Nine Categories on the ECBI: A Comprehensive View of ADHD **Behavior Problems** JCTSN Lindsay A. Forte, Millie Zhou, Deanna K. Boys, and Susan G. Timmer



ABSTRACT
This study uses two groups of clinic-referred children, one with a diagnosis of ADHD and one with low attention problem behaviors. We examine whether 9 categories on the ECBI can give a more comprehensive view of behavior problems than the Intensity and Problem Scales alone. Results showed that children with a diagnosis of ADHD scored significantly higher on all scales/categories of the ECBI, and showed more of an improvement on the <i>Attention Problems</i> category than the other group. The implications of these findings support the use of 9 categories of behavior as a supplement to the ECBI's Intensity and Problem Scales in order to get a more diverse look at children's problem
INTRODUCTION
The Eyberg Child Behavior Inventory (ECBI) assessment was developed to measure common disruptive behavior problems exhibited by children aged 2 to 16 years (Eyberg & Pincus, 1999). The ECBI measures child behaviors on an Intensity Scale to reflect the frequency of problem behaviors and a Problem Scale to reflect the degree to which parents tolerate behaviors. At the UC Davis CAARE Center, the ECBI Intensity and Problem Scales have been supplemented with 9 different child behavior problem categories (e.g., Dawdling, Table Manners, Obedience, Opposition/Anger, Verbal Expression, Destructiveness/Carelessness, Provocation/Fighting, Interrupting/Attention Seeking, and Attention Problems/Overactive) to give a more diverse picture of children's behavior problems and facilitate the development of treatment goals. Dr. Zebell at the CAARE Center used these categories to develop an ECBI Coaching Words form that therapists can use to focus on behaviors. ECBI Intensity and Problem Scales can be elevated for any number of behavior problems. Scale scores do not give information about change in targeted behavior
problems. Attention Deficit Hyperactivity Disorder (ADHD) is characterized by symptoms of hyperactivity and inattention (DSM-IV, 1994), so it could be expected that children from this sample would have elevated scores on the "attention problems/overactive" category.



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1: Desci	riptive Statis	tics	
Demograph	ics	ADHD Group	Low Attention Problems Group
ild* – % Boys		79.3	52.2
tionship – % B	io Parent	58.6	53.6
% Ot	ther Relative	10.3	21.7
% Fc	oster	31.0	24.6
icity – % Cauc	asian	31.0	50.7
% Africa	an American	31.0	21.7
% Latino	D	24.1	21.7
% Other	r	13.8	5.8
NCITY – % Cauc	casian	48.0	43.8
% Latin		12 0	23.0
% Other	r	4.0	3.1
Substance Exp	osure (%)	76.0	66.7
tal Status –	%		20.4
Cohabiting		44.8	39.1
– % Women		96.6	91.3
nent History –	% Without	17.2	20.3
ild Age (SD)*		5.48 (1.59)	4.01 (1.32)
vr Age (SD)		20.04 (12.33) 12 00 (2 51)	37.30 (13.01) 12 15 (2.21)
ars ugvr Education (SD)		1 68 (1 19)	1 69 (1 25)
5) Significant	. ,	. ,	. /
) group has sig d with ADHD.	gnificantly more boys The ADHD group is sig	because boys are more likely gnificantly older, but Child Ag	than girls to be se was controlled for in
gory that had 2: Differ	an effect.	les and Subscale	25
	Difference betwee	n Both groups' change	Only ADHD group
	ADHD vs. non-ADH	D from pre- to mid- treatment	change from pre- to mid-treatment
	* * *	***	NS
	***	1	
iners	* * *	T NS	CVI NIS
2	***	**	NS
n	* * *	***	NS
oression	***	**	NS
eness	* * *	NS	NS
n	* * *	***	NS
ng	* * *	NS	NS
Problems	* * *	NS	***
* p<0.05, ** p ignificant	<0.01, ***p<0.001		
ntensity	Scale		
	ECBI Int	ensity Scale	
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) -			
			🗖 Pre
			🗖 Mid
	Low	ADHD	
	blem/Overa	ctive Category	
tion Pro		oblem Intensitv	
tion Pro	Attention Pr	······	
tion Pro	Attention Pr	-	
tion Pro	Attention Pr	-	
tion Pro	Attention Pr		
tion Pro 5 - 0 - 5 -	Attention Pr		
tion Pro 5 - 5 - 5 - 0 -	Attention Pr		ADHD Low
5 - 5 - 5 -	Attention Pr		ADHD Low
5 - 5 - 5 - 5 -	Attention Pr		ADHD Low
5 -	Attention Pr		ADHD Low

- likely to be males.
- significantly.

- needs of the client. different behavior problems. scores.
- treatment.

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RESULTS cont.

Children in the ADHD group were more likely to be older than children with low levels of attention problems, and more

Overall, the ADHD group had significantly higher ECBI scores on both the Intensity and Problem Scales than the low attention problem group, but showed similar reductions in behavior problems from pre- to mid-treatment (see Graph 1) The ADHD group had significantly higher scores on all 9 categories of behavior than children in the low attention problem group (see Table 2).

We observed significant decreases for both groups of children from pre- to mid-treatment on most, but not all scales. *Dawdling, Destructiveness* and *Interrupting* did not change significantly for either group.

Children in the ADHD group showed significant reductions in attention problems from pre- to mid-treatment, while children with few attention problems did not change

DISCUSSION

The purpose of this study was to examine the usefulness of 9 categories of behavior on the ECBI in pinpointing specific problem areas for children, making it easier for therapists to generate specific treatment goals and tailor their coaching to the

Analyses investigating differences in ECBI Intensity and Problem Scales showed that children with ADHD diagnoses had more severe behavior problems than children with few attention problems, but that both groups' behavior problem levels decreased at a similar rate from pre- to mid-treatment, suggesting that the differences between groups are more a question of the intensity rather than the specific nature of

However, results of analyses of the 9 Intensity and Problem subscales suggested that the differences between these groups of children were both a reflection of variations in intensity and in the nature of the problems. While both groups of children were reported as having significantly lower scores at mid-treatment on many scales, only children with ADHD diagnoses showed significant reductions in *Attention Problem/Overactive* subscale

The ECBI Coaching Words form with 9 categories of disruptive behaviors has demonstrated its usefulness in helping PCIT therapists identify positive behavioral opposites to different types of problems. The results of this study shows that scores for these categories have a promising clinical usefulness, discriminating between children with ADHD and children with low levels of attention problems when measured pre- and mid-

The findings of this study support the use of these 9 behavior categories in identifying specific patterns of behavior in a diagnostic group of children.

CLINICAL IMPLICATIONS

The results of this study reinforce the usefulness of supplementing the two ECBI main scales with 9 specific categories of behavior in order to better identify treatment goals.