Parent-Child Interaction Therapy for Children with Selective Mutism (PCIT-SM)

Allison Cotter, Mitchell Todd, and Elizabeth Brestan-Knight

Abstract

Selective mutism is a psychological disorder in which children do not speak to others in certain social settings (e.g., school, daycare) even though they are able to speak in other settings, such as at home with family. Treatment options are often limited for children with this disorder due to the young age of onset, low prevalence rate, and type of problematic behavior displayed by the child (e.g., nondisruptive, lack of speech to clinicians). Parent-child interaction therapy (PCIT) has been adapted to fill this gap and to provide appropriate treatment for children with selective mutism. The current chapter includes a description of the clinical presentation of selective mutism as well as the etiology and maintenance of this disorder. Following a discussion of the need for a lateral extension of the original protocol for this population, the chapter describes the adapted PCIT model, including the altered assessment procedures

and treatment phases. Information is also provided about medication use for selective mutism. Finally, future areas for research and clinical development regarding the adapted treatment model are discussed.

Sarah's mother was baffled when she received news from the daycare worker that her daughter had not spoken to anyone in the center since her arrival. It was difficult to imagine how her goofy and chatty girl at home became stone-faced and reserved in daycare. Even though Sarah had always been a bit slow-to-warm-up when introduced to new people, she was open and expressive with her parents and siblings at home. Having experienced her own anxiety, Sarah's mother could understand her daughter's hesitation in new social situations. Still, she hoped that this behavior would change as Sarah grew more accustomed to the new setting and that her daughter would eventually "outgrow" her shyness. Unfortunately, Sarah's silence persisted despite attempts and accommodations made by staff at the center, continuing even as she began Kindergarten. Feeling frustrated and powerless to help her daughter speak at school, Sarah's mother was referred by the teacher to a local psychology clinic. Following a comprehensive evaluation, Sarah was diagnosed with selective mutism (SM)

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and recommended for treatment services to address her lack of speech.

The Need for a Parent-Child Intervention to Treat SM

SM is a psychological disorder in which children do not speak to others in certain social settings (e.g., school or daycare) even though they are able to speak in other settings, such as at home with family. It was originally known as "voluntary aphasia" or "elective mutism" based on the false assumption that defiance or choice motivated the child's refusal to speak in the required social situations (Kussmaul, 1887; Muris & Ollendick, 2015; Tramer, 1934). However, more recent conceptualizations have recognized the lack of motive or agency among children with SM, rebranding the disorder as "selective" and reclassifying it under the anxiety disorders in the recently released fifth edition of the Diagnostic and Statistical Manual of Mental Disorders (DSM-5; American Psychological Association [APA], 2013). Although estimated prevalence rates of less than 1% suggest the rarity of SM (e.g., Bergman, Piacentini, & McCracken, 2002; Viana, Beidel, & Rabian, 2009), this disorder has the potential to cause great impairment in academic achievement, social relations, and mental health functioning (Busse & Downey, 2011; Muris & Ollendick, 2015; Steinhausen, Wachter, Laimböck, & Metzke, 2006). Moreover, without appropriate knowledge of the disorder, parents and teachers often feel helpless in the face of a child's refusal to speak and may unintentionally reinforce these behaviors, which can exacerbate and maintain the lack of speech. As such, treatment for SM is vital to restore the child's communicative abilities and to break the maintaining cycle of avoidance.

In response to this need, parent–child interaction therapy (PCIT) was adapted to treat children with SM (Carpenter, Puliafico, Kurtz, Pincus, & Comer, 2014; Kurtz, 2015). This adapted version of PCIT for selectively mute children (PCIT-SM) utilizes behavioral techniques in exposure situations to decrease avoidance and to promote the child's speech, beginning in the clinic and expand-

ing to other social settings. Although PCIT-SM has yet to be empirically tested using randomized and controlled methods, it has shown initial success for increasing children's verbal responses, such as spontaneous speech (Mele & Kurtz, 2013). This chapter will begin by describing the clinical presentation of SM as well as the etiology and maintenance of the disorder. Following a justification for the lateral extension of PCIT into this population, we will describe PCIT-SM, including the adapted assessment procedures and treatment phases. Finally, future areas for research and clinical development will be discussed.

Clinical Presentation of Selective Mutism

Diagnostic Criteria

The DSM-5 diagnostic criteria for SM include a "consistent failure to speak in specific social situations... despite speaking in other situations," with the lack of speech not attributable to knowledge or comfort with spoken language (APA, 2013). Although children with SM often speak to their close family members (e.g., parents, siblings) in the home, they do not initiate or reciprocate speech with others (e.g., teachers, classmates, extended family members, strangers) in public settings, such as school or a restaurant. Given that it is normative and developmentally appropriate for children to experience shyness and behavioral inhibition, such as limited speech, when facing new situations, a diagnosis of SM cannot be made during the first month of a new school year (APA, 2013). Children are likely to display increased anxiety and worry when beginning a new school year, but this behavior typically dissipates over time. Additionally, the DSM-5 specifies that the child's behavior must interfere with "educational or occupational achievement or with social communication" and cannot be better explained by another disorder (e.g., communication disorder, psychotic disorder, autism spectrum disorder; APA, 2013).

Typically, parents report that children with SM interact verbally (e.g., talking, reading, singing)

at home but are unable to speak to their teachers and classmates in school, relying on nonverbal communication of needs. Still, the severity of SM symptoms varies on a case by case basis and may include differing levels of nonverbal communication (e.g., facial expressions, gestures, nodding). Across the continuum, some children may appear "frozen" with limited body movement and facial expressions, while others may utilize nonverbal gestures to communicate needs and even make noises, such as clicking or whistling (Perednik, 2011). For example, one mother reported that her daughter made noises and appeared jittery and energetic in settings where she failed to speak as if the pressure to speak was building and "trying to burst out of her."

Development and Course of SM

The age of onset for SM is most commonly between 2 and 5 years; however, symptoms are often not apparent until children enter the school setting. As such, referral for services and subsequent diagnosis of SM tends to occur later, creating a gap between onset and treatment (APA, 2013; Viana et al., 2009). Although not consistently found, some research suggests that SM is more prevalent in females than males (Leonard & Dow, 1995; Standart & Le Couteur, 2003). Relatively little is known about the persistence and developmental outcomes of SM without treatment. One long-term study suggests that the symptoms of SM either "disappear quite suddenly" in adolescence or slowly improve over time (Steinhausen et al., 2006). Reported complete remission rates for the diagnosis range from 39% to 100%, with more recent, controlled findings of 58% remission in SM symptoms by age 22 (Remschmidt, Poller, Herpertz-Dahlmann, Hennighausen, Gutenbrumer, 2001; Steinhausen et al., 2006). However, individuals with prior history of SM may suffer from higher rates of psychiatric disorders, even into adulthood, as well as social and academic deficiencies (Remschmidt et al., 2001; Steinhausen et al., 2006).

Comorbidity

Children with SM may exhibit additional internalizing and externalizing problems. High rates of comorbidity have been shown between SM and other anxiety disorders, including social anxiety disorder, separation anxiety disorder, and specific phobia (e.g., APA, 2013; Muris & Ollendick, 2015; Viana et al., 2009). For example, a mother of a 6-year-old girl with SM stated that her daughter exhibited anxiety in other situations, such as eating in public, walking into school, and being near insects. In addition, some children with SM have been found to display controlling, oppositional, and aggressive behaviors although this is less common and consistent (APA, 2013; Viana et al., 2009). However, these internalizing and externalizing symptoms may be difficult to distinguish among children with SM. For instance, a child with SM who refuses to sit on the mat for circle time because of an insect (i.e., specific phobia) is likely unable to articulate his or her concerns to others. As such, the teacher may be unable to figure out the true reason for the child's behavior (i.e., a fear of bugs), inaccurately perceiving the behavior as defiance or opposition. It has also been suggested that children with SM do not exhibit defiance across all settings but. rather, mainly in situations that require speech (Viana et al., 2009).

Etiology and Maintenance of SM

Etiology

As with many psychological disorders, there are multiple factors that are believed to contribute to the development of SM, including genetic, temperamental, environmental, and neurodevelopmental factors (APA, 2013; Muris & Ollendick, 2015; Viana et al., 2009). These features predispose children to be at higher risk for developing SM. First, a family history of SM or other anxiety disorders appears to contribute a genetic predisposition as well as possible environmental effects through behavioral modeling of anx-

CBT activities (Kurtz, 2015).

ment, making it even more difficult to conduct

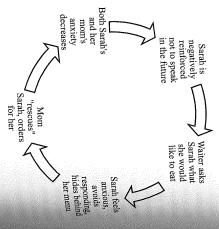
such as more negativity and control, overinious behavior. Certain parenting behaviors, granting, have been associated with anxiety in volvement, and less warmth and autonomyder Bruggen, Stams, & Bögels, 2008). Moreover, children (McLeod, Wood, & Weisz, 2007; Van of normative children (Edison et al., 2011). be more protective and controlling than parents parents of children with SM have been shown to

to display certain temperamental features at an shy, or behaviorally inhibited with persistent early age. They are more likely to be clingy, fearfulness and avoidance when confronted Ford, Sladeczek, Carlson, & Kratochwill, 1998; with new situations, objects, and people (e.g., developmental delay, motor difficulties, auditory as well as neurodevelopmental disorders (e.g., guage development or a communication disorder, ence of speech problems, such as delayed lan-Steinhausen & Juzi, 1996). In addition, the presprocessing deficits) have been associated with Finally, the prevalence of SM has been found to SM (APA, 2013; Muris & Ollendick, 2015). be due to problems related to acculturation, learnbe higher among immigrant children, which may nation (Muris & Ollendick, 2015; Perednik, ing another language, peer rejection, or discrimi-2011; Viana et al., 2009). Second, children who later develop SM tend

Psychology Consulting PC (2015) based on Kurtz Mutism maintenance, cycle of Selective Fig. 1 Example of

Maintenance

While it is important to note features that may distress, specifically those that require speech to avoid situations that increase their anxiety and evant for treatment. Young children with SM tend the maintenance of the disorder is especially relpredispose children for the development of SM, often aided by parents and other family members enabling their reluctance to speak. Ultimately, this situations by either speaking for them or by who "rescue" them from these anxiety-provoking (Muris & Ollendick, 2015). Their avoidance is avoidance and interference creates a negatively hood that they will not speak in future situations alleviated in the moment, increasing the likelireinforcing cycle in which the child's anxiety is is exhibited in Fig. 1. Moreover, parents often (Kurtz, 2015). One possible scenario of this cycle placed in an anxiety-provoking situation. This experience anxiety themselves when their child is parental anxiety then decreases only when they SM may begin to "speak for them" or may their anxiety in these encounters (Kurtz, 2015) behaviors are negatively reinforced by reducing avoidant behaviors and the parent's rescuing "rescue" their child. As such, both the child's explain to others that the child does not talk Even within a classroom, peers of a child with



allowing the child to escape speaking demands. rewarded with praise or a small prize. considered an "approach" behavior to be (e.g., whispering, one-word responses) may be action that is similar or closer to verbalizing Depending on a child's severity of SM, any approach behavior to promote disrupted and substituted with reinforcement for In treatment, this cycle of avoidance must be speech.

Why PCIT to Treat SM?

ment as well as the maintaining cycle associated of speech to clinicians; Zakszeski & DuPaul, displayed by the child (e.g., nondisruptive, lack prevalence rate, and type of problematic behavior dren with SM due to the young age of onset, low treatment options are currently limited for chilhelp children manage their anxiety. However, with SM, treatment is vital to restore speech and Given the level of social and academic impairoriginally designed for older individuals (e.g., models to fill this gap. Traditionally, downward highlights the need to extend other intervention 2017). The absence of targeted treatments for SM and lateral extensions of efficacious treatments developmentally appropriate for the child target adults, adolescents) with younger populations by ations. Downward extensions use interventions have been performed to apply them to new poputalk to their clinician at the beginning of treatform (Carpenter et al., 2014; Kingery et al., below the age of seven may not be able to perlaking, cognitive restructuring) that children relies on some cognitive tasks (e.g., perspective tren with SM due to the young age of onset. CBT suggested, they may not be appropriate for chilcognitive-behavioral therapy (CBT), have been ward extension of treatments for anxiety, such as cinc needs of younger children. Although downinvolvement may be increased based on the speeach concepts, treatment vocabulary may be nore hands-on activities may be integrated to audience (Carpenter et al., 2014). For example, altering the delivery of information to be more 2006). Moreover, children with SM often will not utered to be more easily understood, and parental

speech), while maintaining fidelity to the treatresult, the structure and content of the PCIT pro-PCIT to children with SM is less appropriate ences between the standard PCIT protocol and Table 1 outlines the major similarities and differment model as suggested by Eyberg (2005). target behavior for children with SM (i.e. tocol have been adapted to address the specific are not as applicable for this population. As a behaviors (i.e., promoting compliance), which 2015). However, the standard application of forcing cycle that often maintains SM (Kurtz, it suitable for interrupting the negatively reinsent a lateral extension of an efficacious treatment than originally intended. The adaptations sugthe adaptation made for PCIT-SM given that the protocol focuses on different ciples that are taught to parents and are practiced treatment model, PCIT utilizes behavioral prinnalizing problems (Carpenter et al., 2014). As a originally targeted for young children with extergested for PCIT to treat children with SM repreapplication of interventions designed for simiwithin the parent-child interaction, which makes larly aged populations to treat a different disorder By contrast, lateral extensions involve the

PCIT-SM

Assessment Procedures

Psychology Consulting PC, 2015). Still, compared of the child's current level of functioning (Kurtz confirm a diagnosis of SM and to check for tests, developmental history, and teacher input information may include speech and language comorbid problems, thus obtaining a full picture as well as parent report measures. Other relevant dures that incorporate semi-structured interviews This pretreatment evaluation allows clinicians to ing treatment undergo initial assessment proce-(Kurtz, 2015). Parents of children with SM seekis the reliance on assessment to guide treatment PCIT protocol reflected in the adaptation for SM One of the major components of the standard

Table 2 Psychometric properties for available measures of SM

A PCIT-SM similarities and differences comparison

TOT Dancier in Section	Use of therapist modeling of skills	Use of exposure in session Use of token economy Practice frequency/intensity Default treatment modality Use of parental questions	Second treatment component Inclusion of other individuals	CDI "Don'ts"	CDI "Do's"	CDI Mastery Criterià	to inform coaching Assessments used through treatment	forward in treatment Use of contingency management Coding of parent-child interactions	Components Agents of change in therapy Use of mastery criteria to move	Table 1 PCIT and PCIT-SM similarities and differences comparison
	Minimal	No No Spaced practice (weekly) Individual parent-child Discouraged in CDI and PDI	Parent-Directed Interaction (PDI) Minimal (e.g., siblings)	Questions, Commands, Criticisms	Labeled Praises, Reflections, Imitation, Behavior Descriptions, Enjoyment	Coding System 10 Labeled Praises, Reflections, Behavior Descriptions 23 Questions, Commands, Criticisms	Eyberg Child Behavior Inventory Dyadic Parent-Child Interaction	Yes Yes	PCIT Parents Yes	les and differences companison
	Extensive	Yes Yes Massed practice (intensive treatments) Group Discouraged in CDI Required in VDI	Verbal-Directed Interaction (VDI) Yes (e.g., therapist, graduate/ undergraduate students, teacher, peers, other confederates)	Questions, Commands, Criticisms, Mind Reading	Labeled Praises, Reflections, Imitation, Behavior Descriptions, Enjoyment, Question End-Arounds, Playing to Child's Strengths	System-Kevised 10 Labeled Praises, Behavior 10 Labeled Praises, Behavior Descriptions 23 Questions , Commands, Criticisms 26 Qogs effective follow-through of CDI Verbalization sequences Verbalization sequences	Selective Mutism Questionnaire Selective Mutism Interaction Coding	Yes Yes	PCIT-SM Parents Yes	

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Consulting PC Psychology

(SM-BOT)

control parental

Note: Based on Kurtz Psychology Consulting PC (2015) and Kurtz (2015)

to other psychological disorders, standardized measures of SM are limited.

IV:C/P; Albano & Silverman, 1996) is a semi-DSM-IV: Child and Parent Versions (ADISstructured interview that assesses a range of child ria. The ADIS-IV includes a brief screener modinternalizing problems using the DSM-IV critespeech across three domains (home, school, pubis a 17-item parent-report measure of child Bergman, Keller, Piacentini, & Bergman, 2008) tion, the Selective Mutism Questionnaire (SMQ; to parents (Albano & Silverman, 1996). In addiule for SM, which takes 5-10 min to administer dren with SM and those without the disorder. lic) that has preliminary normative data for chil-The Anxiety Disorders Interview Schedule for

Finally, a related 8-item teacher-report measure School Speech Questionnaire (SSQ; Bergman et al., 2002). Parent and teacher ratings on these of child speech in school is available called the measures should be integrated with the child's similar to the use of the Eyberg Child Behavior track the child's progress throughout PCIT-SM, ment. Additionally, the SMQ could be used to history) when confirming a diagnosis at pretreatdevelopmental history (e.g., age of onset, family Inventory (ECBI; Eyberg & Pincus, 1999) in vided in Table 2. chometric evidence for these measures is pro-PCIT (Kurtz, 2015). Information about the PSY

tem have also been designed for children with SM A behavioral observation task and coding sys-

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				Convergent	Treatment
asure	Features	Administration Reliability	Reliability	validity	sensitivity
Anxiety	Semi-	Child and	к coefficient	Association	No information
orders	structured	parent reported	of diagnosis:	between	available
rview	interview	symptoms	0.63 - 0.80	ADIS-IV: C/P	
edule for	Symptoms		ICC of	diagnoses and	
M-IV:	either present		symptom	MASC anxiety	
ld and	or absent		severity:	factors	
ent			0.78 - 0.95		
sions					
OIS-					
C/P)					
ective	17-item	Parent-	Internal	Association with	Associated with
tism	4-point scale	reported	consistency:	ADIS-IV SM	therapist reports
estionnaire	assessing	symptoms	0.65 - 0.91	CSR	of changes in
Ō	frequency and		3-factor	Association with	child speech
	distress		structure	SASC-R total and MASC	
				social anxiety scales	
100l Speech	8-item	Teacher report	Internal	No information	No information
estionnaire (Q)	4-point scale		Consistency: 0.94–0.96	available	available
ective	Standardized,	Three	No	No information	Associated with
tism	unobtrusive	5-minute	information	available	increased child
navioral	behavioral	segments;	available		verbalizations
servation	observation	increasing			after brief
*		degree of			treatment

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Letamendi et al. (2008); Mele and Kurtz (2013); Silverman, Saavedra, and Pina (2001); Wood, Piacentini, Bergman, McCracken, and Barrios (2002) Note: Psychometric information collected from Bergman et al. (2002); Bergman et al. (2008); Carpenter et al. (2014);

SASC-R Social Anxiety Scale for Children-Revised Disorders Schedule for DSM-IV: Child and Parent Versions, Selective Mutism module, clinician severity rating, ICC interclass correlation, MASC Multidimensional Anxiety Scale for Children, ADIS-IV SM CSR The Anxiety

of the DPICS. Next, a stranger enters the clinic child play alone in a clinic room while being ent-child task that includes five segments (see Fernandez, & Nelson, 2014), which was devel-Coding System (DPICS; the segment. These two situations are repeated in forced choice question to the child at the end of using the PCIT-SM "Do" skills, asking one room and engages with the parent and child ror, similar to the Child-Led Play (CLP) portion observed by the clinician through a one-way mir-Table 2). During the first phase, the parent and oped for PCIT. The SM Behavioral Observation based on the Dyadic Parent-Child Interaction lask (SM-BOT; Kurtz, 2008) is a baseline par-Eyberg, Chase,

choice question; Kurtz, 2015) observe the child's natural speech pattern with the time (e.g., from the first to the second forced lihood of responding to a stranger increases over their parent (i.e., the first segment), but their like-SM talk significantly more in the presence of just data on the SM-BOT suggest that children with for the family (Carpenter et al., 2014). Preliminary to an unfamiliar person, serving as baseline data parent, to observe the parent's role in maintaining PC, 2015). The SM-BOT allows the clinician to Kurtz, 2008, 2015; Kurtz Psychology Consulting reading tests in school (Carpenter et al., 2014; SM, and to assess the child's willingness to speak

throughout treatment as parents work towards coded at this pretreatment observation and In PCIT-SM, parent and child behaviors are

a "laux testing" situation that simulates oral and an A-B-A-B design, with the final segment being

Parent-Child Interaction Therapy for Children with Selective Mutism (PCIT-SM)

Masty, 2007) is used to classify adult and child System-Revised (SMICS-R; Kurtz, Comer, & reaching the mastery criteria. Adapted from the DPICS, the Selective Mutism Interaction Coding the codes overlap with the DPICS scheme (e.g., verbalizations into categories. Although some of response to the adult during an interaction (Kurtz, type and focuses more on the child's verbal reflection, labeled praise, behavior description), emphasis of the DPICS scheme and the original than their compliance to commands, which is the the child's verbal responses to prompts rather 2015). As such, the SMICS-R focuses more on the SMICS-R differentiates questions based on a verbal attempt (VA), noncompliance to the question (Q-FC). The child's response to this dolls?" this would be coded as a forced choice ask the child "Do you want to play with Legos or PCIT protocol. For example, if a parent were to prompt (NCV), or pointing (PT). Initial research question could range from a verbal response (CV), respond to some prompts (e.g., direct command to using either a labeled praise or a reflection after suggests that anxious children are more likely to

than others (e.g., indirect commands, neutral talk; speak, forced choice and open-ended questions) in the SMICS-R. 2013; Masty, Kurtz, Tryon, & Gallagher, 2009). Table 3 presents an overview of the major codes Kurtz, Comer, Gallagher, Hudson, & Kendall,

Child

CV

Child verbal answer

CHILD: "The red block."

PARENT: "Do you want the blue block or the red block?"

Table 3 (continued)

Person Code Description

Child-Directed Interaction (CDI)

Mastery Criteria

skills. Given that children with SM often do not ents are working towards mastery of the PRIDE first phase of PCIT-SM is CDI, during which par-Consistent with the original PCIT protocol, the PCIT-SM is 80% effective follow through of a questions, commands, and criticisms. An addibehavior descriptions along with fewer than three only required to have ten labeled praises and ten talk at the beginning of treatment, parents are "CDI sequence," which is defined as parents tional mastery requirement for parents in

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rson	9 9
Person Code Description Example	Table 3 Major codes of the Selective Mutism Interaction Coding System-Revised (SMICS-R)
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Parent Person

NO Code

Yes/no question Forced choice question

"Do you want the blue block or the red block?"

"How does that make you feel?"

"Do you want the blue block?"

QEM

Question about emotions,

RHO S S

ВD PNG

Acknowledgement of child's verbal or nonverbal communication Unlabeled praise Labeled praise for verbal behavior Labeled praise for non-verbal	Pointing question Behavior description Reflection	motivations, or thinking of the child Question with unknowable answer Reflective question
CHILD: "My favorite color is green" PARENT: "Okay" "Great job" "Great job using your words" "Great job coloring your picture"	"Where should I put that puzzle piece?" "You're drawing the ocean blue" CHILD: "My favorite color is green" PARENT: "Your favorite color is green"	"How does that make John feel?" CHILD: "My favorite color is green" PARENT: "Your favorite color is green?"

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ΛďΤ Ş

Direct command

Denavior

DCV DC LPNV

Negative talk—verbal

Negative talk

Indirect command to verbalize Indirect command Direct command to verbalize

"Tell me where the blue block is, okay?" "Please tell me where the blue block is." "Please hand me the blue block." "Don't climb on the table." "Hand me the blue block, okay?" "Don't talk right now."

> NCV NC S Ħ SVA S_{N} X Ĭ SNS S Noncompliance to a prompt for Noncompliance Compliance Verbal yes/no verbalization Head gesture Spontaneous verbal attempt Nonspeech verbalization Verbal attempt Spontaneous nonspeech verbalization "Bow-wow!" Spontaneous speech PARENT: "Do you want the blue block?" CHILD: (does not respond after five seconds) PARENT: "Please take the blue block." PARENT: "Do you want the blue block?" CHILD: (take the red block) CHILD: (takes the blue block) PARENT: "Please take the blue block." CHILD: (nods) CHILD: "Blue block." PARENT: "What?" CHILD: "Buba." "Where does this puzzle piece go?" CHILD: "Ruff-ruff." PARENT: "Do you want the blue block?" CHILD: "Sure." PARENT: "What?" CHILD: "Spff." PARENT: "Do you want the blue block?" CHILD: "Yes." PARENT: "Do you want the blue block?"

Note: Based on Kurtz et al. (2007) and Kurtz Psychology Consulting PC (2018)

children begin to receive positive reinforcement to assist generalization to other settings and that ensure that parents "overlearn" the PRIDE skills tocol (Kurtz, 2015). These mastery requirements believed to be equally reinforcing for the child in tion is considered appropriate as these skills are this sequence, using a labeled praise or a reflecevery time the child speaks (Kurtz, 2015). For tor speaking. PCIT-SM, diverging from the original PCIT pro-

codes are assigned to labeled praises of verbal compliant or appropriate behavior (e.g., labeled but the skills focus on the child's speech (e.g., skills compared to the standard PCIT protocol, uvely; Kurtz et al., 2007). PCIT-SM has addichange is reflected in the SMICS-R as different labeled praise for talking) rather than the child's The CDI phase uses similar "Do" and "Don't" and nonverbal behavior (LPV and LPNV, respec-Praise for using gentle hands; Kurtz, 2015). This

session. balization or approach behavior a child makes in tantly, to provide positive attention for every vercoded as a command and would be discouraged color," which allows the child to respond without tion, the parent may say "point to your favorite tional "Do" skills during CDI: (1) the use of in the parent-child interaction and, most imporskills are utilized in PCIT-SM to increase warmth ing what the child wants is a new "Don't" skill speaking. In standard PCIT, this phrase would be child's strengths by including activities that he or Psychology Consulting PC, 2015). These PRIDE verbally communicate (Kurtz, 2015; Kurtz ior tends to reduce the demand for the child to she enjoys. For example, to avoid asking a quesasking questions and (2) focus on playing to a "question end-arounds" to find ways to avoid that has been added for PCIT-SM, as this behavbehaviors. Avoiding "mind reading" or anticipatcompliance and more on reinforcing approach during CDI; however, PCIT-SM focuses less on

Parent-Child Interaction Therapy for Children with Selective Mutism (PCIT-SM)

Verbal-Directed Interaction (VDI)

In PCIT-SM, CDI continues until children appear ready to be prompted to speak or to use their second phase, known as Verbal-Directed sions to see if he or she will respond. Once a child may ask the child "probe" questions across ses-PC, 2015). For example, therapists and other staff "brave voice" at which point treatment enters the however, VDI focuses more on generalization of (PDI) phase in the standard PCIT protocol; is analogous to the parent-directed interaction begin the second phase of PCIT-SM. This phase verbally responds to these prompts, he or she may Interaction (VDI; Kurtz Psychology Consulting exposure tasks. In VDI, questions or commands speech to new environments and people using are provided to prompt children to verbalize, increasing the opportunity for them to receive skills as well as an effective sequence to prompt PDI, VDI includes specific "Do" and "Don't" Psychology Consulting PC, 2015). Similar to positive reinforcement for talking (Kurtz the child's speech.

VDI Dos and Don'ts

praise, reflection, behavior description), parents In addition to the three CDI skills (i.e., labeled child, to provide direct prompts to talk, and to forced choice or open-ended questions with the and other adults are encouraged to use either SMICS-R, questions are divided into three types Consulting PC, 2015). In PCIT-SM and wait 5 s for the child's response (Kurtz Psychology based on the child's response options: yes/no, parent who asks a child "Do you want any forced choice, and open-ended. For example, a tunity for them to avoid speaking by using non-SM, yes/no questions typically provide an opporthe two main response options. For children with candy?" is using a "yes/no" question as these are options (e.g., parent: "Do you want M&Ms or provide the child with two or more response respond. By contrast, forced choice questions verbal gestures (e.g., head nod, shaking head) to ent: "What candy do you want?"). During VDI, the child to provide a unique response (e.g., par-Twizzlers?"), and open-ended questions require

avoid using yes/no questions with the child, a direct command (e.g., "Tell me what candy you or open-ended questions, a new "Do" skill, and to parents are encouraged to use either forced choice instructed to prompt children to speak using a new "Don't" skill. Additionally, parents are are expected to wait 5 s as part of the VDI Following either commands or questions, parents "Will you tell me what candy you want?"). want.") as opposed to an indirect command (e.g., may remove an opportunity for them to talk. avoid speaking by using nonverbal gestures or (Kurtz, 2015; Kurtz Psychology Consulting PC, tive talk, and enabling the child's avoidance ing, yes/no questions, indirect commands, negasequence. VDI "Don't" skills include mind read-2015). These behaviors often allow children to

VDI Sequence

sequence begins with either a forced choice or specified VDI sequence for prompting children to Similar to the PDI time out sequence, there is a speak in PCIT-SM (Kurtz, 2015). A valid VDI reflection of the child's speech, ending the adult should use a labeled praise for talking or a open-ended question to the child. After asking a behavior (e.g., "I see you are nodding."), repeats at all, the adult acknowledges any nonverbal (e.g., pointing, shaking head) or does not respond sequence. If the child either responds nonverbally If the child responds verbally to the prompt, the question, the adult must wait 5 s for a response or reformats the question, and waits 5 s for the If the child does not respond or responds nonverbe followed by a labeled praise or reflection child to respond. Again, a verbal response should ronment in which the child responded to a verbal should either let the child know that the dyad will bally after 5 s for this second prompt, the adult tion of the VDI prompting sequence. small steps forward (Kurtz Psychology Consuling opportunity to practice what he or she can do with distress tolerance and provides the child with an prompt and continue practicing there. This CDI or move to the most recent activity or envipractice talking more later and shift back into sequence allows the child and adult to develop PC, 2015). Figure 2 provides a visual representa-

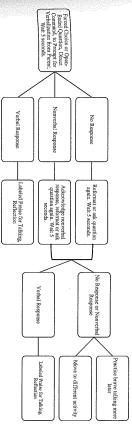


Fig. 2 Effective VDI sequence, based on Kurtz Psychology Consulting PC (2015)

Exposure in VDI

Consulting PC, 2015). For example, if a therapist changes made in session to one variable (setting, viduals in and out of the setting. To be successful tions of brave talking and to fade different indioutside of the clinic therapy room. In this way, the viduals, which often requires exposure activities speech across different settings and different indi-The main focus of VDI is to generalize the child's sions include: moving to another location (e.g., the Fish" in the therapy room, options for future sesand a child with SM have practiced playing "Go individual, or activity) at a time (Kurtz Psychology in this task, it is recommended that therapists limit therapist aims to support successive approximain their inability to maintain therapy gains. drastically increase the child's anxiety and result the location and activity constant, or playing a difand activity, adding another person while keeping waiting room) while maintaining the same people exposure situation in the therapy room before pro-Moreover, the therapist and child can practice an If too many aspects are changed at once, this may brent game with the therapist in the therapy room. Psychology Consulting PC, 2015). Although the situations in which they have already experienced begin PDI by giving easy-to-complete, play comsuccess to progress forward in treatment (Kurtz attempts to set children up for success by utilizing ance in the original PCIT protocol, PCIT-SM nands to increase the likelihood of child complianid's chance of success. Thus, just as parents gressing to the novel environment to increase the

exposure session. observe small yet noticeable changes with each symptom severity, therapists and parents should definition of progress is dependent on each child's

of the session, so they can have physical remindthe child to choose several prizes at the beginning points" tracker, 3-5 familiar games, prizes, and a paper, dry erase markers or pencils, a "brave execution of VDI exposure activities include havers of their incentives during exposure (Kurtz include "Go Fish," "Battleship," "Guess Who," is familiar and enjoys. Possible talking games important to include games with which the child ing" and should be viewed as an aid for children scripted language is "a starting point, not an endinclude pre-rehearsed questions on cards to help ing available supplies such as a dry erase board or Psychology Consulting PC, 2015). Psychology Consulting PC, 2015). In this kit, it is in new situations to promote success (Kurtz language that is used in the therapy room. This unfamiliar adults prompt children using the same Consulting PC, 2015). Some therapists may small bag for mobility (Kurtz Psychology "Spot It," and "Hangman." Therapists may allow Other recommendations to help improve the

Unique Features of PCIT-SM

changes were made to meet the unique needs of protocol are maintained in PCIT-SM, but some Several core components of the standard PCIT

does incorporate such behavioral methods. For rewards (Eyberg & Funderburk, 2011), PCIT-SM PCIT does not utilize token economy or physical children with SM (see Table 1). First, though example, the use of "brave points" for talking has of session (Kurtz Psychology Consulting PC, children receive prizes and privileges at the end charts that stipulate how many tokens are needed been introduced as a token economy for which speaking. As such, these rewards provide added reduced as the child becomes more comfortable at the beginning of treatment and may be faded or tangible rewards are typically used more heavily before a child receives a reward for talking. These 2015). Children may also have school behavior motivation for children to overcome the high that propels treatment forward (Kurtz, 2015). that require talking, creating initial momentum level of anxiety that they experience in situations serve a dual purpose in PCIT-SM to prompt and child loses, if a child cheats); however, games it may create a negative interaction (e.g., when a of games is traditionally discouraged in PCIT as ing activity meant to encourage speech. The use Second, games are used in PCIT-SM as a reward-

graduate students) in the treatment sessions. In viduals (e.g., therapist, graduate students, under-PCIT and PCIT-SM is the inclusion of other indiparents) are viewed as the main agents of change PCIT, primary caregivers (e.g., parents, grandparent is eventually faded out of PCIT-SM and (Eyberg & Funderburk, 2011). By contrast, the have limited interaction with the child directly for their child's behavior, and therapists often with SM have difficulty talking to unfamiliar replaced by the therapist. Given that children baton" (Kurtz Psychology Consulting PC, 2015). may be introduced, passing on the "talking fortable talking at which point another person faded into treatment until the child appears comreinforcement. Thus, the unfamiliar therapist is opportunities for the child to speak and receive individuals, exposure to others is vital to provide pattern in which the therapist enters the room and This fading of the therapist may follow a general gradually moves closer and interacts more with A third major difference between standard

the child. As this occurs, they should attend to the child responds, and the child's volume, ensuring amount of child verbalizations, how quickly the that they do not change dramatically throughout the fading process. Using this system, the "talking result, PCIT-SM utilizes more clinical assistants (Kurtz Psychology Consulting PC, 2015). As a of people with whom the child is able to talk through exposure, slowly increasing the number baton" will continue to be passed to others important to the treatment process and receive or bystanders, such as graduate and undergradu-Notably, parents receive coaching throughout coaching as well as live demonstration of skills. ate students. Still, parents are considered very coached while interacting with the child observe others (e.g., clinical assistants) being treatment to help promote skill acquisition and

Medication for Children with SM

Although behavioral interventions are the most (Viana et al., 2009; Zakszeski & DuPaul, 2017). highly recommended form of treatment for SM tion, such as selective serotonin reuptake inhibinized for certain SM cases (Carlson, Mitchell, & (MAOIs), to reduce symptoms has been recogtors (SSRIs) or monoamine oxidase inhibitors the value of incorporating psychotropic medicacacy of medication is currently limited as few 2016). However, empirical support for the effi-Segool, 2008; Manassis, Oerbeck, & Overgaard et al., 2016). As a result, clinicians are recomcontrols for confounding variables; Manassis characteristics (e.g., double-blind conditions, ate comparison groups, and other methodological studies include sufficient sample sizes, approprimended to conduct a detailed cost-benefit analymay be considered for children who demonstrate comes (Zakszeski & DuPaul, 2017). Medication with SM given their associated positive outshould be viewed as the first option for children et al., 2016). Psychosocial treatment programs necessary on a client-by-client basis (Manassis sis to determine if a referral for medication is PCIT-SM, or who do not experience symptom resistance to behavioral interventions, such as

6-8 12+

Table 4 Anecdotal PCIT-SM treatment trajectory Number of sessions Progression

Child should not appear frightened or

Parent-Child Interaction Therapy for Children with Selective Mutism (PCIT-SM)

\$ 2-3 Child should be talking to therapist therapist both in the room Child should be talking to parent(s) and agitated when starting sessions

Sessions may be conducted in child's Child should be talking to another adult without parent(s) in the room without parent(s) in the room

8-12 Child should no longer be nervous or teachers and/or peers without parent(s) in Child should be talking to multiple

Note: Based on Kurtz Psychology Consulting PC (2015) different people

agitated in talking across settings with

Psychology Consulting PC, 2015). psychological treatment, and who are not meeting bid disorders, who have poor response to prior who exhibit more severe impairment and comor-Children likely to receive medication are those relief (Carlson et al., 2008; Manassis et al., 2016). treatment benchmarks (Kurtz

even if it is slow, such as maintaining speech in ress within the first few sessions of PCIT-SM in the room, and children should begin talking to able to talk to the therapist without their parents 2015). After 4-6 sessions, children are typically question (Kurtz Psychology Consulting PC, front of the clinician or answering a clinician's to be minor. As in standard PCIT, clinicians multiple individuals in school by 8-12 sessions mental history, child age, and consistency of on factors, such as parent skill practice, developrelief. Each child's recovery will be unique based when medication may be needed to aid symptom are their treatment progress and to determine be used as a general guide for clinicians to evalu-PCIT-SM has not been empirically tested, it can See Table 4 for full outline; Kurtz Psychology observed across therapy sessions even if it appears application; however, behavior change should be symptom trajectory for children participating in Consulting PC, 2015). Although this expected Children with SM should demonstrate prog-

> of the PCIT-SM skills and sequences before should discuss a child's lack of progress with parrecommending medication. ents and assess their consistent implementation

Future Directions

tiveness of PCIT-SM in reducing symptomology strate their effectiveness compared to other treatsupport the need for alterations, and to demondation to guide changes made in the protocol, to evaluated using control or comparison groups Overall, more evidence for the efficacy and effec-Gold, Hirsch, & Miller, 2015; McCabe & Yeh, of PCIT have undergone rigorous empirical valiwithin a large sample of children. Other adaptions disseminated. is required before the treatment should be widely 2009; Niec, Barnett, Prewett, & Chatham, 2016). there are some areas in which the adaptation could ment models (e.g., Comer et al., 2012; Fernandez, eral extension of an efficacious, well-established has been implemented clinically, it has not been be further investigated. First, though PCIT-SM treatment, adapted for children with SM. Still, 2017). Thus, PCIT-SM represents a promising lat-(Muris & Ollendick, 2015; Zakszeski & DuPaul, treatment options currently available are limited the research literature, assessment measures, and nized since the beginning of the twentieth century, Even though symptoms of SM have been recog-

standard PCIT protocol. For example, clinicians the elements of PCIT-SM that differ from the and formal standardization should be given for Finally, more explicit implementation guidelines mative data, interrater reliability, convergent be important for future research to provide nor-(Cotter, 2016). Given that the SMICS-R and compared to normative or oppositional children the use and interpretation of these assessments. validity, and other psychometric support to guide exhibit different behaviors during the observation the DPICS suggest that children with anxiety with PCIT-SM have also not been fully evaluated SM-BOT were adapted from the DPICS, it will and require more research attention. Studies of Second, the assessment measures associated 126

who provide standard PCIT may not have much experience implementing a token economy or conducting exposure tasks that target anxiety. An explanation of appropriate play-room/exposure setup, training for clinical assistants, and coaching considerations unique to PCIT-SM should be developed to guide these clinical techniques. Moreover, clinicians would likely need support on how to address a child's regression when speaking in high anxiety contexts or how to involve teachers and school staff in treatment.

Conclusion

SM is an anxiety-related psychological disorder that is maintained through avoidance and that can result in both short- and long-term impairments in social, academic, and psychological functioning. PCIT-SM is an adapted treatment program that utilizes behavioral principles and exposure activities to target a child's failure to speak. Clinical use of PCIT-SM has demonstrated promising symptom relief, yet more research is needed to support its widespread dissemination. For Sarah's mother, treatment provided a new-found sense of hope and effective tools to help her daughter become more confident when using her "brave voice" in previously anxiety-provoking settings. Throughout the course of treatment, Sarah slowly progressed from nonverbal responses, to whispering, to finally talking with peers, teachers, and strangers. Being able to order her own food at a busy restaurant was the ultimate PCIT-SM graduation session for Sarah and her mother.

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Togan Adapting PCT to Treat Anxiety

and Anthony C. Puliafico Anthony S. Dick, Jami M. Furr, Jonathan S. Comer, Cristina del Busto,

Despite tremendous progress and success in the of interventions designed specifically to treat years, the field has begun to witness a number anxiety has lagged. Fortunately, in more recent supported practices for treating early childhood adolescence, advances in the development of anxiety presenting in middle childhood and development of well-established treatments for CALM program and describes the program in reviews the research support for the PCIT context of child development. This chapter toms indirectly by reshaping the primary tions for early-onset anxiety target child symptor early externalizing problems, PCIT adaptachild interaction therapy to address early childthis area has been the adaptation of parenttion. One of the most promising advances in early childhood anxiety and behavioral inhibiof very important advances in the development hood anxiety problems. As in traditional PCIT

ple of the program.

detail. The chapter concludes with a case exam-

often persist into adulthood, during which time and overall reduced quality of life (e.g., Comer tal and physical comorbidities, life impairments, they are associated with a number of other men-2014; Weiner, Elkins, Pincus, & Comer, 2015; 2016; Cummings, Caporino, & Kendall, 2013; Cornacchio, Crum, Coxe, Pincus, & Comer, sion, substance use, and suicidality (e.g., other mental health problems such as depresassociated with serious family dysfunction, peer ence. For example, child anxiety disorders are characterized by marked and persistent fear or When left untreated child anxiety problems Wu, Goodwin, Comer, Hoven, & Cohen, 2010). Thompson-Hollands, Kerns, Pincus, & Comer, Green et al., 2016; Swan & Kendall, 2016; disturbance, irritability, and the development of problems, reduced academic performance, sleep erable behavioral avoidance and life interferworry, and are typically accompanied by considing children and adolescents (Comer & Olfson, alent category of mental health problems affect-Anxiety disorders are collectively the most prev-2010; Kessler et al., 2012). These disorders are

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