

The SChool REfusal Evaluation scale for adolescents (SCREEN)

Development, Validation and feedback from the field

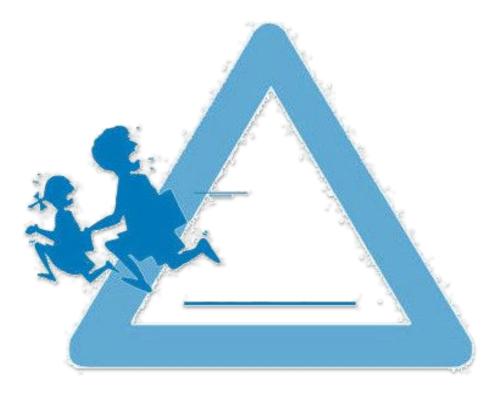
Marie Gallé-Tessonneau, University of Bordeaux - FRANCE



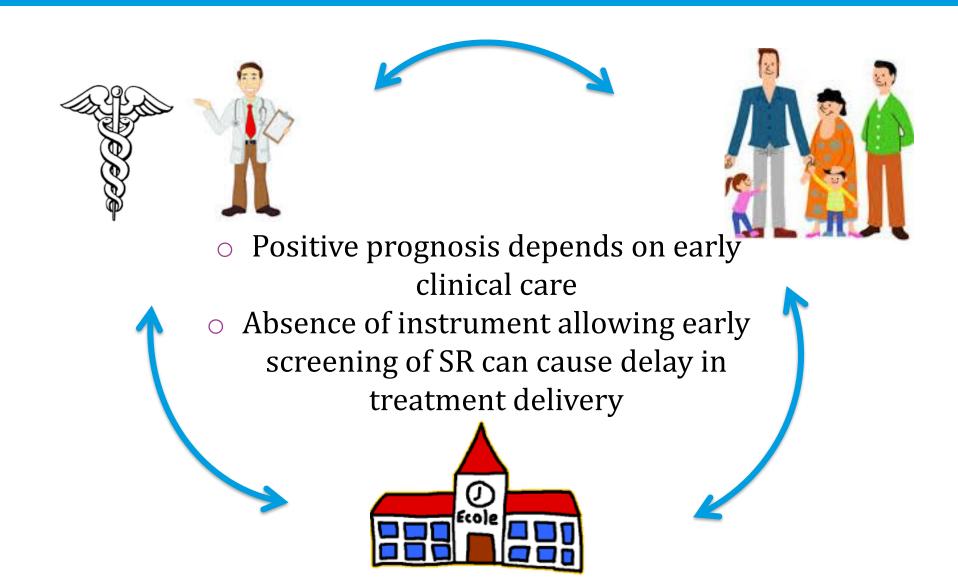


➤ The SCREEN background = typological approach of SAP

> SR as a type of SAP









- ➤ 4 instruments used to capture some constructs close to SR:
 - o SRAS-R (Kearney, 2002, 2006)
 - ISAP (Knollman, Reissner and Hebebrand)
 - The reason of school non-attendance scale (Havik, 2015)
 - SNACK (Heyne et al., 2019)

But nothing developed specifically to measure SR No scale provide a « SR score », to quantify SR



Objectives of the SCREEN:

- Have a measure of SR that can be used in different contexts (schools, care services, research...)
- Have a field approach and not a theoretical approach (no theorical items)
- No absenteeism criteria in order to identify emerging SR
- No anxiety disorder criteria
- Provide reliable cutoff for diagnosis, research, clinical practice...
- Provide a « SR score », to quantify SR



Construction of the SCREEN



Construction of the SCREEN

- **A Identify relevant manifestations of SR** (Gallé-Tessonneau & Heyne, submited)
- 42 interviews (adolescents displaying SR; adolescents attending public school; middle school professionals; care professionals working with adolescents displaying SR)
- Inductive AND Deductive content analysis

❖ Items generation

- Based on the verbatim interviews
- 64 items were created and worded at the first person

❖ Item selection & content validity of item pool

- Items reviewed by experts: 11 care professionals and 11 adolescents displaying SR
- They selected 42 items
- **Clarity & comprehensibility of the 42-items pilot version**
- Pre-testing with 12 adolescents

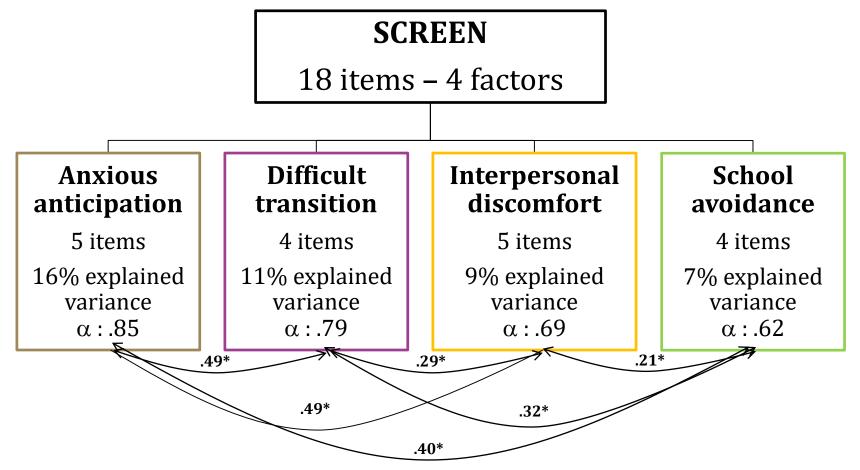


Validation of the SCREEN



EXPLORATORY FACTOR ANALYSIS

Community sample of 420 adolescents (10-16 years old, M= 12,2, SD = 1,2, 58% girl) from 6 french public middle schools



44% of the item variance – principal axis factor analysis, oblique rotation, bootstrap = 1000; N = 420; *= p<.05,



CROSS-VALIDATING & RELIABILITY

Community sample of 204 adolescents (10-16 years old, M= 12,7, SD = 1,3, 58% girl) from 6 french public middle schools

➤ Confirmatory factor analysis → good fit

- Chi-square (128, N=202) = 148.81, p = .100
- o RMSEA = .028 [90% CI = .000, .046]
- \circ SRMR = .061
- o CFI = .928
- o TLI = .914



SChool REfusal EvaluatioN1(SCREEN)

The sentences below describe what young people sometimes do or feel. Read each sentence carefully. For each sentence, indicate how much this applies to you at the moment. Tick the box matching your choice. There are no right or wrong answers. If there are ords or sentences you don't understand, please ask them explained.

As an exemple, please answer the following question:

N Ite	Item	Doesn't apply to me at all	Aplies to me a little	Applies to me somewhat	Applies to me a lot	Applies to me completely
EX	I watch television on Wednesday afternoons					

If you understand what to do, please continue:

		Item	Doesn't apply to me at all	Aplies to me a little	Applies to me somewhat	Applies to me a lot	Applies to me completely
	1 B4	I'm afraid of what others in my class think of me					
	2 Q1	I tell my parents that I don't want to go to school and I want to stay at home					
	3 Q3	I can't explain why I can't go to school					
	4 L2	When I get to school, I don't feel well when it comes time to go into the building					
	5 B1	In class, I'm scared of doing a bad job					
	6 11	I'm absent more often this year than last year					
	7 K3	I feel like I have a mental block when it comes to going to school, like I won't be able to					
	8 K2	In the morning, I don't want to go to school					
	9 J1	I often go to the school infirmary or administration office because I don't feel well					

SCREEN

18 items
5 points likert-scale
Global score from 18 to 90
Higher score – higher SR

Community sample of 624 adolescents (10-16 years old, M= 12,4, SD = 1,3, 58% girl)

SCREEN (Global Score)

SRAS

Avoidance od school-related stimuli Escape from aversive social-evaluative situation Pursuit of care from significant others Pursuit of tangible reinforces outside of school

Emotional and behavioral problems (CBCL-YSR)

Withdrawn

Somatic complaints

Anxious/depressed

Social Problems

Tought problems

Attention problems

Delinquent behavior

Aggresive behavior

Internalizing problems

Total problems

Absenteeism at school Absenteeism from school



Community sample of 624 adolescents (10-16 years old, M= 12,4, SD = 1,3, 58% girl)

SCREEN (Global Score)

Cohen (1988):

.10 = week

.30 = medium

.50 = strong

*** = p < .001

SRAS

Avoidance of school-related stimuli Escape from aversive social-evaluative situation Pursuit of care from significant others

Pursuit of tangible reinforces outside of school

Emotional and behavioral problems (CBCL-YSR)

Withdrawn

.53***

Somatic complaints

Anxious/depressed

Social Problems

Tought problems

Attention problems

Delinquent behavior

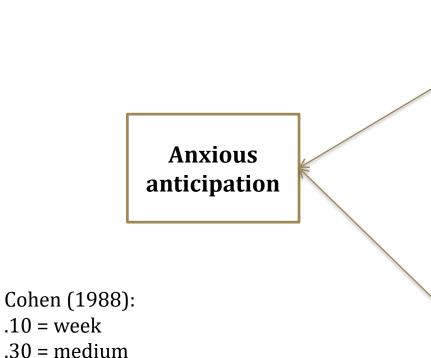
Aggresive behavior

Internalizing problems

Total problems

Absenteeism at school
Absenteeism from school





SRAS

Avoidance of school-related stimuli

Escape from aversive social-evaluative situation Pursuit of care from significant others Pursuit of tangible reinforces outside of school

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Withdrawn

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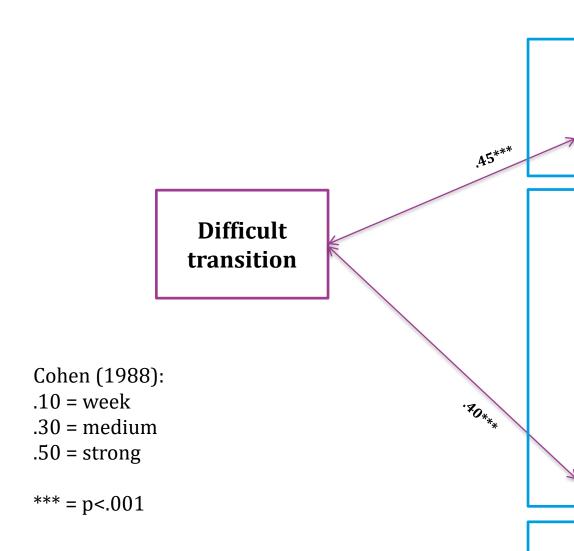
Total problems

Absenteeism at school
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SRAS

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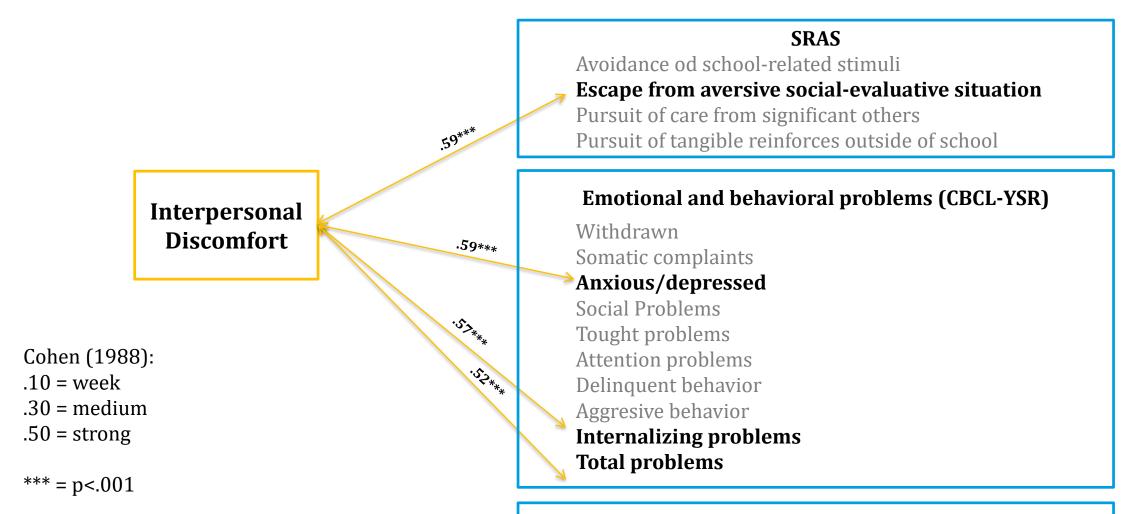
Aggresive behavior

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Absenteeism at school
Absenteeism from school





Absenteeism at school Absenteeism from school



SRAS

Avoidance od school-related stimuli

Escape from aversive social-evaluative situation

Pursuit of care from significant others

Pursuit of tangible reinforces outside of school

School Avoidance

Cohen (1988):

.10 = week

.30 = medium

.50 = strong

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Emotional and behavioral problems (CBCL-YSR)

Withdrawn

Somatic complaints

Anxious/depressed

Social Problems

Tought problems

Attention problems

Delinquent behavior

Aggresive behavior

Internalizing problems

Total problems

Absenteeism in school Absenteeism from school



IDENTIFICATION OF A CLINICAL SCORE

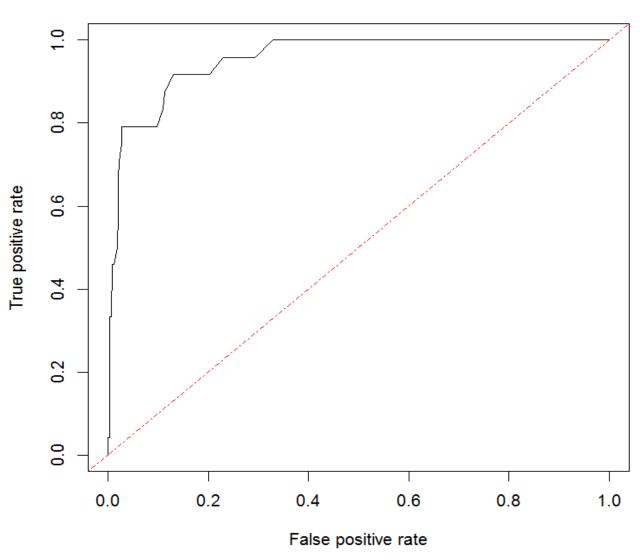
ROC Curve analysis; N = 655

Clinical Score = 41

Precision of the SCREEN = 96%

Sensibility = 94%

Specificity = 88%



Feedbacks from the field



Who use the SCREEN so far?

School's
professionals
(mainly nurses and
psychologists)

Psychologists and psychiatrists in private consultations

Care professionals outpatient service

Care professionals Inpatient service

Researchers

Pediatricians & family physicians

Social workers



Why they use the SCREEN?

Fast screening for prevention and/or early Baseline for CBT detection Diagnostic Measure in studies Therapeutic Alliance



USING THE SCREEN FOR EARLY SCREENING IN A SCHOOL

- Systematic utilization of the SCREEN in a French secondary school
- For every first year pupil

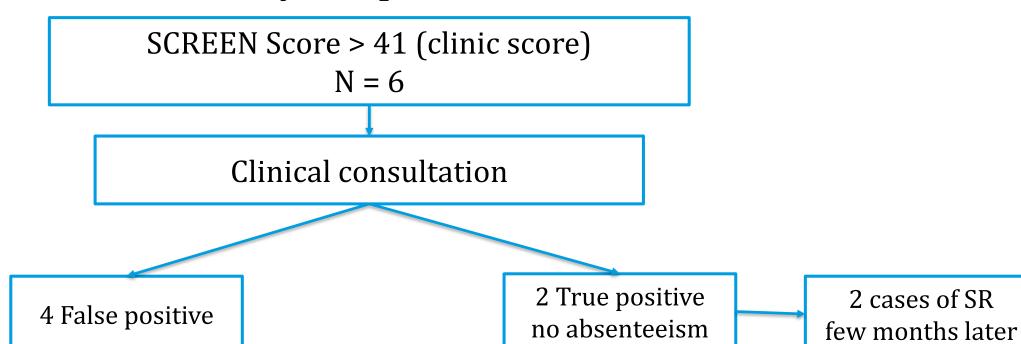
Goal: Fast screening for prevention and early detection of SR

 Project conducted by the psychologist of the school at the begining of the school year (around 2-3 months)



USING THE SCREEN FOR EARLY SCREENING IN A SCHOOL

N = 121 – school – community sample



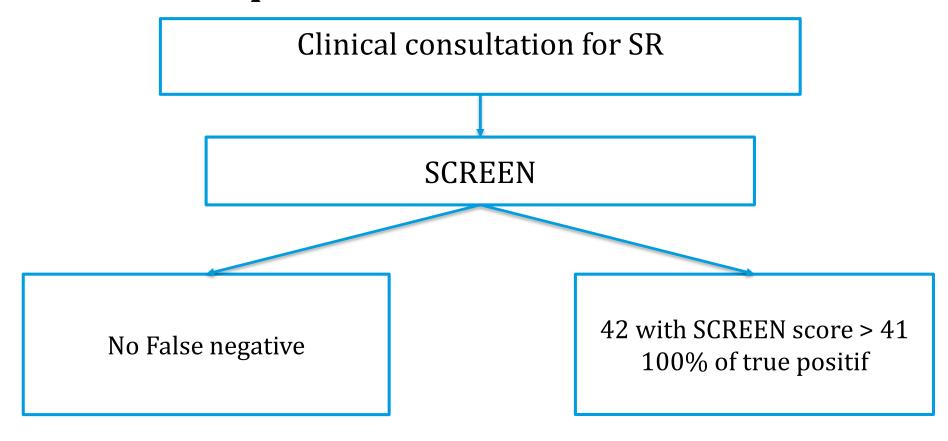
Conclusion: easy to use and quick - no require for a lot of resources

But: what to do next? What intervention? This will be our next step ...



USING THE SCREEN IN A CLINICAL PRACTICE

N = 42 – clinical sample





USING THE SCREEN

Conclusions of these two exemples of using the SCREEN

- SCREEN is very good for early diagnosis
- Better sensibility than specificity
- \circ Risk of over-diagnosis \rightarrow But is that an issue?



Conclusion



Benefits and limitations of the SCREEN

- Benefits:
- Self-questionnaire specific to SR
- Fast and easy to use
- Diagnosis score and dimensional score
- Several goals : diagnosis, screening, baseline in CBT...
- No absenteeism criteria, good for emerging cases of SR

- Limitations:
- Lack of replication and cross-culture validation
- Lack of information on the outcomes of this assessment (what is the evolution of the students detected?)



What next?

- We need to study children with "medium score"?
- What about other psychometric aspects of the SCREEN? (factors, reliability and stability of the measure during the therapy, test-retest, primary school...)
- > Translation, replication and cross-culture validation

English translation with help of Christian Stewart-Ferrer

Translation project

Iran (Dr. Minaei)

Turkish (Dr. Birlik)







Thank you for your attention

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Gallé-Tessonneau, M., & Gana, K. (2019). Development and Validation of the School Refusal Evaluation Scale for Adolescents, *Journal of Pediatric Psychology*, 44(2), 153-163.

https://doi.org/10.1093/jpepsy/jsy061

