Assessing the outcome of treatment for school refusal - Are we measuring up?

Johan Strömbeck
David Heyne
Martin Bergström
Katarina Alanko
Robin Ulriksen











Background to the study

Absence from school can negatively impact academic achievement,
 socioemotional outcomes, and ultimately employment and earning potential

Need for continued development of intervention for school attendance problems

 Little discussion about which outcomes to include in the evaluation of treatment for school refusal (SR)

Objectives of the study

- Facilitate development of a framework for evaluating SR treatment
- How has outcome of SR interventions been measured during the last 40 years?

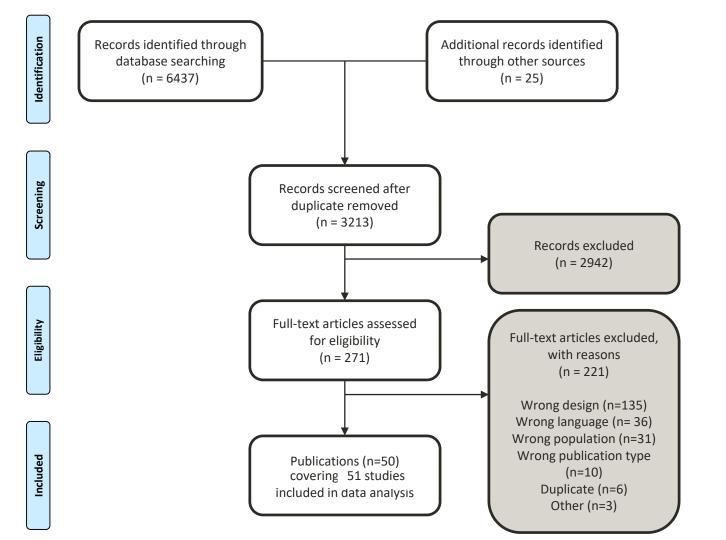
DATA GATHERING

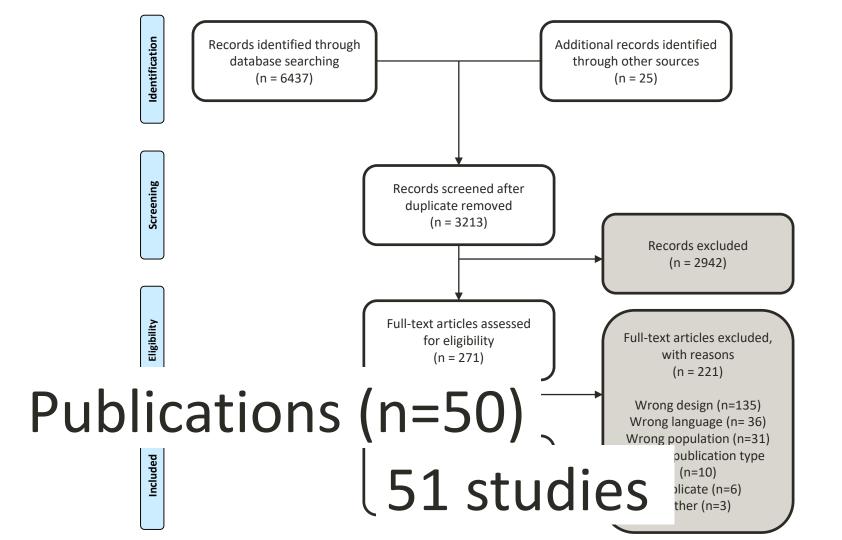
INFORMANTS

CONSTRUCTS

MEASUREMENT PIONTS

INSTRUMENTS





About the sample



19 Group-based studies
(9 RCT, 2 Non-RCT, 8 No Control)
8 Follow up only
24 Case Studies



1980-1989 - 9 1990-1999 - 15 2000-2009 - 14 2010-2019 - 13



N= 1114 (M=22) Age: M=12,7 (SD=2,4) 55 % Male



Psychosocial + other – 13
CBT – 12
Behavioral – 10
Not specified – 4
Other + medication – 4
CBT + Psychosocial – 4
CBT + Medication – 2
Medication – 2
Virtual reality – 1



Group	FU	CS	Total
N= 19	N= 8	N= 24	N= 51
14= 19	14= 0	11-24	

DATA GATHERING

This is how outcome was measured...

	Group	FU	CS	Total
	N= 19	N= 8	N= 24	N= 51
Attendance data	16	3	18	37
Diagnostic interview	5	1	2	8
Structured interview schedule	3	2	0	5
Clinical interview	0	0	3	3
Interview (other)	5	5	1	11
Questionnaire	16	5	9	30
Clinical rating scale	12	2	4	18
Rating scale (other)	6	0	6	12
Test	1	0	0	1
Review of medical record	2	3	0	5
Diary	0	0	1	1
Functioning	0	3	0	3
Observation	0	0	1	1
Other	3	1	1	4

DATA GATHERING

This is how outcome was measured...

	Group N= 19	FU N= 8	CS N= 24	Total N= 51	
Attendance data	16	3	1	8	37
Structured interview schedule Clinical interview	3	2	0	5	
Questionnaire	16	5	Ç)	30
Clinical rating scale	12	2		1	18
Rating scale (other)	6	0	6	5	12
Functioning	0	3	0	3	
Observation	0	0	1	1	10
Other	3	1	1	4	

...and these are the informants



	Group	FU	CS	Total
	N= 19	N= 8	N= 24	N= 51
Clinician	13	2	3	18
Parent	11	2	9	22
Teacher	4	2	3	9
Youth	17	5	9	31





	Group N=19	FU N= 8	CS N= 24	Total N= 51
Attendance	16	3	18	37
Global functioning	10	1	4	15
Mental health	1	1	0	2
Quality of life	1	0	1	2
Diagnosis	5	1	1	7
Emotional and behavioural symptoms	9	2	8	19
Anxiety and depression ^a	0	2	1	3
Anxiety	12	2	6	20
Fear	7	1	2	10
Fear of going to school / school related fear	5	0	3	8
Depression	10	2	7	19
Self-efficacy	5	0	3	8
Parent self-efficacy for managing school attendance problems	1	0	0	1
Self-esteem	1	1	0	2
Adverse effects of medication	1	0	1	2
Cognitive and behavioral dimensions in motivation and engagement	1	0	0	1
Consumer satisfaction + parent and adolescents desire for child to return to school	1	0	0	1
Dimensions of personality	1	0	0	1
Family functioning	0	1	0	1
Function of refusal of going to school	1	0	1	2
Reading ability	1	0	0	1
Outcome of services - general health, social functioning	2	0	0	2
Overall improvement since starting treatment	1	0	0	1
Parent varables	1	0	0	1
Personal functioning	1	0	0	1
Psychological well-being and psychological stress	1	0	0	1
Psychopathology (dimensional)	0	1	0	1
Self-Concept (intrapersonal competence)	0	0	1	1
Severity of diagnosis	0	0	2	2
Social Adjustment	0	1	0	1

This is what was asked about



Global functioning	Group N=19	N= 8	N= 24	N= 51	_
Attendance	1	6	3	18	37
Global functioning	1	0	1	4	15
Emotional and behavioural symptoms	9)	2	8	19
Anxiety	1	2	2	6	20
Depression	1	0	2	7	19
Outcome of services - general health, social functioning	2	0	0	2	
Overall improvement since starting treatment	1	0	0	1	1
Parent varables Personal functioning	1	0	0	1	1
Psychological well-being and psychological stress	1	0	0	1	1
Psychopathology (dimensional)	0	1	0	1	1.2
Self-Concept (intrapersonal competence)	0	0	1	1	13
Severity of diagnosis Social Adjustment	0	0	0	2	1

And this is when they asked for it

MEASUREMENT POINTS

	Group	FU	CS	Total
	N= 19	N= 8	N= 24	N= 51
Daily/weekly	0	0	7	7
Pre-Post & Follow up	8	0	9	17
Pre-Post	5	0	1	6
Pre + after certain time ^b	5	0	0	5
Only follow up	1	8	0	9
Not specified	0	0	7	7

What instruments were used to measure these constructs? A LOT OF INSTRUMENTS

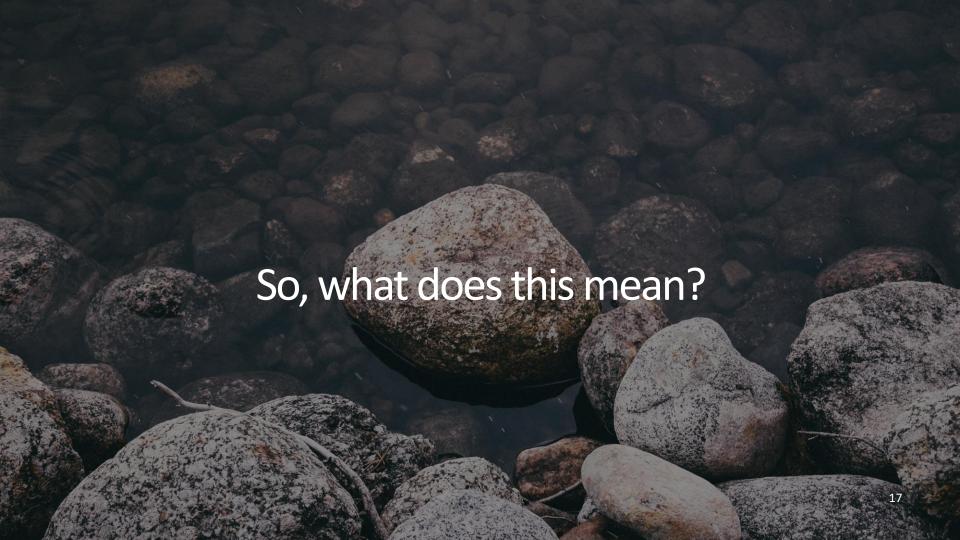
The state of the s					
		Group N=19	FU N= 8	N= 24	
Child Behavior Checklist (CBCL)		7	1	7	15
Children's Depression Inventory (CDI)		8	0	6	14
Children's Manifest Anxiety Scale (CMAS/RCMAS)		7	0	-	12
Cuntrul a strained st		7	0	3	9
Self-efficacy Questionaire for School Situations (SEQ-SS)			0	1	- (
School Fear Thermomers (SFT)		4			2
		-			
Global Assessment of Functioning Scale (GAF)		6	0	-	
Teacher's Report Form (TRF)		3	0	3	6
State-Trait Auxiety Inventory (STAI/STAIC)		3	1	2	6
Diamostic Interview Schedule for Children (NIMH DISC 2.3)					
		1	0	0	1
Missouri Assessment of Genetics Interview for Children (MAGIC) Schedule for Affective Disorders and Schizophrenia for School-Age Children - Present Episode version (K-SADS-P)		- 1	0	0	-
Child Behavior Checklist (CRCL)		2	1	2	15
Teacher's Report Form (TRF) Youth Self-Report (YSR)		3	<u>u</u>	2	2
YOUN NEW REPORT ITSE! Adherback Young Adult Self-Report (YASR)		7		<u> </u>	<u>ź</u>
ACREMINENT YOUNG AGUE SEEL-KEPORT (YASK) Deverse Behavior Rating Scales - School Form		0	0	0	-
Develor Behavior Rating Scales (SRS) Rutter Behavior Rating Scales (RRS)		1	0	0	i -
Strengts and Difficulties Questionnaire (SDQ)		· ·	0	0	
Young Adul Behaviour Checkiston (MACL)		0	i	0	i -
Leeds Anxiety and Depression Scale		0	2	0	2
Revised Child Anxiety and Depression Scale (RCDAS)		0	0	1	1
Children's Manifest Auxiety Scale (CMAS/RCMAS)		7	0	5	12
Sinte-Trait Anxiety Inventory (STALSTAK)		3	ī	2	6
Multidimensional Anxiety Scale for Children (MASC)		2	0	2	4
Anxiety Rating for Children (ARC/ARC-R)		2	1	0	3
Social Anxiety Scale for Children (SASC/SASC-R)		1	Ω	1	2
Self-Rating Anxiety Scale (SAS)		1	0	0	1
Fear Survey Schedule for Children (FSSC-2/FSSC-R)		2	0	2	9
Pear Questionnaire		0	1	0	1
School Fear Thermometer (SFT)		4	0	3	7
Inventario de Miedos Ecolares [Schol-Related Fears Inventory] (IME)		1	0	0	1
Children's Depression Inventory (CDI)		8	0	6	14
Children's Depression Rating Scale (CDRS/CDRS-R)		2	1	0	3
Beck Depression Inventory (BDI)		1	0	1	2
Self-rating Depression Scale (SDS)		0	0	1 0	2
Zung Depression scale Self-efficacy Questionnaire for School Situations (SEQ-SS)		5	0	3	8
Self-efficacy Questionnaire for Second Statistics (SEQ-SSAP) Self-efficacy Questionnaire for Responding to School Attendance Problems (SEQ-SSAP)		1	0	0	1
Sen-entraly Questionnaire for responding to School Autonomic Problems (SEQ-RSAF) Rosenberg Self Estern Scale		0	1	0	i
vorienter or concern reads. Self-exteem Inventory		Ĭ		0	
New York state psychiatric institute side effect form		i	0	0	i
UKU-scales (side-effects)		0	0	1	i .
Motivation and Engagement Scale - High School version (MES-HS)		1	0	0	1
School Refusal Program Consumer Satisfaction Questionnaire (SRP-CSQ)		-	0	0	
Junior Eysenck Personality Questionnaire (JEPQ) Junior Eysenck Personality Questionnaire (JEPQ)		<u> </u>	0	0	
Family Adaptability and Cohension Scale 2 (FACES 2)		0	1	0	i
School Refusal Assistment Scale 5 (1982.5)		1	0	1	2
Bur Reading Test (BRT) Bur Reading Test (BRT)		i	0	0	1
Health of the Nation Outcomes Scales Child and Adolescent (HoNOSCA)		2	0	0	2
Global Improvement Scale		1	0	0	1
Parent Interview Schedule (PIS)	<u> </u>	1	0	0	1
Personal Performance Scale (PPS)		1	0	0	1
General Well-being Scale		1	0	0	1
Mandsky Symptom Checklist		0	1	0	1
Piers-Harris Self-concept Scale (P-H)		0	0	1	1
Clinical Severity Rating (part of ADIS)		0	0	2	2
Social Adjustment Scale		0	1	0	1

What instruments were used to measure these constructs?

MOST COMMONIX

MOST COMMONLY USED INSTRUMENTS

	Group	FU	CS	Total
	N=19	N= 8	N= 24	N= 51
Child Behavior Checklist (CBCL)	7	1	7	15
Children's Depression Inventory (CDI)	8	0	6	14
Children's Manifest Anxiety Scale (CMAS/RCMAS)	7	0	5	12
Fear Survey Schedule for Children (FSSC-2/FSSC-R)	7	0	2	9
Self-efficacy Questionnaire for School Situations (SEQ-SS)	5	0	3	8
School Fear Thermometer (SFT)	4	0	3	7
Global Assessment of Functioning Scale (GAF)	6	0	1	7
Teacher's Report Form (TRF)	3	0	3	6
State-Trait Anxiety Inventory (STAI/STAIC)	3	1	2	6



MANY different ways to measure MANY different constructs using MANY different instruments.

Need a frame-work (core outcome set) which suggests constructs, instruments, and measurement points

e.g., 'Imperative' to measure attendance; by

Thanks for listening!

Johan Strömbeck
David Heyne
Martin Bergström
Katarina Alanko
Robin Ulriksen









