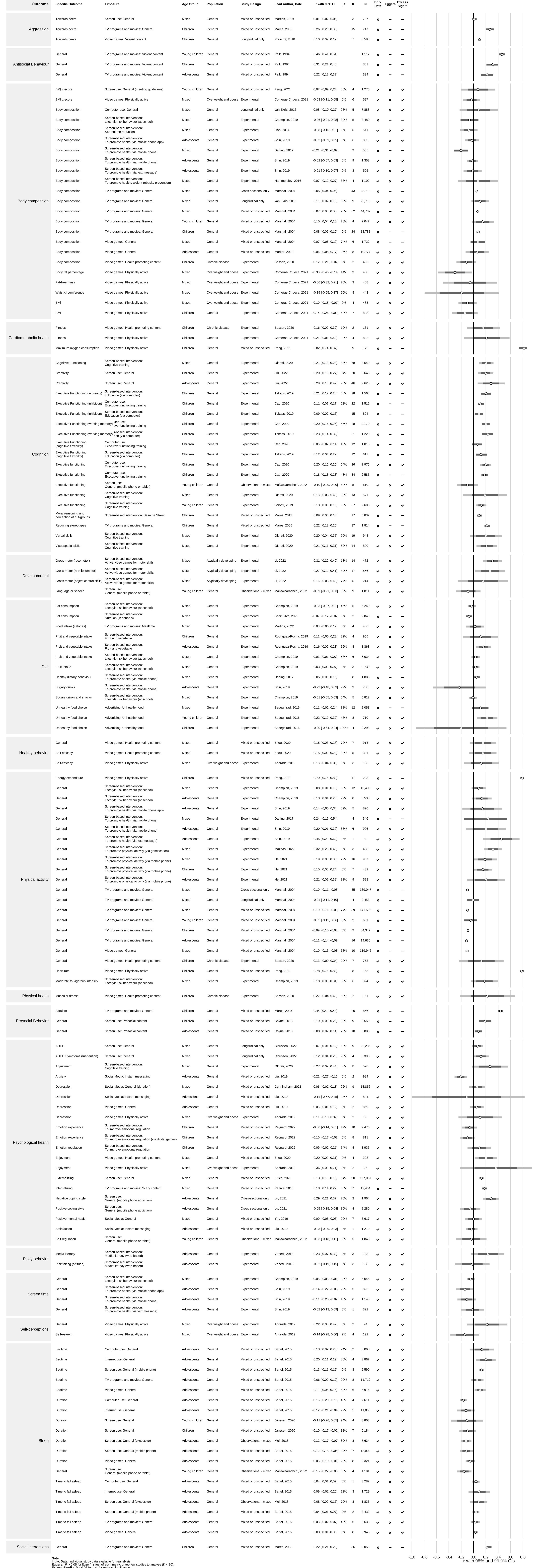
Associations Between Exposures and Education Outcomes



Supplementary File 5 - Health-related Outcomes

Description: Additional health-related outcomes which did not meet certainty criteria.

Associations Between Exposures and Health-related Outcomes



Supplementary File 7 - Search Strategy

Description: The search strategies used in each database

PubMed Search Strategy

((infant[MeSH Terms] OR child[MeSH Terms] OR minors[MeSH Terms] OR school age population[MeSH Terms] OR pediatrics[MeSH Terms] OR adolescen*[MeSH Terms]) **OR** (boy*[Title/Abstract] OR child*[Title/Abstract] OR girl*[Title/Abstract] OR kindergarten[Title/Abstract] OR paediatric[Title/Abstract] OR pediatric[Title/Abstract] OR infan* OR baby[Title/Abstract] OR babies[Title/Abstract] OR toddler*[Title/Abstract] OR "young child*" [Title/Abstract] OR "early childhood" [Title/Abstract] OR "early years" [Title/Abstract] OR pre-school*[Title/Abstract] OR preschool*[Title/Abstract] OR "pre school*" [Title/Abstract] OR "school age*" [Title/Abstract] OR school-age*[Title/Abstract] OR youth*[Title/Abstract] OR adolescen*[Title/Abstract] OR "young pe*" [Title/Abstract] OR teen*[Title/Abstract] OR preadolescen*[Title/Abstract])) **AND** ((television[MeSH Terms] OR computers[MeSH Terms] OR video games[MeSH Terms] OR sedentary lifestyle[MeSH Terms] OR smartphone[MeSH Terms] OR cell phones[MeSH Terms] OR computers, handheld[MeSH Terms]) **OR** (Television[Title/Abstract] OR TV[Title/Abstract] OR "Screen viewing" [Title/Abstract] OR "Screen time" [Title/Abstract] OR "Screen exposure" [Title/Abstract] OR Computer*[Title/Abstract] OR "Video gam*" [Title/Abstract] OR Sedentary[Title/Abstract] OR Inactivity[Title/Abstract] OR "E gam*" [Title/Abstract] OR e-gam*[Title/Abstract] OR Tablet*[Title/Abstract] OR "Cell phone*" [Title/Abstract] OR "Mobile Phone*" [Title/Abstract] OR "Mobile us*" [Title/Abstract] OR "Media time" [Title/Abstract] OR "Media us*" [Title/Abstract] OR "handheld device*" [Title/Abstract] OR "game device*" [Title/Abstract] OR "gaming device*" [Title/Abstract] OR "game console*" [Title/Abstract] OR "gaming console*" [Title/Abstract] OR "electronic media" [Title/Abstract] OR smartphone*[Title/Abstract] OR "smart phone*" [Title/Abstract])) **AND** ((Review[Title] OR meta-analysis[Title] OR meta-regression[Title] OR synthesis [Title] OR meta-synthesis[Title] OR "meta analysis" [Title] OR "meta regression" [Title] OR "meta synthesis" [Title]) **OR** (Review[Publication Type] OR Meta-Analysis[Publication Type])))

Version 1= Above

Version 2 = delete terms following final "AND", limit results "Review" after search

MEDLINE Search Strategy

(MH ("child" OR "minors" OR Infant OR "school age population" OR "pediatrics" OR "Adolescen*") **OR** TI (boy* OR girl* OR kindergarten OR paediatric OR pediatric OR infan* OR baby OR babies OR toddler* OR "young child*" OR child* OR "early childhood" OR "early years" OR pre-school* OR preschool* OR "pre school*" OR "school age*" OR school-age* OR adolescen* OR youth* OR "young pe*" OR teen* OR preadolescen*) **OR** AB (boy* OR girl* OR kindergarten OR paediatric OR pediatric OR infan* OR baby OR babies OR toddler* OR "young child*" OR child* OR "early childhood" OR "early years" OR pre-school* OR preschool* OR "pre school*" OR "school age*" OR school-age* OR adolescen* OR youth* OR "young pe*" OR teen* OR preadolescen*)) **AND** (MH ("television" OR "computers" OR "video games" OR "sedentary lifestyle" OR "smartphone" OR "cell phones" OR "computers, handheld") **OR** TI (Television OR TV OR "Screen viewing" OR Screen time OR Screen exposure OR Computer* OR Video gam* OR

Sedentary OR Inactivity OR "E gam*" OR e-gam* OR Tablet* OR "Cell phone*" OR "Mobile Phone*" OR "Mobile us**" OR "Media time" OR "Media us**" OR "handheld device**" OR "game device**" OR "gaming device**" OR "game console**" OR "gaming console**" OR "electronic media" OR smartphone* OR "smart phone**") **OR AB** (Television OR TV OR "Screen viewing" OR Screen time OR Screen exposure OR Computer* OR Video gam* OR Sedentary OR Inactivity OR "E gam*" OR e-gam* OR Tablet* OR "Cell phone*" OR "Mobile Phone*" OR "Mobile us**" OR "Media time" OR "Media us**" OR "handheld device**" OR "game device**" OR "gaming device**" OR "game console**" OR "gaming console**" OR "electronic media" OR smartphone* OR "smart phone**")) **AND** (TI (Review OR meta-analysis OR "meta analysis" OR meta-regression OR "meta regression" OR synthesis OR meta-synthesis OR "meta synthesis"))

Version 1 = above

Version 2 = delete terms following final "AND". Restrict results to review articles.

CINAHL Search Strategy

((MH ("child" OR "Minors (Legal)" OR "pediatrics" OR "Infant")) **OR** TI ("boy*" OR "child*" OR "girl*" OR "kindergarten" OR "paediatric" OR "pediatric" OR "infan*" OR "baby" OR "babies" OR "toddler*" OR "young child**" OR "early childhood" OR "early years" OR "pre-school**" OR "preschool*" OR "pre school*" OR "school age**" OR "school-age**" OR "adolescen**" OR "youth*" OR "young pe*" OR teen* OR "preadolescen**") **OR AB** ("boy*" OR "child*" OR "girl*" OR "kindergarten" OR "paediatric" OR "pediatric" OR "infan*" OR "baby" OR "babies" OR "toddler*" OR "young child**" OR "early childhood" OR "early years" OR "pre-school**" OR "preschool*" OR "pre school*" OR "school age**" OR "school-age**" OR "adolescen**" OR "youth*" OR "young pe*" OR teen* OR "preadolescen**")) **AND** (MH ("television" OR "computers" OR "video games" OR "lifestyle, sedentary" OR "smartphone" OR "cellular phone" OR "computers, hand-held") **OR** TI ("Television" OR "TV" OR "Screen viewing" OR "Screen time" OR "Screen exposure" OR "Computer*" OR "Video gam*" OR "Sedentary" OR "Inactivity" OR "E gam*" OR "e-gam*" OR "Tablet**" OR "Cell phone*" OR "Mobile Phone*" OR "Mobile us*" OR "Media time" OR "Media us*" OR "handheld device**" OR "game device**" OR "gaming device**" OR "game console**" OR "gaming console**" OR "electronic media" OR "smartphone**" OR "smart phone**") **OR AB** ("Television" OR "TV" OR "Screen viewing" OR "Screen time" OR "Screen exposure" OR "Computer**" OR "Video gam*" OR "Sedentary" OR "Inactivity" OR "E gam*" OR "e-gam**" OR "Tablet**" OR "Cell phone**" OR "Mobile Phone**" OR "Mobile us**" OR "Media time" OR "Media us**" OR "handheld device**" OR "game device**" OR "gaming device**" OR "game console**" OR "gaming console**" OR "electronic media" OR "smartphone**" OR "smart phone**")) **AND** (TI("Review" OR "meta-analysis" OR "meta analysis" OR "meta-regression" OR "meta regression" OR "synthesis" OR "meta-synthesis" OR "meta synthesis"))

PsycINFO Search Strategy

((MA("pediatrics")) **OR** (TI (boy* OR girl* OR kindergarten OR paediatric OR pediatric OR infan* OR baby OR babies OR toddler* OR "young child**" OR child* OR "early childhood" OR "early years" OR

pre-school* OR preschool* OR pre school* OR school age* OR school-age* OR adolescen* OR youth* OR young pe* OR teen* OR preadolescen*)) **OR** (AB (boy* OR girl* OR kindergarten OR paediatric OR pediatric OR infan* OR baby OR babies OR toddler* OR "young child**" OR child* OR "early childhood" OR "early years" OR pre-school* OR preschool* OR pre school* OR school age* OR school-age* OR adolescen* OR youth* OR young pe* OR teen* OR preadolescen*)) **OR** (KW (boy* OR OR girl* OR kindergarten OR paediatric OR pediatric OR infan* OR baby OR babies OR toddler* OR "young child**" OR child* OR "early childhood" OR "early years" OR pre-school* OR preschool* OR pre school* OR school age* OR school-age* OR adolescen* OR youth* OR young pe* OR teen* OR preadolescen*)) **AND** ((MA("Television" OR "Television Viewing" OR "Screen Time" OR "Mobile Devices" OR "Sedentary behavior" OR "computers" OR "computer games" OR "cellular phones")) **OR** (TI(Television OR TV OR Screen viewing OR Screen time OR Screen exposure OR Computer* OR Video gam* OR Sedentary OR Inactivity OR E gam* OR e-gam* OR Tablet* OR Cell phone* OR Mobile Phone* OR Mobile us* OR Media time OR Media us* OR handheld device* OR game device* OR gaming device* OR game console* OR gaming console* OR electronic media OR smartphone* OR smart phone*)) **OR** (AB(Television OR TV OR Screen viewing OR Screen time OR Screen exposure OR Computer* OR Video gam* OR Sedentary OR Inactivity OR E gam* OR e-gam* OR Tablet* OR Cell phone* OR Mobile Phone* OR Mobile us* OR Media time OR Media us* OR handheld device* OR game device* OR gaming device* OR game console* OR gaming console* OR electronic media OR smartphone* OR smart phone*)) **OR** (KW(Television OR TV OR Screen viewing OR Screen time OR Screen exposure OR Computer* OR Video gam* OR Sedentary OR Inactivity OR E gam* OR e-gam* OR Tablet* OR Cell phone* OR Mobile Phone* OR Mobile us* OR Media time OR Media us* OR handheld device* OR game device* OR gaming device* OR game console* OR gaming console* OR electronic media OR smartphone* OR smart phone*)) **AND** (TI(Review OR systematic review OR meta-analysis OR meta-regression OR synthesis OR meta-synthesis OR "meta analysis" OR "meta regression" OR "meta synthesis")))

SPORTDiscus search strategy

((SU ("infant" OR "children" OR "school children" OR "pediatrics" OR "youth" OR "teenagers**"))**OR** (TI (boy* OR girl* OR kindergarten OR paediatric OR pediatric OR infan* OR baby OR babies OR toddler* OR "young child**" OR child* OR "early childhood" OR "early years" OR pre-school* OR preschool* OR pre school* OR school age* OR school-age* OR adolescen* OR youth* OR young pe* OR teen* OR preadolescen*)) **OR** (AB (boy* OR girl* OR kindergarten OR paediatric OR pediatric OR infan* OR baby OR babies OR toddler* OR "young child**" OR child* OR "early childhood" OR "early years" OR pre-school* OR preschool* OR pre school* OR school age* OR school-age* OR adolescen* OR youth* OR young pe* OR teen* OR preadolescen*)) **OR** (KW (boy* OR girl* OR kindergarten OR paediatric OR pediatric OR infan* OR baby OR babies OR toddler* OR "young child**" OR child* OR "early childhood" OR "early years" OR pre-school* OR preschool* OR pre school* OR school age* OR school-age* OR adolescen* OR youth* OR young pe* OR teen* OR preadolescen*)) **AND** ((SU ("Video games" OR "SEDENTARY behavior in children" OR "SEDENTARY lifestyles" OR "COMPUTER games")) **OR** (TI (Television OR TV OR Screen viewing OR Screen time OR Screen exposure OR Computer* OR Video gam* OR Sedentary OR Inactivity OR E gam* OR e-gam* OR Tablet* OR Cell phone* OR Mobile Phone* OR Mobile us* OR Media time OR Media us* OR handheld device* OR game device* OR gaming device* OR

game console* OR gaming console* OR electronic media OR smartphone* OR smart phone*)) **OR** (AB (Television OR TV OR Screen viewing OR Screen time OR Screen exposure OR Computer* OR Video gam* OR Sedentary OR Inactivity OR E gam* OR e-gam* OR Tablet* OR Cell phone* OR Mobile Phone* OR Mobile us* OR Media time OR Media us* OR handheld device* OR game device* OR gaming device* OR game console* OR gaming console* OR electronic media OR smartphone* OR smart phone*)) **OR** (KW (Television OR TV OR Screen viewing OR Screen time OR Screen exposure OR Computer* OR Video gam* OR Sedentary OR Inactivity OR E gam* OR e-gam* OR Tablet* OR Cell phone* OR Mobile Phone* OR Mobile us* OR Media time OR Media us* OR handheld device* OR game device* OR gaming device* OR game console* OR gaming console* OR electronic media OR smartphone* OR smart phone*)) **AND** (TI(Review OR Systematic review OR meta-analysis OR meta-regression OR synthesis OR meta-synthesis OR meta analysis OR meta regression OR meta synthesis))

Education Source Search Strategy

((SU (Children OR Youth OR adolescence)) **OR** (TI (boy* OR child* OR girl* OR kindergarten OR paediatric OR pediatric OR infan* OR baby OR babies OR toddler* OR "young child*" OR child* OR "early childhood" OR "early years" OR pre-school* OR preschool* OR "pre school*" OR "school age*" OR "school-age*" OR adolescen* OR youth* OR "young pe*" OR teen* OR preadolescen*))) **OR** (AB (boy* OR child* OR girl* OR kindergarten OR paediatric OR pediatric OR infan* OR baby OR babies OR toddler* OR "young child*" OR child* OR "early childhood" OR "early years" OR pre-school* OR preschool* OR "pre school*" OR "school age*" OR "school-age*" OR adolescen* OR youth* OR "young pe*" OR teen* OR preadolescen*))) **OR** (KW (boy* OR child* OR girl* OR kindergarten OR paediatric OR pediatric OR infan* OR baby OR babies OR toddler* OR "young child*" OR child* OR "early childhood" OR "early years" OR pre-school* OR preschool* OR "pre school*" OR "school age*" OR "school-age*" OR adolescen* OR youth* OR "young pe*" OR teen* OR preadolescen*))) **AND** ((SU (computers OR video games)) **OR** (TI (Television OR TV OR "Screen viewing" OR "Screen time" OR "Screen exposure" OR Computer* OR "Video gam*" OR Sedentary OR Inactivity OR "E gam*" OR "e-gam*" OR Tablet* OR "Cell phone*" OR "Mobile Phone*" OR "Mobile us*" OR "Media time" OR "Media us*" OR "handheld device*" OR "game device*" OR "gaming device*" OR "game console*" OR "electronic media" OR smartphone* OR "smart phone*")) **OR** (AB (Television OR TV OR "Screen viewing" OR "Screen time" OR "Screen exposure" OR Computer* OR "Video gam*" OR Sedentary OR Inactivity OR "E gam*" OR "e-gam*" OR Tablet* OR "Cell phone*" OR "Mobile Phone*" OR "Mobile us*" OR "Media time" OR "Media us*" OR "handheld device*" OR "game device*" OR "gaming device*" OR "game console*" OR "electronic media" OR smartphone* OR "smart phone*")) **OR** (KW (Television OR TV OR "Screen viewing" OR "Screen time" OR "Screen exposure" OR Computer* OR "Video gam*" OR Sedentary OR Inactivity OR "E gam*" OR "e-gam*" OR Tablet* OR "Cell phone*" OR "Mobile Phone*" OR "Mobile us*" OR "Media time" OR "Media us*" OR "handheld device*" OR "game device*" OR "gaming device*" OR "game console*" OR "electronic media" OR smartphone* OR "smart phone*"))) **AND** (TI(Review OR "meta-analysis" OR "meta analysis" OR "meta-regression" OR "meta regression" OR synthesis OR "meta-synthesis" OR "meta synthesis"))

Version 1= as above

Version 2 = delete terms following final "AND", limit results "Review" after search

Embase Search Strategy

(child or pediatrics or adolescent or "minor (person)").sh. **OR** (boy* or girl* or kindergarten or paediatric or pediatric or infan* or baby or babies or toddler* or young child* or child or early childhood or early

years or pre-school* or preschool* or pre school* or school age* or school-age* or adolescen* or youth* or young pe* or teen* or preadolescen*).ti,ab,kw.

AND

(television or computer or video game or sedentary lifestyle or smartphone or mobile phone or television viewing).sh. **OR** (Television or TV or Screen viewing or Screen time or Screen exposure or Computer* or Video gam* or Sedentary or Inactivity or E gam* or e-gam* or Tablet* or Cell phone* or Mobile Phone* or Mobile us* or Media time or Media us* or handheld device* or game device* or gaming device* or game console* or gaming console* or electronic media or smartphone* or smart phone*).ti,ab,kw.

AND

(Review or meta?analysis or meta?regression or synthesis or meta?synthesis).ti. **OR** (review).pt.

Note: Run each block of searches separately and then combine with AND afterwards. A single, combined search generates an error message.

Cochrane Search Strategy

((minor* OR "school age population" OR boy* OR child* OR girl* OR kindergarten OR paediatric OR pediatric OR infan* OR baby OR babies OR "young child*" OR "early childhood" OR "early years" OR pre-school* OR preschool* OR pre school* OR school age* OR school-age* OR toddler* OR adolescen* OR youth* OR young pe* OR teen* OR preadolescen*):ti,ab,kw **OR** MESH(child OR minors OR school age population OR pediatrics OR adolescent)) **AND** ((television OR computers OR "video games" OR "sedentary lifestyle" OR smartphone OR "cell phones" OR TV OR "Screen viewing" OR "Screen time" OR "Screen exposure" OR Computer* OR "Video gam*" OR "Sedentary" OR Inactivity OR "E gam*" OR e-gam* OR Tablet* OR "Cell phone*" OR "Mobile Phone*" OR "Mobile us*" OR "Media time" OR "Media us*" OR "handheld device*" OR "game device*" OR "gaming device*" OR "game console*" OR "gaming console*" OR "electronic media" OR smartphone* OR "smart phone*"):ti,ab,kw **OR** MESH (television OR computers OR video games OR sedentary lifestyle OR smartphone OR cell phones OR computers, handheld)) **AND** ((Review OR "meta analysis" OR "meta regression" OR synthesis OR "meta synthesis"):ti)

Version 1: as above

Version 2: Delete terms after final 'AND' and restrict results to reviews using Cochrane's tagging of studies.

Scopus Search Strategy

Version 1:

(TITLE-ABS-KEY(minor* OR "school age population" OR boy* OR girl* OR kindergarten OR paediatric OR pediatric OR infan* OR baby OR babies OR toddler* OR "young child*" OR child* OR "early childhood" OR "early years" OR pre-school* OR preschool* OR pre school* OR school age* OR "school-age*" OR adolescen* OR youth* OR "young pe*" OR teen* OR preadolescen*)) **AND** (TITLE-ABS-KEY(television OR computers OR "video games" OR "sedentary lifestyle" OR smartphone OR "cell phones" OR TV OR "Screen viewing" OR "Screen time" OR "Screen exposure" OR Computer* OR "Video gam*" OR "Sedentary" OR Inactivity OR "E gam*" OR e-gam* OR Tablet* OR "Cell phone*" OR "Mobile Phone*" OR "Mobile us*" OR "Media time" OR "Media us*" OR "handheld device*" OR "game device*" OR "gaming device*" OR "game console*" OR "gaming console*" OR "electronic media" OR smartphone* OR "smart phone*")) **AND** (TITLE(Review OR "meta analysis" OR "meta-analysis" OR "meta-regression" OR "meta regression" OR synthesis OR "meta synthesis" OR "meta-synthesis"))

Version 2:

(TITLE-ABS-KEY (minor* OR "school age population" OR boy* OR girl* OR kindergarten OR paediatric OR pediatric OR infan* OR baby OR babies OR toddler* OR "young child*" OR child* OR "early childhood" OR "early years" OR pre-school* OR preschool* OR pre AND school* OR school AND age* OR "school-age*" OR adolescen* OR youth* OR "young pe*" OR teen* OR preadolescen*)) **AND** (TITLE-ABS-KEY (television OR computers OR "video games" OR "sedentary lifestyle" OR smartphone OR "cell phones" OR tv OR "Screen viewing" OR "Screen time" OR "Screen exposure" OR computer* OR "Video gam*" OR "Sedentary" OR inactivity OR "E gam*" OR e-gam* OR tablet* OR "Cell phone*" OR "Mobile Phone*" OR "Mobile us*" OR "Media time" OR "Media us*" OR "handheld device*" OR "game device*" OR "gaming device*" OR "game console*" OR "gaming console*" OR "electronic media" OR smartphone* OR "smart phone*")) **AND** (LIMIT-TO (DOCTYPE , "re"))

Web of Science Search Strategy

(TS= ("boy*" OR "girl*" OR "kindergarten" OR "paediatric" OR "pediatric" OR "infan*" OR "baby" OR "babies" OR "toddler*" OR "young child*" OR "child*" OR "early childhood" OR "early years" OR "pre-school*" OR "preschool*" OR "pre school*" OR "school age*" OR "school-age*" OR "adolescen*" OR "youth*" OR "young pe*" OR "teen*" OR "pre#adolescen*") **AND** (TS= ("Television" OR "TV" OR "Screen viewing" OR "Screen time" OR "Screen exposure" OR "Computer*" OR "Video gam*" OR "Sedentary" OR "Inactivity" OR "E gam*" OR "e-gam*" OR "Tablet*" OR "Cell phone*" OR "Mobile Phone*" OR "Mobile us*" OR "Media time" OR "Media us*" OR "handheld device*" OR "game device*" OR "gaming device*" OR "game console*" OR "gaming console*" OR "electronic media" OR "smartphone*" OR "smart phone*")) **AND** (TI= ("Review" OR "systematic review" OR "meta-analysis" OR "meta analysis" OR "meta-regression" OR "meta-regression" OR "synthesis" OR "meta-synthesis" OR "meta synthesis"))

ProQuest Social Science Premium Collection Search Strategy

((su(Children OR babies OR boys OR girls OR preschool children OR teenagers OR adolescents OR pediatrics)) **OR** (ab(boy* OR child* OR girl* OR kindergarten OR paediatric OR pediatric OR infan* OR baby OR babies OR toddler* OR young child* OR early childhood OR early years OR pre-school* OR preschool* OR school age* OR school-age* OR adolescen* OR youth* OR young pe* OR teen* OR pre-adolescen*)) **OR** (ti(boy* OR child* OR girl* OR kindergarten OR paediatric OR pediatric OR infan* OR baby OR babies OR toddler* OR young child* OR early childhood OR early years OR pre-school* OR preschool* OR school age* OR school-age* OR adolescen* OR youth* OR young pe* OR teen* OR pre-adolescen*))) **AND** ((SU(television OR computers OR video games OR mobile phone)) **OR** (ab(Television OR TV OR Screen viewing OR Screen time OR Screen exposure OR Computer* OR Video gam* OR Sedentary OR Inactivity OR E gam* OR e-gam* OR Tablet* OR Cell phone* OR Mobile Phone* OR Mobile us* OR Media time OR Media us* OR handheld device* OR game device* OR gaming device* OR game console* OR gaming console* OR electronic media OR smartphone* OR smart phone*)) **OR** (ti(Television OR TV OR Screen viewing OR Screen time OR Screen exposure OR Computer* OR Video gam* OR Sedentary OR Inactivity OR E gam* OR e-gam* OR Tablet* OR Cell phone* OR Mobile Phone* OR Mobile us* OR Media time OR Media us* OR handheld device* OR game device* OR gaming device* OR game console* OR gaming console* OR electronic media OR smartphone* OR smart phone*))) **AND** (TI(review OR meta-analysis OR meta-regression OR synthesis OR meta-synthesis OR meta analysis OR meta regression OR meta synthesis))

ERIC Search Strategy

((SU(child) OR SU(youth) OR SU(minor) OR SU(adolescent) OR SU(school) OR SU(pediatrics)) **OR** (AB, TI(minor*) OR AB, TI("school age population") OR AB, TI(boy*) OR AB, TI(child*) OR AB, TI(girl*) OR AB, TI(kindergarten) OR AB, TI(paediatric) OR AB, TI(pediatric) OR AB, TI(infan*) OR AB, TI(baby) OR AB, TI(babies) OR AB, TI(toddler*) OR AB, TI("young child*") OR AB, TI("early childhood") OR AB, TI("early years") OR AB, TI(pre-school*) OR AB, TI(preschool*) OR AB, TI("pre school*") OR AB, TI("school age*") OR AB, TI(school-age*) OR AB, TI(adolescen*) OR AB, TI(youth*) OR AB, TI("young pe*") OR AB, TI(teen*) OR AB, TI(preadolescen*))) **AND** ((SU(television) OR SU(computers) OR SU(video games) OR SU(sedentary lifestyle) OR SU(cell phone) OR SU(mobile phone)) **OR** (AB, TI(television) OR AB, TI(computers) OR AB, TI("video games") OR AB, TI("sedentary lifestyle") OR AB, TI(smartphone) OR AB, TI("cell phones") OR AB, TI(TV) OR AB, TI("Screen viewing") OR AB, TI("Screen time") OR AB, TI("Screen exposure") OR AB, TI(Computer*) OR AB, TI("Video gam*") OR AB, TI("Sedentary") OR AB, TI(Inactivity) OR AB, TI("E gam*") OR AB, TI(e-gam*) OR AB, TI(Tablet*) OR AB, TI("Cell phone*") OR AB, TI("Mobile Phone*") OR AB, TI("Mobile us*") OR AB, TI("Media time") OR AB, TI("Media us*") OR AB, TI("handheld device*") OR AB, TI("game device*") OR AB, TI("gaming device*") OR AB, TI("game console*") OR AB, TI("gaming console*") OR AB, TI("electronic media") OR AB, TI(smartphone*) OR AB, TI("smart phone*"))) **AND**

(TI(Review) OR TI("meta analysis") OR TI("meta regression") OR TI(synthesis) OR TI("meta synthesis") OR
TI("meta-analysis") OR TI("meta-regression") OR TI("meta-synthesis"))

Supplementary File 9 - Included Studies

Description: References for the included studies.

Included Studies

1. Abrami, P., Borohkovski, E. & Lysenko, L. The effects of ABRACADABRA on reading outcomes: A meta-analysis of applied field research. *Journal of Interactive Learning Research* **26**, 337–367 (2015).
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Supplementary File 10 - Effect Size Codebook

Description: Generated codebook for the dataset.

Codebook for the Complete Effects Data

Autogenerated data summary from dataReporter

2023-06-20 15:41:36.376853

Data report overview

The dataset examined has the following dimensions:

Feature	Result
Number of observations	452
Number of variables	32

Variable list

author_year

First author and publication year of meta-analysis.

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	134
Mode	“Oh, 2022”

outcome_category

Category the outcome belongs to.

Feature	Result
Variable type	character
Number of missing obs.	1 (0.22 %)
Number of unique values	4
Mode	“education”

plain_language_outcome

Specific outcome for the effect.

Feature	Result
Variable type	character

Feature	Result
Number of missing obs.	0 (0 %)
Number of unique values	140
Mode	"Learning: General"

plain_language_exposure

Specific exposure for the effect.

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	93
Mode	"Screen use: General"

age_group

Broad age group of the participants, if specified.

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	4
Mode	"Mixed"

original_effect_size_metric

Type of effect size original_effect_size refers to.

Feature	Result
Variable type	character
Number of missing obs.	6 (1.33 %)
Number of unique values	7
Mode	"d"

original_effect_size

Effect size reported in the original meta-analysis.

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)

Feature	Result
Number of unique values	286
Median	0.22
1st and 3rd quartiles	0.01; 0.68
Min. and max.	-788.59; 1185

original_cilb

Lower bound for the 95% confidence interval of the reported effect size.

Feature	Result
Variable type	numeric
Number of missing obs.	19 (4.2 %)
Number of unique values	265
Median	0.06
1st and 3rd quartiles	-0.15; 0.35
Min. and max.	-2146.87; 303

original_ciub

Upper bound for the 95% confidence interval of the reported effect size.

Feature	Result
Variable type	numeric
Number of missing obs.	19 (4.2 %)
Number of unique values	290
Median	0.44
1st and 3rd quartiles	0.12; 1.2
Min. and max.	-5.68; 2068

original_k

Number of studies reported as contributing to the reported effect size.

Feature	Result
Variable type	numeric
Number of missing obs.	14 (3.1 %)
Number of unique values	52
Median	7
1st and 3rd quartiles	4; 12.75
Min. and max.	1; 274

original_n

Number of participants reported as contributing to the reported effect size.

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	422
Median	1857.5
1st and 3rd quartiles	643.75; 7388.5
Min. and max.	3; 527696

original_i2

Reported heterogeneity (as I-Squared) for the reported effect size.

Feature	Result
Variable type	numeric
Number of missing obs.	157 (34.73 %)
Number of unique values	198
Median	67.75
1st and 3rd quartiles	24.7; 82.9
Min. and max.	0; 99.8

converted_r

Effect size as converted to Pearson's r (where possible).

Feature	Result
Variable type	numeric
Number of missing obs.	197 (43.58 %)
Number of unique values	179
Median	0.1
1st and 3rd quartiles	-0.02; 0.2
Min. and max.	-0.26; 0.82

converted_cilb

Lower bound for the 95% confidence interval of the converted effect size.

Feature	Result
Variable type	numeric
Number of missing obs.	206 (45.58 %)
Number of unique values	181
Median	0.02
1st and 3rd quartiles	-0.11; 0.09

Feature	Result
Min. and max.	-0.54; 0.76

converted_ciub

Upper bound for the 95% confidence interval of the converted effect size.

Feature	Result
Variable type	numeric
Number of missing obs.	206 (45.58 %)
Number of unique values	196
Median	0.19
1st and 3rd quartiles	0.06; 0.3
Min. and max.	-0.2; 0.87

reanalysis_estimate

Effect size from the reanalysis of the study-level data (where possible).

Feature	Result
Variable type	numeric
Number of missing obs.	204 (45.13 %)
Number of unique values	244
Median	0.08
1st and 3rd quartiles	-0.04; 0.18
Min. and max.	-0.47; 0.61

reanalysis_cilb

Lower bound for the 95% confidence interval of the reanalysed effect size.

Feature	Result
Variable type	numeric
Number of missing obs.	204 (45.13 %)
Number of unique values	244
Median	-0.01
1st and 3rd quartiles	-0.16; 0.07
Min. and max.	-0.67; 0.45

reanalysis_ciub

Upper bound for the 95% confidence interval of the reanalysed effect size.

Feature	Result
Variable type	numeric
Number of missing obs.	204 (45.13 %)
Number of unique values	244
Median	0.16
1st and 3rd quartiles	0.05; 0.29
Min. and max.	-0.35; 0.79

reanalysis_cilb999

Lower bound for the 99.9% confidence interval of the reanalysed effect size.

Feature	Result
Variable type	numeric
Number of missing obs.	204 (45.13 %)
Number of unique values	244
Median	-0.1
1st and 3rd quartiles	-0.22; 0.02
Min. and max.	-1; 0.35

reanalysis_ciub999

Upper bound for the 99.9% confidence interval of the reanalysed effect size.

Feature	Result
Variable type	numeric
Number of missing obs.	204 (45.13 %)
Number of unique values	244
Median	0.22
1st and 3rd quartiles	0.1; 0.39
Min. and max.	-0.27; 1

reanalysis_k

Number of studies contributing to the reanalysed effect size.

Feature	Result
Variable type	integer
Number of missing obs.	204 (45.13 %)
Number of unique values	48
Median	7
1st and 3rd quartiles	4; 13

Feature	Result
Min. and max.	1; 122

reanalysis_n

Number of participants contributing to the reanalysed effect size.

Feature	Result
Variable type	numeric
Number of missing obs.	204 (45.13 %)
Number of unique values	234
Median	1842
1st and 3rd quartiles	690.25; 5658.75
Min. and max.	26; 527696

reanalysis_i2

Heterogeneity (as I-Squared) for the reanalysed effect size.

Feature	Result
Variable type	numeric
Number of missing obs.	204 (45.13 %)
Number of unique values	199
Median	74.4
1st and 3rd quartiles	27.49; 88.44
Min. and max.	0; 99.51

reanalysis_eggers_p

P-value for the Egger's test for publication bias.

Feature	Result
Variable type	numeric
Number of missing obs.	365 (80.75 %)
Number of unique values	86
Median	0.23
1st and 3rd quartiles	0.03; 0.5
Min. and max.	0; 0.98

reanalysis_eggers_cilb

Lower bound for the 95% confidence interval for the Egger's test for publication bias.

Feature	Result
Variable type	numeric
Number of missing obs.	365 (80.75 %)
Number of unique values	86
Median	-0.04
1st and 3rd quartiles	-0.19; 0.11
Min. and max.	-2.05; 0.65

reanalysis_eggers_ciub

Upper bound for the 95% confidence interval for the Egger's test for publication bias.

Feature	Result
Variable type	numeric
Number of missing obs.	365 (80.75 %)
Number of unique values	86
Median	0.29
1st and 3rd quartiles	0.11; 0.64
Min. and max.	-0.96; 1.56

reanalysis_tes_obsr

Number of observed significant tests (from Test of Excess Significance).

Feature	Result
Variable type	integer
Number of missing obs.	204 (45.13 %)
Number of unique values	32
Median	3
1st and 3rd quartiles	1; 6
Min. and max.	0; 110

reanalysis_tes_expect

Number of expected significant tests (from Test of Excess Significance).

Feature	Result
Variable type	numeric
Number of missing obs.	204 (45.13 %)
Number of unique values	244
Median	3.21
1st and 3rd quartiles	1.63; 6.78

Feature	Result
Min. and max.	0.05; 108.26

reanalysis_tes_ratio

Ratio of observed to expected significant tests (from Test of Excess Significance).

Feature	Result
Variable type	numeric
Number of missing obs.	204 (45.13 %)
Number of unique values	219
Median	0.91
1st and 3rd quartiles	0.57; 1.09
Min. and max.	0; 2.9

reanalysis_tes_p

P-value for the Test of Excess Significance.

Feature	Result
Variable type	numeric
Number of missing obs.	204 (45.13 %)
Number of unique values	222
Median	0.8
1st and 3rd quartiles	0.58; 0.95
Min. and max.	0.01; 1

reanalysis_tes_power

Power for each of the tests (from the Test of Excess Significance).

Feature	Result
Variable type	character
Number of missing obs.	204 (45.13 %)
Number of unique values	244
Mode	"0.793; 0.52; 0.463"

reanalysis_tes_theta

Value of theta used to compute the tests (from the Test of Excess Significance).

Feature	Result
Variable type	numeric
Number of missing obs.	204 (45.13 %)
Number of unique values	244
Median	0.08
1st and 3rd quartiles	-0.04; 0.18
Min. and max.	-0.47; 0.61

Report generation information:

- Created by: Taren Sanders (username: taren).
- Report creation time: Tue Jun 20 2023 15:41:36
- Report was run from directory: /home/taren/GitHub/screen_umbrella
- dataReporter v1.0.2 [Pkg: 2021-11-11 from CRAN (R 4.3.0)]
- R version 4.3.0 (2023-04-21).
- Platform: x86_64-pc-linux-gnu (64-bit)(Australia/Sydney).
- Function call:

```
dataReporter::makeDataReport(data = out_effects, output = "pdf", mode = "summarize", smartNum = FALSE, file = "supplementary_files/codebook.Rmd", replace = TRUE, openResult = FALSE, checks = list(character = "showAllFactorLevels", factor = "showAllFactorLevels", labelled = "showAllFactorLevels", haven_labelled = "showAllFactorLevels", numeric = NULL, integer = NULL, logical = NULL, Date = NULL), listChecks = FALSE, maxProbVals = Inf, addSummaryTable = FALSE, codebook = TRUE, reportTitle = "Codebook for the Complete Effects Data")
```