Behavior assessment in RtI: Considerations when selecting assessment tools

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Purpose

 Review strengths and limitations of different school-based behavior methods within a multi-tiered model of assessment

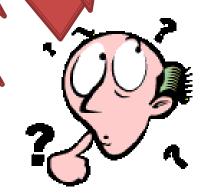
Why should we care about social behavior outcomes?

Educators indicate spending a disproportionate amount of time responding to significant behavior challenges presented by a small number of students (U.S. Dept. of Ed., 2000)

1 in 5 children has mental

School discipline is a top concern by the American public (Rose & Gallup,

2005) 7.5. Surgeon eral, 1999)



How do we design systems to support behavior success?

Response to Intervention (RTI)

An assessment and intervention process for systema y monitoring student progress and making data-based decisions about the need for instructional modifications or increasingly intensified services (see www.rti4success.org).

Original logic: Public health & disease prevention (Larson, 1994)

Tertiary (FEW)

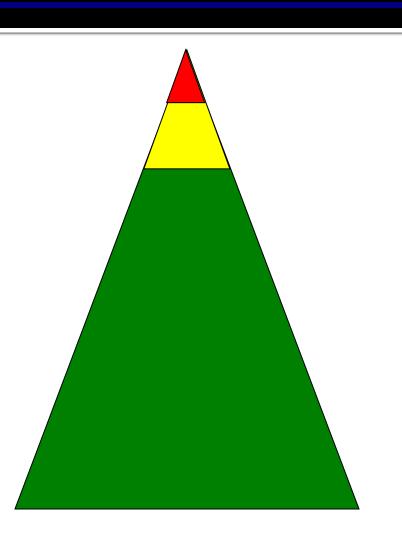
Reduce complications, intensity, severity of current cases

Secondary (SOME)

Reduce **current** cases of problem behavior

Primary (ALL)

Reduce **new** cases of problem behavior



Examples of Positive OUTCOMES across Tiers within Domains of Social Behavior

- IEP or other student-specific behavior goal related to acquisition of appropriate social skills
- Student-specific behavior goal related to decrease in problem behavior Deliavior of Student body
- Decreases in number of students referred for an evaluation for behavior related disorders







Universal

Great... So why can't we just implement good practices?

- ... but then, how will you know what you are doing is working?
 - To make effective decisions about which practices are needed and then to evaluate the outcomes of those practices, you need **DATA**!

Statement of the Problem

Developing evidence-based assessment (EBA) begins through <u>a priori</u> delineation of

- a) the purposes of assessment, and then
- b) identification of the special requirements for each purpose (and associated criteria for stating when requirement is met)

Commentary by Kazdin (2005)

Statement of the Problem

A Few Caveats to Establishing EBA (Kazdin, 2005):

- Absence of a gold standard criterion
- One measure can't do it all
 - Multiple measures are needed to evaluate different facets
- Co-morbidity of "problems"
 - What are the most relevant problem features?
- Multiple perspectives are valuable yet agreement may (will) be low!



Purposes of Assessment

- Screening
 - Who needs help?
- Diagnosis
 - Why is the problem occurring?
- Progress Monitoring
 - Is intervention working?
- Evaluation
 - How well are we doing overall?

Emphasized by the National Center on Response to Intervention

Examples of school-based DATA sources for social behavior

ALL BELOW plus functional assessment data

ALL BELOW plus...

- Norm-referenced comparison data
- More detailed profiles of students' strengths/weaknesses
- Formative data sources sensitive to incremental change

EFFICIENT, EXTANT SOURCES such as...

- Total number of office discipline referrals
- Number of students who are suspended or expelled
- Number students referred or found eligible for special education, particularly in the area of emotional disturbance

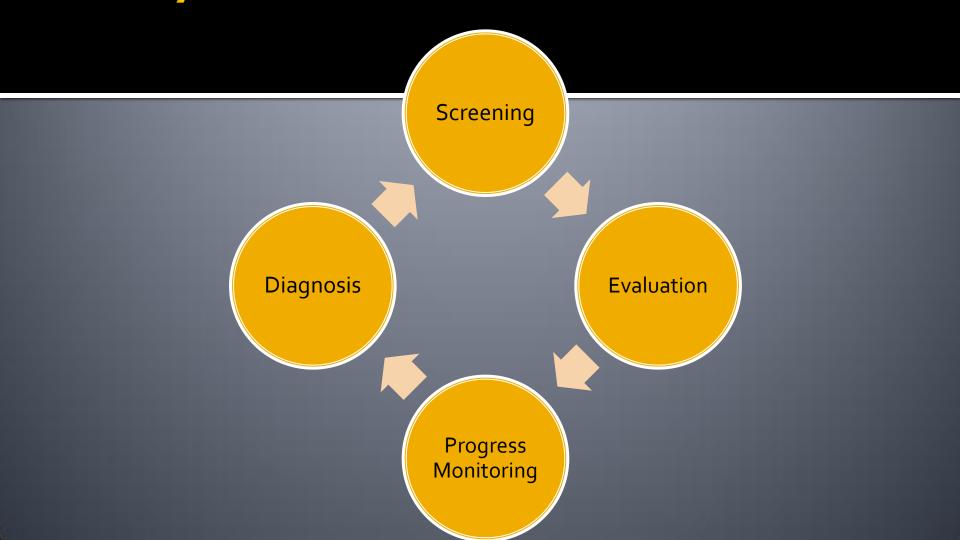


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Targeted

Universal

What behavioral data sources do you use?

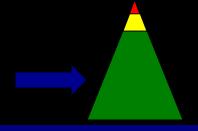


Sources of School-Based Data on Social Behavior

- Extant data
- Standardized behavior rating scales
- Systematic direct observation
- Direct Behavior Rating

Currently dominate in clinic and research

Extant Data



Definition:

 Data sources that already exist within the setting ("permanent products")

Advantages:

- Already available
- Highly contextually relevant
- Natural occurrence can reduce/limit reactivity

(Adapted from Chafouleas, Riley-Tillman, & Sugai, 2007)

Extant data

Examples:

- Office discipline referrals (ODRs)
- Attendance and tardy records
- Suspension/expulsion data
- Special education data (e.g. referrals for emotional disturbance)
- Data from existing behavior management plans (e.g. token economy)

What is an ODR?

"an event in which (a) a student engaged in a behavior that violated a rule/social norm in the school, (b) a problem behavior was **observed by** a member of the **school staff**, and (c) the event resulted in a consequence delivered by administrative staff who produced a permanent (written) produce defining the whole event" (Sugai, Horner, & Walker, 2000, p. 96)

CMSD OFFICE REFERRAL FORM

rimea.m. / p.m.	aue. K i Z 3	4 5 6 7 8
	allwayClassroom usicGym	Library other
Others involved: None S	Staff Teacher	Substitute Other
If peers were involved, list them:		
Referring Staff:		
Problem Behavior	Possible Motivation	Action Taken in Classroom
Minor: Classroom Infractions ☐ Inappropriate Verbal Language ☐ Physical Contact	□ Obtain Peer Attention	□ Loss of Privilege/Points
☐ Defiance/Disrespect/Non- compliance	□ Obtain Adult Attention	□ Conference with Student
☐ Disruption ☐ Lying/ cheating	☐ To Obtain Items/	□ Parent Contact
□ Dress Code Violation□ Classroom Transition Tardy	☐ Avoid Adult	□ Individualized Instruction
□ Other	☐ Avoid Peer(s)	□ Detention
Major: Administrative Referral Abusive /Inappropriate Language	☐ Avoid Task or Activity	□ Mediation
☐ Fighting /Physical Aggression ☐ Defiance/Disrespect/Noncompliance	□ Avoid Work	□ Restitution
☐ Harassment /Bullying ☐ Flagrant Disruption	☐ Unclear/Don't Know	□ Time out
□ Skip Class /Truancy □ Property Damage	☐ Unknown Motivation	□ Shuffle
☐ Forgery /Theft ☐ Use /Possession	□ Other Motivation	□ Other (i.e. Contracting)
TobaccoAlcohol Drugs		
☐ Bomb Threat/ False Alarm ☐ Arson	Additional Comments:	
☐ Use/ Possession of Weapons☐ Other Behavior		
☐ Unknown Behavior		

Targets of assessment

MAJOR

- Abusive Language/ Inappropriate Language/ Profanity
- Arson
- Bomb Threat/ False
 Alarm
- Defiance/Disrespect/ Insubordination/
- Non-Compliance
- Disruption
- Dress Code Violation
- Fighting/ Physical Aggression
- Forgery/Theft
- Gang Affiliation Display
- Harassment/Bullying
- Inappropriate Display of Affection
- Inappropriate Location/ Out of Bounds

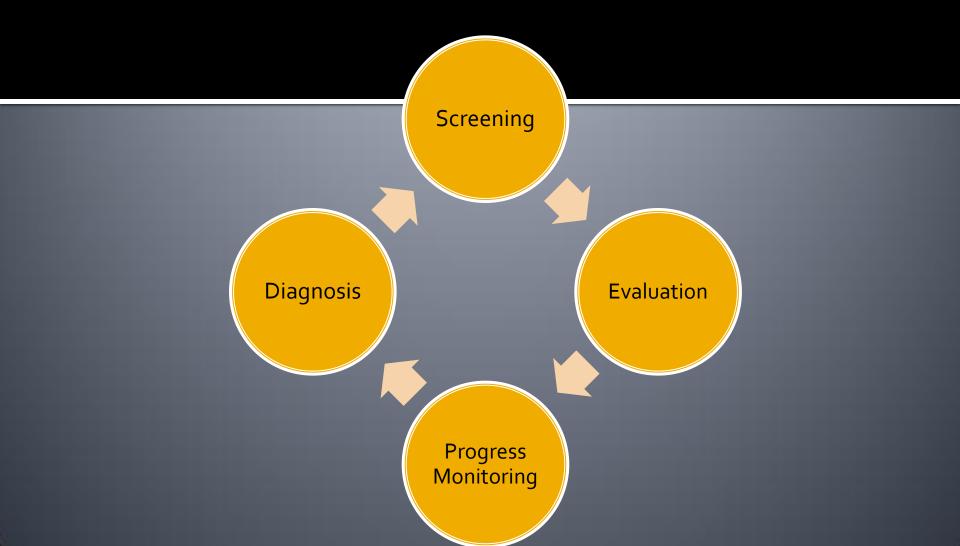
- Lying/Cheating
- Other Behavior
 - PropertyDamage/Vandalism
 - Skip class
 - Truancy
 - Tardy
- Technology Violation
 - Unknown
- Use/Possession of Alcohol
 - Use/Possession of Combustibles
- Use/Possession of Drugs
- Use/Possession of Tobacco
- Use/Possession of Weapons

MINOR

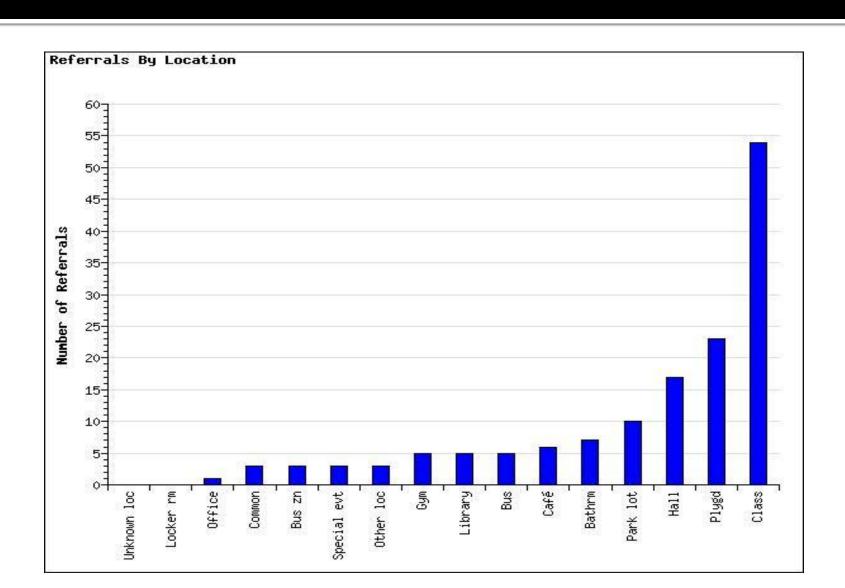
- Defiance/Disrespect/ Non-compliance
- Disruption
- Dress Code Violation
- Inappropriate Language
- Other
- Physical Contact/ Physical Aggression
- Property Misuse
- Tardy
- Technology Violation
- Unknown

Source: 2009-10 Referral Definitions www.swis.org

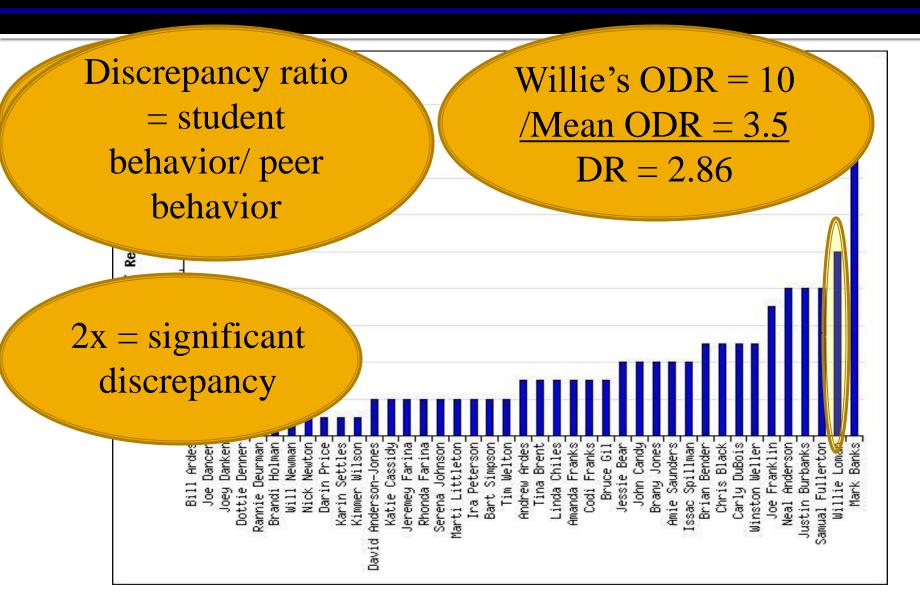
How might extant data be used?



System-wide screening



Screening/Diagnosis



Screening example

Staff at West High School note concern about the number of fights occurring among students.

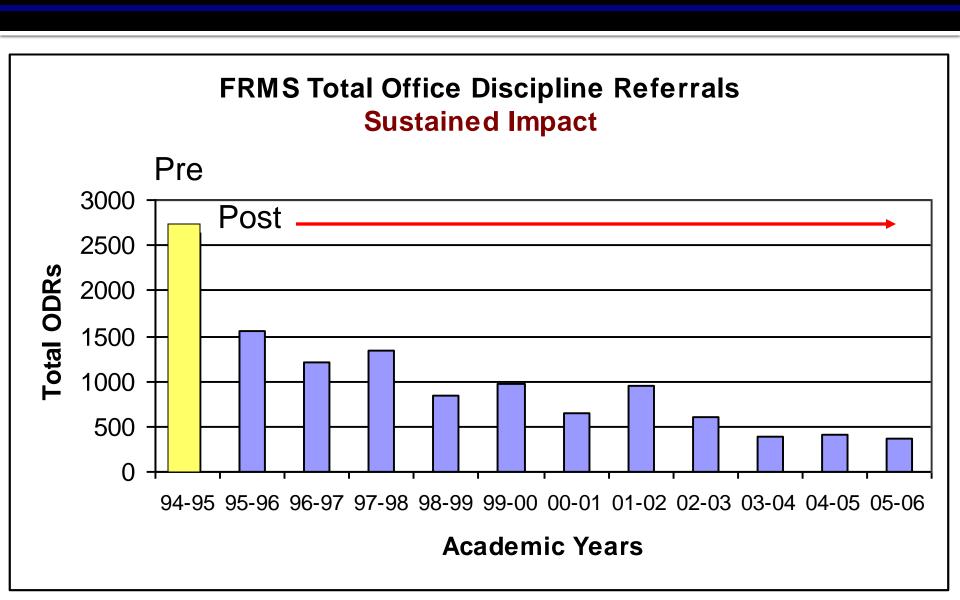
Staff are re-assigned to increase levels of active supervision in those areas at key times.

ODRs over the past 2 months are reviewed

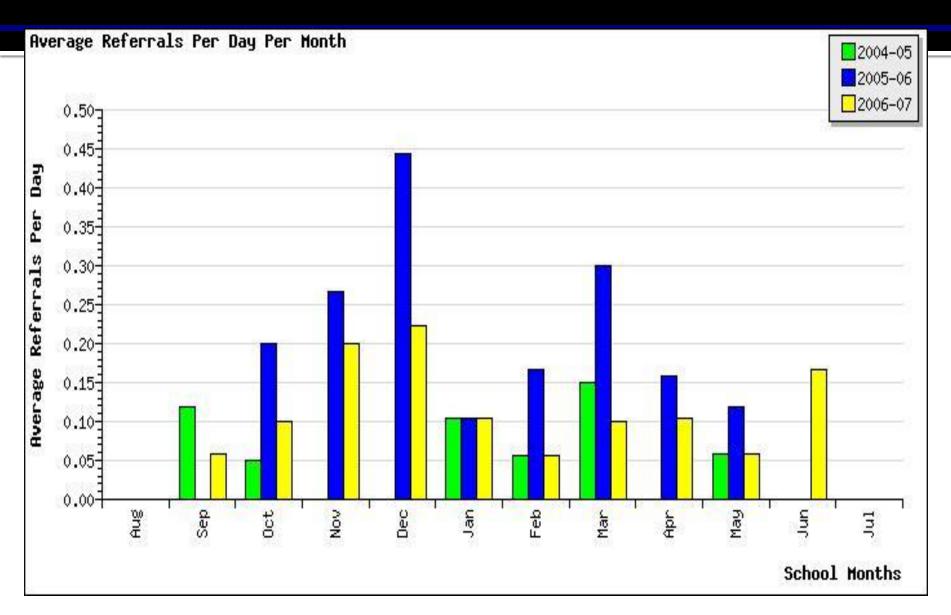
"Johnny and Sam" are brought to Behavior Support Team for additional support planning.

Review revealed a) most fighting incidents are occurring outside cafeteria and in bus loading area AND b) Johnny and Sam are the most likely culprits.

Evaluation



Progress Monitoring



Example for diagnosis with ODR?

Benefits & Limitations of Extant Data

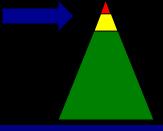
- Complements other sources in providing contextually relevant information
- Source of progress monitoring information
- Less resourceintensive (data readily available!)

- Limited application within <u>prevention</u>
- Tough to establish and maintain consistent/ accurate use.
- Unknown psychometric adequacy
- Challenging to create a system for efficient organization and interpretation

Extant data – summary

- Screening yes, but may be limited in prevention/early intervention roles
- Progress monitoring yes, but creating usable system for interpretation/presentation can be challenging
- Diagnosis maybe, with regard to adding contextual relevance
- Evaluation yes, relevance within the specific setting but limited with regard to norm comparisons

Behavior Rating Scales



Definition:

Tools that require an individual to rate the behavior of another based on past observation of that person's behaviors (Kratochwill, Sheridan, Carlson, & Lasecki, 1999).

Examples:

- Behavior Assessment System for Children 2 (BASC-2)
- Achenbach System of Emprically-Based Assessment (e.g. CBCL)
- Conner's Rating Scales 3
- Social Skills Intervention System (SSIS)

Scope of the scale

- Comprehensive scales: large number of items (often 100+) that cluster together to assess a wide range of behaviors
 - "General purpose" (Merrell, 2008)
 - Often include broadband and narrow-band syndromes (Ramsey, Reynolds & Kamphaus, 2002).
- Narrow band scales: focused on one or two behavioral constructs
 - Attention (Brown ADD Scales; Brown, 2001)
 - Adaptive behavior (Vineland-II; Sparrow, Balla, & Cicchetti, 1984)



Rating Scales
Teacher
Hand-Scoring
Form

Frank M. Gresham, PhD, and Stephen N. Elliott, PhD

Problem Behaviors:

Externalizing
Bullying
Hyperactivity/Inattention
Internalizing
Autism Spectrum

Please assess this student's academic or learning behaviors in your classroom. Compare this student with other students

Social Skills:

Communication
Cooperation
Assertion
Responsibility
Empathy
Engagement
Self-Control

How Important: n - not important i - important C - critical Please mark Social Sk 21. Stays calm when teased. 11. Stands up for herself/himself N S O A 1. Asks for help from adults. NSOA when treated unfairly. n i c n i c 22. Acts responsibly when with N S O A 2. Follows your directions. N S O A 12. Participates appropriately in class. n i c n i c 23. Joins activities that have 13. Feels bad when others N S O A 3. Tries to comfort others. NSOA already started. are sad. n i c n i c 24. Says "thank you." N S O A N S O A 14. Speaks in appropriate tone 4. Says "please." of voice. n i c n i c N S O A 25. Expresses feelings when 15. Says when there is a problem. 5. Questions rules that may N S O A be unfair. n i c n i c 26. Takes care when using other 16. Takes responsibility for her/his N S O A 6. Is well-behaved when N S O A people's things. unsupervised. own actions. n i c n i c 27. Ignores classmates when th N S O A 7. Completes tasks without NSOA 17. Pays attention to your are distracting. bothering others. instructions. nic n i c 28. Is nice to others when they N S O A N S O A 18. Shows kindness to others 8. Forgives others. are feeling bad. when they are upset. n i c n i c 29. Invites others to join in 19. Interacts well with other NSOA 9. Makes friends easily. N S O A activities n i c N S O A 20. Takes turns in conversations. N S O A 30. Makes eye contact when 10. Responds well when others start a conversation or activity. n i c **Problem Bel** 59. Breaks into or stops group 53. Fidgets or moves around 47. Acts without thinking. activities. too much. 60. Repeats the same thing ove 48. Is preoccupied with object 54. Has stereotyped motor 61. Is aggressive toward people N S O 55. Forces others to act against 49. Bullies others. or objects. their will 62. Gets embarrassed easily. 56. Withdraws from others. 50. Becomes upset when routines change. 63. Cheats in games or activitie 57. Has temper tantrums. 51. Has difficulty waiting for turn. SOA 58. Keeps others out of social N S O A 64. Acts lonely. 52. Does things to make others feel scared. **Academic Con** (for students from kindergarten through Grade 12) 77. Compared with other students in 79. In mathematics, how does this student compare with my classroom, the overall academic

performance of this student is:

student compare with other

78. In reading, how does this

students?

Remember:

Next Lowest

Lowest

Middle

Next Highest

Highest

10%

other students?

80. In terms of grade-level

skills in reading are:

expectations, this student's

1 2 3 4 5

Remember: How Often: N - Never S - Seldom O - Often A - Almost Always

Children's Depression Inventory (Kovacs, 1992)

Ages 7-17 27 items (2 week reflection)

Negative mood

I am sad... once in a while all the time Interpersonal Problems

I like being with people

I do not want to be with people at all

Ineffectiveness

I do most things... O.K.

wrong

Anhedonia

I am tired...
Once in awhile
all the time

Negative Self Esteem

Hook O.K.

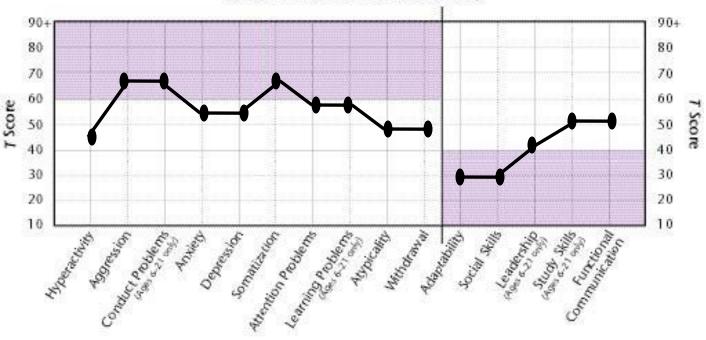
Multidimensional Anxiety Scale for Children (MARCH, 1997)

Scale	Item Example
Physical Symptoms	I have pains in my chest My hands feel sweaty or cold
Harm Avoidance	I check to make sure things are safe I worry about doing something stupid or embarrassing
Social Anxiety	I have trouble asking other kids to play with me I worry about other people laughing at me
Separation/Pa nic	I keep the light on at night I avoid going places without my family

Example BASC-2 Score Profile

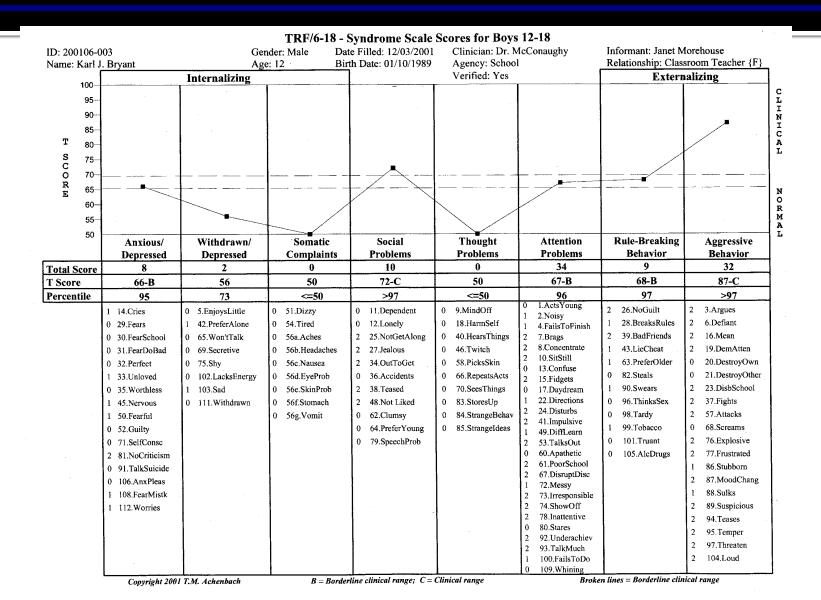
Summary Chart of TRS Scale Scores

Possible Problem Areas (Shaded Areas)



Scales

Example: ASEBA TRF Score Profile



What assessment purpose(s) do we typically use broadband scales for?

But what about screening and progress monitoring?

BASC-2 Behavioral and Emotional Screening System (BESS)

Instructions:

Listed below are phrases that describe how children may act. Please read each phrase, and mark the response that describes how this child has behaved recently (in the last several months).

Mark N if the behavior never occurs.

Mark s if the behavior sometimes occurs.

Mark o if the behavior often occurs.

Mark (A) if the behavior almost always occurs.

Please mark every item. If you don't know or are unsure of your response to an item, give your best estimate.

A "Never" response does not mean that the child "never" engages in a behavior, only that you have not observed the child to behave that way.

Before starting, please fill in the information in the boxes on the first two pages of this form.

Mark	: N—Never	S—Sometimes	O—Often	A— <i>A</i>	Almos	st alw	ays
1.	Pays attention			N	S	0	A
2.	Disrupts the play	of other children		N	S	0	A
3.	Is easily upset			N	S	0	A
		l			S	0	A
5.	Politely asks for he	elp		N	S	0	A
6.	Has poor self-con	trol		N	S	0	A

T score 61-70 =
elevated risk
T score 71+ =
highly elevated risk

7. Is sad	5.	Hits other children
11. Worries about things that 12. Volunteers to help with the 13. Annoys others on purpos 14. Is easily frustrated 15. Acts out of control 16. Defies teachers or careg 17. Communicates clearly 18. Bothers other children wi 19. Is able to describe feelin 20. Listens to directions 21. Gets very upset when thi 22. Is a "good sport." 23. Is negative about things. 24. Shares toys or possessic	8.	Is easily distracted
14. Is easily frustrated 15. Acts out of control 16. Defies teachers or careg 17. Communicates clearly 18. Bothers other children wl 19. Is able to describe feelin 20. Listens to directions 21. Gets very upset when thi 22. Is a "good sport." 23. Is negative about things. 24. Shares toys or possessic	11.	Worries about things that
Communicates clearly Bothers other children wl Is able to describe feeling Listens to directions Gets very upset when thi Is a "good sport." Is a good sport." Is negative about things.	14.	Is easily frustrated
20. Listens to directions21. Gets very upset when thi22. Is a "good sport."23. Is negative about things.24. Shares toys or possessic	17.	Communicates clearly
23. Is negative about things.24. Shares toys or possessic	20.	Listens to directions
	23. 24.	Is negative about things. Shares toys or possessic

Student	Test Date	Form Type		dity II levatio		:	Score	s	Classification
		Туре	F	CI	RP	Raw	T	%tile	
Frances, Ferris	10/06/2003	Child/Adol.	Α	A	Α	11	42	24	Normal
Grace, Gary	01/26/2004	Child/Adol.	Α	A	Α	17	47	45	Normal
Hughes, Hockum	10/15/2003	Child/Adol.	Α	A	Α	34	60	82	Normal
Jebson, Jorge	10/08/2003	Child/Adol.	Α	A	A	36	61	85	Elevated
Karmelson, Kandy	06/30/2003	Child/Adol.	Α	A	Α	40	65	92	Elevated
Krackus, Kurt	12/16/2003	Child/Adol.	A	A	A	45	69	95	Elevated
Long, Lenny	01/11/2004	Child/Adol.	Α	A	A	49	72	98	Extremely Elevated
Lupe, Lora	06/23/2003	Child/Adol.	С	A	A	54	76	99	Extremely Elevated

SSIS: Screening/Universal Monitoring

Definition of Prosocial Behavior

Prosocial Behavior is behavior directed toward other people that involves effective communication skills, cooperative acts, self-control in difficult situations, and empathic or supportive responses to others who experience a problem. For example, children who consistently act in a prosocial manner compromise in conflict situations, invite others to join activities, volunteer to help others, and listen when others are speaking.

Secondary Student Performance Descriptor

	Secondary Student renormance Descriptor
Level	Prosocial Behavior
	Students at this performance level demonstrate most of the following:
	excellent skills to communicate and/or cooperate with others
	excellent skills to initiate and sustain conversations/ interactions with others
5	excellent self-control
	a high level of concern for others
	Students at this performance level generally do not need additional instruction to improve their social skill level, and their current skill level is considered to be high for their age.
	Students at this performance level demonstrate most of the following:
	a general competence when communicating or cooperating with others
4	adequate skills to initiate and sustain conversations/ interactions with others
100	adequate self-control
	an appropriate level of concern for others
	Students at this performance level may benefit from additional instruction to improve their social skills, but their current skill level is considered to be appropriate for their age.
	Students at this performance level demonstrate most of the following:
300	occasional difficulty communicating or cooperating with others
3	 occasional difficulty initiating and sustaining conversations/ interactions with others
	somewhat less than expected self-control
	• June concern for others
	Students at this performance level are often in need of additional instruction to improve their social skills.
	Students at this performance level demonstrate most of the following:
	frequent difficulty communicating or cooperating with others
	frequent difficulty initiating and sustaining conversations/
2	interactions with others
	• limited seif control
	little concern for others
	Students at this performance level are often in clear need additional instruction to improve their social skills.
	Students at this performance level demonstrate most of the
	following: • very manufaction or compaction skills
	extreme difficulty initiating or sustaining conversations/
1	interactions in an age-appropriate manner
	poor self-control
	• little or no concern for others
	Students at this performance level often need remedial instruction and/or coaching to improve their social skills.

y Class Roster Scoring Summary

Prosocial Behavior				No.	Student Name	
5	4	3	2	1	1	
5	4	3	2	1	2	
5	4	3	2	1	3	
5	4	3	2	1	4	,
5	4	3	2	1	5	PT 0735-0655
5	4	3	2	1	6	
5	4	3	2	1	7	A Marie Alexander
5	4	3	2	1	8	
5	4	3	2	1	9	
5	4	3	2	1	10	
5	4	3	2	1	11	1 = 10
5	4	3	2	1	12	
5	4	3	2	1	13	
5	4	3	2	1	14	
5	4	3	2	1	15	
5	•	3	2	1	16	
5	4	1	2	1	17	selba
5	4		2	1	18	
5	4	3	2	1	19	
	4	3	2	1	20	
	4	3	2	1	21	
5	1	3	2	1	22	
5	1	3	2	1	23	PRINCE PRODUCE
	4	3	2	1	24	
5	4	3	2	1	25	



Conners' 3 (Conners, 2008)

- Short form (approx. 40 items)
 - Fewer items per scale
 - Recommended for progress monitoring

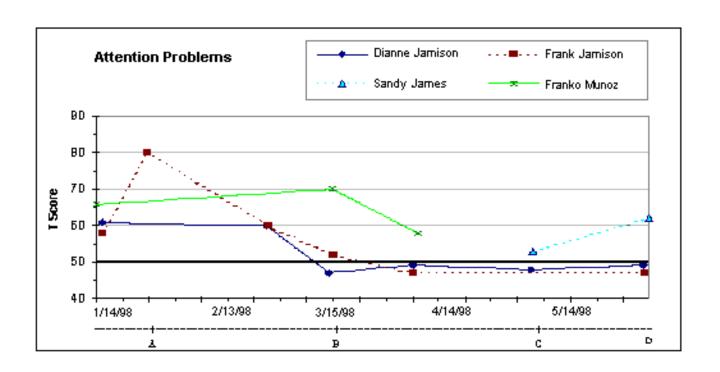
- Inattention
- Hyperactivity/ Impulsivity
- Learning Problems
- Aggression
- Executive Functioning
- Peer Relations
- Family Relations

- ADHD Index
 - 10 items that best differentiate children with ADHD from those without a clinical diagnosis
 - Recommended for screening and progress monitoring
- Global Index
 - 10 best items from original Conners' Rating Scales
 - Progress monitoring

Temper outbursts, Excitable/impulsive, Restless, Cries often, Inattentive, Fidgeting, Disturbs other children, Easily frustrated, Fails to finish things, Mood changes quickly

BASC Monitor for ADHD Kamphaus & Reynolds (1998)

 47 items designed to assess scales of Attention Problems, Hyperactivity, Internalizing Problems, Adaptive Skills



Benefits & Limitations of Behavior Rating Scales

- May be most helpful in diagnostic assessment.
- Provide a common understanding of the specific behaviors that are indicative of a given cluster term.
- May also be suited for use in screening and evaluative assessment practices.

- May not be sensitive to incremental change.
- May be feasible only for occasional use given time/cost.
- Many clinically-focused (i.e., focus on problem rather than pro-social behavior).
- Do not directly assess behavior –rater bias may be present.

Behavior rating scales – summary:

- Screening yes, but scope and size of measures varies widely
- Progress monitoring not likely
- Diagnosis yes, most common use within clinical settings
- Evaluation maybe, if the period of time is sufficient and constructs measured are relevant

Systematic Direct Observation



Definition:

Data collected by an observer watching an environment/person for some period of time

Examples:

- Percentage of intervals observed to be actively engaged
- Frequency of positive peer initiations throughout the day
- Recording how long it takes to transition in the hallway (duration)

SDO Use

- Studies suggest moderate to high levels of reported use
 - 67% of school psychologist report using direct observation in 4 of their last 10 case Shapiro & Heick (2004), 63% to 73% of School Psychologist report moderate to frequent use (Riley-Tillman et. al, 2008).

Event-Based Techniques

Frequency - number of events in a period of time (e.g., 4 hits in a 6 hour day)

Rate - number of events per unit of time (e.g., 4 social initiations per hour)

Percentage of opportunities – use if behaviors follow specific cues (e.g., followed directions given on 40% of occasions)

Time-Based Techniques



- Data recorded during pre-specified intervals of time, then summarized into percentage of intervals of behavioral occurrences
 - Time-based techniques result in approximations of behavioral events because behavior is sampled in one of three basic ways:
 - Whole interval recording
 - Partial interval recording
 - Momentary time sampling

Other techniques



Duration

- Total time (e.g., actively engage in reading for 12 minutes)
- Percent of time (e.g., out of seat for 35% of the reading period)
- Average time per event (e.g., each temper tantrum lasted an average of 7.5 minutes)

Latency – time for behavior to begin after prompt or antecedent cue provided (e.g., on average 2 minutes to begin task after teacher direction given)

Direct Observation Schemes Volpe et al. (2005)

■BASC-2 Student Observation System (Reynolds & Kamphaus, 2004)

- •15-minute observation w/ 30-second intervals
- Response to teacher, Peer Interaction, Works on School Subjects, Transition Movement, Inappropriate Movement, Inattention, Inappropriate Vocalization, Somatization, Repetitive Motor Movements, Aggression, Self-Injurious Behavior, Inappropriate Sexual Behavior, Bowel/bladder problems

•Academic Engaged Time Code of the SSBD (Walker & Severson, 1990)

- Time spent engaged in academic material
- Let stopwatch run
- Divide AET by Total Time

■Behavioral Observation of Students in Schools (Shapiro, 2004)

- ■15-minute observation w/ 15-second intervals
- Active/Passive Engaged, Off-task motor/verbal/passive, Teacher-Directed Instruction

Additional Direct Observation Schemes Volpe et al. (2005)

■Direct Observation Form (Achenbach, 1986)

- ■10-minute observation w/ 10-minute intervals
- ■On/Off-Task

■ADHD School Observation Code (Gadow et al., 1996)

- ■15-minute observation w/ 15-second intervals
- •Interference, Motor Movement, Noncompliance, Non-physical aggression, Off-task

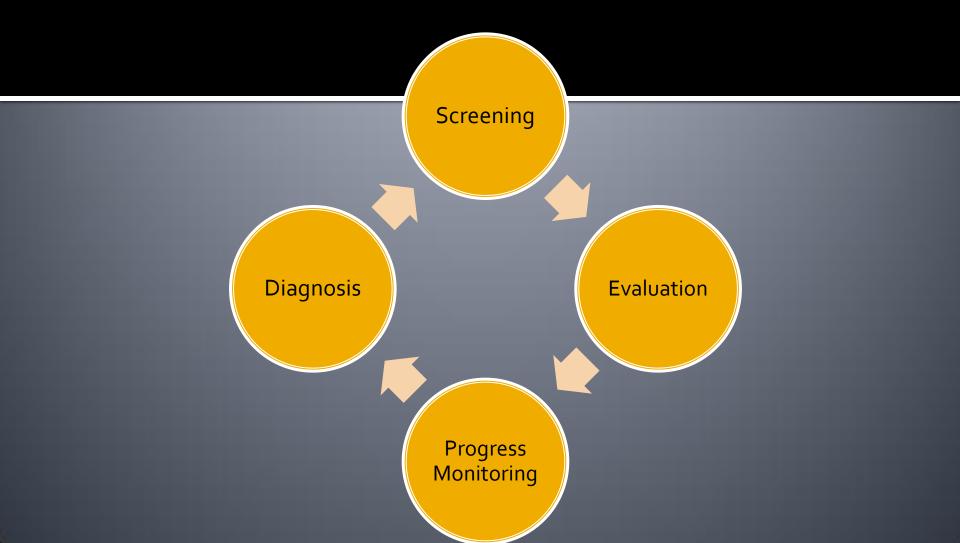
•Classroom Observation Code (Abikoff & Gittelman, 1985)

- ■30-minute observation
- •Interference, Minor Motor Movement, Gross Motor Standing/Vigorous, Physical/Verbal Aggression, Solicitation of Teacher, Off-Task, Noncompliance, Out of Chair, Absence of Behavior

■State-Event Classroom Observation System (Saudargas, 1997)

- •20-minute observation w/ 15-second intervals
- School Work, Looking Around, Social Interaction with Child/Teacher, Out of Seat, Raise Hand, Calling Out, Approach Teacher

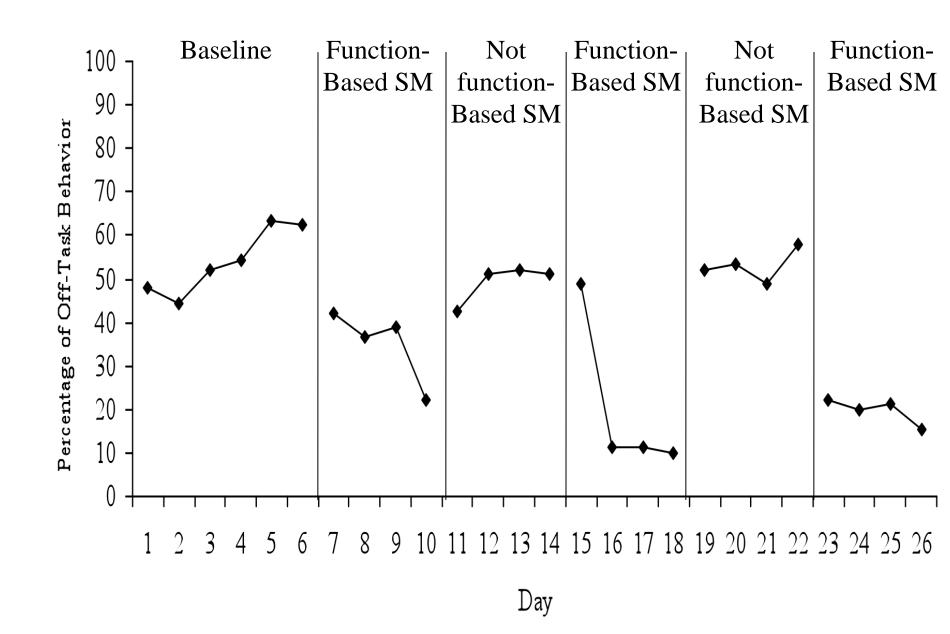
How might SDO data be used?



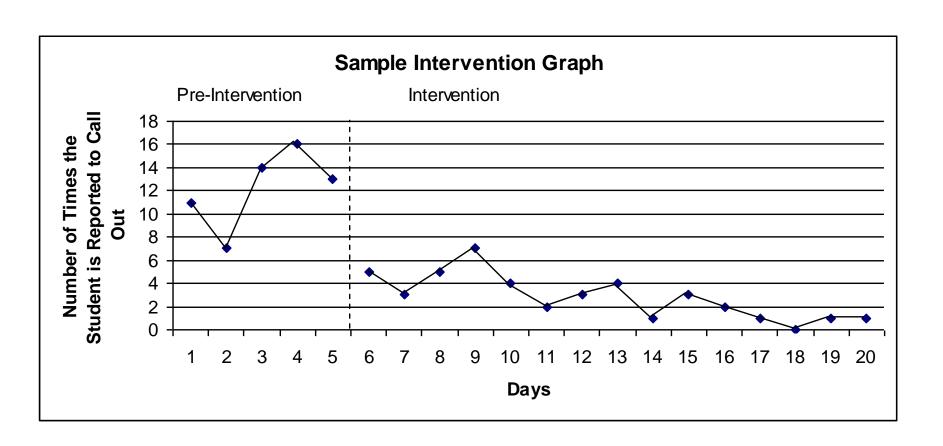
Feasibility

- A single SDO is rather feasible 10-15min.
- Feasibility though decreases as observation numbers increase
 - Assuming a min number of observations (5), this balloons to 50-75 minutes of observation with additional entry/exit time.
 - Over 100 cases (a rather typical school psychologist yearly load), this is 5,000 7,500 minutes, or 83 125 hours.

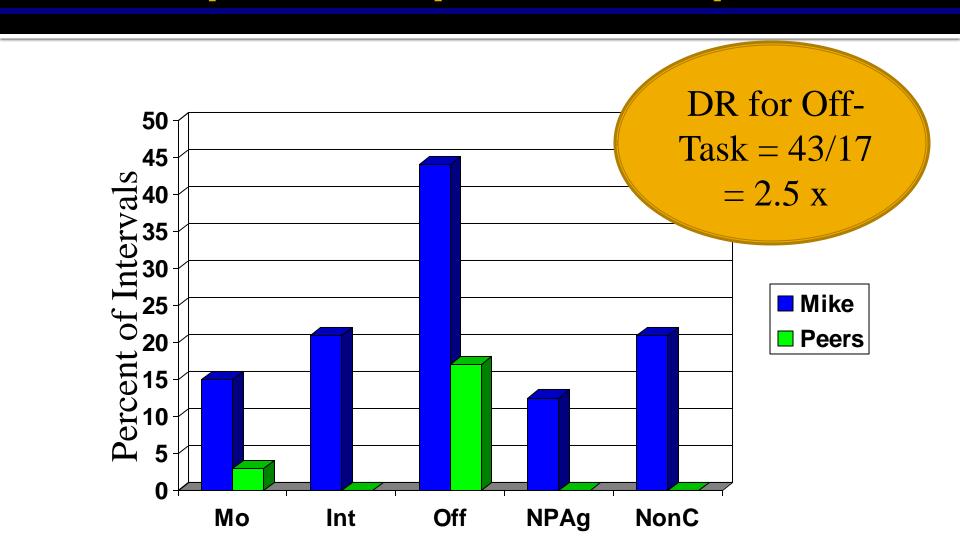
Dawn's Percentage of Off-Task Behavior in History Class



Progress Monitoring: Number of call-outs



Example: Comparison w/ peers



Benefits & Limitations of SDO

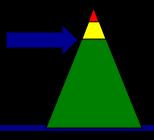
- Highly flexible
- Useful in progress monitoring
- Directness
- Standardized procedures
- Minimal cost for materials

- Potential reactivity
- Observer error/drift
- Limited feasibility re: training and intrusiveness
- Difficult to monitor low frequency behaviors
- Generalizability

Systematic Direct Observation—summary:

- Screening not likely in universal assessment
- Progress monitoring yes
- Diagnosis maybe, particularly if within FBA
- Evaluation not likely

<u>Direct Behavior Rating</u>



Definition:

A tool that involves a <u>brief rating</u> of a target behavior following a specified observation period (e.g. class activity) by those persons who are <u>naturally</u> occurring in the <u>context</u> of interest

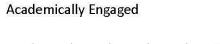
Examples:

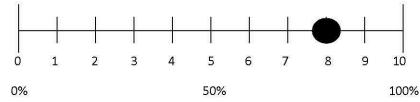
- Behavior Report Card
- Home-School Note
- Daily Progress Report
- Good Behavior Note
- Check-In Check-Out Card

Example DBR scales

% of Total Time

Single Item Scale





<u>Interpretation</u>: The student displayed academically engaged behavior during 80% of the observation period.

Multi-Item Scale

	<u>Never</u>		<u>Always</u>
Did the student follow class rules?	0	1	2
Did the student follow teacher directions	? 0	1	2
Did the student do his/her best work?	0	1	2
Total number of points earned:5			

Interpretation: The student earned 84% (5/6) of possible points during the observation period.

Example: DBR-like Tool



On-Line Behavior Report Card Generator A service of www.interventioncentral.org

Behavior Report Card

		DOMANOI IX	CPOI	LOGIG		
	Student:		Date: _			
	Teacher:		Classro	oom:		
	eview each of the Behavio havior or met the behavio		elow. For	each item, rate the	degree to which the	student
The student fo	ocused his or her attenti	on on teacher instruc	tions, cl	lassroom lessons	and assigned wor	k.
	the degree to which the student of the degree to which the student of the student of the degree to which the student of the student of the degree to which the student of the student of the degree to which the student of the student		8 U	9 Jsually/Always		
The student s	at in class without fidge	ting or squirming more	e than n	nost peers.		
	the degree to which the student of the degree to the degre		8 U	9 Jsually/Always		
The student remembered academic instructions and directions without needing extra reminders.						
	the degree to which the student of t		8	9 Jsually/Always		

Example: DBR-like Tool

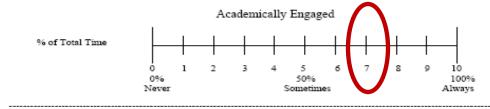
		Monday	Tuesday	Wednesday	Thursday	Friday
Student (specify behavior here)						
Student(specify behavior here)	-					
◎						
Student(specify behavior here)						
Student(specify behavior here)						
◎						

Example: Standard Form for Single-item DBR scales

DBR Form

Dat	e:				Student:	Activity Description:		
М	т	w	Th	F	Rater:			
Observation Time: Behavior Descriptions:								
Star	t:				Academically engaged is actively or passively participating in the classroom activity. For			
End:			_		example: writing, raising his/her hand, answering a question, talking about a lesson, listening to the teacher, reading silently, or looking at instructional materials.			
Check if no observation today					Disruptive Behavior is student action that interrupts regular school or classroom activity. For example: out of his/her seat, fidgeting, playing with objects, acting aggressively, talking/yelling about things that are unrelated to classroom instruction. (If desired) Optional Behavior is			

Directions: Place a slash (/) along the line that best reflects (a) % of total time student was academically engaged and (b) % of total time or total # of times student exhibited disruptive behavior during the observation period. If desired, an additional behavior may be included by providing a definition above and then rating on the "optional behavior" line.

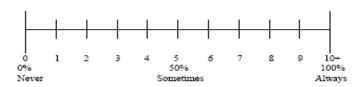


Disruptive Behavior



Optional Behavior

Circle Type of Rating: % of Total Time or # of Times



Download: www.directbehaviorratings.com

V1.1 ⊕ Chafouleas, Riley-Tillman, Christ, & Sugai Pennission granted to photocopy for personal use

Which behaviors do I rate?

Academic Engagement:

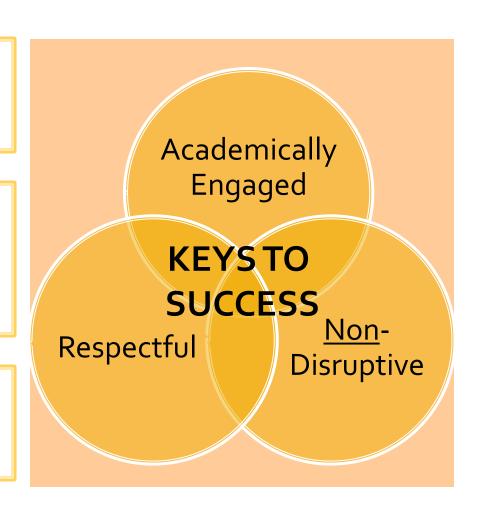
Actively or passively participating in the classroom activity.

Respectful:

Compliant and polite behavior in response to adult direction and/or interactions with peers and adults.

Disruptive Behavior:

A student action that interrupts regular school or classroom activity.



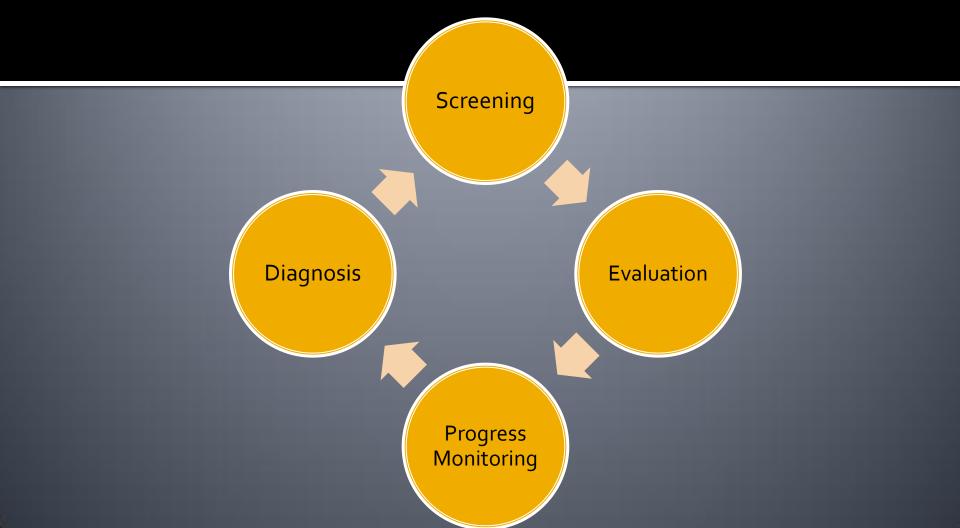
How do I use the DBR form?

- Complete top portion of the form
 - Student's name, Date, Rating period(s)
 - Review behavior definitions and rating directions
- 2) Have the form ready for completion following each pre-identified activity period
 - ✓ e.g., Reading block, independent seat work
- Immediately following the activity period, complete the ratings
 - Do not complete the rating if you aren't confident you directly observed the student for a sufficient amount of time

When rating, remember...

- Ratings should correspond to the proportion of time that you actually observed the student display the target behavior.
 - Complete immediately following the activity period.
 - Do not complete if you did not observe for a sufficient amount of time.
- When rating, each behavior should be considered independently of the other targets. That is, total ratings across behaviors do not have to equal 100%.
 - For example, a student may be engaged 50% of the time, and disruptive 20%. A student may also be engaged for 100% of the time, and disruptive for 10%.

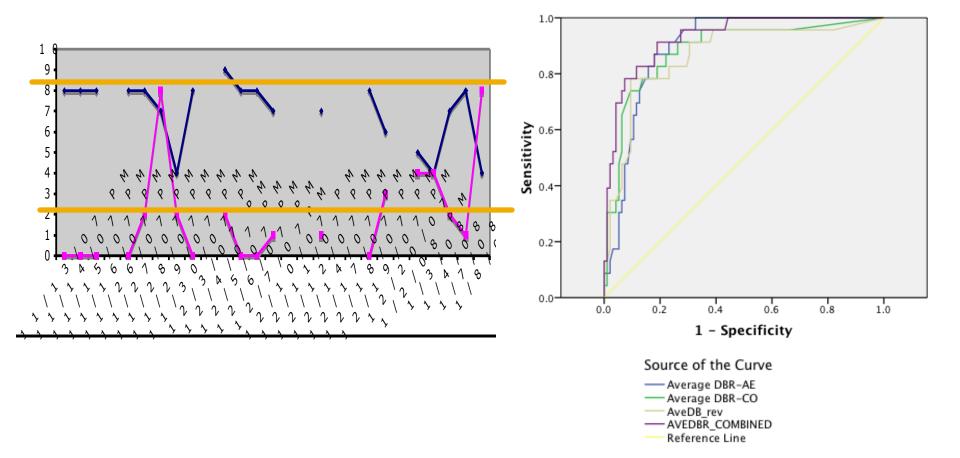
How might DBR data be used?



Example: DBR in Screening

"Local" Cut-Points

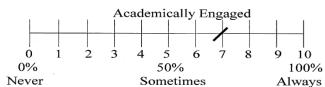
Normative Cut-Points...



DBR Progress Monitoring

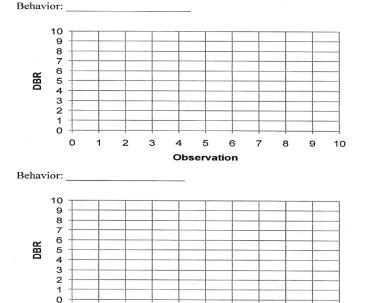
Directions for Direct Behavior Rating (DBR)

- 1. Determine the behaviors of interest, either by selecting from among the possible pre-defined target behaviors or identify your own target behavior.
- Decide who, where, and how often to collect behavior ratings with DBR (e.g., daily, AM, PM). Ratings can be completed in a matter of seconds.
- 3. Observe and estimate the amount of time that the behavior occurs during an observation period (e.g., full day, half day, class period).
- 4. Collect multiple ratings across multiple occasions (see below).
- 5. Plot data graphically, and evaluate child behavior.



* the rating indicates that the student was engaged 70% of the time, which is

equal to a DBR of 7



2 3

Observation

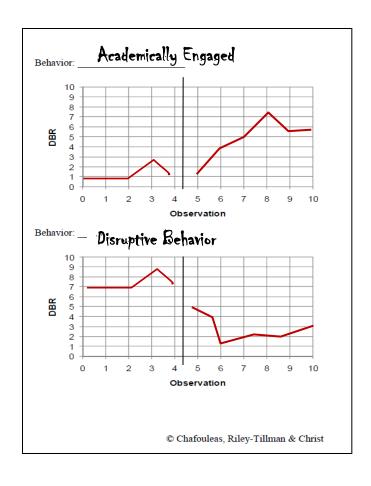
10

DBR Progress Monitoring

How Often?

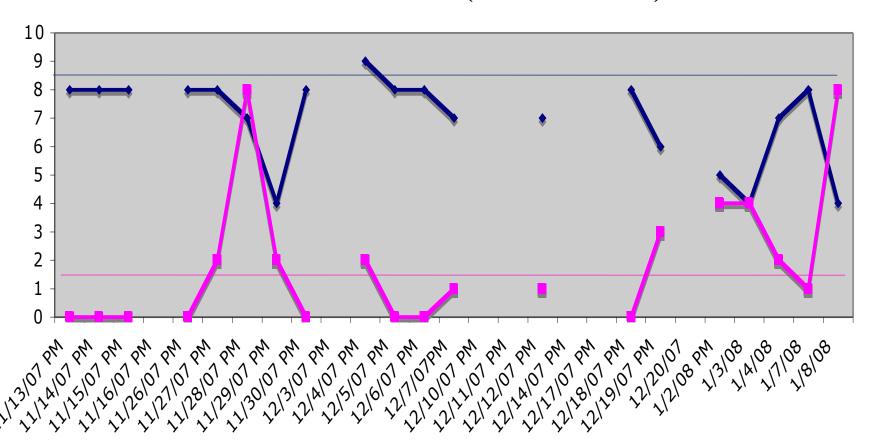
We recommend (5 to)

10 datapoints per phase,
but the emphasis is on
ideographic analysis and
high/low stakes decisions



Example DBR Data Profile

DBR Afternoon (11/13 to 1/8)



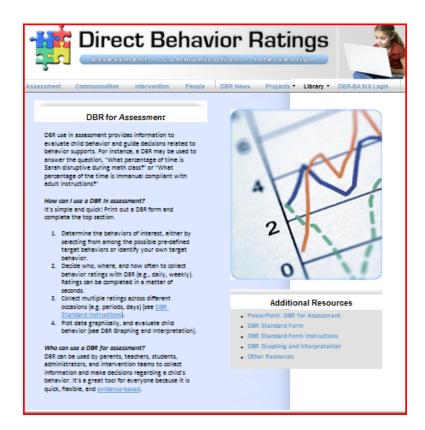


Direct Behavior Ratings

Assessment · Communication · Intervention

www.directbehaviorratings.com/index.html



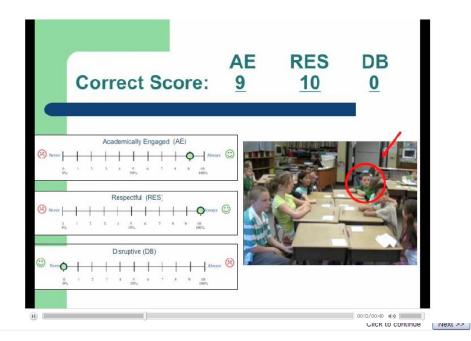


DBR Training Site



Hover for Definitions: Academically Engaged | Respectful | Disruptive AE RES DB

Your Rating: 8 10 0



Benefits & Limitations of DBR

- Highly flexible
- Useful in progress monitoring
- Directness
- Potential for standardized procedures
- Minimal cost for materials

- Generalizability
- Rater bias is likely present
- Training requirements unknown
- Limited psychometric knowledge beyond DBR-SIS

Direct Behavior Rating – summary:

- Screening maybe
- Progress monitoring yes
- Diagnosis maybe, particularly if within FBA
- Evaluation not likely

REVIEW: Methods of Social Behavior Assesment

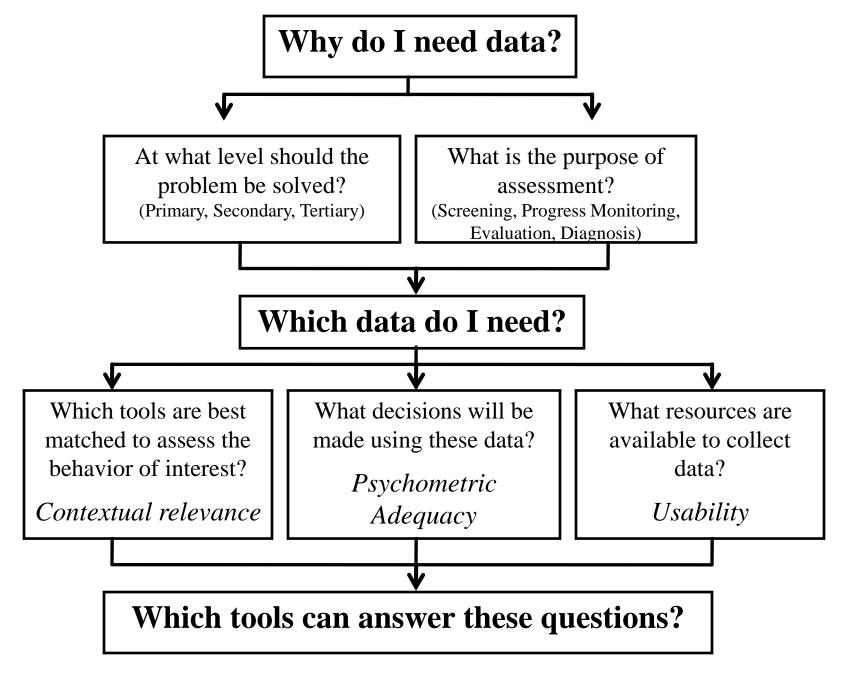
- Extant data
- Standardized behavior rating scales
- Systematic direct observation
- Direct Behavior Rating

WHICH TO USE? Consider...

Psychometric adequacy

Usability

Contextual relevance



SUMMARY: Behavior Assessment Methods within RTI

ALL BELOW, with emphasis on functional assessment data

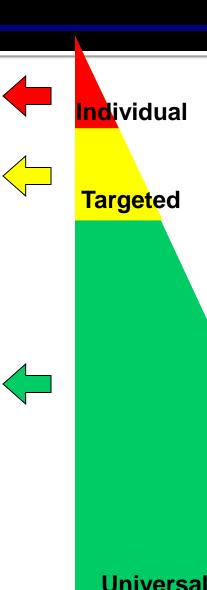
EXTANT DATA

BEHAVIOR RATING SCALES

SYSTEMATIC DIRECT OBSERVATION

DIRECT BEHAVIOR RATING

EXTANT DATA
BEHAVIOR RATING SCALES developed for universal screening
DIRECT BEHAVIOR RATING



Conclusion: Assessment Challenges in Domains of Social Behavior

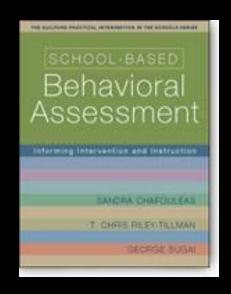
- How do we develop school "buy-in" and capacity regarding roles in prevention related to social behavior and mental health?
 - How do we facilitate capacity for schools to include universal screening?
- How can schools integrate a common logic and language within the domains of social behavior?
- How do we forge new directions in the development and evaluate of assessments that are technically adequate, contextually relevant, and usable in schools?

Contact Information

Further information:

Chafouleas, S.M., Riley-Tillman, T.C., & Sugai, G. (2007). School-Based Behavioral Assessment: Informing Instruction and Intervention. New York: Guilford.

<u>Note</u>. This presentation can be downloaded from www.directbehaviorratings.com



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