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C	BJETIVE
To present, not a global, but a studies –that is supposed quality-; this implies:	specific scale to measure quality in primary to identify methodological features related to
1. To analyze its homogen using different methodolo methodology in different (This Implies taking i and measuremen	eity with respect to scoring and weighting records gies in the same area and/or the same areas. nto account, mainly existing theories of validity t)
2. To apply it in different interaction be adapted to the charaction psychological, education (this implies taki generalization	ervention contexts, and demonstrate how it can steristics of intervention studies in the al and social fields. ng into account, al least, models of c and utility)
Important threat to th answer to problems defin	is logic is to believe that we can find a general ed contextually.



- Main stages to develop the methodological scale and main results since 2004:
 - □ Scale evolution (changes, reasons, consequences).
 - □ Results and implications during the process.
 - Present and expected future development of the project.
 - Invitation to use and assess feasibility, utility, level of representativeness and reliability of the scale.

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	1st phase (2004)	2nd phase (2005)	3rd phase (2006)	4th phase (2007)
SAMPLE 25 available documents abut"measure of quality in primary studie		-30 experts in meta-analysis and systematic reviews, quality evaluation and design (university and practitioners)	 Scale with 34 items (result of content validity'05) Other common available scales (i.e. Sánchez-Meca, research group collaboration, 1998) 	- Scale with 33 items
INSTRUMENTS	- Electronic databases - Procite	- 43 items - 3 options - 3 concepts to evaluate: representativeness, utility, feasibility -Internet (sending of results) .Microsoft excel (data analysis)	Items from content analysis: - 3 characteristics: - extrinsic - substantives - methodological Other scales	-33 items from new scale
PROCEDURE	Selection of all recorded quality items	Questionnaires were given to experts Data were collected Data were analyzed	 Comparison between other available scales and results of content analysis New items were added. If it was useful to complete the items, new categories were added 	Modifications in terms used and categories looking for: -Homologous comparison referents between designs (quality can sum from 0 to 19) - More concretion and operationalization
RESULTS	- Exploratory questionnaire (43 items) - Exploratory study of published int. Prog.(abstracts)	Content validity: Osterlind's index Criteria of inclusion: ≥ 0,5 in at least 2 concepts . 34 items Exploratory study (abstracts)	Scale with 33 items - Exploratory studies (abstracts)	- New resulting scale: 38 items - Study (full texts)

	Reasons for introducing changes	Consequences
From 1st (2004) to 2nd phase (2005)	Content validity which gave an exclusion criteria	Basically, elimination of less representative, useful and/or feasible items
From 2nd (2005) to 3rd phase (2006)	Complete content validity study with scales that before were not available	Basically, incorporation of complete items or partial categories: - More concretion - More utility - More complete
From 3rd (2006) to 4th phase (2007)	 Some designs could punctuate in a higher way than others Some items were ambiguous 	Basically, terminological modification and partial incorporation of categories to find: - An homologous comparison between designs - More concretion - More utility - More operationalization

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ITEM	VALUE	CATEGORY
	0	Theoretical
	1	Observational
0. Type of study	2	Survey
	3	Quasi-experimental
	4	Experimental
	0	No
1. Control group	0.5	Inactive
	1	Active
2. Sample	0	Non Specified
selection criteria	1	Specified
3. Randomization	0	Non randomized when there is not intervention/ Pre- experimental/ Quasi without variables controlled/ Experimental with an incorrect random process
	1	Randomized when there's not intervention/Quasi with variables controlled/Experimental

RESULTS Mothodological characteristics					
	VALUE	CATEGORY			
	0	1-2 measurements when there is not intervention/ Pre- experimental/ Experimental with one pre-post moment of measurement			
4. Design	0.5	3-29 measurements when there's not intervention/ Quasi- experimental with 2-29 measurements			
U U	0.75	Temporal series			
	1	30 or more measurements when there is not intervention/ Discontinuity on regression/ Experimental with 2 or more moments of measurement			
	0	N<12			
5. Sample	0.5	12≤N≤40			
	1	N>40			
	0	≥20%			
6. Global attrition	0.5	0 <n<20%< td=""></n<20%<>			
aunion	1	0% 11			

RESULTS Methodological characteristics					
ITEM	VALUE	CATEGORY			
	0	≥20%			
7. Differential attrition	0.5	0 <n<20%< td=""></n<20%<>			
	1	0%			
	0	≥20%			
8. Exclusions after sample	0.5	0 <n<20%< td=""></n<20%<>			
ussignment	1	0%			
	0	None			
	0.3	< 6 months			
9. Follow-up	0.6	[6-11] months			
	1	≥12 months			
10. Moments of	0	After intervention/ only one measurement if there is not intervention			
measurement	1	Before and after intervention/more than one measurement if there is not intervention12			

RESULTS Methodological characteristics					
ITEM	VALUE	CATEGORY			
11. Measurements in every moments	0	More than one measurement doesn't appear in every measure moments			
	0.5	One measurement doesn't appear in every measure moments			
	1	All the measurements appear in every measure moments			
	0	Auto-registration non standardized			
12. Normalized dependent variables	0.5	At least one is a questionnaire or auto-registration standardized			
	1	At least one is objective or normalized			
12 Maak in oveluctor	0	No			
13. Wask in evaluator	1	Yes			
14 Maak in participanta	0	No			
14. Mask in participants	1	Yes			

RESULTS Methodological characteristics				
ITEM	VALUE	CATEGORY		
15. Mask in professional of	0	No		
intervention/ internal evaluator	1	Yes		
16. Homogeneity in process: intensity, duration and professionals	0	Different		
	1	Same		
	0	None is defined conceptual and empirically		
17. Construct definition	0.5	At least one is defined conceptual and/or empirically		
	1	All of them are defined conceptual and empirically		
18. Statistic methods to infer missing	0	None		
data	1	Yes		

RESU Methodological c	LTS charact	eristics
ITEM	VALUE	CATEGORY
	0	Non specified
19. Effect size and value	1	Specified
20. Index of quality	SUM	From 0 to 19
21. Statistic index calculated	Concrete value	9
20 Significant differences between measures	0	No
22. Significant differences between measures	1	Yes
23. Variability index	Concrete value	•
22. Significant differences between measures 23. Variability index	0 1 Concrete value	Yes

RESULTS Substantive characteristics				
ITEM	VALUE	CATEGORY		
24. Number of participants each group		Concrete Value		
25. Number of groups		Concrete Value		
26. Exclusions after measurements		Concrete Value		
27. Age range		Concrete Value		
28. Average age		Concrete Value		
29. Period of study		Concrete Value		
30. Intensity of the treatment or the measurements when there is not intervention		Concrete Value		
31. Unit of measurement		Concrete Value		
32. Training area		Concrete Value		
33. Intervention field		Concrete Value		

ľ	RE Extrinsic	ESULT charao	S cteristics	
	ITEM	VALUE	CATEGORY	
		1	Article in journal	
		2	Book	
	24. Type of publication	3	Thesis	
	34. Type of publication	4	Congress	
		5	Other publications	
		6	Non-published studies	
	THE	ORETICAL MC	DEL	
		35. Author		
	30	6. Variables use	ed	
	37. Evaluation proposal			
			17	

LET'S DISCU	SS	
QUESTIONNAIRE	LAST VERSION	REASONS
 22. Units random assignment: 0. None and without techniques to control extraneous variables. 0.5. None but with control of extraneous variables. 1. Yes. 	 Randomization: Non randomized when there is no intervention/Pre- experimental/Quasi without variables controlled/ Experimental with an incorrect random process. Randomized when there's no intervention/ Quasi with variables controlled/ Experimental with a corrects random process 	 Randomization was scored higher than other kinds of assignment, so experimental design was the only one able to obtain highest score. Quasiexperimental designs with control of extraneous variables are now considered with the same quality than experimental designs. Before, only was considered assignment; now, we also consider selection in studies without assignment.

QUESTIONNAIRE	LAST VERSION	REASONS
measurement on each variable (specify number): 0. Post intervention only. 1. Pre and post intervention.	measurement: 0. After intervention/only one measurement if there's not intervention. 1. Before and after intervention/ more than one measurement if there's not intervention.	cases which there is not intervention.



FUTURE DEVELOPMENTS OF THE PROJECT

- Making an empirical check, comparing results in quality index of primary studies previously measured with other scales. In case of finding differences, it would give interesting plausible different alternatives hispothesis.
- We already presented an application of this scale in training programs. We are going to apply it in other contexts to see how it works.

FUTURE DEVELOPMENTS OF THE PROJECT

We invite you to use and assess feasibility, utility, level of representativeness and reliability of this scale.

http://innoevalua.us.es

(SCALE AVAILABLE ON LINE OR BY E-MAIL; previous request to authors)







RESULTS 1 Content validity (Chacón, Sanduvete y Alarcón, 2005)		5)	
EXTRINSIC CHARACTERISTICS (N = 10)	R	U	F
1. Type of publication	0.3	0.6	0.7
2. Year of publication	0	0.2	0.8
3. Impact index (only in journals)	-0.2	0.1	0.3
4. Data Bases	-0.2	0.3	0.6
5. Training of researches	0.2	0.4	0.1
6. Paper Structure recommended by APA	0.1	0.1	0.1
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SUBSTANTIVE CHARACTERISTICS (N = 30)	R	U	F
SAMPLE			
7. Range of age	0.6	0.5	0.6
8. Mean of age	0.8	0.8	0.7
9. Standard deviation of age	0.4	0.1	0.4
10. Cultural origin	0.1	0.2	0.3
11. Socio-economic level	-0.1	0.1	-0.3
CONTEXT			
12. Implementation context	-0.2	0.1	0
13. Intervention field	0.5	0.4	0.9
14. Country	0.4	0.4	0.7
TREATMENT			
15. Theoretical orientation	0.3	0.8	0
16. Previous empirical evidence	0.1	0.3	0.1
17. Period of treatment	0.8	0.9	06
18. Degree of treatment intensity	0.8	0.9	0.8
19. Units (in group or individual)	1	0.9	0.9

RESULTS 1			
METHODOLOGIC CHARACTERISTICS (N = 30)	R	U	F
21. Inclusion and exclusion criteria for units are provided	0.6	0.9	0.5
22. Units random assignment to groups	0.9	1	0.6
23. Type of methodology/ design	0.9	0.9	0.6
24. Sample size	0.8	0.9	1
25. Statistic used to calculate the sample size	0.4	0.5	0.3
26. Attrition	0.7	0.9	0.1
27. Without attrition	0.6	0.5	0.4
28. Attrition between groups	0.7	0.9	0.1
29. Exclusions after randomization	0.6	0.6	0.2
30. Baseline period	0.1	0.2	0
31. Follow-up period	0.6	0.7	0.3

RESULTS 1			
METHODOLOGICAL CHARACTERISTICS (II) (N = 30)	R	U	F
32. Moments of measurement	0.9	0.9	1
33. Measures in pretest appear in postest	0.8	0.9	0.4
34. Normalized dependent variables	0.6	0.6	0.4
35. Homogeneity of the intervention	0.6	0.4	-0.1
36. Control techniques	0.7	0.9	0.2
37. Construct definition of outcome	0.9	0.7	-0.1
38. Statistic methods for inputting missing data	0.6	0.6	0.2
39. Specification of confidence intervals in statistical analysis	0.1	0.2	0.5
40. Effect size and value	0.7	0.8	0.6
41. Other data apart aims	0.1	0.2	0.4
42. Interpretation of results	0.1	0.1	0.2
43. Interpretation of results bias	0.4	0.2	0.1

F Results joined to analy Methodol	RESULTS 2 o items frequently used in meta- /sis (Sánchez-Meca) ogical characteristics
ITEM	ORIGIN
0. Type of study	General
1. Control group	Frequently used in meta-analysis
2. Sample selection criteria	Content validity (R, U & F ≥ 0.5)
3. Randomization	Frequently used in meta-analysis and content validity (R, U & F \ge 0.5)
3. Randomization 4. Design	Frequently used in meta-analysis and content validity (R, U & F \geq 0.5)Frequently used in meta-analysis and content validity study (R, U & F \geq 0.5)

RES Methodologic	SULTS 2. cal characteristics
ITEM	ORIGIN
6. Global attrition	Frequently used in meta-analysis and content validity study (R & U \ge 0.5)
7. Differential attrition	Frequently used in meta-analysis and content validity study (R & U \ge 0.5)
8. Exclusions after sample assignment	Content validity study (R & U \ge 0.5)
9. Follow-up	Frequently used in meta-analysis and content validity study (R, U & F \ge 0.5)
10. Moments of measurement	Frequently used in meta-analysis and content validity study (R & U \ge 0.5)
11. Measurements in every moments	Frequently used in meta-analysis and content validity study (R & U \ge 0.5)
12. Normalized dependent variables	Frequently used in meta-analysis and content validity study (R & U \ge 0.5)
13. Mask in evaluator	Meta-analysis and cont. validity (R & U)

RESU	LTS 2.
Methodological	characteristics
ITEM	ORIGIN
14. Mask in participants	Meta-analysis and cont. validity (R & U)
15. Mask in professional of intervention	Meta-analysis and cont. validity (R & U)
16. Homogeneity in intervention (or process of measurement)	Frequently used in meta-analysis and content validity study (not considered good)
17. Construct definition	Content validity study (R & U \ge 0.5)
18. Statistic methods to infer missing data	Content validity study (R & U ≥ 0.5)
19. Effect size and value	Content validity study (R, U & F ≥ 0.5)
20. Index of quality	Sum
21. Statistic index calculated	Possible modulator variable
22. Significant differences	Possible modulator variable
23. Variability index	Possible modulator variable

I	RESULTS
Substant	tive characteristics
ITEM	ORIGIN
24. Number of participants each group	Possible modulator variable
25. Number of groups	Possible modulator variable
26. Exclusions after measurements	Possible modulator variable
27. Age range	Content validity study (R, U & F ≥ 0.5)
28. Average age	Content validity study (R, U & F ≥ 0.5)
29. Period of study	Content validity study (R, U & F ≥ 0.5)
30. Intensity of the treatment	Content validity study (R, U & F ≥ 0.5)
31. Unit of intervention or measurement	Content validity study (R, U & F ≥ 0.5)
32. Training area	Possible modulator variable
33. Intervention field	Content validity study (R & F \ge 0.5)

Extrin	sic characteristics
ITEM	ORIGIN
34. Type of publication	Content validity study (U & F ≥ 0.5)
	THEORETICAL MODEL
35. Author	To acquire a general view
36. Variables used	To acquire a general view
7. Evaluation proposal	To acquire a general view