



SYMPOSIUM 12: Instruments to Screen and Assess School Attendance Problems

The School Refusal Assessment Scale-Revised: Psychometric studies carried out in three Spanish-speaking countries

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1. What is the SRAS and which are its latest developments?

2. Have the Spanish SRAS-R versions obtained adequate psychometric properties?

3. Which are the strengths and weaknesses of the Spanish SRAS-R versions?

4. Conclusions



SCHOOL REFUSAL ASSESSMENT SCALE-REVISED (Kearney, 2002)

School Refusal Assessment Scale-Revised (C)

Children sometimes have different reasons for not going to school. Some children feel badly at school, some have trouble with other people, some just want to be with their family, and others like to do things that are more fun outside of school.

This form asks questions about why you don't want to go to school. For each question, pick one number that describes you best for the last few days. After you answer one question, go on to the next. Don't skip any questions.

There are no right or wrong answers. Just pick the number that best fits the way you feel about going to school. Select the number.

Here is an example of how it works. Try it. Select the number that describes you best.

Example:

How often do you like to go shopping?

Never	Seldom	Sometimes	Half the Time	Usually	Almost Always	Always
0	I	2	3	4	5	6

Now go to the next page and begin to answer the questions.

24-item self-report measure

Factor I: Avoidance of school-related stimuli that provoke negative affectivity.

Factor II: Escape from aversive social or evaluative situations.

Factor III: Pursuit of attention from significant others.

Factor IV: Pursuit of tangible reinforcement



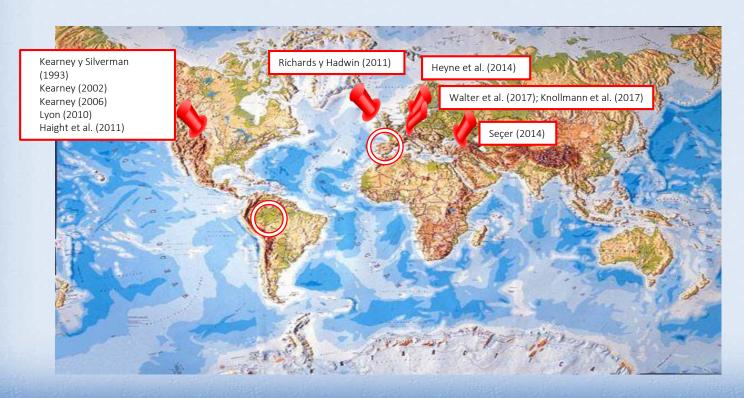


Table 1. Review of validation studies with the SRAS-R							
Author/s	Country	Sample	Age	Items omitted	Internal consistency		
Kearney (2002)	America	168 School refusers	6-17	-	.5677		
Kearney (2006)	America	213 School refusers	6-16	20 and 24	.5678		
Lyon (2009)	America	174 Community sample	10-12	16, 20 and 24	Inter-item reliability .4063		
Haight et al. (2011)	America	216 School refusers	11-17	19 and 20	.7383		
Richards and Hadwin (2011)	United Kingdom	180 Community sample	12-13	7, 17, 18, 19, 22 and 23	.7583		
Seçer (2014)	Turkey	480 Community sample	13-18	4, 17, 18, 19 and 20	.86		
Heyne et al. (2016)	Netherlands	199 School refusers	7-18	Modified the drafting of certain items	.8087		
Walter et al. (2017)	Germany	62 School absentees	11-17	20 and 22	.8084		
Knollman et al. (2017)	Germany	156 children		Elimination of several items with problematic content validity			

Table 1. Review of validation studies with the SRAS-R								
Author/s	Country	Sample	Age	Items omitted	Internal consistency			
Gonzálvez et al. (2016)	Spain	1078 Community sample	8-11	16, 17, 18, 19, 20 and 24	.7087			
Gonzálvez et al. (2017)	Chile	2678 Community sample	13-17	-	.7177			
Gonzálvez et al. (2018)	Ecuador	1786 Community sample	15-18	16, 17, 18, 19, 20 and 24	. 7181			

Gonzálvez, C., Inglés, C.J., Kearney, C. A., Vicent, M., Sanmartín, R., & García-Fernández, J.M. (2016). School Refusal Assessment Scale-Revised: factorial invariance and latent means differences across gender and age in Spanish children. *Frontiers in Psychology, 7*, 1-10. doi: 10.3389/fpsyg.2016.02011

Gonzálvez, C., Inglés, C.J., Sanmartín, R., Vicent, M., Calderón, C.M., & García-Fernández, J.M. (2018a). Testing factorial invariance and latent means differences of the school refusal assessment scale-revised in Ecuadorian adolescents. *Current Psychology*. doi: 10.1007/s12144-018-9871-1

Gonzálvez, C., Kearney, C.A., Lagos-San Martín, N., Sanmartín, R., Vicent, M., Inglés, C.J., & García-Fernández, J.M. (2017). School Refusal Assessment Scale-Revised Chilean version: factorial invariance and latent means differences across gender and age. *Journal of Psychoeducational Assessment*, *36*(8), 835-843. doi: 10.1177/0734282917712173





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1078

Spanish children

8-11 years

(M=9,36; SD=1,12)

1786

Ecuadorian adolescents

15-18 years

(M= 16,31; SD= 1,01)

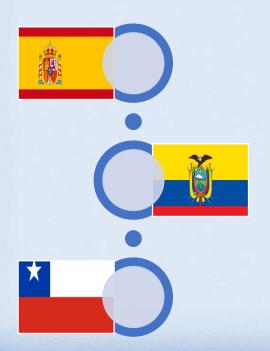
2678

Chilean adolescents

13-17 years

(M=15,23; SD=1,26)





Statistical analyses

- CFA
- The Robust Maximum Likelihood (RML), Satorra-Bentler scaled χ² and goodness-of fit indexes
- Cronbach's alpha coefficient
- Multigroup Confirmatory Factorial Analysis across gender and age
- Latent mean differences across gender and age
- Pearson product moment correlation coefficient



RESULTS – Psychometric properties

- Model 3b of 12 items: model with best fit.
- SRAS-R 18 items (omitted items: 16, 17, 18, 19, 20 and 24)

Spain



- SRAS-R 18 ítems
 - FI: 1-9
 - FII: 2-22; 6-22
 - FIII: 3-11; 7-23
- Goodness of fit indices (R-CFI; TLI; R-RMSEA; SRMR).

Ecuador



- Model 3b obtained the best goodness-of-fit indexes
- SRAS-R 24 items correlation 3-11
- Goodness of fit indices (R-CFI; TLI; R-RMSEA; SRMR).





RESULTS – Psychometric properties

• Cronbach's Alpha: .74, .75, .72 and .70.

Measurement and structural invariance of the SRAS-R-C across gender and age

Spain



• Cronbach's Alpha: .77, .81, .75 and .71.

Measurement and structural invariance of the SRAS-R-C across gender and age

Ecuador



• Cronbach's Alpha: .75, .72, .77 and .71.

Measurement and structural invariance of the SRAS-R-C across gender and age





RESULTS - Latent means differences across gender and age

- Boys scored significantly higher FIV.
- 11 years obtained higher scores than 8 and 9 year-olds on FIV.
- 8 and 9 years obtained higher scores than 11 year-olds on FII and FIII.

Spain



- **Girls** scored significantly higher on **FI**.
- Boys scored significantly higher FIV.
- 17–18 years obtained higher scores than 15–16-year-olds on FI and FII.

Ecuador



- Boys scored significantly in FII and FIV.
- 16-17 years obtained higher scores than 13-15 years on FI and FII.





RESULTS – Correlations between factors

Statistically significant and positive correlations:

High magnitude (FI - FII) Moderate magnitude (FI – FIII; FII - FIII) Low magnitude (FIV and FIII).

Spain



Statistically significant and positive correlations:

High magnitude (FI and FII-FIII) Moderate magnitude (FII - FIII) Low magnitude (FIV and FI - FIII).

Ecuador



 Statistically significant and positive correlations:

High magnitude (FI - FII)

Moderate magnitude (FI and FII - FIII)

Low magnitude (FII and FIII - FIV).





RESULTS – Convergent validity

- FI, FII and FIII SRAS-R obtained positive correlations: Negative affect (PANAS-C) and Pessimism (YLOT).
- FIV obtained positive correlations: Positive affect and optimism

Spain



- FI, FII and FIII SRAS-R obtained positive correlations: Social anxiety (SAS-A), Anxiety, Depression and Stress (DASS-21) and school anxiety (SAI).
- FIV obtained negative correlations: Social Anxiety and school anxiety

Ecuador





- Adequate indices of internal consistency.
- The most commonly used assessment scale.
- It's based on the reinforcement theory.
- Measurement and structure invariance of the scale across gender and age.

3. Strengths and weaknesses of the Spanish SRAS-R versions





- Three Vs four-factor structure.
- Some written style could make difficult the understanding of the scale (e.g. conditional styles or comparatives).
- The necessity of removing certain items to reach a reasonable adjustment.



4. Conclusions



These works offer the first Spanish validations of the SRAS-R in Spain, Ecuador and Chile.

Early detection will be encouraged as a prevention mechanism. SRB do not affect in the same measure across gender and age. Greater risk groups should be controlled



thank you.

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