



Direct Behavior Rating: Use in Targeted Screening of Student Behavior



Dr. Sandra M. Chafouleas
University of Connecticut
Dr. Faith G. Miller
University of Minnesota

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Purpose:

- To review critical features of Direct Behavior Rating (DBR) as a flexible, defensible, repeatable and efficient approach to behavior assessment
- » To understand how DBR might be applied within multitiered models of service delivery (RTI) – assessment for screening and progress monitoring purposes.
- » To learn about recent research to support DBR use in targeted screening assessment, and to acquire practical knowledge about how to use DBR in screening assessment.
- » To build skill in using DBR within decision making about student behavior supports.

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 within a Multi-Tiered Service Delivery Framework (RTI)

Behavior assessment within RTI frameworks

- » Current methods of behavior assessment were not built for multi-tiered assessment
- » New options must possess four desirable characteristics...

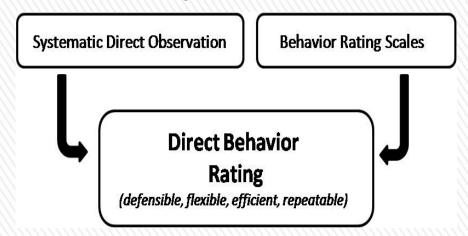
Defensible Efficient Flexible Repeatable Desirable Features



Direct
Behavior
Rating as an option...

DIRECT BEHAVIOR RATING: What is DBR?

An <u>emerging alternative</u> to systematic direct observation and behavior rating scales which involves *brief rating* of target behavior following a specified observation period





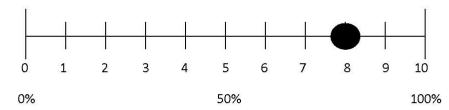
Example Scale Formats for

Source: Chafouleas, Riley-Tillman, & Christ (2009)

Single Item Scale

Academically Engaged

% of Total Time



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

Multi-Item Scale

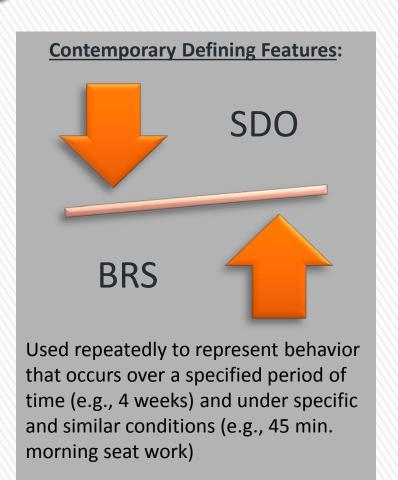
	<u>Never</u>		<u>Always</u>
Did the student follow class rules?	0	1	2
Did the student follow teacher directions	s? 0	1	2
Did the student do his/her best work?	0	1	2
Total number of points earned:5			

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

A little background...

Other Names for DBR-like Tools:

- » Home-School Note
- » Behavior Report Card
- » Daily Progress Report
- » Good Behavior Note
- » Check-In Check-Out Card
- » Performance-based behavioral recording



RESEARCH: Project VIABLE (2006-2011) and Project VIABLE II (2009-current)

Develop instrumentation and procedures, then evaluate defensibility of DBR in decision-making



Evaluate defensibility and usability of DBR in decision-making at larger scale

Large student/teacher samples assessed at year 1

A handful of behavior intervention cases involving DBR use

Smaller student samples followed annually over 4 years across grades/teachers

Teacher input regarding usability and perceptions

Funding provided by the **Institute for Education Sciences**, U.S. Department of Education



How does DBR work?

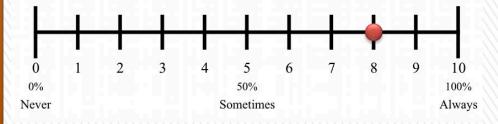


DBR Structure: Example scales

Academically Engaged

Place a mark along the line that best reflects the percentage of total time the student was Academically Engaged during math today.

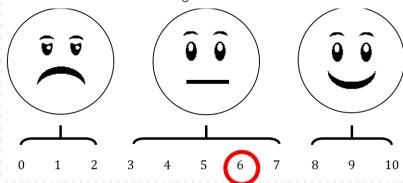
Place a mark along the line that best reflects the percentage of total time the student was academically engaged during math today.



Interpretation: The student displayed academically engaged behavior during 80% of large group math instruction today.

Academically Engaged

Circle the number that best represents the student's attention during circle time.



Interpretation: The student received a 6 for attention during group circle time activities today.





DBR Targets: "The Big 3"General Outcomes

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.



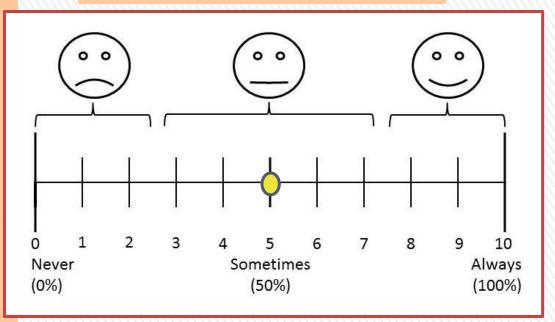
TM



How do I use the DBR scale?

- » Ratings should indicate how much you did the behavior.
- » For example: During Independent Reading, if you paid attention about half of the time, that would be like a so-so face – and you could give a rating of 5.

Academically Engaged







How do I use the DBR scale?

- Ratings should indicate how much you did the behavior.
- Another way to anchor your rating is to think in terms of Low, Medium, and High.

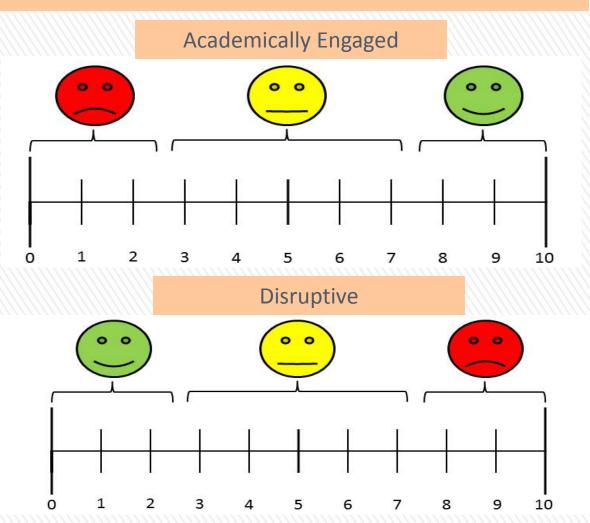
	Low				Medium				Hiş	gh
0	I	2	3	4	5	6	7	8	9	10
Never					Sometimes					Always



How do I use the DBR scale?

▶ BEFORE rating, pay attention to the **behavior** and the **scale**.

For example, lower score for 'Disruptive' shows better behavior, whereas a higher score on the other items indicates better behavior.



Other Helpful Hints...



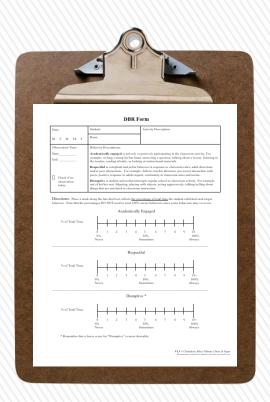
1) Complete top portion of the form, and review the behavior definitions and rating directions

Direct B	Direct Behavior Rating (DBR) Form: 3 Standard Behaviors							
Date:	Student:	Activity Description:						
M T W Th F	Rater:							
Observation Time:	Behavior Descriptions:							
Start:	Academically engaged is actively or passively participating in the classroom activity. For example: writing, raising hand, answering a question, talking about a lesson, listening to the teacher, reading silently, or looking at instructional materials.							
Respectful is defined as compliant and polite behavior in response to adult directions and/or peer interactions. For example: follows teacher direction, pro-social interaction with peers, positive response to adult request, verbal or physical disruption without a negative tone/connotation.								
		terrupts regular school or classroom activity. For example: objects, acting aggressively, talking/yelling about things that ion.						



2) Have the form ready for completion following each pre-identified observation period

For example: Reading block, independent seat work







3) Immediately following the activity period, complete the ratings.

- Only complete the ratings if...
- you are confident you directly observed the student for a sufficient amount of time
- you are able to complete the form soon after the end of the activity

Date:	Student:	Activity Description:
M T W Th F	Rater:	
Observation Time:	Behavior Descriptions:	
Start:		passively participating in the classroom activity. For
End:	teacher, reading silently, or looking at	ring a question, talking about a lesson, listening to the instructional materials.
Check if no observation	peer interactions. For example: follow	d polite behavior in response to adult directions and/or we teacher direction, pro-social interaction with peers, bal or physical disruption without a negative
today		rupts regular school or classroom activity. For example: ects, acting aggressively, talking/yelling about things that







4) Immediately following the activity period, complete the ratings.

- Only complete the ratings if...
- you are confident you directly observed the student for a sufficient amount of time
- you are able to complete the form soon after the end of the activity

	Date:	Student:	Activity Description:
	M T W Th F	Rater:	
	Observation Time:	Behavior Descriptions:	
	Start: End:		passively participating in the classroom activity. For ring a question, talking about a lesson, listening to the instructional materials.
V	Check if no observation today	peer interactions. For example: follow	d polite behavior in response to adult directions and/or as teacher direction, pro-social interaction with peers, bal or physical disruption without a negative
	loddy		rupts regular school or classroom activity. For example: ects, acting aggressively, talking/yelling about things that







Let's Practice...



» Academically Engaged:

Participating in the classroom activity.

Examples: writing, raising hand, answering a question, talking about a lesson, listening to the teacher, reading silently, or looking at instructional materials.



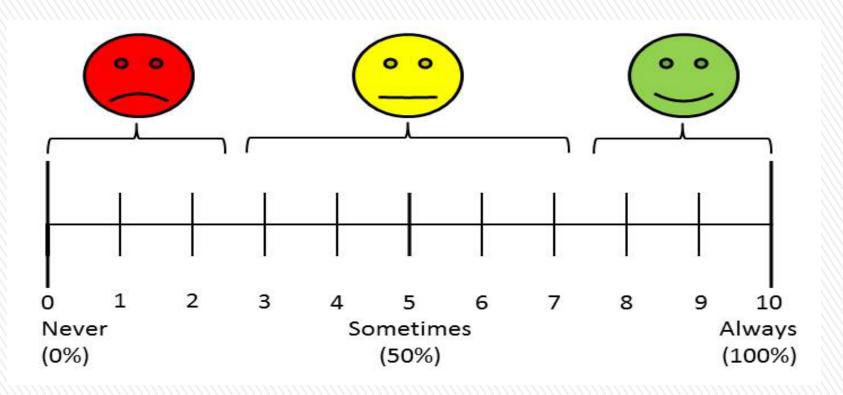


Following the video, we will rate Jessie's Academically Engaged behavior





How would you rate Jessie's **Academically Engaged** behavior?



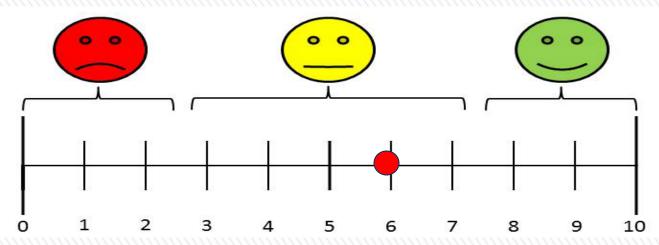


Academically Engaged

Participating in the classroom activity.

For example: writing, raising hand, answering a question, talking about a lesson, listening to the teacher, reading silently, or looking at instructional materials.





			Medium					Hi	gh		
	0	- 1	2	3	4	5	6	7	8	9	10
	Never	Occasi	onally		le less	Sometimes		tle more		ery	Always
/					nalf the			half the	treq	uently	-

More Practice Opportunities...

Visit the On-Line Training Module at www.directbehaviorratings.org

<u>Direct Behavior Rating:</u>

Use in Assessment of Student Behavior



Project Director:
Sandra M. Chafouleas

Project Co-Pls: Chris Riley-Tillman, Greg Fabiano,
Megan Welsh, and Hariharan Swaminathan

Design & Development:
Rose Jaffery, Rishi Saripalle, & Austin Johnson

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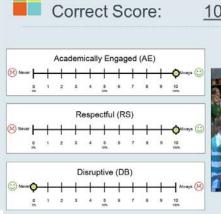
V2.0 DBR: Use in Assessment of Student Behavior was created by Sandra M. Chafouleas

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AE





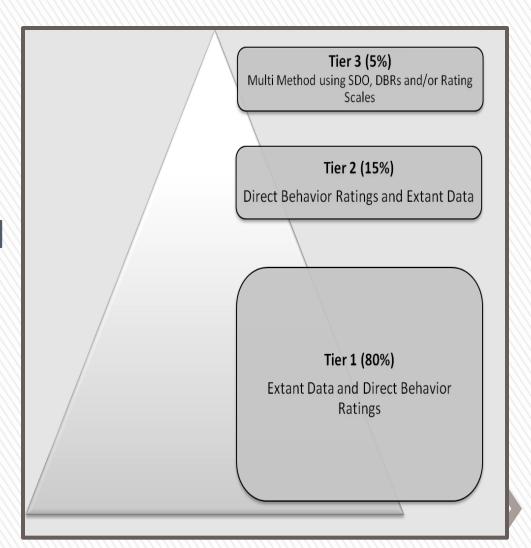
RS

10

DB

0

Applications for DBR-SIS across Tiers for Targeted Screening and Progress Monitoring



REVIEW: Applications within Progress Monitoring

INDIVIDUAL STUDENT MONITORING OF RESPONSE: DBR-SIS in Behavior Consultation Cases

Chafouleas, Sanetti, Kilgus, & Maggin (2012 – Exceptional Children)

<u>Sample</u>: 20 teacher-student dyads in elementary grades

<u>Design and Intervention</u>: A-B intervention involving behavioral consultation and DRC-based intervention. Five options for "change metrics" were calculated.

<u>Measures</u>: researcher-completed SDO, teacher-completed DBR-SIS

Conclusion: Change (in expected directions) in student behavior across phases and sources. High correspondence between DBR-SIS and BOSS absolute change metrics suggests that students were ranked similarly across the two measures with regard to intervention responsiveness. Provides preliminary support for the use of DBR-SIS to differentiate between those who have or have not responded to intervention.

	Descriptive statis	tics across scales and	phases	
			Mean	SD
DBR-SIS	Disruptive Behavior	Baseline	4.26	1.97
		Intervention	2.58	1.41
	Academic Engagement	Baseline	4.97	2.28
		Intervention	6.82	1.50
	Compliance	Baseline	5.74	1.93
		Intervention	7.34	1.31
BOSS	On-task	Baseline	69.98	19.76
2000		Intervention	81.94	14.22
	Off-task	Baseline	44.82	21.01
		Intervention	28.69	18.54

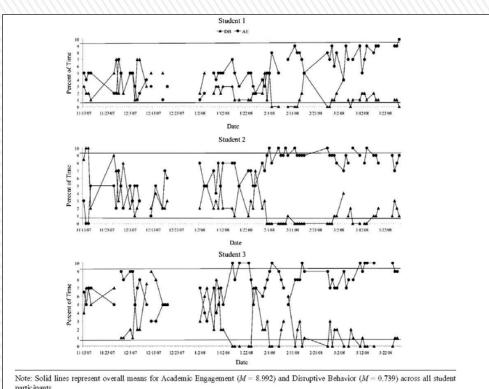
INDIVIDUAL INTENSIVE STUDENT MONITORING:

Kindergarten Example

Chafouleas, Kilgus, & Hernandez (2009 – Assessment for Effective Intervention)

- » <u>Sample</u>: full day K inclusive classroom, 2 teachers and 22 students
- » Measures: teacher-completed DBR-SIS following am and pm over Nov-March for ALL students
- » Conclusion: "Local" cut-score comparisons can be useful in examining individual student performance. Periodic reassessment of all may be needed to re-confirm appropriate comparison

Target	Rating	FALL	SPRING
Behavior	Time	M (SD)	M (SD)
Academic	AM	8.72 (1.31)	9.40 (0.63)
Engagement	PM	8.25 (2.03)	9.37 (0.88)
Disruptive	AM	1.30 (1.47)	0.60 (0.62)
Behavior	PM	1.61 (2.08)	0.42 (0.52)



CLASSWIDE MONITORING/IDENTIFICATION OF SUPPORT: Case Study Comparing Observation and DBR Data

Riley-Tillman, Methe, & Weegar (2009 – Assessment for Effective Intervention)

- » <u>Sample</u>: First grade classroom with 14 students
- » Design: B-A-B-A
- » <u>Intervention</u>: modeling and prompting of silent reading
- » Measures: researcher-completed SDO, teacher-completed DBR-SIS
- » Conclusion: DBR data can be sensitive to classroom-level intervention effects, maps closely to resource-intensive SDO

Systematic Direct Observation and Direct Behavior Rating Data of Engagement

	Phase Mean			
	B1	A1	B2	A2
DBR	72	45	63	42
SDO	68	49	61	50

External Review of PM Characteristics:National Center on Intensive Intervention

cometric Standards	Progress Monitoring Standards	Data-Based Ir	ndividualizatio	on Standards Usability
Tool	Scale	Reliability ①	Validity ①	Disaggregated Reliability and Validity Data ①
Behavior Intervention Monitoring Assessment System (BIMAS)	Academic Functioning	•	•	•
Behavior Intervention Monitoring Assessment System (BIMAS)	Cognitive/Attention	•	•	⊖
Behavior Intervention Monitoring Assessment System (BIMAS)	Conduct	•	•	•
Behavior Intervention Monitoring Assessment System (BIMAS)	Negative Affect	•	•	•
Behavior Intervention Monitoring Assessment System (BIMAS)	Social	•	•	•
Direct Behavior Rating Single Item Scales (DBR-SIS)	Academically Engaged	•	•	_
Direct Behavior Rating Single Item Scales (DBR-SIS)	Disruptive Behavior	•	•	_

External Review of PM Characteristics:National Center on Intensive Intervention

Tool	Scale	Sensitive to Student Change ①	Levels of Performance Specified ①
Behavior Intervention Monitoring Assessment System (BIMAS)	Academic Functioning	0	•
Behavior Intervention Monitoring Assessment System (BIMAS)	Cognitive/Attention	0	•
Behavior Intervention Monitoring Assessment System (BIMAS)	Conduct	O	•
Behavior Intervention Monitoring Assessment System (BIMAS)	Negative Affect	0	•
Behavior Intervention Monitoring Assessment System (BIMAS)	Social	0	•
Direct Behavior Rating Single Item Scales (DBR-SIS)	Academically Engaged	•	•
Direct Behavior Rating Single Item Scales DBR-SIS)	Disruptive Behavior	•	•

Summary: Applications in Progress Monitoring

- » Reliable tool for progress monitoring to evaluate responsiveness to intervention for moderate behavior
- » Complement to other data sources (e.g. direct observation) that allows for frequent monitoring of intensive behaviors
- » Viable option for class-wide monitoring to "check in" on strategy effectiveness
- » Possibilities in cross-informant monitoring increase communication around expectations!

Applications within Targeted Screening

Screening Options ... why "targeted" for DBR Core?

Teacher Referral

- Nomination and notification that there is a problem
- <u>Pro</u>: minimal resources needed

Intervention-Based Identification

- Put intervention in place and determine responsiveness
- Pro: high accuracy in establishing significance of problem

Universal Screening through Normative "Rating"

- Screening applied to all students
- <u>Pro</u>: proactive at catching potential problem
- <u>Con</u>: can be resource-intensive (cost, collection

Combination – Multiple Gating

- Combination of options (e.g. teacher nomination followed by normative ratings)
- <u>Pro</u>: potentially proactive and more resource-efficient
- Con: WHICH pieces, WHO/HOW completed, and WHEN?





Goal for Screening... Correct Identification of Students in Need



Condition (as determined by "Gold standard")



Test Outcome

Test Outcome Positive

Test Outcome Negative True Positive

Condition Positive

False Negative

Sensitivity = Σ True Positive Σ Condition Positive false Positive Type I error

Condition Negative

True **Negative**

Specificity = Σ True Negative Σ Condition Negative Positive predictive value =

Σ True Positive Σ Test Outcome Positive

value = Σ True Negative

Σ Test Outcome Negative



Figure Source: http://en.wikipedia.org/wiki/ Sensitivity and specificity







Correct Identification of Students in Need... Not So Simple as Tests are Never Perfect

Goal: Get the risk identification right for each student!

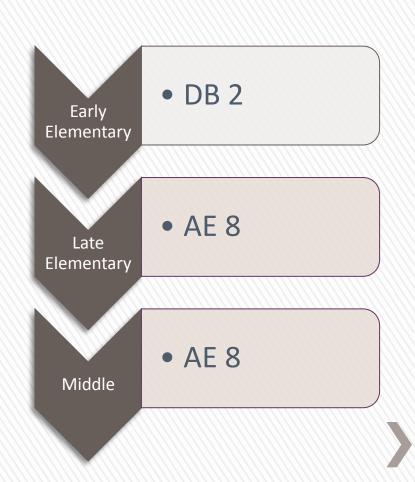
- Correctly identifying when there is risk
- Avoid missing identifying when there is risk
- Avoid over-identifying risk
- Avoid under-identifying risk

"Rules" utilized for determining optimal threshold for each grade level and time point

		Sensitivity	Specificity	
Best		0.9	0.9	
		0.8	.08	
		0.9	0.7	
		0.8	0.8	
		0.8	0.7	
Worst		0.7	0.7	
		Smallest SN/SP discrepancy		

Preliminary Research to Identify Individual Student Risk using a Single DBR Score

- » Promising results for use of DBR-SIS data to inform screening decisions.
- » Focus was on each individual DBR-SIS target, or within a gated approach.
- » Overall DBR-SIS diagnostic accuracy was consistently in the moderate range.
 - > AE performed consistently well, particularly in higher grade levels.
 - > DB performed well in lower grades. Performance in advanced grades varied.



Moving from the Pilot focused on Single Scores... Screening that incorporates DBR CORE simultaneously

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.



TM

Using a Composite Score



Academic Engagement (0-10)

AE: Actively or passively participating in the classroom activity.

Respectful (0-10)

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

Disruptive Behavior (0-10 – <u>reverse</u>)

<u>DB</u>: A student action that interrupts regular school or classroom activity.

Core Composite (0-30)

<u>C</u>: Sum of scores across individual targets of AE, RS, and DB (reverse scored).

Example: Determining the average individual score

AE-1 8

AE-2 9

AE-3 10

AE-4 6

AE-5 8

AE-6 7

Average 8



Other Important Considerations in Targeted Screening Measures

- » Replication of findings
 - > Do we see the same patterns in larger, more diverse samples?
 - > Same for range of grade levels?
- » "Best" choice of targets
 - > Individual or combined DBR-SIS targets?
- » Time-specific cut scores
 - > Do risk scores vary across the school year and by grade?

VIABLE-II - Year 1 Data

Johnson, Miller, Chafouleas, Welsh, Riley-Tillman, & Fabiano (JSP – tentative accept)

- » Sample: Approximately 1800 public-school students enrolled in 192 classrooms in CT, MO, NY
 - > lower elementary (1st and 2nd),
 - > upper elementary (4th and 5th)
 - > middle school (7th and 8th)
- » Procedures: Teacher rated 3x points over school year
- » <u>Conclusion</u>: Time point and grade can vary findings.
 - » <u>Implication</u>: What happens when you combine scores?

Lower Elementary Example

Question:

Individual Targets or Combined Score?

Answer:

Combined meets "best" decision rule

<u> </u>								
	Lower Elementary							
	AUC [95% CI]	Cut	SN [95% CI]	SP [95% CI]				
		score						
			Fall					
AE	.83 [.80, .87]	8.2	.79 [.71, .87]	.72 [.68, .75]				
DB	.84 [.80, .88]	1.2	.85 [.78, .91]	.71 [.68, .75]				
RS	.78 [.73, .82]	9.1	.71 [.62, .79]	.70 [.66, .74]				
С	.85 [.81, .89]	26.2	.86 [.79, .92]	.72 [.68, .76]				



VIABLE-II - Year 1 Data

Question:

Time-specific cut scores

» Do cut scores vary across the school year?

Answer:

» Yes, we do see changes over the course of the school year – changes vary by grade level group

Example						
Lower Elementary						
	Cut score (Combined)	SN [95% CI]	SP [95% CI]			
FALL	26.2	.86 [.79, .92]	.72 [.68, .76]			
WINTER	26.4	.81 [.74, .88]	.71 [.67, .74]			
SPRING	26.5	.82 [.74, .89]	.75 [.71, .78]			



VIABLE-II - Year 1 Data

Question:

Replication of findings

- » Do we see the same patterns in larger, more diverse samples?
- » Same for range of grade levels?

Answer:

- » Yes, similar patterns to prior work
- » Some variation in "best" cuts across grade level groups

Lower Elementary						
	Cut sore (Combined)	SN [95% CI]	SP [95% CI]			
FALL	26.2	.86 [.79, .92]	.72 [.68, .76]			
WINTER	26.4	.81 [.74, .88]	.71 [.67, .74]			
SPRING	26.5	.82 [.74, .89]	.75 [.71, .78]			

Middle School						
FALL	27.5	.83 [.76, .90]	.71 [.66, .75]			
WINTER 28.2		.90 [.83, .95]	.72 [.68, .77]			
SPRING	28.1	.83 [.75, .90]	.71 [.66, .75]			



Putting it all together: Blueprint for DBR Use in Systematic Screening

Blueprint Steps for Systematic Screening

- 1 Establish decision making plan.
- 2 Determine who will conduct ratings
- 3 Conduct rater training.
- Determine the order in which students will be rated.
- 5 Select DBR-SIS target behaviors.
- 6 Determine when and how often ratings will occur.
- 7 Complete DBR-SIS ratings.
- 8 Calculate summary single target scores and combined scale scores (if applicable).

Establish decision making plan

Determine the scope of the screening, and if at-risk students will be referred for (a) additional assessment or (b) intervention (via a titration or triage approach).

Example 1: ABC Middle School decides to screen all students twice per year (fall, spring) using DBR on the three core behavioral competencies. Composite scores will be reviewed by the appropriate grade level team (blue, red, green) to determine next steps (further assessment, tiered support plan).

Example 2: XYZ Elementary School decides to use a screening process in which each teacher nominates students as potentially at risk. Those students will be screened using DBR (core behavioral competences plus one schoolwide indicator). Screening will occur 3X per year for the targeted students, with review of each competency and composite occurring by the student support team

2 Determine who will conduct ratings

Raters will likely be head teachers of the classroom in which each student spends the majority of her instructional time.

Example 1 – ABC Middle: It was decided that the Reading/Language Arts teachers would complete the assessments, with confirmation of findings (and second rater) discussed at the team meeting.

<u>Example 2 – XYZ Elementary</u>: The primary classroom teacher was determined as the most appropriate rater.

3 Conduct rater training

Raters should be directed to complete DBR-SIS training.

<u>Example 1 – ABC Middle</u>: Reading/Language Arts teachers used a planning session to independently complete the online training module. A portion of the fall professional development day was set aside with the school psychologist to problem-solve questions and set up rating materials.

<u>Example 2 – XYZ Elementary</u>: The school principal allocated half of the first professional development day to first review of behavior support systems and expectations in the school, and then rotate teachers through the computer lab to complete the online training module. The lab was staffed by the school psychologist and counselor for further questions.

5 Select DBR-SIS target behaviors

Include all single targets and combination scales that are pertinent to relevant cut scores, as well as school context. Determine the targets/scales on which students should be at-risk to be considered for additional assessment or intervention (see Step 1).

<u>Example 1 – ABC Middle</u>: As reviewed in step one, the three core behavioral competencies were selected as targets for all students, with use of the composite score to determine risk.

<u>Example 2 – XYZ Elementary</u>: As reviewed, the three core behavioral competencies plus "be responsible" were selected for initial teacher nomination. Targeted screening using DBR then occurred, with evaluation using the single targets for consideration.

ABC MIDDLE: If a student's <u>combined</u> summary score is equal to or less than this value, the student is considered at-risk.

		Note. Conditional probability statistics are presented alongside a [95% confidence interval]			
Time Point	Cut Score	Sensitivity	Specificity	PPV	NPV
Fall	27.5	.83 [.76, .90]	.71 [.66, .75]	.41 [.37, .45]	.95 [.92, .97]
Spring	28.1	.83 [.75, .90]	.71 [.66, .75]	.41 [.37, .45]	.94 [.92, .97]

XYZ LOWER ELEMENTARY: If a student's summary score for Academically Engaged Behavior is equal to or less than this value, the student is considered at-risk.

		Note. Conditional probability statistics are presented alongside a [95% confidence interval]			
Time Point	Cut Score	Sensitivity	Specificity	PPV	NPV
Fall	8.2	.79 [.71, .87]	.72 [.68, .75]	.38 [.34, .42]	.94 [.92, .96]
Winter	8.4	.88 [.81, .94]	.70 [.66, .74]	.40 [.37, .44]	.96 [.94, .98]
Spring	8.5	.85 [.78, .92]	.74 [.70, .77]	.39 [.35, .43]	.96 [.94, .98]

Determine when and how often ratings will occur

Identify the days (e.g., October 1-5) and times (e.g., 9:00am-12:00pm and 12:30-3:30pm) during which each group of students will be observed and rated. An attempt should be made to schedule 10 ratings for each student within each group.

<u>Example 1 – ABC Middle</u>: Language Arts and Reading blocks, averaging 6 times per week at varying days and times given scheduling.

<u>Example 2 – XYZ Elementary</u>: Morning (school start to lunch) and afternoon (post-lunch to bus time) each day, providing up to 10 opportunities per week.

7 Complete DBR-SIS ratings

Teachers should complete DBR-SIS ratings as soon as possible following each rating period.

<u>Example 1 – ABC Middle</u>: Done at end of block over transition, with decision to skip rating if not completed by end of school.

Example 2 – XYZ Elementary: Done, with decision to skip rating completion if not done before moving to the next rating period (e.g. morning ratings done before end of lunch period).

8 Calculate summary single target scores and combined scale scores (if applicable).

For single target scores, compute the mean of scores within each DBR-SIS target (e.g., mean of all AE ratings). For combined scale scores, compute the mean within each DBR-SIS target, remembering to reverse-score all DB scores. Sum the means of each target to derive the DBR-SIS combined scale summary score. It is recommended that means comprised of less than 6 ratings are not used.

<u>Example 1 – ABC Middle</u>: Reminder, based on composite. <u>Example 2 – XYZ Elementary</u>. Reminder, based on individual target. 9 Compare resulting summary target/scale scores to their corresponding cut scores.

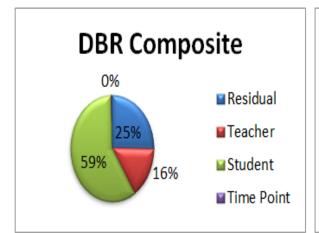
Ensure identified cut scores are appropriate for the target/scale under consideration, as well as the grades and time of year within which DBR-SIS was administered. Use cut scores to generate a list of at-risk students to refer for additional assessment or intervention.

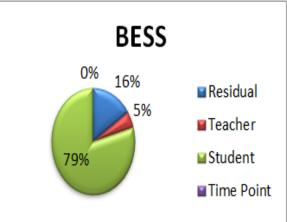
Example for ABC Middle. Note XYZ would have additional columns for each target.

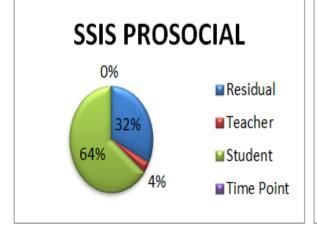
Student Name	Combined Score	Cut Score	At-risk	Action Taken
			□ Yes	

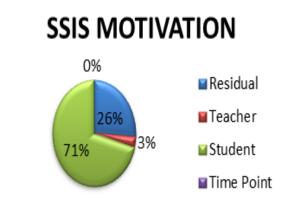
What's next in DBR research? Coming Soon...

Behavior Screening – How Often?









- Examining the variance in scores attributable to time point
- » Examining changes in risk-status across the school year



Who Rates? - Students as Monitors of Responsiveness



DIRECT BEHAVIOR RATING (DBR) IN INTERVENTIONS TO TEACH STUDENTS HOW TO SELF-MONITOR AND EARN TEAM-BASED REWARDS

By Rose Jaffery and Sandra M. Chafouleas

Direct Behavior Rating (DBR) is described as offering an efficient, defensible, repeatable, and flexible tool for linking assessment, communication, and intervention purposes. In this handout, we focus on demonstrations of the flexibility of DBR in relation to how it can be used in an evidence-based intervention package. Specifically, the intervention package consists of student self-monitoring and an interdependent group contingency reward system. Flexibility of DBR is demonstrated in that the format of the DBR scales used for self-monitoring is varied based on teacher preference.

What are the intervention components discussed in this handout?

· Students evaluate and record their own behavior (self-monitoring) and work in teams (interdependent group contingency) to gain points for good behavior in order to earn rewards (incentives).

Information offered through this handout and associated materials

- · Procedural information about interventions using DBR, selfmonitoring, and interdependent group contingency
- Materials for teaching students how to (a) self-monitor their behavior using DBR forms and (b) use teacher feedback and an interdependent

group contingency incentive system to earn rewards for good behavior.

Why might this intervention package be useful?

- . The self-monitoring component can help students learn self-awareness of their own behavior. In order to increase the likelihood that the students will rate their behavior accurately and engage in appropriate behavior, the students earn points for good behavior and can earn bonus points for being accurate self-raters (e.g., coming within 1 point of a teacher's rating).
- · If a team's total points meet or exceed a pre-determined weekly goal, each student receives a reward. When rewards are only offered contingent upon a student's entire team engaging in appropriate behavior, students are often encouraged by their peers to act appropriately. This interdependentgroup contingency reward system relies on peer influence to shape student behavior.
- progress efficiently over time.

The format of the self-monitoring forms allows for daily data collection in order to monitor student

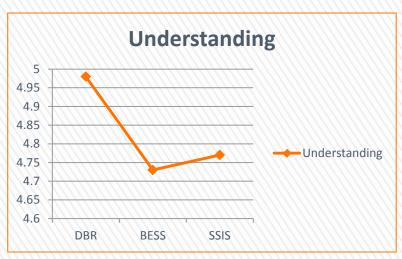
Potential Benefits of Using Interventions with Self-**Monitoring and Group** Contingencies:

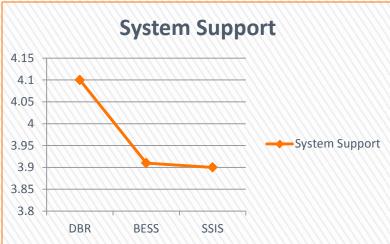
- Provides immediate and consistent feedback about student behavior
- > Promotes student awareness of hehavior
- > Encourages student to take responsibility
- > Increases communication between student and adult about student performance
- > Helps student develop a sense of independence and self competence

» Comparison of teacher ratings, student ratings, and external observations

» Examine traits (AE, DB, RS) and methods (Teacher DBR, Student DBR, Teacher rating scale, Student rating scale, and SDO)

Is it Usable? - Teacher Perceptions of Student Behavior & Behavior Assessments

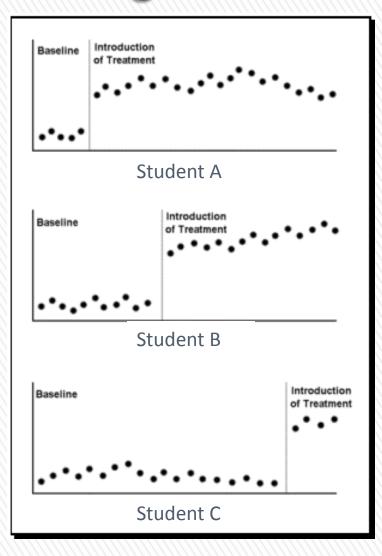




Note: Higher System Support Scores reflect a perception to implement with greater independence

- » Examining how teachers assign ratings using DBR
 - > Why a rating of 8 vs 7?
 - > What dimensions of behavior are reflected in the rating?
- » Examining teacher perceptions of usability
 - > Identify
 strengths/weaknesses/
 barriers

Continued Exploration of DBR Applications in Progress Monitoring



- » Examining DBR as a progress monitoring tool
 - Is it sensitive to change for students with mildmoderate behavioral challenges?
- » Further evaluate DBR relative to SDO
 - > Implications for decisionmaking
- » Investigate use and influences on problem-solving behavior



» What are the possibilities across assessment, communication, intervention?

Closing Considerations...

www.directbehaviorratings.org





Other Resources

www.intensiveintervention.org www.interventioncentral.org

National Center on INTENSIVE INTERVENTION at American Institutes for Research

How can schools help students with severe and persistent learning or behavioral needs?

Intensive intervention (both academic interventions and behavior interventions) is intended to help these students. The Center's approach to intensive interventions is databased individualization (DBI). DBI use data to individualize instruction, increase engagement, and provide opportunities to practice new skills. Within multi-tiered systems of supports such as RTI or PBIS, this is often considered Tier III. Learn more about the DBI Framework

(/resource/data-based-individualization-frameworkintensive-intervention), meet Center Staff (/aboutus/staff), visit the Tools Charts (/resources/toolscharts) to find evidence-based progress monitoring tools or interventions, and view the DBI Training Series (/content/dbi-training-series) to find professional development materials to support the Implementation of DBI

Learn the Language of Intensive Intervention

Data-Based Individualization

Intensive Intervention (#2)

Intervention Adaptation (#3)

Intervention Platform (#4)

Multi-Tiered System of Support

Positive Behavioral Interventions and Supports (#6) Progress Monitoring (#7)

Intervention Adaptation

Teachers use data (including progress monitor and diagnostic data) to revise, intensify, or individualize an intervention to target a stude specific needs. Strategies for intensifying an intervention may occur along several dimension ncluding but not limited to changes to group : frequency, or duration; or changes to the instructional principles incorporated within the intervention or in providing feedback.

Ask the Expert

(/implementation) in schools and districts.

How does the use of evidence-based practices and the approach to instruction and intervention change as behavior or academic issues become more severe?



sk-the-expert/2014aprill

Watch and listen as Dr. Chris Riley-Tillman, a Professor at the University of Missouri and NCII Center Trainer, discusses how evidence-based

Recent Resources

CEC 2014 Strand I Presentations: Using Intensive Intervention to Meet the Academic and Behavior Needs of

d-i-presentations-using-intens meet-academic-and-behavior)

Direct Behavior Rating Overview (/askthe-expert/dbr-overview)

NCII Staff Present at Council for wal Children Comment

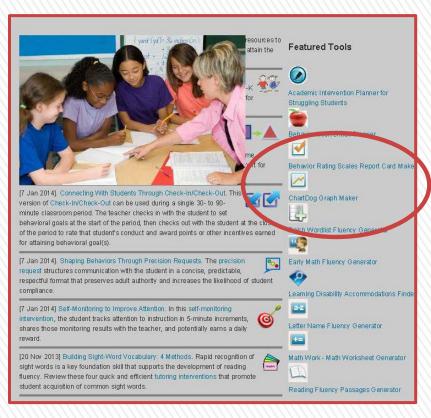
Expo 2014 (/resource/ncii-staff-present-councilexceptional-children-convention-and-expo-2014)

Designing and Delivering Intensive Intervention in Behavior (DBI Training Series Module 8) (/resource/designing-and-

Register for Our Next Webinar

On Tuesday April 29th, 2014 from 3:00 - 4 pm ET NCII will host a webinar, So What of do Now? Strategies for Intensifying Intervention when Standard Approaches Do Wark, presented by Dr. Sharon Vaughn of University of Texas Austin and Dr. Rebecc Zumeta of NCII. This webinar will discuss approaches to intensifying academic interventions for students with significant persistent needs.

Click here to register for the webinar (https://air-license.webex.com/air-license/onstage d=5903850368c=a) re.





Website: www.directbehaviorratings.org

Contact: sandra.chafouleas@uconn.edu

fgmiller@umn.edu



Questions, comments, and thanks....