




# The Assessment of Impairment with the Rating Scale of Impairment™ (RSI™): Introduction and Application

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# The Mixed Blessings of Something New



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# The Mixed Blessings of Something New



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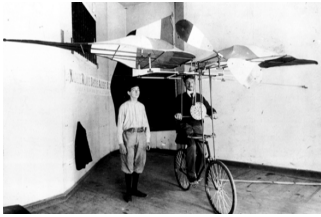
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### The Mixed Blessings of Something New



BSI

MHS

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### The Mixed Blessings of Something New



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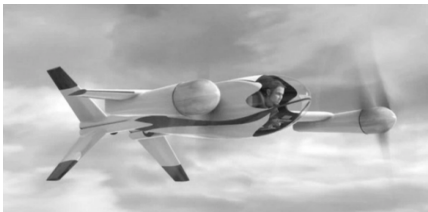
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### The Mixed Blessings of Something New



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### Today's Learning Objectives

Why evaluate impairment?



Overview of the conceptual bias of impairment

Define Impairment

What is the relationship between impairment and symptoms/ diagnoses

Review the data

Introduction to the RSI

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### We Are the First Congress on Defining Mental Illness (circa 1820)






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### How Do We Understand, Define And Categorize Mental Illness?



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## How Shall We Understand, Define and Categorize Mental Illness?

- By etiology or cause?
- By emotions, behaviors and thoughts?
- By impaired function in activities of life?




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Define symptoms?

Meet eligibility criteria?

## What is the Goal of a Comprehensive Evaluation?

Identify strengths and weaknesses?

Set baselines?




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**Why is the assessment of impairment critical to a comprehensive evaluation?**

**Why is direct observation (e.g. FuBA) so critical for school based assessment?**




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The relationship between symptoms and functioning remains unexpectedly weak and often bidirectional



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Clinicians are faced with emerging needs to...

- demonstrate the impact psychological and psychiatric diagnoses have on children and adults
- Measure impairment when using the IDEIA, DSM-5 or the ICD
- Navigate the increasing requirement to measure impairment effectively



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There is an increasing need to demonstrate functional impairment as part of a diagnostic process for medical, mental health, and even educational conditions



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## BACKGROUND & INTRODUCTION




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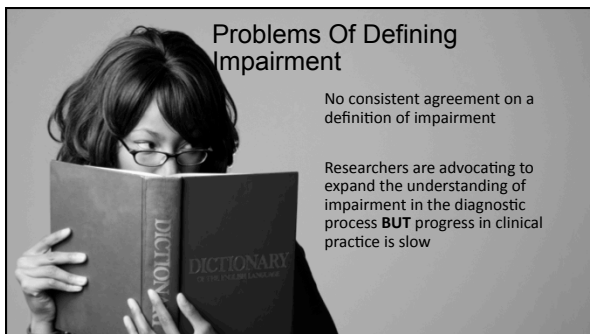
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### Problems Of Defining Impairment



No consistent agreement on a definition of impairment

Researchers are advocating to expand the understanding of impairment in the diagnostic process **BUT** progress in clinical practice is slow

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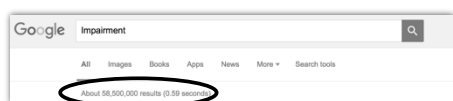
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As interest in impairment rises, so too do the number of resources available



How can we sort through all the research?




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## What Do The Associations Say?



The DSM-5 heavily emphasizes the role of impairment over and above symptom presentation



The term "functional impairment" is a concept that easily equates with disability in the World Health Organization's International Classification of Functioning, Disability and Health

DSM-5

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## What Does The Research Say?



- Patients who do not meet specific symptom criteria may be **just as impaired** and disrupted as the lives of individuals who meet various criteria
- Many who may meet symptom count for a specific diagnosis may not be significantly impaired
- It's not surprising that in both the DSM-IV-TR and DSM-5 a requirement of significant impairment is noted in more than **70%** of the disorders listed as a criterion for diagnosis

DSM-5

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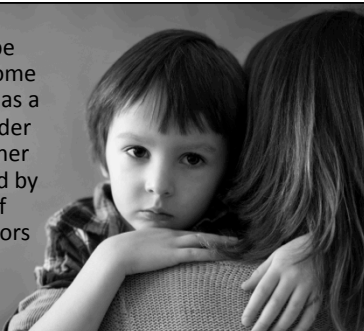
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Impairment can be viewed as the outcome of a risk factor such as a psychological disorder interacting with other variables manifested by a constellation of measurable behaviors




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## What Does It Mean To “Be Impaired”?



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## Let's Break It Down Further

- Variables within the family, community and broader culture may insulate or contribute to impairment
- Some symptoms in an algorithm model are more potent than others in predicting impairment
- At certain ages, gender may differentially affect the expression of some symptoms and the severity of functional impairment
- Impairment is also very clearly not appreciated on a linear continuum

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## Other Factors To Be Aware Of

- The relationship of a particular condition to levels of impairment is also not evenly distributed across a bell curve.
- Socioeconomic and minority status factors may impact the severity of impairment experienced
- Certain conditions may cause more or less impairment in certain settings

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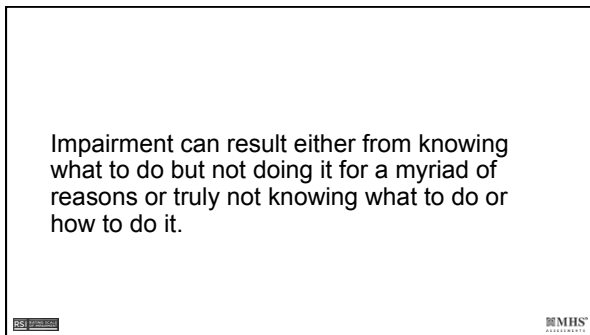
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Symptoms?      Severity?      Situation?

How do we define...

Adaptive behavior?      Disorder?      Disability?

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### Symptoms vs. Impairment


vs.


Inattention

Difficulty completing homework

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### Two More Factors To Consider

| <u>Severity</u> | <u>Situation</u>              |
|-----------------|-------------------------------|
| • Degree        | • Context                     |
| • Intensity     | • Instance                    |
| • Perception    | • Set of demands              |
| • Frequency     | • Moment to moment experience |
| • Suffering     | • Setting                     |
| • Duration      |                               |

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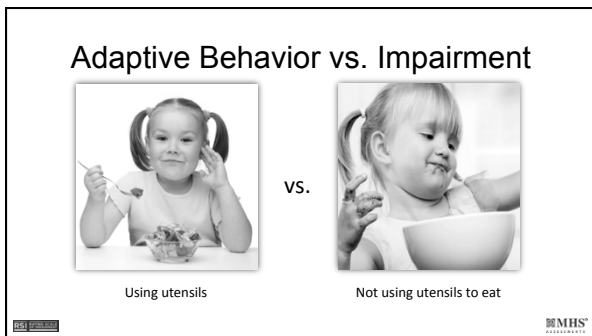
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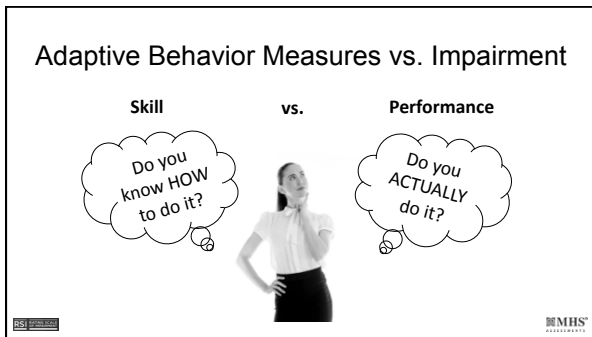
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### What Is A Disorder?

- ☐ A political phenomenon
- ☐ A collection of symptoms
- ☐ A deviation from the norm
- ☐ A disease
- ☐ A group of symptoms that significantly impairs functioning
- ☐ A subjective condition
- ☐ A collection of objective signs




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### What Is A Disability?

- ☐ A perceived inability to perform daily functions
- ☐ Persistent
- ☐ Legislated
- ☐ Sociopolitical
- ☐ Mental, physical or emotional
- ☐ Cultural




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### IDEIA Defines Disability As...

A child with an intellectual disability, a hearing impairment (including deafness), a speech or language impairment, a visual impairment (including blindness), a serious emotional disturbance, an orthopedic impairment, autism, traumatic brain injury, an other health impairment, a specific learning disability, deaf-blindness, or multiple disabilities




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### Child with a Disability

IDEIA defines this term as follows:

- (a) **General.** (1) Child with a disability means a child evaluated in accordance with §§300.304 through 300.311 as having an intellectual disability<sup>22</sup>, a hearing impairment (including deafness), a speech or language impairment, a visual impairment (including blindness), a serious emotional disturbance (referred to in this part as “emotional disturbance”), an orthopedic impairment, autism, traumatic brain injury, an other health impairment, a specific learning disability, deaf-blindness, or multiple disabilities, and who, by reason thereof, needs special education and related services.
- (2)(i) Subject to paragraph (a)(2)(iii) of this section, if it is determined, through an appropriate evaluation under §§300.304 through 300.311, that a child has one of the disabilities identified in paragraph (a)(1) of this section, but only needs a related service and not special education, the child is not a child with a disability under this part.

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### Americans With Disabilities Act

January 05, 2012 ADA Regulations: What is a Mental Impairment?

How can you be sure you're meeting ADA regulations for workers with mental conditions? Medically speaking, the term “mental illness” describes a plethora of mental and emotional disorders ranging from mild anxiety to more serious conditions that significantly interfere with major life activities such as learning, working, and simply communicating with others. Legally speaking, “mental illness” isn't quite as easy to define, yet under the ADA, employers are expected to reasonably accommodate employees who fall into this ambiguous category.

### Vocational Impairment

The individual has a significant **vocational impairment**; that is, a significant **impairment** of the ability to prepare for, obtain, or keep employment in an occupation consistent with his or her abilities, aptitudes, and interests, considering the factors described in §21.50 and paragraph (b) of this section.

§21.52

[www.benefits.va.gov/s21\\_5...](http://www.benefits.va.gov/s21_5...) United States Department of Veterans Affairs

The DSM-5 not only did not change this process but completely omitted any organized means of evaluating impairment!

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### Global Assessment Of Functioning

- Despite research suggesting that the GAF was valid and reliable (Pedersen and Karteruda, 2012), it was dropped from the DSM-5 reportedly for several reasons, including a lack of conceptual clarity and suggestions of questionable psychometrics (Canino, Fisher, Alegria and Bird, 2013).
- Instead, the authors of the DSM-5 suggest that the World Health Organization Disability Assessment Schedule (WHODAS) be included in the DSM-5 "for further study" (pg. 16).

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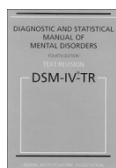
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### Assessing Impairment In The Eligibility Process



Global  
Assessment of  
Functioning  
(GAF) Scale



Global  
Assessment of  
Functioning  
(GAF) Scale



(Currently only for Adults)

**IDEA**  
Individuals with  
Disabilities Act  
(Revised as IDEA in 2004)

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**RSI** RATING SCALE OF IMPAIRMENT

Sam Goldstein, Ph.D. & Jack A. Naglieri, Ph.D.

TECHNICAL MANUAL 2nd EDITION

There is a valid and reliable way to assess Impairment.



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### Key Features Of The RSI




**Fast** completion time

**Age-appropriate** items

Assess youth ages **5 to 18 years**

Large representative **normative** sample

Assess impairment clearly **regardless of the diagnosis**



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### Key Features Of The RSI



Available in **Spanish**


Monitor **progress** across time

Satisfies the impairment criteria of the **DSM-5**

**Multiple raters** for a more accurate assessment

Assist in forming intervention and **treatment planning**

Aligned with **WHO's** domains of functioning found in **ICF**



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### Uses For The RSI

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### Rating Scale of Impairment (RSI) Forms

| RSI (5-12 Years)                                                        |  |                                                   |  | RSI (13-18 Years)                                                                         |  |                                                   |  |
|-------------------------------------------------------------------------|--|---------------------------------------------------|--|-------------------------------------------------------------------------------------------|--|---------------------------------------------------|--|
| Parent Form                                                             |  | Teacher Form                                      |  | Parent Form                                                                               |  | Teacher Form                                      |  |
| 41 Items                                                                |  | 29 Items                                          |  | 49 Items                                                                                  |  | 29 Items                                          |  |
| Total Score                                                             |  |                                                   |  | Total Score                                                                               |  |                                                   |  |
| <b>RSI Scales</b><br>School<br>Social<br>Mobility<br>Domestic<br>Family |  | <b>RSI Scales</b><br>School<br>Social<br>Mobility |  | <b>RSI Scales</b><br>School/Work<br>Social<br>Mobility<br>Domestic<br>Family<br>Self-care |  | <b>RSI Scales</b><br>School<br>Social<br>Mobility |  |

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### Relationship Between The RSI And Other Measures

RSI Total Score

Adaptive Behavior

-54 Adaptive Behavior Assessment System-II

Social-Emotional Competency

-71 Drexel Student Strength Assessment

Executive Function

-38 Comprehensive Executive Function Inventory

Psychopathology

-36 Connors CBRS – Confront Scales



-29 Connors CBRS – Symptom Scales

Ability & Achievement

-88 Wechsler Intelligence Scale for Children-IV

-86 Woodcock-Johnson III Tests of Achievement

-80 Cognitive Assessment System

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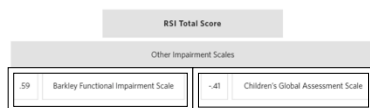
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### Relationship Between The RSI And Other Impairment Measures

- RSI and the Barkley Functional Impairment Scale (BFIS-CA)
  - Child Sample corrected  $r = .55$  to  $.67$
  - Youth Sample corrected  $r = .63$  to  $.71$
- RSI and the Children's Global Assessment Scale (CGAS)
  - Corrected  $r = -.34$  to  $-.51$



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These data support the conclusion that the RSI provides unique information not revealed through other measures.

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### Directions On The RSI

Child's Name/ID:  Page 2

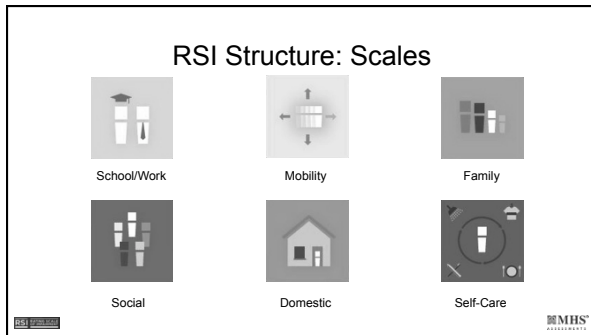
INSTRUCTIONS: Read each statement that follows the phrase, "During the past four weeks, how often has your child..." then circle the letter under the word that tells how often you saw the behavior. Read each question carefully, then mark how often you saw the behavior in the past four weeks. Answer every question without skipping any. If you want to change your answer, put an X through it and circle your new choice. Be sure to answer every question.

During the past four weeks, how often has your child...

| Never | Seldom | Sometimes | Often | Very Often |
|-------|--------|-----------|-------|------------|
|       |        |           |       |            |

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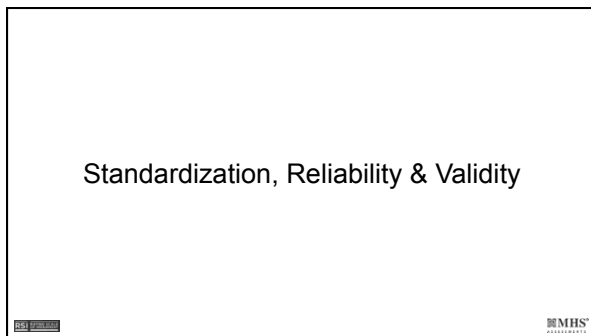
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### Standardization Sample

- Data collection took place from September 2012 to August 2014
- Data was collected in all 50 states
- Over 8,000 ratings were completed across the 4 RSI forms

| Parent<br>RSI 5-12 Years Form | Teacher<br>RSI 5-12 Years Form | Parent<br>RSI 13-18 Years Form | Teacher<br>RSI 13-18 Years Form | Normative Sample |
|-------------------------------|--------------------------------|--------------------------------|---------------------------------|------------------|
| 800                           | 800                            | 600                            | 600                             | 2,800            |

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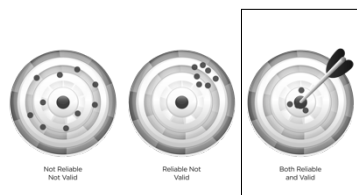
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### Excellent Psychometric Properties

Not Reliable  
Not ValidReliable Not  
ValidBoth Reliable  
and Valid

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### Internal Consistency

| RSI Scale   | Number of Items | Normative Sample | Clinical Sample |
|-------------|-----------------|------------------|-----------------|
| School/Work | 10              | .90 - .94        | .90 - .93       |
| Social      | 10              | .86 - .89        | .87 - .92       |
| Mobility    | 9               | .79 - .91        | .85 - .92       |
| Domestic    | 7               | .85              | .85 - .88       |
| Family      | 5               | .76 - .82        | .78 - .86       |
| Self-Care   | 8               | .75              | .83             |
| Total Score | 29-49           | .94-.95          | .94 - .96       |

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### Test-Retest Reliability

Assessed over a 2- to 4-week interval and within a general population sample

Total Score corrected  $r = .89$  to  $.96$ , RSI Scales corrected  $r = .85$  to  $.97$



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## Stability

84% to 99.3% of the difference between Time 1 and Time 2 fell with in +/- 10 T-score points



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## Rater Consistency

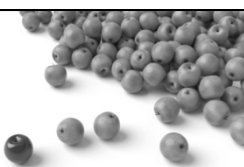
Looked at agreement between 2 parents or 2 teachers rating the same child

### Parent Raters:

- RSI Scales corrected  $r = .65$  to  $.87$
- RSI Total Score corrected  $r = .87$

### Teacher Raters

- RSI Scales corrected  $r = .56$  to  $.59$
- RSI Total Score corrected  $r = .77$



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## Content Validity

| RSI Scale   | RSI Definition                                                                                   | Example of Item Content                 | ICF Definition                             |
|-------------|--------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------|
| School/Work | Reflects impairment in acquiring or applying knowledge at school and/or work.                    | had trouble completing work?            | Education                                  |
| Social      | Indicates impairment when interacting and communicating with others.                             | asked for help when needed?             | Communication                              |
| Mobility    | Describes impairment when physically moving, such as running and kneeling.                       | had difficulty running?                 | Mobility                                   |
| Domestic    | Reflects impairment in the ability to complete chores and help around the house.                 | left dirty clothes on the floor?        | Domestic                                   |
| Family      | Indicates impairment when interacting with family.                                               | had fun with his/her family?            | Interpersonal Interactions & Relationships |
| Self-Care   | Describes impairment in the ability to care for oneself, such as feeding, dressing, and hygiene. | had difficulty feeding himself/herself? | Self-Care                                  |

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## Criterion-Related Validity

Will look at differences between mean score differences by clinical groups

This includes the following areas:

- Primary diagnosis
- Number of diagnoses



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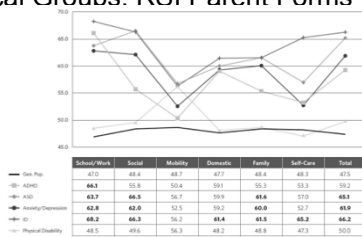
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## T-scores By General Population And Clinical Groups: RSI Parent Forms



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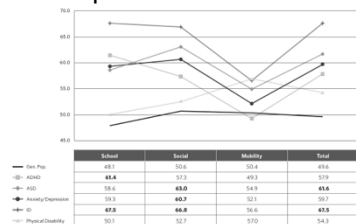
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## T-scores By General Population And Clinical Groups: RSI Teacher Forms



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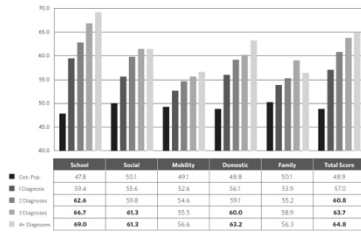
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Mean T-scores By General Population And Number Of Diagnoses: RSI (5–12) Parent Form



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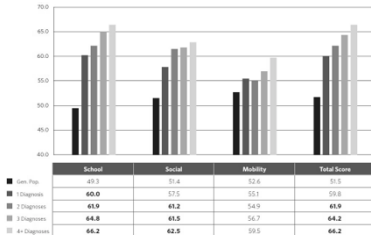
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Mean T-scores By General Population And Number Of Diagnoses: RSI (5–12) Teacher Form



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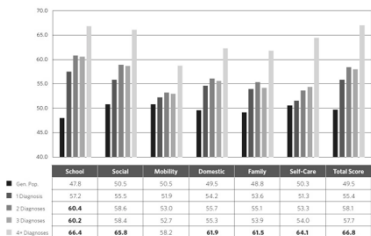
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Mean T-scores By General Population And Number Of Diagnoses: RSI (13–18) Parent Form



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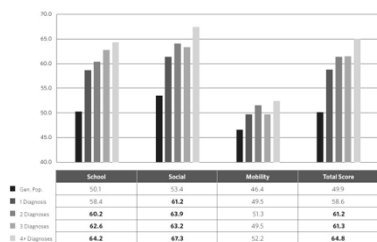
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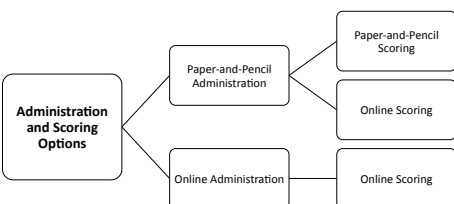
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Mean T-scores By General Population And Number Of Diagnoses: RSI (13–18) Teacher Form



## Administration, Scoring, & Interpretation



## MHS Online Assessment Center



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## MHS Online Assessment Center 1/3



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## MHS Online Assessment Center 2/3



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### MHS Online Assessment Center 3/3

**Option 3** Print the form for paper & pencil

- 1 The practitioner prints the assessment form for the youth or individual to bring to home, school, or office.
- 2 The parent, caregiver, teacher, or youth will then fill out this form and return to the practitioner.
- 3 The practitioner enters the responses and generates a scored report.

BSI **MHS**

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**Features of the RSI Reports**

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### Easy to Interpret Reports

Interpretive Report

Progress Monitoring and Treatment Effectiveness Report

Comparative Report

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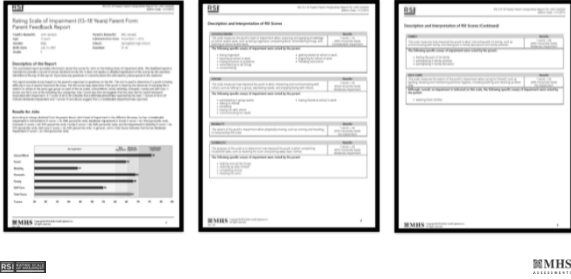
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## Interpretive Reports




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## Comparative Reports




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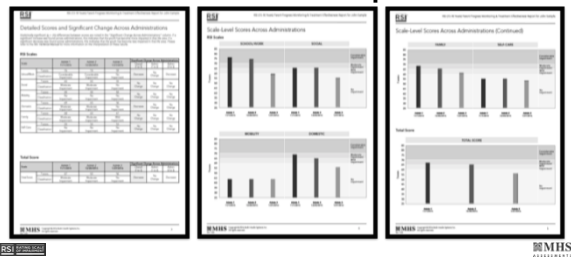
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## Progress Monitoring & Treatment Effectiveness Report




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## RSI Interpretation

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| T-score | Percentile Ranks | Classification          |
|---------|------------------|-------------------------|
| <60     | 1-82             | No Impairment           |
| 60-64   | 84-92            | Mild Impairment         |
| 65-69   | 93-97            | Moderate Impairment     |
| ≥ 70    | 98-99            | Considerable Impairment |

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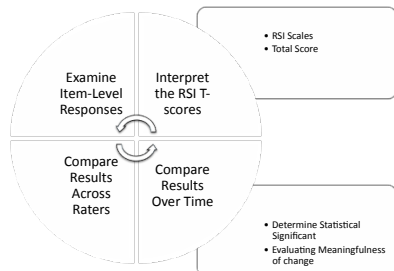
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## Case Study: Joey



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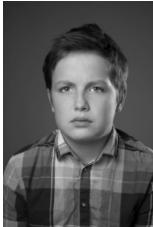
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## Joey

- 13 years old
- History of ADHD
- Described as extremely literal
- Misses social cues
- Socially isolated
- Referred to the school psychologist



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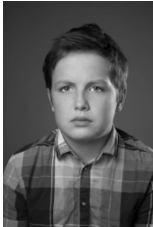
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## Joey: Assessment Plan

- Interviews with Joey's mother
- Complete the RSI and behavior checklists
- Administer neurological, intellectual, and achievement tests



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## Results of the Interview

- Joey's mother has not been satisfied with the effect of medical and educational intervention
- Joey appears to be advanced in some academic areas, but very behind in others
- Joey is passive and avoids social interactions
- At home, he demonstrates poor hygiene
- Refuses to complete household chores
- Joey displays disruptive behavior



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## Assessment Results

- Concerns in both home and school settings for emotional distress, social impairment, academic challenges, inattention, depression, and anxiety
- Achievement scores demonstrated average intellect with problems noted in Processing Speed, Planning, and Attention
- When assessed for reading, math, and written language, Joey was placed several grades below his current placement.



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## Results of the Parent RSI

| Scale       | Raw Score | T-score | 90% Confidence Interval | Percentile Rank | Classification          |
|-------------|-----------|---------|-------------------------|-----------------|-------------------------|
| School/Work | 42        | 85      | 77 to 86                | 99              | Considerable Impairment |
| Social      | 37        | 79      | 69 to 81                | 99              | Considerable Impairment |
| Mobility    | 2         | 47      | 42 to 53                | 38              | No Impairment           |
| Domestic    | 33        | 79      | 69 to 81                | 99              | Considerable Impairment |
| Family      | 13        | 63      | 54 to 67                | 90              | Mild Impairment         |
| Self-Care   | 24        | 85      | 68 to 85                | 99              | Considerable Impairment |
| Total Score | 438       | 81      | 76 to 83                | 99              | Considerable Impairment |

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## Treatment Plan for Joey

Areas of impairment as noted by Joey's Parent

| Scale       | Administration 1              | Administration 2          | Significant Change Across Administrations |
|-------------|-------------------------------|---------------------------|-------------------------------------------|
| School/Work | 85<br>Considerable impairment | 75<br>Moderate impairment | Decrease                                  |
| Social      | 79<br>Considerable impairment | 67<br>Moderate impairment | Decrease                                  |
| Mobility    | 87<br>No impairment           | 87<br>No impairment       | No Change                                 |
| Domestic    | 79<br>Considerable impairment | 62<br>Moderate impairment | Decrease                                  |
| Family      | 82<br>Moderate impairment     | 75<br>Moderate impairment | Decrease                                  |
| Self-Care   | 85<br>Considerable impairment | 75<br>Moderate impairment | No Change                                 |
| Total Score | 85<br>Considerable impairment | 75<br>Moderate impairment | Decrease                                  |



## Intervention Planning for Joey

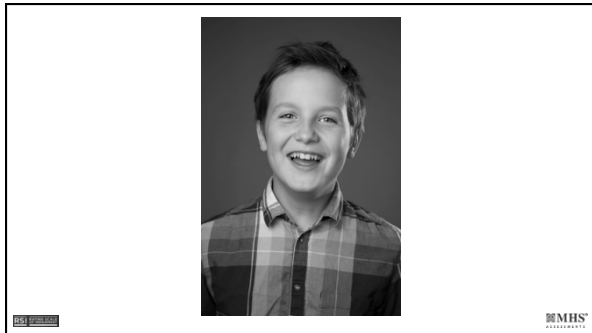
- Adjustments to medication dosage and administration time
- Parents worked with a behavioral consultant
  - Implemented a multi-level response cost behavioral program
- Revisions to Joe's IEP
- School psychologist worked with Joey in a social skills group



## Joey's Treatment Progress

| Scale       | Administration 1              | Administration 2          | Significant Change Across Administrations |
|-------------|-------------------------------|---------------------------|-------------------------------------------|
| School/Work | 85<br>Considerable impairment | 75<br>Moderate impairment | Decrease                                  |
| Social      | 79<br>Considerable impairment | 67<br>Moderate impairment | Decrease                                  |
| Mobility    | 87<br>No impairment           | 87<br>No impairment       | No Change                                 |
| Domestic    | 79<br>Considerable impairment | 62<br>Moderate impairment | Decrease                                  |
| Family      | 82<br>Moderate impairment     | 75<br>Moderate impairment | Decrease                                  |
| Self-Care   | 85<br>Considerable impairment | 75<br>Moderate impairment | No Change                                 |
| Total Score | 85<br>Considerable impairment | 75<br>Moderate impairment | Decrease                                  |





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## Case Study: Megan

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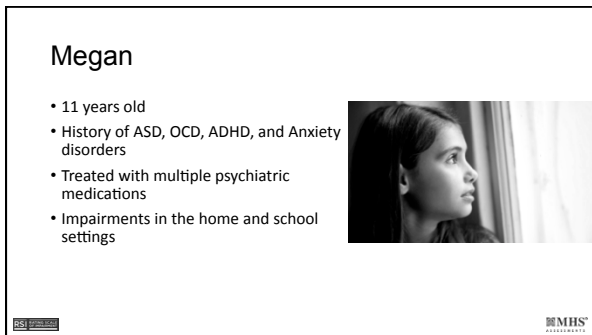
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## Megan

- 11 years old
- History of ASD, OCD, ADHD, and Anxiety disorders
- Treated with multiple psychiatric medications
- Impairments in the home and school settings

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## Megan: Assessment Plan

- Interviews with Megan's parents and her teacher
- Complete the RSI and behavior checklists
- Administer neurological, intellectual, and achievement tests



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## Results of the Parent Interview

- Megan is the second of four children
- Megan was a difficult child.
- She receives special education service
- She has difficulty concentrating and following instructions, is often very disorganized, and loses her belongings.
- She is also very uncooperative at home
- Megan displays a range of disruptive and non-disruptive behaviors



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## Results of the Teacher Interview

- Megan's teachers have also noted a number of areas of impairment



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## Assessment Results

- Megan scored lower on the working memory domain of the WISC-IV and Planning and Successive Scales of the CAS2.
- Parent and teacher reports for behavior characteristic of executive functioning assessed with the Comprehensive Executive Function Inventory (CEFI; Naglieri & Goldstein, 2013) noted symptoms as well, particularly with behaviors related to attention, organization, planning, and self-monitoring.



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## Results of the RSI

| RSI Scales                            |                |                         |                                                    |
|---------------------------------------|----------------|-------------------------|----------------------------------------------------|
| Scale                                 |                | Parent                  | Teacher                                            |
| School                                | T-scores       | 81                      | 71                                                 |
|                                       | Classification | Considerable Impairment | Considerable Impairment                            |
| Social                                | T-scores       | 68                      | 62                                                 |
|                                       | Classification | Moderate Impairment     | Mild Impairment                                    |
| Mobility                              | T-scores       | 45                      | 49                                                 |
|                                       | Classification | No Impairment           | No Impairment                                      |
| Domestic                              | T-scores       | 74                      | Domestic scale does not appear on the Teacher Form |
|                                       | Classification | Considerable Impairment | No comparison possible                             |
| Family                                | T-scores       | 66                      | Family scale does not appear on the Teacher Form   |
|                                       | Classification | Moderate Impairment     | No comparison possible                             |
| Total Score                           |                |                         |                                                    |
| Scale                                 |                | Parent                  | Teacher                                            |
| School                                | T-scores       | 72                      | 61                                                 |
|                                       | Classification | Considerable Impairment | Mild Impairment                                    |
| Significant Difference Between Raters |                |                         |                                                    |
| No significant difference             |                |                         |                                                    |
| No significant difference             |                |                         |                                                    |
| No comparison possible                |                |                         |                                                    |
| No comparison possible                |                |                         |                                                    |

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## Treatment Plan for Megan

Areas of impairment as noted by Megan's parents and teachers

| Parent                                                                                                                                                                                                                                                                                                                                      | Teacher                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>1. Attention</li> <li>2. Organization</li> <li>3. Planning</li> <li>4. Self-monitoring</li> <li>5. Working memory</li> <li>6. Inhibition</li> <li>7. Flexibility</li> <li>8. Emotion regulation</li> <li>9. Social skills</li> <li>10. Mobility</li> <li>11. Domestic</li> <li>12. Family</li> </ul> | <ul style="list-style-type: none"> <li>1. Attention</li> <li>2. Organization</li> <li>3. Planning</li> <li>4. Self-monitoring</li> <li>5. Working memory</li> <li>6. Inhibition</li> <li>7. Flexibility</li> <li>8. Emotion regulation</li> <li>9. Social skills</li> <li>10. Mobility</li> <li>11. Domestic</li> <li>12. Family</li> </ul> |
| Parent                                                                                                                                                                                                                                                                                                                                      | Teacher                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>1. Attention</li> <li>2. Organization</li> <li>3. Planning</li> <li>4. Self-monitoring</li> <li>5. Working memory</li> <li>6. Inhibition</li> <li>7. Flexibility</li> <li>8. Emotion regulation</li> <li>9. Social skills</li> <li>10. Mobility</li> <li>11. Domestic</li> <li>12. Family</li> </ul> | <ul style="list-style-type: none"> <li>1. Attention</li> <li>2. Organization</li> <li>3. Planning</li> <li>4. Self-monitoring</li> <li>5. Working memory</li> <li>6. Inhibition</li> <li>7. Flexibility</li> <li>8. Emotion regulation</li> <li>9. Social skills</li> <li>10. Mobility</li> <li>11. Domestic</li> <li>12. Family</li> </ul> |
| Parent                                                                                                                                                                                                                                                                                                                                      | Teacher                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>1. Attention</li> <li>2. Organization</li> <li>3. Planning</li> <li>4. Self-monitoring</li> <li>5. Working memory</li> <li>6. Inhibition</li> <li>7. Flexibility</li> <li>8. Emotion regulation</li> <li>9. Social skills</li> <li>10. Mobility</li> <li>11. Domestic</li> <li>12. Family</li> </ul> | <ul style="list-style-type: none"> <li>1. Attention</li> <li>2. Organization</li> <li>3. Planning</li> <li>4. Self-monitoring</li> <li>5. Working memory</li> <li>6. Inhibition</li> <li>7. Flexibility</li> <li>8. Emotion regulation</li> <li>9. Social skills</li> <li>10. Mobility</li> <li>11. Domestic</li> <li>12. Family</li> </ul> |
| Parent                                                                                                                                                                                                                                                                                                                                      | Teacher                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>1. Attention</li> <li>2. Organization</li> <li>3. Planning</li> <li>4. Self-monitoring</li> <li>5. Working memory</li> <li>6. Inhibition</li> <li>7. Flexibility</li> <li>8. Emotion regulation</li> <li>9. Social skills</li> <li>10. Mobility</li> <li>11. Domestic</li> <li>12. Family</li> </ul> | <ul style="list-style-type: none"> <li>1. Attention</li> <li>2. Organization</li> <li>3. Planning</li> <li>4. Self-monitoring</li> <li>5. Working memory</li> <li>6. Inhibition</li> <li>7. Flexibility</li> <li>8. Emotion regulation</li> <li>9. Social skills</li> <li>10. Mobility</li> <li>11. Domestic</li> <li>12. Family</li> </ul> |

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## Intervention Planning for Megan

- Megan qualified for an individual aid at school
- Megan's family referred for in-home behavioral therapy
- Megan began working with a cognitive therapist on a weekly basis
- A response cost point system was implemented at school
- No changes were made to Megan's medication regimen



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## Megan's Treatment Progress: Parent Report

| RSI Scales  |                |                         |                         |                                           |
|-------------|----------------|-------------------------|-------------------------|-------------------------------------------|
| Scale       |                | Administration 1        | Administration 2        | Significant Change Across Administrations |
| School      | T-Score        | 85                      | 58                      | Decrease                                  |
|             | Classification | Considerable impairment | No impairment           |                                           |
| Social      | T-Score        | 68                      | 58                      | Decrease                                  |
|             | Classification | Moderate impairment     | No impairment           |                                           |
| Mobility    | T-Score        | 45                      | 45                      | No Change                                 |
|             | Classification | No impairment           | No impairment           |                                           |
| Domestic    | T-Score        | 74                      | 72                      | No Change                                 |
|             | Classification | Considerable impairment | Considerable impairment |                                           |
| Family      | T-Score        | 64                      | 64                      | No Change                                 |
|             | Classification | Moderate impairment     | Moderate impairment     |                                           |
| Total Score |                |                         |                         |                                           |
| Total Score | T-Score        | 72                      | 67                      | Decrease                                  |
|             | Classification | Considerable impairment | Mild impairment         |                                           |

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## Megan's Treatment Progress: Teacher Report

| RSI Scales  |                |                         |                  |                                           |
|-------------|----------------|-------------------------|------------------|-------------------------------------------|
| Scale       |                | Administration 1        | Administration 2 | Significant Change Across Administrations |
| School      | T-Score        | 71                      | 58               | Decrease                                  |
|             | Classification | Considerable Impairment | No Impairment    |                                           |
| Social      | T-Score        | 42                      | 58               | No Change                                 |
|             | Classification | Mild Impairment         | No Impairment    |                                           |
| Mobility    | T-Score        | 49                      | 44               | No Change                                 |
|             | Classification | No Impairment           | No Impairment    |                                           |
| Total Score |                |                         |                  |                                           |
| Scale       |                | Administration 1        | Administration 2 | Significant Change Across Administrations |
|             | T-Score        | 64                      | 54               | Decrease                                  |
| Total Score | Classification | Mild Impairment         | No Impairment    |                                           |

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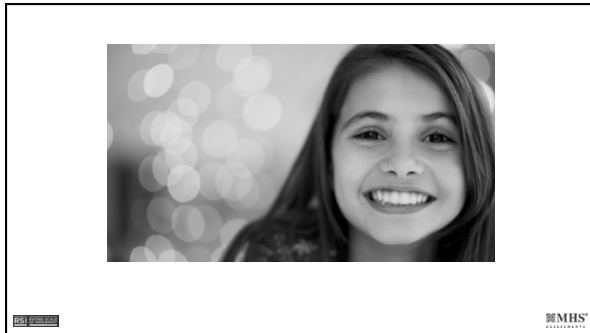
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### Conclusions

- Symptoms, diagnoses, tests and classifications alone do not provide a complete measure of functional impairment.
- Impairment can be defined and measured in children
- Functional impairment can be accurately measured with the Rating Scale of Impairment (RSI).
- The RSI offers a valid, reliable, comprehensive measure of daily functional challenges within a factor analyzed framework built on the WHODAS categories.
- Assessment of and treatment monitoring of impairment offers an important advance in assessment



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