

A NEW INSTRUMENT TO ASSESS EXECUTIVE FUNCTION IN ADHD DURING SCHOOL AGE

Tamara Luque ¹² y Fernando Sánchez-Sánchez ¹

¹ R&D Department, TEA Ediciones (Madrid, Spain)

² Social Psychology & Methodology Dept., Universidad Autónoma de Madrid (Madrid, Spain)

OBJECTIVES

To develop an psychometric instrument to assess ADHD from a neuropsychological and dimensional perspective to better describe the deficits and their real impact in the person's daily life, complementary to traditional performance test.

This instrument approach might be:

Dimensional

Comprehensive

Understand the disorder from a more global perspective, focusing on affected processes instead of just the compliant of diagnostic criteria.

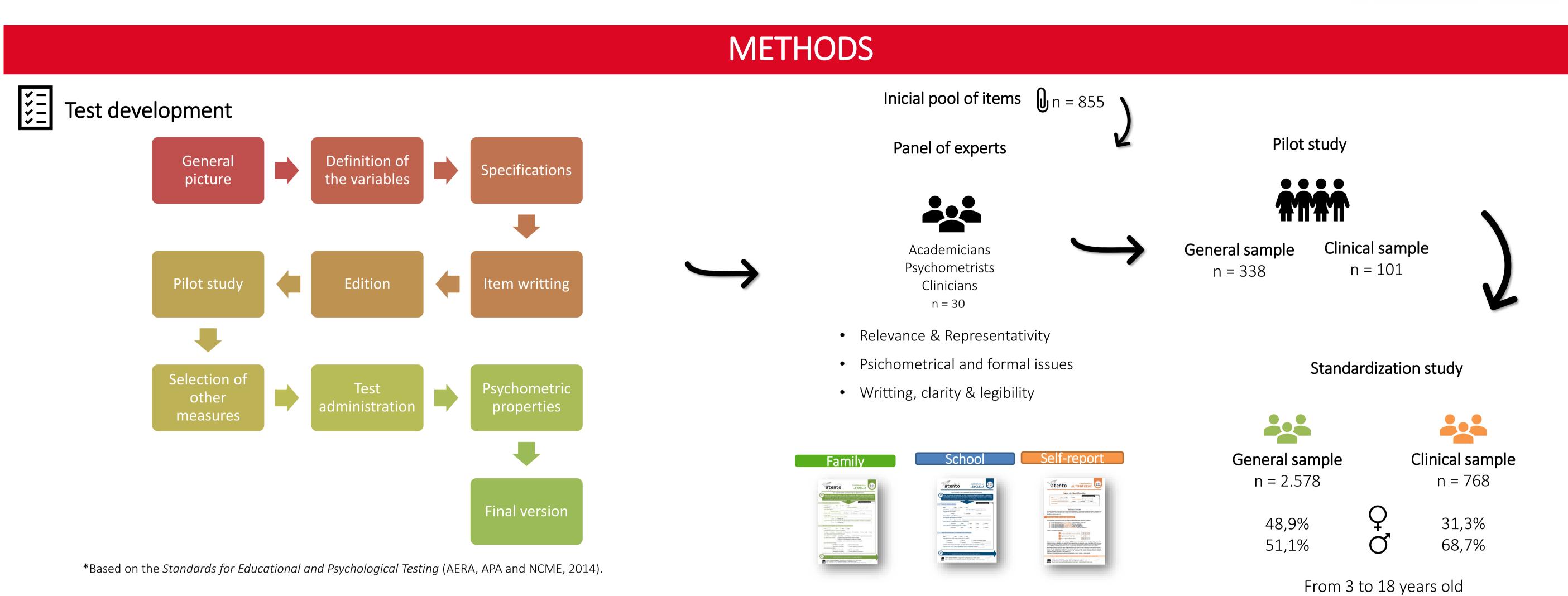
Ecological Assess executive functioning in daily life through behavioral observation from parents and teachers, as well as the own child or teenager.

Based on development Adapted to the level of development of the executive processes during each school period, allowing a continuous follow-up during all school age.

Provide a broad profile of executive functions and other information relevant to help the clinician in the diagnostic process.

Intervention-oriented Identify weaknesses and strengths for a more adapted and personalized intervention planning.





Alfa de Cronbach Family

RELIABILITY

		Family		School		Self-
	Scale					report
		L1	L2	L1	L2	-
INA	Inatenttion	,87	,91	,91	,93	,88
HIP	Hiperactivity and impulsivity	,90	,87	,91	,91	,85
TEM	Tempo Cognitivo Lento	,82	,90	,90	,93	,89
ATE	Attentional control	,93	,95	,96	,96	,93
CON	Behavioural regulation	,91	,89	,93	,92	,86
ЕМО	Emotional regulation	,91	,91	,90	,93	,90
MEM	Working memory	,89	,94	,95	,96	,91
FLE	Flexibility	,85	,88	,86	,92	,84
PLA	Planification and organization	,86	,94	,94	,96	,89
ORI	Temporal orientation	,81	,87	,88	,89	,77
PCO	Behavioural problems	,83	,86	,85	,90	,85
SUE	Sleeping problems	,83	,82	-	-	,81
FAM	Impact in familiar context	,88	,89	-	-	,85
ESC	Impact in schoolar context	-	-	,91	,90	,83
soc	Impact in social context	,76	,82	,84	,90	,82

VALIDITY Correlations with ADHD-5

		ADHD-5	ADHD-5 Family			
ATENTO Family	INA	HIP	IMP	IMP-HIP		
Ina	,60	,40	,36	,36		
Hip	,29	,73	,31	,51		
Ate	,58	,46	,36	,39		
Con	,32	,74	,34	,52		
Emo	,36	,47	,45	,52		
Mem	,43	,28	,24	,28		
Pla	,57	,33	,38	,31		

VALIDITY Discriminant capacity in clinical samples





Note: T scale; M = 50; Sd = 10

CONCLUSIONS

To develop a psychometric test is necessary to carry out a planned and rigorous procedure in order to establish its reliability and validity with guarantees.

In our case, the instrument has shown satisfactory psychometric properties in Spanish population: high alfa coefficients, high correlations with ADHD-5 related scales and good capacity to discriminate between general scholar population and ADHD diagnosticated cases.

According to recent scientific evidences, ADHD seems to be characterized by an executive profile of lower attentional, working memory, planning and organization and temporal orientation scores in comparison with the profile of general population. This pattern of dysfunctions may be related with the presence of adaptation problems in familiar, scholar and social contexts.

